

ID	Title	Description	Related Figures	Data	Note
S1	Sample Information	Sample information	Fig. 1A	n/a	Reference: Andrianteranagna, M. et al. (2021) 'SMARCA4-deficient rhabdoid tumours show intermediate molecular features between SMARCB1-deficient rhabdoid tumours and small cell carcinomas of the ovary, hypercalcaemic type', The Journal of pathology, 255(1), pp. 1–15. Chun, H.-J.E., Johann, P.D., Milne, K., Zapalka, M., Buellesbach, A., Ishaque, N., Iskar, M., Erkek, S., Wei, L., Tessier-Cloutier, B., et al. (2019). Identification and Analyses of Extra-Cranial and Cranial Rhabdoid Tumor Molecular Subgroups Reveal Tumors with Cytotoxic T Cell Infiltration. Cell Rep. 29, 2338–2364.e7.
S2	Cell Type Markers	Cell type markers	Fig. S1F, S5B, 6B, S6D	n/a	Reference: Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).
S3	Tumor Antigens	Tumor antigens	Fig. 2	n/a	Reference: CTdatabase: a knowledge-base of high-throughput and curated data on cancer-testis antigens; Luiz Gonzaga Almeida, et al., Nucleic Acids Res, 2009, PMID: 18838390
S4	GeoMx CIBERSORTx	GeoMx CIBERSORTx Result	Fig. 1C	Spatial Transcriptomics	24 immune segments from MRT1-4
S5	GeoMx SpatialDecon	GeoMx SpatialDecon Result	Fig. 1C	Spatial Transcriptomics	24 immune segments from MRT1-4
S6	TAs in GeoMx	Tumor antigens detected above the limit of quantitation in at least one tumor segment	Fig. 2B	Spatial Transcriptomics	Tumor antigens detected above the limit of quantitation in at least one tumor segment
S7	TAs in Bulk RNA-seq	Tumor antigens expressed with RPKM >= 1 in at least one MRT sample	Fig. 2C	Bulk RNA-Seq	Tumor antigens expressed with RPKM >= 1 in at least one MRT sample
S8	Corr of CYT Score and Cell Type	Pearson correlation coefficients between CYT scores and inferred immune cell types in bulk RNA-Seq data	Main text	Bulk RNA-Seq	Significant cut-off: Adjusted p-values < 0.05
S9	DEA of GeoMx Hot vs Cold	Differential expression analysis results of GeoMx DSP "Hot" vs "Cold" tumor or immune segments	Fig. 3A, 5G	Spatial Transcriptomics	Positive values: higher expression in "Hot" group; Negative values: higher expression in "Cold" group. Adjusted p-values < 0.05, Fold change >= 1.5
S10	PA of GeoMx Hot vs Cold	Pathway/GO analysis of DE genes of GeoMx DSP "Hot" vs "Cold" tumor or immune segments	Fig. 3B, 5I	Spatial Transcriptomics	Adjusted p-values < 0.05
S11	RSS in MRT Tumor Cells	Regulon specific scores (tumor clusters only in the MRT dataset)	Fig. S3A	Single-cell Multi-omics	Tumor cell clusters from MRT1-4
S12	PA of Sample-Spec Regulons	Pathway/GO analysis of TFs and targets in regulons with RSS > 0.5 in each MRT tumor cell cluster	Fig. 4B	Single-cell Multi-omics	GO:BP, Term size (number of genes) between 10 ~ 500; Adjusted p-values < 0.01
S13	PA of Clusters 3 and 7	Pathway/GO analysis of TFs and targets in regulons in Cluster 3 and 7	Fig. 4C	Single-cell Multi-omics	Term size (number of genes) between 10 ~ 1000; Adjusted p-values < 0.05
S14	scRNA-Seq APPG Regulons	Regulons that are inferred to regulate APPG expression using scMultiome GEX data by pySCENIC	Fig. 4D	Single-cell Multi-omics	pySCENIC result, Consensus regulons from 5 runs
S15	TFs in APPG High Group	TFs with higher expression levels and enriched motifs in APPG expression "High" group compared with "Low" group	Fig. 4H	Single-cell Multi-omics	Adjusted p-values < 0.05
S16	Bulk RNA-Seq APPG Regulons	Regulons that are inferred to regulate APPG expression using bulk RNA-Seq data by pySCENIC	Fig. 4I, S3C	Bulk RNA-Seq	pySCENIC result, Consensus regulons from 5 runs
S17	PA of Cluster 8	Pathway/GO analysis of TFs and targets in regulons in Cluster 8	Fig. S3D	Bulk RNA-Seq	GO:BP, Term size (number of genes) between 10 ~ 500; Adjusted p-values < 0.01
S18	Bulk RNA-Seq CIBERSORTx	Bulk RNA-Seq CIBERSORTx Result	Fig. 5A-B	Bulk RNA-Seq	65 MRT samples
S19	Bulk ATAC-Seq CIBERSORTx	Bulk RNA-Seq CIBERSORTx Result	Fig. 5A-B	Bulk ATAC-Seq	42 MRT samples
S20	DEGs of bulk RNA-seq CD8T High vs Low	Differential expression analysis results of bulk RNA-Seq "CD8T High" vs "CD8T Low" MRTs	Fig. 5C	Bulk RNA-Seq	Positive values: higher expression in "CD8T High" group; Negative values: higher expression in "CD8T Low" group. Adjusted p-values < 0.05, abs(ave_log2FC) >= log2(2)
S21	PA of CD8T High DEGs	Pathway/GO analysis of DEGs in "CD8T High" MRTs	Fig. 5C	Bulk RNA-Seq	Term size (number of genes) between 10 ~ 500; Adjusted p-values < 0.05
S22	DEGs of bulk RNA-seq MRF-Pos vs MRF-Neg	Differential expression analysis results of bulk RNA-Seq "MRF-Positive" vs "MRF-Negative" MRTs	Fig. 5E	Bulk RNA-Seq	Positive values: higher expression in "MRF-Pos" group; Negative values: higher expression in "MRF-Neg" group. Adjusted p-values < 0.05, abs(ave_log2FC) >= log2(2)
S23	DAPs of bulk ATAC-Seq MRF-Pos vs MRF-Neg	Differential accessibility analysis results of bulk ATAC-Seq "MRF-Positive" vs "MRF-Negative" MRTs	Fig. 5E	Bulk ATAC-Seq	Positive values: higher expression in "MRF-Pos" group; Negative values: higher expression in "MRF-Neg" group. Adjusted p-values < 0.05, abs(ave_log2FC) >= log2(2)
S24	PA of DEG vs DAP in MRF-Pos MRTs	Pathway/GO analysis of DEGs and TSS-proximal DAPs in "MRF-Positive" MRTs	Main text	Bulk RNA-Seq, Bulk ATAC-Seq	Term size (number of genes) between 10 ~ 500; Adjusted p-values < 0.05
S25	DEGs with DAPs in MRF-Pos MRTs	DEGs with TSS-proximal DAPs in "MRF-Positive" MRTs	Fig. 5F	Bulk RNA-Seq, Bulk ATAC-Seq	
S26	TF Activity in MRF-Pos MRTs	TFs with higher expression levels and enriched motifs in "MRF-Positive" MRTs compared with "MRF-Negative" MRTs	Fig. 5G	Bulk RNA-Seq, Bulk ATAC-Seq	Adjusted p-values < 0.05
S27	Corr of Cyto Lymph and Cell Type	Pearson correlation coefficients between the fraction of cytotoxic lymphocytes (fraction of CD8 T cells and activated NK cells) and the fraction of other immune cell types inferred by CIBERSORTx using bulk RNA-Seq dat	Fig. 6E	Bulk RNA-Seq	Significant cut-off: Adjusted p-values < 0.05
S28	DEA of Mono Vs TAM	Differential expression analysis results of monocyte vs TAM clusters	Fig. 7C	Single-cell Multi-omics	Positive values: higher expression in TAM cluster; Negative values: higher expression in monocyte cluster. Adjusted p-values < 0.01, pct.1 >= 0.25 or pct.2 >= 0.25, abs(ave_log2FC) >= log2(2)
S29	PA of DEAs in Mono Vs TAM	Pathway/GO analysis of DE genes in monocyte vs TAM clusters	Fig. 7D	Single-cell Multi-omics	Term size (number of genes) between 10 ~ 500; Adjusted p-values < 0.05
S30	RSS in Non-malignant Cells	Regulon specific scores (non-malignant cell clusters in the MRT+PBMC dataset)	Fig. 7E	Single-cell Multi-omics	Non-malignant cell clusters from MRT1-4 + PBMC
S31	TF Activity in M2 TAM	TFs with higher expression levels and enriched motifs in TAMs compared with monocytes	Fig. 7F	Single-cell Multi-omics	Adjusted p-values < 0.05
S32	CCIs LR	Inferred cell-cell interactions at ligand-receptor level	Fig. S6C	Single-cell Multi-omics	Communication probability was computed at ligand-receptor level, only interactions with p-value < 0.05 were kept
S33	CCIs PW	Inferred cell-cell interactions at pathway level	Fig. S6C	Single-cell Multi-omics	Communication probability at signaling pathway level was computed by summarizing all related ligands/receptors with p-value < 0.05
S34	MRT Cluster Markers	Marker genes of each cluster	Methods	Single-cell Multi-omics	G401 + MRT1-4
S35	PA of Unknown Cluster Markers	Pathway/GO analysis of marker genes in "Unknown" cluster	Methods	Single-cell Multi-omics	Term size (number of genes) < 1000; Adjusted p-values < 0.05

Samples profiled by 10X single-cell Multiome assay and NanoString GeoMx DSP spatial transcriptomics in this study									
Source	Sample	Type	Primary Site	Alteration	Details	IHC Validation (Fig. S2A)	Note	10X Genomics Single-cell Multi	GeoMx DSP Spatial Transcriptor
ATCC	G401	Cell line	N/A	SMARCB1 loss	Homozygous loss of SMARCB1	N/A		Yes	No
BC Children's Hospital	MRT1	Flash frozen tissue	Mouth	SMARCB1 loss	Homozygous loss of SMARCB1	Yes		Yes	Yes
BC Children's Hospital	MRT2	Flash frozen tissue	Forehead	SMARCB1 loss	N/A	Yes	Probably homozygous deletion based on scATAC-Seq data	Yes	Yes
BC Children's Hospital	MRT3	Flash frozen tissue	Omentum	SMARCA4 loss	First hit: Stop gain (c.430C>T; p.Gln144*) Second hit: N/A	Yes	Andrianteranagna, M. et al., The Journal of pathology, 2021 Patient 10	Yes	Yes
BC Children's Hospital	MRT4	Flash frozen tissue	Shoulder	SMARCA4 loss	First hit: Frameshift (c.2838del; p.Phe947Leufs*3) Second hit: N/A	Yes	Andrianteranagna, M. et al., The Journal of pathology, 2021 Patient 9	Yes	Yes
Reference: Andrianteranagna, M. et al. (2021) 'SMARCA4-deficient rhabdoid tumours show intermediate molecular features between SMARCB1-deficient rhabdoid tumours and small cell carcinomas of the ovary, hypercalcaemic type', The Journal of pathology, 255(1), pp. 1–15.									
Samples profiled by bulk ATAC-Seq in this study									
Source	Patient ID	Anatomic Site	Tumor Content APOLLOH [1]	Mutation [1]	Subgroup [2]	Sequencing Depth [Read Pairs]			
The Children's Oncology Group: AREN20B3-Q	PAUNPA	Kidney	84.93	SMARCB1	3	196,657,300			
The Children's Oncology Group: AREN20B3-Q	PATDVL	Kidney	89.89	SMARCB1	1	195,718,564			
The Children's Oncology Group: AREN20B3-Q	PAVVIT	Kidney	NA	SMARCB1	1	212,344,604			
The Children's Oncology Group: AREN20B3-Q	PAVITI	Kidney	59.71	SMARCB1	1	216,033,900			
The Children's Oncology Group: AREN20B3-Q	PAUFVP	Kidney	89.99	SMARCB1	3	217,838,972			
The Children's Oncology Group: AREN20B3-Q	PAUCGJ	Kidney	84.43	SMARCB1	3	216,244,820			
The Children's Oncology Group: AREN20B3-Q	PATXKA	Liver	86.98	SMARCB1	4	242,661,760			
The Children's Oncology Group: AREN20B3-Q	PASAMZ	Soft tissue	NA	SMARCB1	3	207,364,376			
The Children's Oncology Group: AREN20B3-Q	PATAFT	Liver	80.22	SMARCB1	4	218,971,028			
The Children's Oncology Group: AREN20B3-Q	PASADZ	Kidney	89.1	SMARCB1	3	224,343,540			
The Children's Oncology Group: AREN20B3-Q	PASCDH	Soft tissue/Axillary	87.84	SMARCB1	3	233,408,772			
The Children's Oncology Group: AREN20B3-Q	PADWRZ	Kidney	85.67	SMARCB1	3	234,273,016			
The Children's Oncology Group: AREN20B3-Q	PADYZI	Kidney	90	SMARCB1	3	269,678,300			
The Children's Oncology Group: AREN20B3-Q	PAJMRB	Kidney	74.16	SMARCB1	3	235,652,600			
The Children's Oncology Group: AREN20B3-Q	PARRCL	Kidney	87.12	SMARCB1	3	426,088,764			
The Children's Oncology Group: AREN20B3-Q	PARZBI	Kidney	81.88	SMARCB1	3	439,717,576			
The Children's Oncology Group: AREN20B3-Q	PARUGK	Kidney	67.32	SMARCB1	4	434,513,028			
The Children's Oncology Group: AREN20B3-Q	PARZRH	Kidney	85.84	SMARCB1	3	465,169,112			
The Children's Oncology Group: AREN20B3-Q	PASVDP	Soft tissue/Paraspinal	74.43	SMARCB1	1	444,679,872			
The Children's Oncology Group: AREN20B3-Q	PASWZZ	Kidney	91.84	SMARCB1	3	470,023,228			
The Children's Oncology Group: AREN20B3-Q	PASXGF	Kidney	NA	SMARCB1	3	498,359,792			
The Children's Oncology Group: AREN20B3-Q	PASXNA	Kidney	95.04	SMARCB1	3	505,006,264			
The Children's Oncology Group: AREN20B3-Q	PASABD	Kidney	88.31	SMARCB1	4	430,736,844			
The Children's Oncology Group: AREN20B3-Q	PASDLA	Kidney	90.91	SMARCB1	1	404,647,672			
The Children's Oncology Group: AREN20B3-Q	PATFZZ	Kidney	89.14	SMARCB1	3	517,656,432			
The Children's Oncology Group: AREN20B3-Q	PASZYE	Kidney	76.3	SMARCB1	3	453,220,152			
The Children's Oncology Group: AREN20B3-Q	PATBLF	Soft tissue/Left back	89.46	SMARCB1	1	424,258,392			
The Children's Oncology Group: AREN20B3-Q	PAJNFP	Kidney	90.32	SMARCB1	3	483,190,536			
The Children's Oncology Group: AREN20B3-Q	PATFXW	Kidney	89.47	SMARCB1	3	517,739,668			
The Children's Oncology Group: AREN20B3-Q	PAUEKW	Soft tissue/Left pelv	89.95	SMARCB1	3	204,027,188			
The Children's Oncology Group: AREN20B3-Q	PAWFBL	Kidney	85.16	SMARCB1	1	260,605,800			
The Children's Oncology Group: AREN20B3-Q	PAREWI	Kidney	91.55	SMARCB1	3	161,220,724			
The Children's Oncology Group: AREN20B3-Q	PAWFWK	Kidney	93.84	SMARCB1	1	169,678,800			
The Children's Oncology Group: AREN20B3-Q	PASGGN	Kidney	NA	SMARCB1	3	169,966,596			
The Children's Oncology Group: AREN20B3-Q	PASILR	Kidney	NA	SMARCB1	3	194,811,288			
The Children's Oncology Group: AREN20B3-Q	PAUDPV	Kidney	92.11	SMARCB1	3	161,991,972			
The Children's Oncology Group: AREN20B3-Q	PAVDPR	Kidney	NA	SMARCB1	3	186,133,924			
The Children's Oncology Group: AREN20B3-Q	PAUGYZ	Kidney	86.64	SMARCB1	1	126,708,776			
The Children's Oncology Group: AREN20B3-Q	PASRHU	Kidney	89.96	SMARCB1	1	165,563,500			
The Children's Oncology Group: AREN20B3-Q	PARIRN	Kidney	90.21	SMARCB4	3	167,942,320			
The Children's Oncology Group: AREN20B3-Q	PAUHAZ	Kidney	86.91	SMARCB1	1	158,378,024			
The Children's Oncology Group: AREN20B3-Q	PASNED	Kidney	NA	SMARCB1	3	187,975,628			
References:									
1. Chun, H.-J. E. et al. Genome-Wide Profiles of Extra-cranial Malignant Rhabdoid Tumors Reveal Heterogeneity and Dysregulated Developmental Pathways. Cancer Cell 29, 394–406 (2016).									
2. Chun, H.-J.E., Johann, P.D., Milne, K., Zapatka, M., Buellesbach, A., Ishaque, N., Iskar, M., Erkek, S., Wei, L., Tessier-Cloutier, B., et al. (2019). Identification and Analyses of Extra-Cranial and Cranial Rhabdoid Tumor Molecular Subgroups Reveal Tumors with Cytotoxic T Cell Infiltration. Cell Rep. 29, 2338–2354.e7.									

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
	AFF3	ACAN	ACVRL1	ABCC3	ABCA1	AOAH	ADAM19	ABRACL	A2M
	BACH2	ACTA2	ADAM15	ABHD12	ABCC1	B3GNT7	BCL11B	ACAP1	ABCC5
	BANK1	ACTN1	ADCY4	ACSL1	ABCC4	C1orf21	CAMK4	ACOT9	ABCD4
	BCL11A	ADAMTS12	AFAP1L1	ADAP2	ACER3	CD247	CCR4	ACSL5	ABL2
	BLK	ADAMTS4	AIF1L	ADIPOR1	ACOT7	CD7	CCR5	ACTN1	ACTR8
	C12orf42	ADIRF	APLNR	ADORA3	ACSL4	CMC1	CD2	ACTN4	ADAM9
	CCR7	AEBP1	APOL3	AIF1	ADAM12	DENND2D	CD27	ACTR3	ADAP2
	CD19	AGAP11	AQP1	AKR1B1	ADCYAP1	EFHD2	CD28	ADA	ADORA3
	CD37	ANGPT1	ARAP3	ALCAM	ADRB2	FGFBP2	CD3D	ADAM19	ADRB2
	CD55	ANGPTL4	ARHGAP29	ALDH2	AGTRAP	GK5	CD3E	ADAM8	AFF1
	CD79A	ANO1	ARHGAP31	AMPD3	AHR	GNLY	CD3G	ADD3	AIG1
	CD79B	ARHGAP1	ARHGEF15	AP1B1	ALDH1A1	GZMB	CD4	ADORA2A	AKR1B1
	CDC47L	ARHGAP42	ARHGEF28	APOC1	ALOX5	HIPK2	CD40LG	AGO2	ALOX5AP
	CLEC17A	ARHGEF17	ARL15	ATP13A3	ALOX5AP	IL2RB	CD5	AGPAT9	AMDHD2
	CXCR5	ASPN	ARRDC3	ATP6V0B	ALS2	KIR2DL1	CD6	AGTPBP1	ANKH
	CYBASC3	AVPR1A	BCAM	ATP6V1B2	AMHR2	KIR2DL3	CD8A	AGTRAP	ANKRD36
	DAPP1	AXL	BCL6B	B3GNT5	ANKRD27	KIR2DL4	CD8B	AHNAK	ANKRD36B
	EEF1B2	BGN	BDKRB2	BCAT1	AQP10	KIR2DS4	CDKN1B	AKAP2	ANTXR1
	EZR	C11orf96	BMPR2	BCL2A1	ARHGAP18	KIR3DL1	CLEC2D	ALDH2	AP1B1
	FAM129C	C1orf198	BTNL9	BEST1	ARHGEF6	KIR3DL2	CTLA4	ALOX5	AP2A2
	FCER2	C1QTNF1	C8orf4	BLVRB	ATP6V0A2	KLRC1	CXCR6	AMICA1	APOC1
	FCRL1	C1R	CA2	C10orf54	AURKA	KLRC2	DPP4	AMPD2	APOE
	FCRL2	C1S	CALCRL	C15orf48	B4GALT5	KLRC3	DUSP4	ANPEP	APPL2
	FCRL5	C21orf7	CAPN11	C1QA	BACE2	KLRD1	EMB	ANXA1	ARHGAP12
	FCRLA	C4A	CARD10	C1QB	BATF	KLRF1	EMBP1	ANXA2	ARHGAP18
	FGD2	C4B	CASKIN2	C1QC	BLVRA	KRT86	EML4	ANXA6	ARHGAP21
	GNG7	C4B_2	CCL14	C2	BMP2K	LGALS9C	FAM102A	AOAH	ARHGAP24
	HLA-DOB	CALD1	CD200	C3	BTK	MCTP2	FLT3LG	AP1S2	ARMCX1
	HLA-DQA2	CCDC102B	CD320	C3AR1	C1orf186	MLC1	FYB	APOBEC3A	ATF3
	HVCN1	CCR10	CD34	C5AR1	C20orf118	NCR1	GALM	AQP9	ATF6
	ICOSLG	CD248	CDH5	C9orf72	C6orf25	PRF1	GPR171	AREG	ATP1B1

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	IGJ	CDH6	CFI	CARD9	C8G	S1PR5	GPRIN3	ARF5	ATP2C1
	IGLL5	CFH	CLDN5	CASP1	CACNA2D4	SH2D1B	GZMH	ARFGAP3	AXL
	IL16	CHN1	CLEC14A	CCL20	CADPS	SLFN13	GZMK	ASGR2	BAG3
	IRF8	CLEC11A	CLEC1A	CCL3	CALB2	SPON2	ICOS	ATG3	BAIAP2
	KDM4B	COL12A1	CLEC3B	CCL3L1	CAPG	TXK	IL32	ATP2B1	BCL2L1
	KIAA0226	COL14A1	CLIC2	CCL3L3	CATSPER1	ZBTB16	IL7R	B4GALT5	BEX4
	KIAA0226L	COL16A1	CLIC5	CCL4L1	CCDC115		LAG3	BACH1	BLNK
	LILRA4	COL18A1	CNTNAP3B	CCL4L2	CD274		LCK	BASP1	BMP2K
	LOC283663	COL1A1	COL15A1	CCR1	CD33		LEPROTL1	BCL11A	C1orf85
	LY9	COL1A2	CRIM1	CCRL2	CD69		LIME1	BCL2A1	C1QA
	LYN	COL3A1	CSGALNACT1	CD14	CD82		MAF	BCL3	C1QB
	MS4A1	COL5A2	CTNND1	CD163	CDCP1		MIAT	BID	C1QC
	MZB1	COL5A3	CTTNBP2NL	CD163L1	CDH12		NLRC5	BIRC3	C2
	NAPSB	COL6A1	CX3CL1	CD209	CDK15		OXNAD1	BST1	C20orf194
	NCF1	COL6A3	CXorf36	CD300C	CKS2		PBX4	C11orf21	C3
	NCF1B	COX4I2	CYYR1	CD300E	CLCN3		PBXIP1	C15orf39	C5orf4
	NCF1C	CPE	DLL4	CD300LB	CLNK		PDCD1	C15orf48	CADM1
	NCOA3	CRISPLD2	DOCK6	CD302	CLU		PIK3IP1	C19orf38	CARD11
	PAX5	CRYAB	DOCK9	CD68	CMA1		POLR3E	C19orf59	CCDC152
	RALGPS2	CSPG4	DYSF	CD80	CPA3		RCAN3	C1orf162	CCL2
	SELL	DAAM2	ECSCR	CD86	CPEB4		SIRPG	C9orf72	CCL3
	SNX2	DBNDD2	EFNA1	CEBPB	CPPED1		SPOCK2	CAMKK2	CCL3L1
	SNX29P1	DCN	EFNB2	CECR1	CRLF2		TC2N	CAPN2	CCL3L3
	SPIB	DKK3	EGFL7	CFD	CSF2RB		THEMIS	CARD16	CCL4
	ST6GAL1	DSTN	EHD4	CLDN1	CTNBNL1		TNFRSF25	CASP9	CCL4L1
	TCL1A	EBF1	ELK3	CLEC10A	CTSG		TRAT1	CCDC69	CCL4L2
	TLR9	ECM2	ELTD1	CLEC4A	CTTNBP2		UBASH3A	CCL20	CCL8
	WDFY4	EDIL3	EMCN	CLEC4E	DDX26B		WNK1	CCND3	CCND1
		EDNRA	EMP1	CLEC5A	DDX3Y		ZFP36L2	CCR2	CD14
		EFEMP2	ENG	CLEC7A	DENND1B			CCR5	CD163

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Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
		ENPEP	ENPP2	CPVL	DIP2C			CCRN4L	CD163L1
		EPS8	EPB41L4A	CREG1	DRD2			CCT5	CD200R1
		FHL5	ESAM	CRYL1	DUSP10			CD101	CD209
		FILIP1L	ESM1	CSF1R	DUSP14			CD1C	CD276
		FN1	EXOC3L1	CSF2RA	DUSP6			CD1D	CD28
		FOXS1	EXOC3L2	CSF3R	EDEM2			CD1E	CD59
		GALNT16	FAM107A	CSTA	EFHC2			CD244	CD81
		GEM	FAM167B	CTSB	ELL2			CD300E	CD84
		GJC1	FAM198B	CTSL1	ELOVL7			CD37	CD9
		GPRC5C	FAM65A	CTSS	EMR2			CD38	CDKN2AIP
		GPX3	FCN3	CXCL16	ENPP3			CD44	CH25H
		GUCY1A2	FGD5	CXCL3	EPB41L1			CD48	CHD7
		GUCY1A3	FGF12	CYBB	ESYT1			CD52	CHID1
		GUCY1B3	FKBP1A	CYP2S1	EVPL			CD55	CITED2
		HEPH	FLI1	DAPK1	EXOSC8			CD58	CKS2
		HEYL	FLJ41200	DMXL2	FAIM2			CD97	CLDN1
		HIGD1B	FLT1	DRAM2	FAM157B			CDA	CMKLR1
		HSPB2	FLT4	DSC2	FCER1A			CDC42EP2	CNRIP1
		ITGA7	GABRD	DSE	FER			CDCA4	COLEC12
		KANK2	GALNT15	EBI3	FOSB			CEACAM4	CPEB4
		KCNE4	GALNT18	EPB41L3	GALC			CECR1	CPED1
		KCNJ8	GIMAP6	EREG	GALNT6			CFP	CPM
		KIRREL	GIMAP8	F13A1	GATA1			CHST15	CREB3L2
		LDB3	GIPC2	FAM105A	GATA2			CKAP4	CREG1
		LGALS3BP	GJA1	FAM26F	GCSAML			CLCF1	CSGALNACT1
		LGI4	GNG11	FAM49A	GGT1			CLEC10A	CTSC
		LHFP	GPRC5B	FCAR	GM2A			CLEC12A	CTSD
		LMOD1	GRB10	FCGBP	GMPR			CLEC4A	CTSL1
		LPL	HECW2	FCGR1A	GRAP2			CLEC4D	CXCL12
		LPP	HEG1	FCGR1B	HDC			CLEC4E	CXCL3

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
		LPPR4	HID1	FCGR1C	HPGD			CLIP4	CYB5R1
		LTBP1	HLX	FCGR2A	HPGDS			CNN2	CYBRD1
		LUM	HPCAL1	FCGR2B	HS3ST1			CORO1A	CYFIP1
		LURAP1L	HSPA12B	FCGR2C	HS6ST1			COTL1	CYTL1
		LZTS1	HSPG2	FCGRT	IL18R1			CPPED1	DAB2
		MAP2	HYAL2	FCN1	IL1RL1			CRIP1	DHRS3
		MARK1	ICAM2	FGD4	IL5RA			CRLF2	DHRS7
		MFGE8	IFI27	FGL2	JPH4			CSF3R	DIP2C
		MGP	IGFBP3	FOLR2	KCNMA1			CSK	DNAJA4
		MIR143HG	IL3RA	FPR1	KCNQ1			CST7	DNAJB1
		MMP11	INPP1	FPR3	KIAA1522			CSTA	DNAJB4
		MRGPRF	INSR	FUCA1	KIAA1549			CYB5R3	DOCK4
		MRVI1	IPO11-LRRC70	G0S2	KIT			CYFIP2	DPP7
		MSRB3	IQCK	GAA	KREMEN1			CYP1B1	DSC2
		MT1A	ITGA2	GAB2	KRT1			CYP27A1	DST
		MT2A	ITGA5	GATM	LAT			CYTIP	DTNA
		MYH11	ITGA6	GCA	LAT2			DAPP1	DTNB
		MYL9	ITGB4	GGTA1P	LAX1			DDX21	EBI3
		MYLK	JAG2	GK	LEO1			DDX60L	EGFL7
		MYO1B	JAM2	GPR137B	LIF			DENND5A	EGR1
		NNMT	KANK3	GPR34	LOC100130264			DES1	EGR2
		NOTCH3	KCNJ2	GPR84	LOC284454			DIAPH1	EGR3
		NRIP2	KCNK5	GRINA	LOC339524			DOCK5	EIF4A2
		NTRK2	KCNN3	GRN	LPCAT2			DYSF	EMB
		NUPR1	KDR	HCAR2	LTC4S			EAF1	ENG
		OLFML2B	KIAA0355	HCAR3	MAOB			ECE1	ENPP2
		PALLD	KIAA1462	HCK	MAPK6			EFHD2	EPAS1
		PARM1	KIAA1671	HEIH	MAPRE1			EHD1	EPB41L2
		PCDH18	KL	HEXA	MBOAT7			EIF4E2	EPS15
		PCOLCE	LDB2	HEXB	MEIS2			EIF6	ERO1LB

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
		PDE5A	LIMS2	HK3	MITF			ELF4	ETV5
		PDGFA	LOC100505495	HLA-DMB	MLPH			EMP3	F13A1
		PDGFRB	LUZP1	HLA-DPB2	MRGPRX2			EMR1	FABP3
		PHLDA1	MALL	HMOX1	MS4A2			EREG	FAM105A
		PLAC9	MANSC1	HPSE	MSRA			EVI2B	FAM13A
		PLEKHH2	MECOM	HSD17B11	NDEL1			FAM157B	FAM174B
		PLN	MGST2	HSPA6	NDST2			FAM65B	FAM213A
		PODN	MKL2	HSPA7	NEK6			FBP1	FAM46A
		PPP1R14A	MMRN2	IER3	NFKBIZ			FCAR	FARP1
		PRELP	MPZL2	IFI30	NMT2			FCER1A	FCGBP
		PRKG1	MTMR9LP	IGF1	NRCAM			FCN1	FCGR1A
		PTEN	MYCT1	IGSF21	NTM			FFAR2	FCGR1B
		PTGIR	NDST1	IGSF6	NTRK1			FGR	FCGR1C
		RASD1	NEDD9	IL10	OSBPL8			FKBP1A	FCGR3A
		RASL12	NOS3	IL1A	P2RX1			FLNA	FCGR3B
		RCN3	NOSTRIN	IL1B	PADI2			FLT1	FCHO2
		REM1	NOTCH4	IL1R2	PAK1			FPR2	FHIT
		RERG	NOX4	IL1RAP	PAQR5			FYN	FMNL2
		RGS16	NPDC1	IL1RN	PEPD			G0S2	FMNL3
		RGS5	NPR1	IL6R	PIGA			G6PD	FOLR2
		S1PR3	NRN1	IL8	PIK3R6			GALNT3	FOS
		SELM	PALMD	INSIG1	PLAT			GBP5	FRMD4A
		SEMA5A	PCDH12	IRAK2	PLGRKT			GCH1	FRMD4B
		45173	PCDH17	IRAK3	PLIN2			GK	FSCN1
		SERPINF1	PDE10A	KCTD12	PLXNA4			GLIPR2	FUCA1
		SERPING1	PDE2A	KLF4	PPM1H			GMFG	GAA
		SGCA	PECAM1	KYNU	PPP1R15B			GPCPD1	GADD45B
		SLC2A4	PIK3R3	LGMN	PRDX1			GPR132	GAL3ST4
		SLC7A2	PKN3	LILRA1	PRDX6			GPR35	GAS6
		SMOC2	PLCB1	LILRA2	PRELID2			GPSM3	GATM

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
		SOD3	PLVAP	LILRA3	PRG2			GSTO1	GGTA1P
		SORBS3	PLXNA2	LILRA6	PRKAB1			GSTP1	GIMAP5
		SSTR2	PLXND1	LILRB2	PRKCA			GTPBP1	GNPDA1
		STEAP4	PODXL	LILRB3	PRR26			H2AFY	GOLIM4
		SUSD2	PPM1F	LILRB4	PTGS1			H3F3A	GPNMB
		SYNPO2	PREX2	LILRB5	RAB27B			HCK	GPR155
		TAGLN	PRSS23	LOC100505702	RAB37			HCST	GPR34
		TFPI	PTPRB	LOC338758	RAB38			HIGD2A	GSN
		TGFB111	PTPRM	LOC731424	RAB44			HK3	GYPC
		TGFB3	PVR	LRRC25	RASGRP4			HLA-F	HADH
		THBS2	RAMP2	LST1	RD3			HMGA1	HERC2P2
		THY1	RAMP3	LY86	RGS13			ICAM2	HERPUD1
		TINAGL1	RAPGEF3	LYZ	RHBDD2			ICAM3	HES1
		TMEM119	RAPGEF4	MAFB	RPS6KA5			IFITM1	HEXA
		TNFAIP6	RAPGEF5	MAN2B1	SDPR			IL18R1	HGF
		TPM1	RASA4	MANBA	SERPINB1			IL1R1	HIST2H2BF
		TPM2	RASGRF2	MB21D2	SIGLEC17P			IL1R2	HLA-DOA
		TPPP3	RASGRP3	MCOLN1	SIGLEC6			IL1RN	HMOX1
		TRPC6	RASIP1	ME1	SIGLEC8			IL2RG	HNMT
		VCL	RBP7	MERTK	SLC11A2			IL3RA	HPGDS
		ZAK	RGS3	MFSD1	SLC18A2			IMPDH1	HRH1
			RND1	MGAT1	SLC1A5			IQSEC1	HSD17B14
			ROBO4	MKNK1	SLC24A3			IRAK3	HSPA1A
			RPS6KA2	MNDA	SLC26A2			IRG1	HSPA1B
			S100A16	MPEG1	SLC2A6			ISG20	HSPB1
			S1PR1	MRC1	SLC39A11			ITGA5	HSPH1
			SCARB1	MRO	SLC44A1			ITGAL	HTRA1
			SCHIP1	MS4A14	SLC45A3			ITGAX	ICA1
			SEC14L1	MS4A4A	SLC4A8			ITGB2-AS1	IDH1
			SEMA3F	MS4A6A	SLC8A3			KCNN4	IER2

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
			SEMA6B	MS4A7	SMIM3			KCTD20	IER5
			SH3BGRL2	MSR1	SMYD3			KMO	IFI16
			SHANK3	MXD1	SSR4			KYNU	IFITM10
			SHE	MYO7A	ST3GAL4			LCP1	IGF1
			SHROOM4	NAAA	STMN1			LDLR	IGFBP4
			SLC29A1	NAGA	STX3			LDLRAD3	IGSF21
			SLC9A3R2	NAIP	STXBP2			LGALS1	IL2RA
			SLCO2A1	NAMPT	STXBP5			LGALS2	ING1
			SMAGP	NCF2	STXBP6			LGALS3	ISCU
			SOCS2	NFAM1	SVOPL			LILRA1	ISYNA1
			SOX7	NINJ1	TBC1D14			LILRA2	ITGAV
			SPRY1	NLRP3	TDRD3			LILRA3	ITGB5
			SPTBN1	NPL	TEC			LILRA5	ITPR2
			STC1	OGFRL1	TESPA1			LILRA6	ITSN1
			SYNPO	OLR1	TMEM154			LILRB2	JKAMP
			TEK	OR2B11	TMOD1			LILRB3	JUN
			TGFBR2	OSCAR	TPSAB1			LIMD2	KCNMA1
			TGM2	OSM	TPSB2			LIMS1	KCTD12
			THSD1	P2RX7	TPSD1			LIPN	KIAA1683
			THSD7A	P2RY13	TPSG1			LOC100288069	KIF1B
			TIE1	PILRA	TPST2			LOC100506801	KLF2
			TJP1	PLA2G7	TRPV2			LPCAT1	KLHL24
			TM4SF1	PLB1	TSC22D2			LPPR2	LAIR1
			TM4SF18	PLBD1	TSNAX			LPXN	LAMB2
			TMEM204	PLEK	TSTD1			LSP1	LEPREL1
			TNFAIP1	PLSCR1	TTI1			LST1	LGALS3BP
			TNFAIP8L1	PLXDC2	UNC13D			LTA4H	LGMN
			TNFRSF10C	PPIF	VAT1			LUZP6	LHFPL2
			TNXB	PPT1	VWA5A			LYN	LILRB5
			TSPAN18	PYGL	ZNF48			LYPD3	LIPA

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
			TSPAN7	RAB20				LYST	LMAN1
			USHBP1	RASSF4				LYZ	LOC100505702
			VAMP5	RBM47				MAP2K1	LOXL3
			VWF	RGS18				MAP2K3	LPAR5
			WWTR1	RNASE6				MAPK1IP1L	LPAR6
			ZNF366	S100A9				MAPKAPK3	LTC4S
				SCIMP				MARCO	LYVE1
				SDS				MBOAT7	MAF
				SERPINA1				MCOLN2	MAMDC2
				SERPINB8				MGST1	ME1
				SHMT1				MNDA	MEF2C
				SIGLEC1				MOB3A	MERTK
				SIGLEC10				MPHOSPH6	MGAT4A
				SIGLEC9				MTHFS	MGAT5
				SIRPA				MTMR11	MITF
				SIRPB1				MTPN	MKNK1
				SIRPB2				MVP	MMD
				SLAMF8				MX2	MMP14
				SLC11A1				MXD1	MMP2
				SLC15A3				MYADM	MPC2
				SLC16A10				MYD88	MRC1
				SLC1A3				MYL12B	MRO
				SLC31A2				MYO1G	MS4A4A
				SLC37A2				NAAA	MS4A7
				SLC40A1				NAP1L1	MSR1
				SLC43A2				NAPSB	MTMR9LP
				SLC7A7				NBEAL2	MTSS1
				SLC8A1				NBPF10	MTUS1
				SLCO2B1				NCF2	MVB12B
				SNX8				NDEL1	MYLIP

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
				SOD2				NEDD9	MYO5A
				SPI1				NFAT5	NAA20
				SPP1				NFKB1	NAIP
				STAB1				NOD2	NASP
				TBXAS1				NOTCH2	NCF4
				TFEC				NOTCH2NL	NCKAP5
				TFRC				NUP210	NEK6
				TGFB1				OGDH	NEU1
				THEMIS2				OLR1	NFATC2
				TKT				OPTN	NFIA
				TLR1				OXSR1	NGFRAP1
				TLR2				P2RX1	NISCH
				TLR4				P2RY1	NMRK1
				TM6SF1				PARM1	NPL
				TMEM106A				PCBP1	NR4A2
				TMEM176A				PDE4A	NRP1
				TMEM176B				PDE4D	NRP2
				TMEM86A				PDLIM7	NUPR1
				TNF				PFKP	NXF1
				TNFSF13				PGAM1	OLFML2B
				TNFSF13B				PGLS	OLFML3
				TOM1				PIM3	P2RY13
				TREM1				PLAC8	P4HA1
				TREM2				PLP2	PCDH12
				TRPM2				PNPLA8	PDGFA
				VMO1				PPA1	PDGFB
				VSIG4				PPIF	PDGFC
				WDR91				PPP1CA	PDIA4
				ZNF267				PRELID1	PDK4
				ZNF385A				PRKCB	PDPN

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021). Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
								PSEN1	PEAK1
								PSMA6	PEBP1
								PSMB8	PER3
								PSMB9	PIK3IP1
								PSME1	PIK3R1
								PSME2	PLA2G15
								PSTPIP2	PLAU
								PTGER2	PLD3
								PTGES	PLEKHG5
								PTP4A2	PLTP
								QPCT	PLXDC1
								RAB11FIP1	PLXND1
								RAB24	PMP22
								RAB27A	PRDM1
								RAB3D	PROS1
								RAC2	RASGRP3
								RAP1B	RASSF4
								RARA	RB1
								RASSF5	RCAN1
								RHOF	RGL1
								RILPL2	RGPD5
								RIPK2	RGS1
								RNF19B	RGS10
								RUNX3	RGS16
								S100A10	RHOB
								S100A12	RNASE1
								S100A4	RND3
								S100A6	RNF150
								S100A8	SCARB1
								S100A9	SCARB2

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021). Supplementary Tables S2 and S4B								
	Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	
									M1 Macrophage
									M2 Macrophage
									SAMHD1
									SCD
									SAMSN1
									SDC3
									SDC4
									SEPP1
									SELL
									SEPT11
									SEMA6B
									SERPING1
									SEPT9
									SESN1
									SERPINA1
									SGK1
									SERPINB1
									SIGLEC1
									SERPINB2
									SIGLEC8
									SERPINB8
									SLC16A10
									SH2D3C
									SLC18B1
									SH3BGRL3
									SLC1A3
									SH3BP2
									SLC29A1
									SHKBP1
									SLC2A5
									SIDT2
									SLC35F6
									SIRPB1
									SLC36A1
									SLAMF7
									SLC37A4
									SLC22A4
									SLC38A6
									SLC25A37
									SLC38A7
									SLC2A3
									SLC40A1
									SLC2A6
									SLC41A1
									SLC35E4
									SLC4A7
									SLC38A1
									SLC7A8
									SLC6A6
									SLC9A9
									SLC9A3R1
									SLCO2B1
									SLCO4A1
									SMA5
									SNAI1
									SNHG12
									SNHG16
									SNX6
									SNN
									SORBS3
									SNX10
									SPATS2L

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021). Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
								SNX20	SPIN1
								SPATA13	SPP1
								SPN	SPSB2
								SRC	SPTLC3
								STAT6	SRGAP1
								STK10	ST3GAL6
								STK17B	ST6GAL1
								STK38	STAB1
								STX11	STMN1
								STXBP2	STOM
								SUB1	SWAP70
								SULF2	TBC1D9B
								SYAP1	TCEAL3
								SYTL1	TCF12
								TAGLN2	TCF4
								TBC1D7	TEX14
								TBC1D8	TGFBR1
								TCIRG1	TLR1
								TES	TLR7
								TESC	TM6SF1
								TET2	TMEM176A
								TGM2	TMEM176B
								THBS1	TMEM198B
								TICAM1	TMEM2
								TIMP1	TMEM37
								TKT	TMEM86A
								TMEM120A	TNF
								TMEM71	TNFRSF21
								TNFAIP6	TNS3
								TNFRSF1B	TP53I11

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
								TNFSF14	TPCN1
								TNIP1	TREM2
								TNIP2	TRPM2
								TNIP3	TSPAN15
								TP53BP2	TSPAN4
								TRA2A	TTYH3
								TRAF1	ULK3
								TRAF3IP3	USP53
								TREM1	VAT1
								TRIM25	VSIG4
								TRMT6	WBP5
								TSPAN32	WDR91
								TUBA1A	WFS1
								TUBA4A	WLS
								TYMP	ZFP36L1
								UBE2D1	ZFP36L2
								UBE2J1	ZNF812
								UBXN11	
								UPP1	
								UXT	
								VAMP5	
								VCAN	
								VCL	
								VDR	
								VNN2	
								VRK2	
								WARS	
								WDR1	
								ZAK	
								ZC3H12A	

Reference	Jerby-Arnon, L. et al. Opposing immune and genetic mechanisms shape oncogenic programs in synovial sarcoma. Nat. Med. 27, 289–300 (2021).								
	Supplementary Tables S2 and S4B								
Cell Type	B cell	CAF	Endothelial cell	Macrophage	Mastocyte	NK cell	T cell	M1 Macrophage	M2 Macrophage
								ZDHH20	
								ZFC3H1	
								ZYX	
								LAMB3	

A. Cancer Testis Antigen	
Source	http://www.cta.lncc.br/
Reference	CTdatabase: a knowledge-base of high-throughput and curated data on cancer-testis antigens; Luiz Gonzaga Almeida, et al., Nucleic Acids Res, 2009; PMID: 18838390
Note	Gene symbols were curated and corrected manually
Gene Symbol	
ACRBP	
ACTL8	
ADAM2	
ADAM29	
AKAP3	
AKAP4	
ANKRD30BP2	
ANKRD45	
ARMC3	
ARX	
ATAD2	
BAGE	
BAGE2	
BAGE3	
BAGE4	
BAGE5	
BRDT	
CABYR	
CAGE1	
CALR3	
CASC5	
CCDC110	
CCDC33	
CCDC36	
CCDC62	

CCDC83	
CCNA1	
CDCA1	
CEP290	
CEP55	
COX6B2	
CPXCR1	
CRISP2	
CSAG1	
CSAG2	
CSAG3B	
CT45A1	
CT45A2	
CT45A3	
CT45A4	
CT45A5	
CT45A6	
CT47A1	
CT47A10	
CT47A11	
CT47A2	
CT47A3	
CT47A4	
CT47A5	
CT47A6	
CT47A7	
CT47A8	
CT47A9	
CT47B1	
CT55	
CT66	

CT69	
CT70	
CT83	
CTAG1A	
CTAG1B	
CTAG2	
CTAGE1	
CTAGE5	
CTCFL	
CTNNA2	
DCAF12	
DDX43	
DDX53	
DKKL1	
DMRT1	
DNAJB8	
DPPA2	
DSCR8	
ELOVL4	
FAM133A	
FAM46D	
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GAGE3	
GAGE4	
GAGE5	
GAGE6	
GAGE7	
GAGE8	
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GPATCH2	
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MPHOSPH1	

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ODF4	
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PAGE1	
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PAGE2B	
PAGE3	
PAGE4	
PAGE5	
PASD1	
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PIWIL2	
PLAC1	
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POTEH	
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SPANXD	
SPANXE	
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SYCP1	
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TEX14	
TEX15	
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TSPY1I	
TSPY2	
TSPY3	
TSSK6	
TTK	
TULP2	
VENTXP1	
XAGE1	
XAGE1B	
XAGE1C	
XAGE1D	
XAGE1E	
XAGE2	
XAGE2B	
XAGE3	
XAGE-4	
XAGE5	
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ZNF645	

B. Oncofetal Protein	
Gene Symbol	
AFP	
CEACAM1	
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CEACAM3	
CEACAM4	
CEACAM5	
CEACAM6	
CEACAM7	
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CEACAM19	
CEACAM20	
CEACAM21	
EPCAM	
GPC3	

Relative Mode																									
Mixture	B cells naive	B cells memory	Plasma cells	T cells CD8	T cells CD4 naïv	T cells CD4 mer	T cells CD4 men	T cells follicular	T cells regulator	T cells gamma c	NK cells resting	NK cells activat	Monocytes	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M			
MR1_1_Immune_1	0.13949965	0	0.1153186088	0.07148483256	0	0.140988636	0.0356960137	0.1035263263	0.03743994812	0	0.06021501212	0.04747377481	0.06694493344	0.04874416198	0.09661968876	0.0024870895190	0.005510110579	0.004734664765	0.02334273634	0	0	0.8648421389	0.655429004		
MR1_1_Immune_1	0.07735952553	0.02711636994	0.09565646194	0.08920804137	0	0.0557118128	0.00751275123	0.1248697912	0.05638995902	0	0.007117519702	0.04121034564	0.02112628714	0.09032092499	0.04068959885	0.1551820296	0.000622453470	0.01078677736	0.09647761099	0.00180998844	0	0.8077731118	0.7107458942		
MR1_1_Immune_1	0.1314407284	0	0.1595702391	0.07636218311	0	0.06945995492	0.02655846336	0.110116037	0.06440201057	0	0.01029902439	0.01799132006	0.0210774808	0.0602913296	0.05558976227	0.168261793	0.01162804695	0	0.02787821654	0	0	0.870361941	0.6478145564		
MR1_1_Immune_1	0.05601948093	0.07984379651	0.03169530394	0.00458151528	0	0.1265897605	0.02586980093	0.04170437617	0.03695976263	0	0.06213506181	0	0.00720280351	0.00308478966	0.01741797368	0.2513968075	0.03112349132	0.004199672432	0.2127304396	0	0.003790661852	0.6340012695	0.8104620431		
MR1_1_Immune_1	0.2068317832	0	0.01194482503	0.01194482503	0	0.1164360606	0.07151889634	0.04754586517	0.001513619675	0	0.0884572254	0	0.02062465803	0.05814221205	0.01937288248	0.2324140008	0.01780378989	0	0.0971484301	0	0.00111824501	0.568210961	0.839428161		
MR1_1_Immune_1	0.1817029052	0.04220518093	0.02022670197	0.02146681791	0	0.092228061942	0.0148709073	0.066212416	0.02670435449	0.01918407124	0.02586407229	0.08212467191	0.01249853502	0.1789241474	0.0262284669	0.2128625853	0.01519079732	0	0.08195226555	0.01567469923	0.006327296954	0.00594507506	0.7807707846	0.7208375473	
MR3_1_Immune_1	0.1514486374	0	0.01333217924	0.01019959006	0	0.2098841951	0.04223284812	0.03615307181	0	0.08213755606	0	0.002929053926	0.1471453016	0.01263864389	0.1240359783	0.01094728752	0.0118401526	0.01909322238	0.0209765197	0.02245999473	0.08503069429	0	0.749895552	0.7378718897	
MR3_1_Immune_1	0.1692279829	0	0.001574064156	0.01303038206	0	0.1120429036	0.04252744942	0.06300036272	0.01485013108	0	0.05769570403	0	0.1594257447	0.0345806218	0.116159253	0.04325584839	0	0.05126428637	0.07367421664	0.02861813317	0	0.7324025515	0.7547114661		
MR3_1_Immune_1	0.1496044988	0	0.0201229233	0.01863036353	0	0.2164265664	0.05888794391	0	0.03804997251	0	0.04440054137	0.0194665132	0.08441990348	0.01577574338	0.017786511	0.04565475126	0.02080728044	0.04944478107	0	0.01063143668	0.03689126807	0	0.6125755119	0.8189872934	
MR3_1_Immune_1	0.1529098394	0	0.000231913079	0	0	0.0177840574	0.0544692728	0.08224592986	0	0.1007895690	0	0.0192175247	0.01277668	0.01133336479	0.2240056588	0.01108467202	0.01682169741	0.003205414393	0.04522566975	0.007514406151	0.003205414393	0.04522566975	0	0.5711625169	0.846187141
MR3_1_Immune_1	0.1536436738	0	0.00805989844	0.03875506832	0	0.1019772687	0.03012872525	0.02718650017	0.01166602308	0	0.054183649	0	0.04235966433	0.1547741471	0.0192826738	0.1771220609	0.04692008744	0	0.07065004155	0	0.01658122096	0.04182395319	0	0.6099914802	0.8189872934
MR3_1_Immune_1	0.1303871181	0	0.01243993943	0	0	0.1524517124	0.06059656137	0.02571724998	0	0.04318568191	0	0.02357141537	0.0570551685	0.0181263772	0.2181850081	0.03964864881	0	0.1166321656	0	0.022349166	0.0296231055	0	0.6396333368	0.8097439773	
MR2_1_Immune_1	0.1027412791	0	0.00268685192	0.01398405626	0	0.1138940563	0.0643657136	0.0953844226	0.0394569626	0	0	0.0636807466	0.06286920609	0.01483077196	0.06985677463	0.0189185013	0.03383056893	0.07861217312	0.00134312618	0.005520505292	0	0.7159106249	0.7840390396		
MR2_1_Immune_1	0.1212723723	0	0.0160439936	0.0194451474	0	0.1830966629	0.0220607586	0.0741815415	0.06671725776	0.04138126462	0.01806759321	0.03262121223	0	0.0651053695	0.1302033662	0.0268253751	0.05417036545	0.03299657885	0.01019803137	0.02729236335	0.7425062365	0	0.8477440519	0.656460214	
MR2_1_Immune_1	0.1314874609	0	0.06019959088	0	0	0.1309935366	0.0303142736	0.07528861959	0.0777074261	0	0.06553206189	0.0301214845	0.005661568096	0.09400207702	0.143210791	0.03768715486	0	0.0543293904	0.01478641785	0.0185750944	0	0.7191637114	0.722377845		
MR2_1_Immune_1	0.08481067702	0.01059195484	0	0.1430346267	0	0.08058815378	0	0.091085571	0.01478663562	0.01746190112	0.03696787165	0.05930130384	0.0389942969	0.08151017008	0.1649954344	0.03065907531	0	0.0840548811	0	0.004460413749	0	0.7643766551	0.7293390271		
MR2_1_Immune_1	0.1457513812	0	0.0218315914	0	0	0.2261419157	0.007846514338	0.05925983435	0.04286027688	0.05158095729	0.03039979011	0.04259997766	0.02621569013	0.05441837091	0.09403169326	0.04842106746	0	0.08792005798	0.04865610334	0.012064417	0.0232212529	0.7604089435	0.7604089435		
MR2_1_Immune_1	0.1959182274	0	0.01475079943	0.01558168973	0	0.1416794284	0.02531437283	0.08435443187	0.07015816592	0.009024124646	0.03509359822	0.0162892405	0.07055275378	0.04696459179	0.1040445947	0.0291574955	0.003549783333	0.1051659106	0.005049599744	0.02738053503	0	0.7419822532	0.7457536775		
MR4_1_Immune_1	0.05484621853	0.02614197796	0	0.1299814202	0	0.1178221814	0.03348706218	0.05546079437	0.06455388514	0	0.1656412905	0.07487945361	0.03340622503	0.06056317252	0.04609636477	0.03309626945	0	0.07654723767	0.01970941541	0.007765031225	0	0.8417440519	0.656460214		
MR4_1_Immune_1	0.09923238498	0	0.0780440986	0	0	0.1317313157	0.06741251412	0.05960198433	0.007939805496	0	0.07999819586	0.04490268752	0.1184782164	0.06545052063	0.1551932478	0.01787345665	0	0.01984622903	0.02653748932	0.0237376533	0.006974197087	0	0.8386415397	0.693206566	
MR4_1_Immune_1	0.05012071578	0.06792134622	0	0.09898191432	0	0.01684200711	0.104223005	0.0570625406	0.01639554253	0.01990255972	0.0697963241	0.08966241397	0.0580154325	0.04157286794	0.1062300714	0.01951323328	0	0.1220351392	0.0211923837	0.00144268226	0	0.8203903949	0.7140713584		
MR4_1_Immune_1	0.18110071798	0	0.007458317342	0.03478727387	0	0.0432305148	0.09070309665	0.05038140463	0.05590501201	0	0.08732321264	0.0314582077	0.0354662465	0.04489715286	0.148600061	0.0444860139	0	0.09843819199	0.02089102588	0.04344005468	0.03288011629	0.7196266587	0.7721598289		
MR4_1_Immune_1	0.1001092381	0	0.001738306289	0.07110836206	0.0757651007	0.06637124889	0.00637124889	0	0	0.0330143533	0.0310394079	0.02482120818	0.2138713325	0.02037301304	0.1842585839	0.01690293685	0	0.1577836023	0	0.002764718492	0	0.7078014391	0.7656516945		
MR4_1_Immune_1	0.182033558	0	0.04463460288	0.0114408403	0.0588855818	0.0140084043	0.0298855818	0.01090997456	0	0.03198270095	0.0064808043	0.0322886679	0.0696840809	0.004798778	0.0632286679	0	0.2970803061	0	0.01378662291	0	0.737804404	0.731003249			
Absolute Mode																									
Mixture	B cells naive	B cells memory	Plasma cells	T cells CD8	T cells CD4 naïv	T cells CD4 mer	T cells CD4 men	T cells follicular	T cells regulator	T cells gamma c	NK cells resting	NK cells activat	Monocytes	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Macrophages M			
MR1_1_Immune_1	0.2512806589	0	0.20772336	0.1287855979	0	0.2538911917	0.06423362446	0.1864819266	0.06744056229	0	0.10846525752	0.08551448995	0.1205878795	0.08780283781	0.174040988	0.004749993271	0.009925369794	0.008528549585	0.04204726083	0	0	0.8648421389	0.655429004		
MR1_1_Immune_1	0.095526999	0.03482556227	0.1220810433	0.114599915	0	0.07715096935	0.0096486272	0.1803849684	0.07242164046	0	0.000210394893	0.0529264596	0.027171504	0.1159919719	0.05225766434	0.1993003284	0.000799417184	0.01385346149	0.1239092255	0.002324543025	0	0.00177078589	0		
MR1_1_Immune_1	0.200346047	0	0.2428436285	0.1162533344	0	0.1361455806	0.04011396517	0.1678513746	0.1042012461	0.01567389033	0.02738030016	0.0334468835	0.131234959	0.0815548254	0.165161631	0.01789627861	0	0.04242678897	0	0	0.870361941	0.6478145564			
MR1_1_Immune_1	0.07320320476	0.1043348347	0.04141742306	0.01015527829	0	0.165502104	0.03278550722	0.0549664701	0.04759693368	0.08119417773	0	0.00640394684	0.00497185028	0.02276079884	0.2825029222	0.0406702144	0.005487866913	0.2779262141	0	0.004953397698	0	0.6340012695	0.8104620431		
MR1_1_Immune_1	0.2181848551	0	0.021845327375	0	0.1228103889	0.0754342211	0.05026374595	0.001596483266	0.09370960992	0.03709609992	0.06132512968	0.02043356257	0.2448572761	0.0187794604	0	0.0628668518	0	0.001179463889	0	0.568210961	0.839428161				
MR1_1_Immune_1	0.1416415002	0.05036106852	0.02413538578	0.0253523941	0																				

Segment_ID	Multiome_Label	ROI_Number	Segment_Type	Prop_of_CD8T_Naive	Prop_of_CD8T_Memory	Prop_of_CD8T	Prop_of_CD4T_Naive	Prop_of_CD4T_Memory	Prop_of_CD4T	Prop_of_T	Prop_of_NK	Prop_of_CD8T_NK	Prop_of_CD8Tmemory_NK
MRT1_Immune_A_007	MRT1	1	Immune	0	0.09624392304	0.09624392304	0.05062908825	0.1029058519	0.1535349401	0.24977788632	0.0557827692	0.1520266922	0.1520266922
MRT1_Immune_A_008	MRT1	2	Immune	0.03834678134	0.05835916391	0.09670594525	0	0.03006065356	0.03006065356	0.1267665988	0.03920166822	0.1359076135	0.09756083213
MRT1_Immune_A_009	MRT1	3	Immune	0	0.1174665529	0.1174665529	0.05289282542	0.09134954487	0.1442423703	0.2617089232	0.02597897217	0.1434455251	0.1434455251
MRT1_Immune_A_010	MRT1	4	Immune	0	0.01288429914	0.01288429914	0.04770682213	0.08568241006	0.1333892322	0.1462735313	0.01261763622	0.02550193536	0.02550193536
MRT1_Immune_A_011	MRT1	5	Immune	0	0	0	0	0	0	0	0.01440318995	0.01440318995	0.01440318995
MRT1_Immune_A_012	MRT1	6	Immune	0	0.005443753889	0.005443753889	0.01572815242	0.02654874624	0.04227689867	0.04772065255	0.01061697852	0.01606073241	0.01606073241
MRT2_Immune_A_001	MRT2	1	Immune	0	0.1175710398	0.1175710398	0.01581645782	0.007233627333	0.02305008516	0.140621125	0.03433682973	0.1519078696	0.1519078696
MRT2_Immune_A_002	MRT2	2	Immune	0	0.1061871559	0.1061871559	0	0	0	0.1061871559	0.05071425293	0.1569014088	0.1569014088
MRT2_Immune_A_003	MRT2	3	Immune	0	0.08174626576	0.08174626576	0	0	0	0.08174626576	0.03681624397	0.1185625097	0.1185625097
MRT2_Immune_A_004	MRT2	4	Immune	0	0.1203571369	0.1203571369	0	0	0	0.1203571369	0.04555733032	0.1659144673	0.1659144673
MRT2_Immune_A_005	MRT2	5	Immune	0	0.01421985627	0.01421985627	0	0	0	0.01421985627	0.0178710286	0.03209088487	0.03209088487
MRT2_Immune_A_006	MRT2	6	Immune	0.002779370025	0.01556017579	0.01833954582	0	0	0	0.01833954582	0.01845742571	0.03679697152	0.0340176015
MRT3_Immune_B_001	MRT3	1	Immune	0	0.01512006839	0.01512006839	0	0.02487863153	0.02487863153	0.03999869991	0.01280768476	0.02792775315	0.02792775315
MRT3_Immune_B_002	MRT3	2	Immune	0	0.001591386727	0.001591386727	0	0.05455999062	0.05455999062	0.05615137735	0.01208685616	0.01367824289	0.01367824289
MRT3_Immune_B_003	MRT3	3	Immune	0	0.00788533054	0.00788533054	0.005275116022	0.01607579875	0.02135091478	0.02923624532	0	0.00788533054	0.00788533054
MRT3_Immune_B_004	MRT3	4	Immune	0	0.002188492895	0.002188492895	0	0.02065675929	0.02065675929	0.02284525219	0.01113183562	0.01332032852	0.01332032852
MRT3_Immune_B_005	MRT3	5	Immune	0	0.01056613235	0.01056613235	0.03821725477	0.004958360731	0.0431756155	0.05374174786	0.01111697384	0.02168310619	0.02168310619
MRT3_Immune_B_006	MRT3	6	Immune	0	0	0	0.02342457531	0.05251832494	0.07594290025	0.07594290025	0.005178509846	0.005178509846	0.005178509846
MRT4_Immune_B_007	MRT4	1	Immune	0	0.1160001919	0.1160001919	0.1346956378	0.1260573661	0.2607530039	0.3767531958	0.07223207132	0.1882322633	0.1882322633
MRT4_Immune_B_008	MRT4	2	Immune	0	0.09524914706	0.09524914706	0.09045695248	0.01576080049	0.106217753	0.2014669	0.02103140629	0.1162805534	0.1162805534
MRT4_Immune_B_009	MRT4	3	Immune	0.01069576163	0.0614459656	0.07214172724	0.0536873511	0.1435480662	0.1972354173	0.2693771445	0.06182851367	0.1339702409	0.1232744793
MRT4_Immune_B_010	MRT4	4	Immune	0.02529393857	0	0.02529393857	0.11715458	0	0.11715458	0.1424485185	0.007542857472	0.03283679604	0.007542857472
MRT4_Immune_B_011	MRT4	5	Immune	0	0	0	0.1300891942	0.004297529319	0.1343867235	0.1343867235	0.02095539116	0.02095539116	0.02095539116
MRT4_Immune_B_012	MRT4	6	Immune	0	0	0	0.177312946	0	0.177312946	0.177312946	0.01250176449	0.01250176449	0.01250176449

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

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Cell_Type	Pearson_R	P_Value	Adj_P	Significanc
T.cells.CD8	0.8348503039	1.01E-17	1.21E-16	TRUE
<i>Cytotoxic.lymphocytes</i>	<i>0.8228295851</i>	<i>7.39E-17</i>	<i>5.91E-16</i>	<i>TRUE</i>
T.cells.gamma.delta	0.641781531	1.10E-08	5.27E-08	TRUE
T.cells.follicular.helper	0.5968276877	1.94E-07	7.76E-07	TRUE
T.cells.CD4.memory.activated	0.5629136676	1.29E-06	4.41E-06	TRUE
NK.cells.activated	0.4236438233	4.86E-04	1.30E-03	TRUE
Macrophages.M1	0.2447461097	5.13E-02	8.66E-02	FALSE
T.cells.regulatory..Tregs.	0.241879688	5.42E-02	8.66E-02	FALSE
B.cells.memory	-0.08459643095	0.5062898879	0.5062898879	FALSE
Neutrophils	-0.08853172122	4.87E-01	5.06E-01	FALSE
T.cells.CD4.naive	-0.1399162739	0.2701557679	0.2947153832	FALSE
Mast.cells.resting	-0.1457634766	0.2504423852	0.2862198688	FALSE
Mast.cells.activated	-0.1479296926	0.243394452	0.2862198688	FALSE
Plasma.cells	-0.1481619482	0.2426469457	0.2862198688	FALSE
B.cells.naive	-0.150580841	0.2349553835	0.2862198688	FALSE
Macrophages.M0	-0.178039751	1.59E-01	2.25E-01	FALSE
Dendritic.cells.resting	-0.2026356494	0.1083083756	0.1624625634	FALSE
Monocytes	-0.3340873157	0.006975343163	0.01287755661	TRUE
Eosinophils	-0.350879846	0.004473330088	0.008946660176	TRUE
Dendritic.cells.activated	-0.3769261783	0.002140069154	0.004669241791	TRUE
NK.cells.resting	-0.4205700427	0.0005397443749	0.0012953865	TRUE
Macrophages.M2	-0.5287616824	7.07E-06	2.12E-05	TRUE
T.cells.CD4.memory.resting	-0.7202262679	1.97E-11	1.18E-10	TRUE

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
CD74	1.378077357	7.538223815	23.49656596	1.25E-06	2.88E-03	CXCL9	3.159678342	6.797332868	150.3010557	1.49E-34	2.33E-30
HLA-DRA	1.165611986	6.313034333	17.56333894	2.78E-05	3.35E-02	GBP5	1.891807214	6.249903512	59.86317508	1.02E-14	5.31E-11
HLA-B	1.012369874	9.462769314	33.20340363	8.30E-09	6.50E-05	CD8A	1.866046211	5.23130751	65.33702759	6.31E-16	4.94E-12
HLA-DRB1	0.8962161219	7.428103033	17.18332514	3.39E-05	3.54E-02	IDO1	1.790646364	5.172096064	47.22484042	6.33E-12	9.40E-09
IRF1	0.7939757293	5.73130436	19.11578423	1.23E-05	1.92E-02	SPP1	-1.685192622	10.5958553	19.1496999	1.21E-05	1.53E-03
B2M	0.7661879999	10.03653585	24.06111196	9.33E-07	2.88E-03	C3	1.674881303	6.750865655	30.10434069	4.09E-08	1.28E-05
CXCL9	0.7562509905	4.330195633	36.66746457	1.40E-09	2.19E-05	TRAC	1.578830283	5.835631313	41.92246525	9.50E-11	7.08E-08
GBP2	0.745665763	4.689577692	17.21371297	3.34E-05	3.54E-02	TRBC1	1.55047269	6.189388856	56.62963113	5.26E-14	1.65E-10
HLA-E	0.7219229435	8.029398121	23.44008486	1.29E-06	2.88E-03	KLRC4	1.547893844	5.304223657	38.33920176	5.95E-10	3.00E-07
HLA-C	0.7156283703	7.223500921	30.55963665	3.24E-08	1.69E-04	IRF1	1.523571724	6.690602293	50.91861183	9.63E-13	2.51E-09
IL32	0.642196927	5.240734448	22.99554297	1.62E-06	3.18E-03	SLAMF7	1.50975907	4.744456619	27.67286412	1.44E-07	3.88E-05
PSMB8	0.6252096915	5.760469381	16.53726546	4.77E-05	4.09E-02	LTB	1.50645295	5.78727755	47.14206061	6.60E-12	9.40E-09
C3	0.6128657799	4.745329018	16.84004209	4.07E-05	3.98E-02	GBP1	1.497749963	6.403022889	39.76957643	2.86E-10	1.54E-07
NDRG4	0.5634791772	4.356976078	16.15228884	5.84E-05	4.58E-02	IGLL5	1.494609623	5.334255312	22.90802484	1.70E-06	3.06E-04
PLAAT4	0.5507732829	4.511802619	17.56458564	2.78E-05	3.35E-02	TAP1	1.494191087	7.20481605	49.329684	2.16E-12	4.84E-09
NLRC5	0.5469190502	4.84662435	18.93735547	1.35E-05	1.92E-02	GNLY	1.471045055	5.134304828	24.91775378	5.98E-07	1.29E-04
CDC42BPA	-0.5176364813	5.112652796	27.31882757	1.73E-07	6.75E-04	CD2	1.461369586	5.570772632	39.95755834	2.60E-10	1.45E-07
BTN3A2	0.5170730007	4.654401504	16.46222245	4.96E-05	4.09E-02	IL21R	1.456251485	5.260538732	43.15827619	5.05E-11	4.16E-08
GPC1	-0.4454584001	6.961561822	20.29872858	6.62E-06	1.15E-02	CDH9	1.453339365	4.910914898	25.95394819	3.50E-07	8.30E-05
TNFAIP2	0.3689885392	5.631823185	16.51238316	4.83E-05	4.09E-02	NKG7	1.43530671	5.605840955	37.21274034	1.06E-09	5.18E-07
						CALHM6	1.432994574	6.175347279	45.81613245	1.30E-11	1.56E-08
						IL32	1.428099693	6.610785332	44.94113697	2.03E-11	2.05E-08
						CD7	1.422876856	5.059942024	24.52275097	7.34E-07	1.51E-04
						CCL5	1.418788453	5.793446136	41.03187248	1.50E-10	9.77E-08
						GBP4	1.410567448	5.347151078	30.75632909	2.93E-08	9.75E-06
						CD3E	1.390690287	5.355873178	38.68080664	4.99E-10	2.61E-07
						HLA-F	1.37172699	6.792123509	57.89099452	2.77E-14	1.08E-10
						TNFSF10	1.345137396	5.629786185	47.82083318	4.67E-12	8.13E-09
						WARS1	1.336737088	6.159429099	25.1445854	5.32E-07	1.17E-04
						CD52	1.336148283	5.903007308	34.36742906	4.56E-09	1.93E-06
						SCRG1	-1.335508641	5.049248907	40.66630241	1.81E-10	1.13E-07
						MIA	-1.322741841	6.564320264	46.94106658	7.32E-12	9.55E-09
						UBD	1.31165861	5.038278371	17.11344256	3.52E-05	3.71E-03
						ISG20	1.308951956	5.451334931	29.72102421	4.99E-08	1.47E-05
						APOL3	1.293917952	5.30772843	28.31201573	1.03E-07	2.91E-05
						NLRC5	1.273356583	5.630620383	41.2875931	1.31E-10	8.95E-08
						HLA-DQA2	1.262864784	6.107301758	22.42748432	2.18E-06	3.56E-04
						LYZ	1.261770694	8.099239143	29.78960037	4.82E-08	1.45E-05
						NCF1	1.238689849	6.231019656	26.81118443	2.24E-07	5.76E-05
						PSMB9	1.236700287	6.530154028	36.57430706	1.47E-09	6.97E-07
						LAMP3	1.235866747	4.918843419	22.57471954	2.02E-06	3.42E-04
						TYMP	1.216345834	6.74280998	29.92588889	4.49E-08	1.38E-05

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						CCL19	1.213319389	6.051907227	11.40419252	7.33E-04	3.59E-02
						GBP2	1.207322583	6.253922859	34.22379798	4.91E-09	2.02E-06
						FGL2	1.203902945	7.301998701	27.08406287	1.95E-07	5.17E-05
						IRF8	1.203767886	6.755485168	48.22189285	3.81E-12	7.45E-09
						CXCL10	1.192469218	5.410554641	36.05813944	1.92E-09	8.82E-07
						ITGA6	-1.188251585	5.944110057	33.36012731	7.66E-09	3.00E-06
						AOAH	1.184998412	5.979661472	44.88467047	2.09E-11	2.05E-08
						HLA-DQA1	1.177710841	6.564048703	43.86143838	3.52E-11	3.25E-08
						CD3D	1.171795029	5.049199353	17.99352011	2.22E-05	2.57E-03
						IL2RG	1.171113437	5.973225211	34.59201464	4.07E-09	1.77E-06
						LVRN	-1.163219138	4.848808125	24.63107209	6.94E-07	1.47E-04
						LUM	-1.159092995	8.63865525	21.08834377	4.39E-06	6.48E-04
						KLRK1	1.153898184	5.380662599	23.99333809	9.67E-07	1.89E-04
						IL2RB	1.148215806	5.750457801	32.11995113	1.45E-08	5.28E-06
						SPOCK2	1.144777933	5.539106378	22.6396081	1.95E-06	3.36E-04
						ITGAL	1.136957192	5.705991656	32.34992254	1.29E-08	4.80E-06
						TNFAIP3	1.133177609	6.17099349	17.26208546	3.26E-05	3.49E-03
						SEPTIN1	1.133023083	5.134730262	24.29080743	8.28E-07	1.66E-04
						EPSTI1	1.132061584	5.819990192	35.13161691	3.08E-09	1.38E-06
						APOBEC3G	1.125257795	5.651593084	42.71656037	6.33E-11	4.95E-08
						APOL6	1.12456114	5.387988013	30.96666788	2.62E-08	9.13E-06
						PSMB10	1.121812295	6.4020733	39.97804029	2.57E-10	1.45E-07
						HLA-DQB1	1.113665484	7.700313067	32.96737681	9.37E-09	3.58E-06
						PLAAT4	1.103366291	5.375418589	22.56521896	2.03E-06	3.42E-04
						HLA-B	1.096869285	10.79263622	43.72083867	3.79E-11	3.29E-08
						APOL1	1.093618846	5.605058635	26.24542521	3.01E-07	7.47E-05
						STAT1	1.090883746	7.87317799	25.35158181	4.78E-07	1.08E-04
						CD9	-1.090627016	7.935022962	30.8212531	2.83E-08	9.63E-06
						SRGN	1.086401458	8.313316743	33.66631855	6.54E-09	2.63E-06
						PLAC8	1.083499778	5.053962406	14.36304834	1.51E-04	1.13E-02
						TAP2	1.068679569	6.26198726	26.74407345	2.32E-07	5.87E-05
						HLA-C	1.067950182	8.140256224	45.46949232	1.55E-11	1.73E-08
						PSME2	1.060213574	7.12905645	40.51663514	1.95E-10	1.17E-07
						FGR	1.056268873	5.527795391	16.10611503	5.99E-05	5.76E-03
						SNX10	1.054010793	5.077871689	17.87257965	2.36E-05	2.66E-03
						CTSW	1.044020726	5.329932273	20.02675198	7.64E-06	1.06E-03
						FCMR	1.043199734	5.135488197	17.55452245	2.79E-05	3.06E-03
						TEX26	1.03622387	4.453015568	14.06903792	1.76E-04	1.26E-02
						HLA-DRA	1.035586863	10.065481	28.82006558	7.94E-08	2.30E-05
						TAGAP	1.026222089	5.245661282	21.37097283	3.78E-06	5.75E-04
						TCF7	1.020739581	5.09386218	14.37063891	1.50E-04	1.13E-02
						PIM2	1.014305039	5.458421958	26.82703642	2.23E-07	5.76E-05

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						PTPRCAP	1.01295404	5.717929819	31.23242523	2.29E-08	8.15E-06
						AKAP6	-1.012857048	4.654176239	16.74318664	4.28E-05	4.30E-03
						PTPN7	1.01158163	5.414661646	23.44342122	1.29E-06	2.38E-04
						MUSK	-1.00970313	4.840082195	22.49471294	2.11E-06	3.51E-04
						GZMB	1.008759754	5.566644811	18.67574645	1.55E-05	1.93E-03
						AKNA	1.008265594	6.213580964	22.34036276	2.28E-06	3.69E-04
						IFI27	1.001657144	6.465525818	15.86889982	6.79E-05	6.29E-03
						GPR132	1.001512628	4.815548968	13.07110715	3.00E-04	2.01E-02
						RNASE1	-1.001272864	10.03298578	11.28775421	7.80E-04	3.77E-02
						VEGFC	-1.001117871	5.272874848	10.62149959	1.12E-03	4.81E-02
						TNIK	0.9988053662	5.035340651	12.90174456	3.28E-04	2.12E-02
						HLA-E	0.9978878608	9.280116989	41.72114818	1.05E-10	7.49E-08
						IL31RA	0.9972108585	4.385873412	11.36781322	7.47E-04	3.63E-02
						ZAP70	0.9905034198	4.86783189	15.46229798	8.42E-05	7.40E-03
						FCRL3	0.9821764039	4.861684524	15.9292454	6.58E-05	6.16E-03
						CXCL13	0.9785898978	5.055766072	11.26527937	7.90E-04	3.78E-02
						SLFN12L	0.9771307451	4.933557859	16.02532715	6.25E-05	5.97E-03
						LRRC17	-0.9710354497	5.205224383	18.42430794	1.77E-05	2.15E-03
						CD74	0.9643362782	11.28641943	26.01284584	3.39E-07	8.17E-05
						CIITA	0.9624865271	6.374997899	26.03369597	3.36E-07	8.17E-05
						SP110	0.958854328	5.759128961	22.67938807	1.91E-06	3.33E-04
						HCAR2	0.9432695221	4.477460797	10.82328457	1.00E-03	4.52E-02
						CD96	0.9429039781	4.706604424	12.0008425	5.32E-04	2.93E-02
						IFIT3	0.9394089695	5.630054754	18.58432023	1.63E-05	1.99E-03
						HLA-DPB1	0.9360994929	8.6031252	18.07823907	2.12E-05	2.50E-03
						TOX	0.9360511346	4.868966368	15.42036019	8.61E-05	7.49E-03
						TRIM22	0.9358185102	6.042127411	21.03805368	4.50E-06	6.59E-04
						MMP1	-0.9356191722	10.06218712	11.13945304	8.45E-04	3.98E-02
						BIRC3	0.9291404565	5.340901614	14.88352875	1.14E-04	9.42E-03
						DAPP1	0.9280187624	5.04442347	17.05845041	3.62E-05	3.78E-03
						HLA-DRB1	0.9262401802	10.69320883	22.96442847	1.65E-06	3.00E-04
						HLA-DPA1	0.9252647257	9.245608247	15.42704037	8.58E-05	7.49E-03
						LCP1	0.9250181612	7.541408812	28.29409383	1.04E-07	2.91E-05
						HTRA1	-0.9247784311	6.864707358	14.10675687	1.73E-04	1.25E-02
						NFKBIZ	0.9247142494	5.039493663	14.94916212	1.10E-04	9.20E-03
						ZNF683	0.9236819146	4.482192126	10.54845365	1.16E-03	4.93E-02
						SYT15	0.9216549895	4.674606074	14.65807069	1.29E-04	9.96E-03
						SAMD9	0.9191355541	4.735077362	14.76614721	1.22E-04	9.85E-03
						NMUR1	0.9164846772	4.474115597	12.34935195	4.41E-04	2.62E-02
						PLEK	0.9162253016	6.069529452	21.27267393	3.98E-06	6.00E-04
						PRSS23	-0.9137160191	8.193354066	20.86312203	4.93E-06	7.09E-04
						XAF1	0.9117300884	6.142457554	23.43553886	1.29E-06	2.38E-04

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						CD48	0.9109028037	5.417435807	20.95265456	4.71E-06	6.83E-04
						HLA-A	0.9104799255	9.471038943	30.13360732	4.03E-08	1.28E-05
						TMEFF2	-0.9087795722	5.031716757	19.49104695	1.01E-05	1.31E-03
						CITED2	-0.9083541193	7.450707386	24.4493985	7.63E-07	1.55E-04
						LY75	0.9064043281	4.756571522	11.97670684	5.39E-04	2.96E-02
						SOD2	0.9023865309	8.068004288	24.90090116	6.04E-07	1.29E-04
						CD27	0.8923552738	5.684155057	25.77102273	3.84E-07	8.98E-05
						STAT4	0.8897385249	4.846793327	14.23441094	1.61E-04	1.19E-02
						CXCR6	0.8887914888	4.648762378	11.81049609	5.89E-04	3.12E-02
						SEPTIN5	-0.8848557535	5.921822484	22.86850118	1.73E-06	3.09E-04
						COL9A3	-0.8842430955	5.772887667	15.92713761	6.58E-05	6.16E-03
						SLN	-0.8814287103	5.67456489	21.22658121	4.08E-06	6.09E-04
						PSMB8	0.8792083352	6.584664632	30.20056596	3.90E-08	1.27E-05
						BTN3A2	0.873843068	5.323678413	19.64174412	9.34E-06	1.24E-03
						SP140L	0.8706575837	5.594870514	22.03586661	2.68E-06	4.19E-04
						NR4A3	0.8702920753	5.124639296	14.71487625	1.25E-04	9.89E-03
						PTPN6	0.8692939928	6.097046636	20.00380235	7.73E-06	1.06E-03
						NUB1	0.8633132915	6.066797174	22.13766918	2.54E-06	4.06E-04
						OAS3	0.8616968825	5.706413407	22.79939081	1.80E-06	3.16E-04
						WDFY4	0.8594854385	5.849173517	19.54361144	9.83E-06	1.28E-03
						GPR176	0.8573967614	5.264871977	12.31725122	4.49E-04	2.63E-02
						UBE2L6	0.8570465344	6.211425682	27.78891249	1.35E-07	3.72E-05
						MCOLN2	0.8568733868	4.81167839	12.97981646	3.15E-04	2.07E-02
						CD3G	0.8568686907	4.878117921	11.43802812	7.20E-04	3.57E-02
						RGCC	0.8565695687	5.237412919	12.96984944	3.17E-04	2.07E-02
						CPA4	-0.8564506095	6.353391057	11.83983615	5.80E-04	3.09E-02
						CORO1A	0.8550336236	6.899503507	23.79868349	1.07E-06	2.04E-04
						CYTIP	0.8548499109	5.845889817	16.10262099	6.00E-05	5.76E-03
						SEMA4D	0.8541587016	5.79448749	17.31500203	3.17E-05	3.42E-03
						PXDNL	-0.8530845616	4.809857299	14.57799454	1.34E-04	1.03E-02
						RELB	0.8527828494	5.365268146	17.10871447	3.53E-05	3.71E-03
						IGFBP6	-0.8474355536	5.951543446	17.5663842	2.77E-05	3.06E-03
						IKZF1	0.8458782108	5.474772442	18.10197068	2.09E-05	2.49E-03
						GNMB	-0.8456927684	8.010244729	14.89775617	1.13E-04	9.40E-03
						IL18BP	0.8449859689	5.706016588	16.94632715	3.85E-05	3.96E-03
						JAK3	0.8393015197	6.020892681	17.97348096	2.24E-05	2.58E-03
						ANKRD44	0.8387972039	5.925942903	22.45040687	2.16E-06	3.55E-04
						PAM	-0.8379249187	7.257375438	16.79920321	4.16E-05	4.22E-03
						B2M	0.8377204298	11.08653982	19.30467696	1.11E-05	1.42E-03
						SCO2	0.8373915132	6.324962461	21.38695038	3.75E-06	5.75E-04
						MATN3	-0.8370267443	4.588020522	12.86160547	3.35E-04	2.16E-02
						KIR2DS1	0.8366736119	5.127676078	13.61548653	2.24E-04	1.58E-02

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						TUBA4A	0.8348261202	5.272958278	13.60029379	2.26E-04	1.58E-02
						PARP10	0.8327093189	5.174690335	14.14224207	1.69E-04	1.23E-02
						BTN3A1	0.832085017	5.735445233	24.55210236	7.23E-07	1.51E-04
						EGFL7	-0.8304933296	6.129177338	21.71221591	3.17E-06	4.91E-04
						IRF7	0.8254397816	6.049726999	14.20290887	1.64E-04	1.20E-02
						FCN1	0.8250808647	5.253451255	12.08698648	5.08E-04	2.85E-02
						PTPRC	0.8245841039	7.017544839	23.89122607	1.02E-06	1.97E-04
						RAC2	0.8237204349	6.169698455	18.10585521	2.09E-05	2.49E-03
						HLA-DOB	0.8200719428	5.050180154	13.17218077	2.84E-04	1.92E-02
						ARHGAP5	-0.817731635	5.729924186	15.6108712	7.78E-05	6.88E-03
						TDRD10	-0.8174468093	4.687110894	10.6476903	1.10E-03	4.75E-02
						OAS2	0.8110328189	5.464766795	13.34467032	2.59E-04	1.79E-02
						TAPBP	0.8097967115	7.209654735	24.19122535	8.72E-07	1.73E-04
						HVCN1	0.80859329	4.827254545	12.08623555	5.08E-04	2.85E-02
						MPP6	-0.8077186219	5.608464108	17.04280583	3.65E-05	3.79E-03
						SCIMP	0.8075906109	4.63629883	11.42540404	7.24E-04	3.58E-02
						TRAF1	0.8070533376	5.144856466	10.70981431	1.07E-03	4.67E-02
						CTSB	-0.8035973727	10.41859431	12.10883028	5.02E-04	2.85E-02
						PRDX4	-0.802875619	7.058141583	16.60749456	4.60E-05	4.58E-03
						KRT16	-0.8003675218	4.971069469	11.7595139	6.05E-04	3.16E-02
						PTK2B	0.8000150203	5.780644885	14.73854148	1.23E-04	9.86E-03
						IKZF2	0.7993663132	4.889996502	11.89640666	5.62E-04	3.02E-02
						ADGRE5	0.7991414232	6.589157648	15.81369124	6.99E-05	6.44E-03
						RFTN1	0.7990973512	5.423231028	14.69824352	1.26E-04	9.93E-03
						ADAM19	0.7964088134	5.108361851	11.90423853	5.60E-04	3.02E-02
						LCK	0.7941940366	5.249337382	13.8515905	1.98E-04	1.40E-02
						WNT7B	-0.7921886158	4.39664934	11.12608811	8.51E-04	3.98E-02
						PNOC	-0.7918859721	6.281973715	15.75240641	7.22E-05	6.61E-03
						ASCL2	0.791766947	5.132326682	11.75784867	6.06E-04	3.16E-02
						HAPLN3	0.7874680936	5.065288952	15.26916971	9.32E-05	8.02E-03
						CCDC88C	0.7863480045	4.985586443	11.63732269	6.46E-04	3.33E-02
						CTSH	0.7838285441	6.722376469	19.91145519	8.11E-06	1.10E-03
						NFKBIA	0.7801726192	7.172506989	16.74024469	4.29E-05	4.30E-03
						HOXC4	-0.7793526461	5.518008407	10.88992132	9.67E-04	4.39E-02
						MAF	-0.7788833895	6.813318856	16.86504691	4.01E-05	4.11E-03
						VSIR	0.7776312276	6.423092558	19.01205337	1.30E-05	1.63E-03
						XCL1	0.7768882392	5.318296109	12.13397712	4.95E-04	2.82E-02
						MEOX2	-0.7754313583	7.16601212	13.56168606	2.31E-04	1.61E-02
						SEMA4A	0.7740300702	5.478943993	14.72999672	1.24E-04	9.86E-03
						UGT3A2	-0.773812216	4.96263031	11.18408012	8.25E-04	3.90E-02
						FXYD1	-0.7722699871	5.08855696	13.28260174	2.68E-04	1.83E-02
						SOX2	-0.7718815753	4.987880386	12.60969053	3.84E-04	2.35E-02

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						ITGB5	-0.7715423598	5.921809268	19.55336216	9.78E-06	1.28E-03
						PRR20A	0.7700663943	5.060883655	10.67694618	1.08E-03	4.69E-02
						SIGLEC8	0.7662172486	4.664747731	11.21793048	8.10E-04	3.84E-02
						MYL1	-0.7635773942	6.260441325	20.60626747	5.64E-06	7.96E-04
						CD80	0.7602576401	5.026112277	11.95678425	5.44E-04	2.97E-02
						COLEC12	-0.7578016764	6.014127777	17.73357189	2.54E-05	2.83E-03
						ALPK2	-0.7552983213	5.745573549	22.053706	2.65E-06	4.19E-04
						CASP1	0.7552315669	6.141645301	18.04202405	2.16E-05	2.53E-03
						LOXL3	-0.7535303251	6.3765194	15.70026001	7.42E-05	6.75E-03
						ADGRG6	-0.751081188	7.409449231	12.73099117	3.60E-04	2.24E-02
						GPC1	-0.7494657485	6.652827938	20.84595226	4.98E-06	7.09E-04
						SECTM1	0.7493161635	5.526642704	12.46381679	4.15E-04	2.50E-02
						LIMD2	0.7490464645	6.499974776	18.64039528	1.58E-05	1.95E-03
						DONSON	-0.7489490129	5.053262505	17.1469269	3.46E-05	3.69E-03
						STK17B	0.7487963113	6.207936939	13.95863951	1.87E-04	1.33E-02
						PSME1	0.7470935655	6.745842144	19.40920993	1.05E-05	1.35E-03
						SCG5	-0.7464981161	6.68770245	20.4704357	6.06E-06	8.47E-04
						LAT	0.7430702263	5.685179091	18.09539737	2.10E-05	2.49E-03
						CD83	0.7412617925	5.589156937	11.32657511	7.64E-04	3.70E-02
						GCH1	0.7405842523	5.273257043	12.5277833	4.01E-04	2.42E-02
						COL15A1	-0.7382425542	5.564434279	13.17282923	2.84E-04	1.92E-02
						TM4SF1	-0.7376268734	7.897505808	14.67131849	1.28E-04	9.96E-03
						IFI35	0.7346157156	5.574811595	14.09004782	1.74E-04	1.26E-02
						NMI	0.7327301859	5.745606954	14.66451293	1.28E-04	9.96E-03
						GPR65	0.7291540531	5.214452622	12.76138789	3.54E-04	2.24E-02
						CYP4F12	-0.7289603	5.108471271	11.54764414	6.78E-04	3.43E-02
						RCSD1	0.7254598403	5.605848945	13.16361356	2.85E-04	1.92E-02
						IL15RA	0.724898622	5.270921597	11.7218378	6.18E-04	3.21E-02
						SP100	0.7230143378	5.806114224	12.20202704	4.77E-04	2.76E-02
						KLRC2	0.7224609289	5.614172358	12.23288075	4.70E-04	2.73E-02
						SEPTIN6	0.7220418947	5.992342596	14.65468681	1.29E-04	9.96E-03
						PDLIM3	-0.7209140109	4.836876636	11.07951302	8.73E-04	4.04E-02
						LCP2	0.7195955174	6.721866713	16.16671751	5.80E-05	5.64E-03
						PYHIN1	0.7182721719	5.166320813	11.59522987	6.61E-04	3.37E-02
						LAP3	0.7093871737	7.419226693	15.91957083	6.61E-05	6.16E-03
						JAK2	0.7088378984	5.03122086	11.40872121	7.31E-04	3.59E-02
						TP53TG3B	0.7076671926	5.036605076	10.68115999	1.08E-03	4.69E-02
						KIAA0754	-0.7056855161	5.835007987	15.6665895	7.55E-05	6.80E-03
						SLC37A2	-0.7053201597	5.328372931	12.80868468	3.45E-04	2.21E-02
						PARP9	0.7051143334	5.986036458	17.72661437	2.55E-05	2.83E-03
						RCN3	-0.7032366573	6.742812491	23.74566511	1.10E-06	2.07E-04
						PTGR1	-0.7028790836	6.411008095	17.93956458	2.28E-05	2.61E-03

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						VGLL3	-0.7024772411	7.234998009	15.98487432	6.39E-05	6.06E-03
						CRIM1	-0.7023276391	6.030981011	12.19192403	4.80E-04	2.76E-02
						CD109	-0.7023098893	5.994651208	13.06262148	3.01E-04	2.01E-02
						TCTN1	-0.7020729056	5.249354638	14.45089417	1.44E-04	1.10E-02
						P3H1	-0.6978774915	6.439634706	25.62839231	4.14E-07	9.53E-05
						NENF	-0.6965254766	6.315788334	25.17118784	5.25E-07	1.17E-04
						ICAM1	0.6948146969	6.281805575	11.25376316	7.95E-04	3.79E-02
						ETS1	0.69461676	5.924891383	12.42082016	4.25E-04	2.55E-02
						LPXN	0.6921438476	5.329708611	10.71931529	1.06E-03	4.67E-02
						CKB	-0.692052876	7.829840728	12.0029654	5.31E-04	2.93E-02
						IL10RA	0.6904424477	6.54825872	14.85614328	1.16E-04	9.46E-03
						TTC9	0.6863800154	5.2673371	11.10346555	8.62E-04	4.02E-02
						FYB1	0.6859617424	6.229690764	12.20370717	4.77E-04	2.76E-02
						RASAL3	0.6850155611	5.448656126	10.78464719	1.02E-03	4.58E-02
						PIK3CD	0.682725993	5.823005697	12.02930577	5.24E-04	2.91E-02
						DPYSL3	0.6804470206	5.708209671	12.0802187	5.10E-04	2.85E-02
						RPS6KA1	0.6799955444	5.771724035	14.76107749	1.22E-04	9.85E-03
						CSF2RA	0.6793671244	5.842844591	11.65713645	6.40E-04	3.31E-02
						ODF3B	0.6792552905	5.62425273	11.39394622	7.37E-04	3.59E-02
						NAAA	0.6789311914	6.054847382	11.93222154	5.52E-04	3.00E-02
						CTSS	0.6782655965	7.036680739	12.8339781	3.40E-04	2.18E-02
						OAS1	0.6764433999	5.792575122	12.72793056	3.60E-04	2.24E-02
						FGD2	0.6759051697	5.887568519	16.30819929	5.38E-05	5.27E-03
						SQLE	-0.67582426	5.669423955	19.79004804	8.64E-06	1.16E-03
						CTSF	-0.675634908	5.886432501	16.45928212	4.97E-05	4.90E-03
						ARHGAP45	0.6712157852	6.098553128	15.04196442	1.05E-04	8.80E-03
						PSD4	0.6699606379	5.351936643	12.28752107	4.56E-04	2.66E-02
						IFI30	0.6695564298	9.212816687	11.96391576	5.42E-04	2.97E-02
						FXVD6	-0.6691138364	5.643779614	17.43888352	2.97E-05	3.23E-03
						HLA-DMB	0.6682949007	7.036243362	12.96133592	3.18E-04	2.07E-02
						TUSC3	-0.6649070001	6.606061416	15.08421246	1.03E-04	8.66E-03
						GGH	-0.6644303178	5.175116698	14.22634588	1.62E-04	1.19E-02
						PTGER4	0.6628077118	5.509178215	11.60083053	6.59E-04	3.37E-02
						PALM	-0.6621594824	6.042673544	14.392059	1.48E-04	1.13E-02
						LIN7B	-0.6599829343	5.128209919	10.72142796	1.06E-03	4.67E-02
						PLBD1	-0.6583937859	6.787629546	16.48667304	4.90E-05	4.86E-03
						STAT2	0.6581663962	6.29205491	11.88878502	5.65E-04	3.02E-02
						PDIA5	-0.6554443147	6.120378225	15.62439095	7.73E-05	6.88E-03
						VAMP5	0.6549069856	6.263240113	15.23468437	9.49E-05	8.12E-03
						CD40	0.651009618	5.622871671	10.85084631	9.88E-04	4.47E-02
						STXBP2	0.6508163976	5.974259452	12.98677522	3.14E-04	2.07E-02
						DTX3L	0.6496502144	5.960091261	12.74942822	3.56E-04	2.24E-02

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						ARL4A	-0.6491426662	6.668177909	14.08146292	1.75E-04	1.26E-02
						HYI	-0.6489345921	5.630438249	15.17382659	9.81E-05	8.30E-03
						PARP14	0.6485064159	6.432174791	19.82163242	8.50E-06	1.15E-03
						SLAMF8	0.6466563225	6.205315897	15.69231894	7.45E-05	6.75E-03
						PROS1	-0.6457645856	6.010837912	10.98237781	9.20E-04	4.21E-02
						PCSK1N	-0.6447753567	6.39032823	12.34110486	4.43E-04	2.62E-02
						NDUFA4L2	-0.6444076219	5.407213473	12.03601218	5.22E-04	2.91E-02
						GCLC	0.6444024362	5.677862737	11.52966424	6.85E-04	3.44E-02
						BSCL2	-0.6433749642	5.539348483	13.81178268	2.02E-04	1.43E-02
						BCKDHB	-0.6414904366	5.809369884	12.62368517	3.81E-04	2.34E-02
						SDC2	-0.6413310065	7.367101239	11.92051299	5.55E-04	3.01E-02
						CFAP52	-0.6404154751	4.874741038	11.4159877	7.28E-04	3.59E-02
						CAMK1D	-0.6393050365	5.294804943	12.75366173	3.55E-04	2.24E-02
						BIN2	0.6382111153	5.435896075	10.81260767	1.01E-03	4.52E-02
						HCLS1	0.6375440782	6.288540302	10.72446835	1.06E-03	4.67E-02
						HCK	0.6358642784	6.527474456	12.36377504	4.38E-04	2.61E-02
						TSEN15	-0.6348722978	5.431808899	15.20125311	9.66E-05	8.22E-03
						APOL2	0.6301181329	6.518687027	13.04452083	3.04E-04	2.02E-02
						LTBP4	-0.6299452522	7.18923532	14.26039044	1.59E-04	1.19E-02
						HTR1D	-0.6299272436	5.470877884	12.78035687	3.50E-04	2.23E-02
						ABI3	0.6277291766	5.298415587	10.5207131	1.18E-03	4.98E-02
						LSP1	0.6275013884	7.371827218	11.13418165	8.48E-04	3.98E-02
						CYTH1	0.6169265349	5.846102537	10.96328462	9.29E-04	4.24E-02
						TM4SF4	-0.6156550706	7.077740269	14.75040272	1.23E-04	9.85E-03
						CELF2	0.6151074174	6.052778608	12.63731224	3.78E-04	2.33E-02
						H1-O	-0.614335988	7.522206893	10.54148244	1.17E-03	4.94E-02
						CHPF	-0.6139299567	6.224913761	12.53716478	3.99E-04	2.42E-02
						IRF9	0.6132784769	6.498742236	14.86856587	1.15E-04	9.45E-03
						NAPRT	0.6122770919	5.415223954	10.60087991	1.13E-03	4.84E-02
						CIDEC	0.609727617	5.426199954	10.72242753	1.06E-03	4.67E-02
						NEIL2	-0.6010375968	5.584405101	11.24368843	7.99E-04	3.80E-02
						MMP14	-0.6005551134	8.274822923	11.90332663	5.60E-04	3.02E-02
						QSOX1	-0.6002755585	6.192670414	15.62005151	7.74E-05	6.88E-03
						SLC31A2	0.600072374	5.839495254	11.45760932	7.12E-04	3.54E-02
						CD276	-0.5994003771	7.016648895	12.36231743	4.38E-04	2.61E-02
						FNBP1	0.5986585006	6.677111791	13.33298642	2.61E-04	1.79E-02
						MXRA8	-0.5976599901	6.416881065	10.89242991	9.66E-04	4.39E-02
						RNF166	0.597368656	5.659934574	12.16741692	4.86E-04	2.79E-02
						LAMB2	-0.5930661804	7.371905683	12.31748464	4.49E-04	2.63E-02
						MARVELD1	-0.5916128315	6.715003948	17.91603344	2.31E-05	2.62E-03
						FKBP9	-0.5842304967	6.967726702	12.53151939	4.00E-04	2.42E-02
						LGALS9C	0.5840317328	6.256974511	11.53266528	6.84E-04	3.44E-02

DEA of GeoMx Tumor Segments						DEA of GeoMx Immune Segments					
Gene	logFC	logCPM	LR	PValue	FDR	Gene	logFC	logCPM	LR	PValue	FDR
						ARHGEF1	0.5827015174	6.605300761	12.70194027	3.65E-04	2.26E-02
						TNFAIP2	0.5823531181	6.726720324	10.67709187	1.08E-03	4.69E-02
						H1-1	-0.5779126946	6.177428872	12.9458498	3.21E-04	2.08E-02
						SMARCAD1	-0.5768947875	5.528989072	10.57133351	1.15E-03	4.89E-02
						TOP2A	-0.573379137	6.597398009	12.09892985	5.05E-04	2.85E-02
						SPIRE1	-0.5675566116	5.448757194	11.13094086	8.49E-04	3.98E-02
						MAPK15	-0.5664078064	5.566572629	10.58213199	1.14E-03	4.87E-02
						RNF19B	0.5653114905	5.822209838	11.09148228	8.67E-04	4.03E-02
						LAMB1	-0.564075074	6.15659913	10.71641647	1.06E-03	4.67E-02
						NAV3	-0.5633313022	5.681018589	14.23798454	1.61E-04	1.19E-02
						GLMP	-0.5632079385	6.484638808	15.30684578	9.14E-05	7.91E-03
						CRTAP	-0.5627640409	7.151088588	11.69664782	6.26E-04	3.25E-02
						GOLGA6L6	0.5586029755	5.932431948	10.71650216	1.06E-03	4.67E-02
						NRP2	-0.5491110987	6.214078954	11.02023531	9.01E-04	4.14E-02
						PLXND1	-0.5451533272	7.248129671	11.04565453	8.89E-04	4.09E-02
						MEST	-0.5407495298	9.78419682	14.34023988	1.53E-04	1.14E-02
						UBE2O	-0.5396464625	5.452772417	10.60817289	1.13E-03	4.83E-02
						PIIB	-0.5384335611	9.300271916	13.22601215	2.76E-04	1.88E-02
						S100A13	-0.5333151941	7.162498117	13.47940415	2.41E-04	1.67E-02
						BSG	-0.5328660382	8.277140109	11.81019162	5.89E-04	3.12E-02
						GPAT2	0.531228644	6.037690435	11.58138661	6.66E-04	3.38E-02
						CENPF	-0.5275633876	5.552795905	11.28045391	7.83E-04	3.77E-02
						NBL1	-0.5225728597	6.494244779	10.68681511	1.08E-03	4.69E-02
						TRIOBP	-0.5219644785	6.05992812	11.48324283	7.02E-04	3.51E-02
						ADCY7	0.5120902573	6.170465714	11.57847955	6.67E-04	3.38E-02
						UGP2	-0.5079753889	6.606754258	12.15236603	4.90E-04	2.80E-02
						CLEC11A	-0.507849792	6.811390473	11.2729667	7.86E-04	3.78E-02
						JAM2	-0.5053900204	5.87919014	11.61606009	6.54E-04	3.36E-02
						CPXM1	-0.4980409001	5.967733397	12.73040515	3.60E-04	2.24E-02
						BCL7C	-0.4979116217	6.775914949	11.79504449	5.94E-04	3.13E-02
						RPN2	-0.4959091667	8.049547248	11.78338095	5.98E-04	3.14E-02
						CFLAR	0.4921498888	6.667092153	10.81670578	1.01E-03	4.52E-02
						TSPAN3	-0.4903826339	6.675306302	11.07148129	8.77E-04	4.05E-02
						PIGT	-0.4777840915	6.628351095	11.47227342	7.06E-04	3.52E-02
						ERGIC3	-0.4707769018	7.501528437	10.69663595	1.07E-03	4.69E-02

Hot Tumor Segment										Hot Immune Segment										Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size						
MHC protein cti	GO:0042611	GO:CC	9.81E-18	19	10	7	16860	immune response	GO:0006955	GO:BP	6.48E-66	1506	216	122	16178	Extracellular matrix organization	REACR-HSA-147 REAC		4.82E-08	297	86	17	10842						
antigen processi	GO:0019883	GO:BP	3.08E-15	28	10	7	16178	immune system process	GO:0002376	GO:BP	4.36E-62	2103	226	138	16178	collagen-containing extracellulara	GO:0062023	GO:CC	5.05E-08	385	77	15	16860						
ER to Golgi trans	GO:0012507	GO:CC	2.98E-14	53	10	7	16860	defense response	GO:0006952	GO:BP	2.86E-43	1350	221	97	16178	external encapsulating structure	GO:0030312	GO:CC	1.41E-07	487	77	16	16860						
luminal side of	GO:0098553	GO:CC	1.45E-13	25	10	6	16860	regulation of immune system pr	GO:0002682	GO:BP	2.05E-37	2124	231	89	16178	extracellular matrix	GO:0031012	GO:CC	1.41E-07	487	77	16	16860						
Interferon gamma	REACR-HSA-877 REAC		1.74E-13	87	10	8	10842	positive regulation of immune s	GO:0002684	GO:BP	2.14E-37	869	231	77	16178	extracellular region	GO:0005576	GO:CC	2.48E-06	3589	91	44	16860						
COPII-coated ER	GO:0030134	GO:CC	6.70E-13	81	10	7	16860	regulation of immune response	GO:0050776	GO:BP	3.35E-37	744	231	72	16178	extracellular space	GO:0005615	GO:CC	1.06E-05	3205	94	41	16860						
antigen processi	GO:0002483	GO:BP	7.85E-13	22	10	6	16178	defense response to symbiont	GO:0140546	GO:BP	7.29E-37	842	221	74	16178	endoplasmic reticulum lumen	GO:0005788	GO:CC	1.43E-05	290	91	12	16860						
luminal side of	GO:0098576	GO:CC	9.05E-13	33	10	6	16860	positive regulation of immune r	GO:0050778	GO:BP	2.63E-35	615	231	65	16178	endoplasmic reticulum	GO:0005783	GO:CC	4.40E-05	1695	91	27	16860						
peptide antigen	GO:0042605	GO:MF	6.00E-12	41	10	6	17314	innate immune response	GO:0045087	GO:BP	2.97E-35	708	211	66	16178	extracellular matrix organization	GO:0030198	GO:BP	7.52E-05	235	86	11	16178						
Interferon Signa	REACR-HSA-913 REAC		9.91E-12	193	12	9	10842	defense response to other organ	GO:0009842	GO:BP	4.00E-34	925	221	74	16178	extracellular structure organizat	GO:0043062	GO:BP	7.86E-05	236	86	11	16178						
Antigen processi	KEGG:04612	KEGG	1.10E-11	69	10	7	8484	response to other organism	GO:0051707	GO:BP	9.65E-32	1101	215	76	16178	external encapsulating structure	GO:0045229	GO:BP	8.21E-05	237	86	11	16178						
transport vesicle	GO:0030658	GO:CC	2.51E-11	134	10	7	16860	response to external biotic stim	GO:0043207	GO:BP	9.65E-32	1101	215	76	16178	Regulation of Insulin-like Growth	REACR-HSA-381 REAC		0.00039974235	124	91	9	10842						
antigen processi	GO:0019882	GO:BP	3.30E-11	97	10	7	16178	leukocyte activation	GO:0045321	GO:BP	4.22E-31	694	231	64	16178	integrin binding	GO:0005178	GO:MF	0.003016270364	143	53	6	17314						
MHC class I prot	GO:0042612	GO:CC	3.89E-11	5	10	4	16860	response to biotic stimulus	GO:0006907	GO:BP	7.74E-31	1135	215	76	16178	ECM proteoglycans	REACR-HSA-300 REAC		0.003715803452	75	72	6	10842						
coated vesicle m	GO:0030662	GO:CC	1.01E-10	163	10	7	16860	cell activation	GO:0001775	GO:BP	1.11E-30	814	231	68	16178	Integrin cell surface interactions	REACR-HSA-216 REAC		0.003879370892	84	38	5	10842						
endocytic vesicle	GO:0030666	GO:CC	1.20E-10	167	10	7	16860	biological process involved in int	GO:0044419	GO:BP	5.16E-29	1239	221	78	16178	Golgi lumen	GO:0005796	GO:CC	0.003918944532	99	89	6	16860						
positive regulati	GO:0002711	GO:BP	3.79E-10	57	10	6	16178	Cytokine Signaling in Immune sy	REACR-HSA-128 REAC		6.32E-29	1719	216	71	10842	Colagen formation	REACR-HSA-147 REAC		0.01166452441	89	74	6	10842						
MHC class II pr	GO:0042613	GO:CC	5.56E-10	14	6	4	16860	lymphocyte activation	GO:0046649	GO:BP	2.63E-28	564	221	56	16178	Post-translational protein phos	REACR-HSA-895 REAC		0.01170756042	107	91	7	10842						
antigen processi	GO:0048002	GO:BP	6.41E-10	62	10	6	16178	immune effector process	GO:0002252	GO:BP	1.15E-27	532	221	53	16178	Factor: OSR2; motif: NNNNNGWG	TFM10020	TF	0.01229478268	2632	93	29	20045						
regulation of ad	GO:0002819	GO:BP	8.24E-10	152	10	7	16178	Factor: IRF-2; motif: NAAANNGA	TFM09957	TF	8.03E-26	278	174	34	20045	lysosomal lumen	GO:0043202	GO:CC	0.0136533734	87	77	5	16860						
Golgi membrana	GO:0001039	GO:CC	1.37E-09	453	10	8	16860	Immune System	REACR-HSA-168 REAC		3.42E-25	2052	217	112	10842	system development	GO:0048731	GO:BP	0.01827653716	2636	12	9	16178						
adaptive immun	GO:0002520	GO:BP	1.57E-09	332	10	8	16178	Factor: IRF1; motif: NNNYATSTT	TFM07216	TF	1.18E-24	445	121	34	20045	Assembly of collagen fibrils and	REACR-HSA-202 REAC		0.02010477475	60	74	5	10842						
positive regulati	GO:0050778	GO:BP	1.89E-09	615	13	10	16178	response to cytokine	GO:0034097	GO:BP	1.87E-24	624	228	54	16178	endomembrane system	GO:0012505	GO:CC	0.02122917338	4051	95	40	16860						
coated vesicle	GO:0030135	GO:CC	1.97E-09	248	10	7	16860	Interferon gamma signaling	REACR-HSA-87 REAC		3.11E-24	87	216	28	10842	extracellular exosome	GO:0070062	GO:CC	0.0264638853	2108	91	25	16860						
Allograft rejecti	WP-P2328	WP	2.44E-09	88	13	7	8286	positive regulation of response i	GO:0048584	GO:BP	8.84E-24	1928	226	90	16178	vacuolar lumen	GO:0005775	GO:CC	0.02943197081	164	77	6	16860						
regulation of T	GO:0002709	GO:BP	3.12E-09	80	10	6	16178	Interferon Signaling	REACR-HSA-913 REAC		1.05E-23	1193	216	37	10842	extracellular vesicle	GO:0190361	GO:CC	0.0156331929	2131	91	25	16860						
positive regulati	GO:0002699	GO:BP	3.87E-09	189	10	7	16178	activation of immune response	GO:0002253	GO:BP	1.77E-23	405	231	47	16178	extracellular membrane-bound	GO:0060510	GO:CC	0.03180385426	2132	91	25	16860						
positive regulati	GO:0002824	GO:BP	4.88E-09	86	10	6	16178	response to external stimulus	GO:0009605	GO:BP	1.92E-23	1936	223	89	16178	extracellular organelle	GO:0043230	GO:CC	0.03180385426	2132	91	25	16860						
immune respon	GO:0006955	GO:BP	5.50E-09	1506	11	11	16178	T cell activation	GO:0042110	GO:BP	3.01E-23	401	231	44	16178	growth factor binding	GO:0019838	GO:MF	0.0345531221	116	61	5	17314						
transport vesicle	GO:0030133	GO:CC	6.69E-09	295	10	7	16860	immune response-regulating sig	GO:0002764	GO:BP	4.20E-23	427	231	45	16178	tissue development	GO:0009888	GO:BP	0.03914371905	1258	33	11	16178						
positive regulati	GO:0002708	GO:BP	6.91E-09	91	10	6	16178	immune response-activating sig	GO:0002757	GO:BP	5.06E-23	406	231	44	16178	platelet alpha granule	GO:0031091	GO:CC	0.0415729373	90	94	5	16860						
endocytic vesicle	GO:0030139	GO:CC	7.02E-09	297	10	7	16860	Factor: IRF-1; motif: STTTCACTTT	TFM04788	TF	6.41E-23	552	187	42	20045	extracellular matrix structural c	GO:0005021	GO:MF	0.04158847886	166	72	6	17314						
positive regulati	GO:0002821	GO:BP	7.90E-09	93	10	6	16178	Antigen processing and present	KEGG:04612	KEGG	3.42E-22	69	194	25	8484	Degradation of the extracellular	REACR-HSA-147 REAC		0.04515368596	140	86	7	10842						
positive regulati	GO:0001916	GO:BP	9.43E-09	34	10	5	16178	regulation of defense response	GO:0031347	GO:BP	4.52E-21	640	211	49	16178	positive regulation of neuron pr	GO:0010976	GO:BP	0.04575700371	101	10	3	16178						
MHC class II pr	GO:0002206	GO:MF	1.02E-08	24	6	4	17314	regulation of response to exten	GO:0032101	GO:BP	4.81E-21	886	221	58	16178	ECM-receptor interaction	KEGG:04512	KEGG	0.04878246341	89	38	4	8484						
regulation of im	GO:0005976	GO:BP	1.03E-08	742	10	9	16178	adaptive immune response	GO:0002236	GO:BP	1.81E-21	332	231	38	16178														
Allograft rejecti	KEGG:05330	KEGG	1.03E-08	34	10	5	8484	side of membrane	GO:0098552	GO:CC	6.02E-21	530	228	45	16860														
T cell mediated i	GO:0002456	GO:BP	1.09E-08	98	10	6	16178	immune response-activating cel	GO:0002429	GO:BP	6.02E-21	259	231	35	16178														
peptide binding	GO:0042277	GO:MF	1.15E-08	298	10	7	17314	response to stress	GO:0006950	GO:BP	6.56E-21	3057	221	108	16178														
Graft-versus-hot	KEGG:05332	KEGG	1.61E-08	37	10	5	8484	immune response-regulating ce	GO:0002768	GO:BP	8.30E-21	281	231	36	16178														
Interferon alpha	REACR-HSA-909 REAC		1.80E-08	71	12	6	10842	Factor: IRF-1; motif: NAAANNGA	TFM09629	TF	1.51E-20	340	121	28	20045														
positive regulati	GO:0002705	GO:BP	2.09E-08	109	10	6	16178	cellular response to cytokine sti	GO:0071345	GO:BP	1.97E-20	554	228	47	16178														
Type 1 diabetes i	KEGG:04940	KEGG	2.42E-08	40	10	5	8484	cell killing	GO:0001906	GO:BP	4.37E-20	167	101	22	16178														

Hot Tumor Segment							Hot Immune Segment							Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size
Herpes simplex	KEGG:05168	KEGG	8.14E-06	506	13	8	8484	lymphocyte differentiation	GO:003098	GO:BP	2.25E-13	292	210	28	16178								
skin 1; endothel	HPA:0460202	HPA	8.21E-06	593	13	8	11019	luminal side of membrane	GO:0098576	GO:CC	2.45E-13	33	133	11	16860								
ER Phagosome	REAC:R-HSA-123 REAC		8.44E-06	90	12	5	10842	T cell receptor signaling pathway	GO:0050852	GO:BP	3.07E-13	114	231	20	16178								
cytokine prodn	GO:0001816	GO:BP	8.45E-06	647	13	8	16178	positive regulation of cell-cell ad	GO:0022409	GO:BP	3.49E-13	255	224	27	16178								
Golgi apparatus	GO:0005794	GO:CC	9.02E-06	1370	10	8	16860	positive regulation of leukocyte	GO:1903039	GO:BP	4.23E-13	213	224	25	16178								
endosome	GO:0005768	GO:CC	9.36E-06	835	10	7	16860	Type II interferon signaling	WP:WP619	WP	1.12E-12	37	216	15	8286								
MHC class II pro	GO:0002399	GO:BP	1.01E-05	13	6	3	16178	appendix; non-germinal center	+HPA:0030442	HPA	1.18E-12	263	232	31	11019								
peptide antigen	GO:0002503	GO:BP	1.01E-05	13	6	3	16178	Allograft rejection	WP:WP2328	WP	1.31E-12	88	221	21	8286								
skin 2; langerhai	HPA:0471462	HPA	1.07E-05	662	9	7	11019	Factor: IRF; motif: RAAANTGAAA	TF:M00972	TF	1.42E-12	2024	208	63	20045								
endoplasmic ret	GO:0005789	GO:CC	1.10E-05	855	10	7	16860	positive regulation of immune r	GO:0002699	GO:BP	2.38E-12	189	221	23	16178								
Adaptive immu	REAC:R-HSA-128 REAC		1.18E-05	809	13	9	10842	positive regulation of T cell acti	GO:0031349	GO:BP	2.49E-12	411	221	32	16178								
endoplasmic ret	GO:0098827	GO:CC	1.21E-05	867	10	7	16860	positive regulation of response	GO:0002833	GO:BP	2.55E-12	330	221	29	16178								
nuclear outer m	GO:0042175	GO:CC	1.29E-05	875	10	7	16860	Graft-versus-host disease	KEGG:05332	KEGG	2.73E-12	37	195	14	8484								
regulation of l	GO:0051249	GO:BP	1.30E-05	367	9	6	16178	hemopoiesis	GO:003097	GO:BP	2.80E-12	631	231	40	16178								
skin 1; langerhai	HPA:0461461	HPA	1.45E-05	716	12	8	11019	Th1 and Th2 cell differentiation	KEGG:04658	KEGG	2.88E-12	89	211	20	8484								
cytoplasmic vesi	GO:0030659	GO:CC	1.53E-05	897	10	7	16860	antigen processing and present	GO:0002478	GO:BP	3.44E-12	33	194	12	16178								
leukocyte differ	GO:0002521	GO:BP	1.58E-05	428	5	5	16178	response to virus	GO:0009615	GO:BP	3.51E-12	334	221	29	16178								
skin 2; lymphoc	HPA:0471472	HPA	1.62E-05	647	13	8	11019	regulation of cell-cell adhesion	GO:0022407	GO:BP	3.62E-12	383	224	31	16178								
vesicle membra	GO:0012500	GO:CC	1.68E-05	909	10	7	16860	positive regulation of innate im	GO:0045089	GO:BP	3.74E-12	309	221	28	16178								
Antigen process	REAC:R-HSA-123 REAC		1.84E-05	105	12	5	10842	positive regulation of T cell acti	GO:0050870	GO:BP	5.10E-12	193	224	23	16178								
T cell activation	GO:0042110	GO:BP	2.20E-05	401	9	6	16178	regulation of response to stress	GO:0080134	GO:BP	5.46E-12	1137	211	51	16178								
side of membra	GO:0098552	GO:CC	2.21E-05	530	10	6	16860	regulation of leukocyte cell-c	GO:1903037	GO:BP	5.73E-12	285	224	27	16178								
Cell adhesion m	KEGG:04514	KEGG	2.28E-05	153	10	5	8484	MHC protein complex binding	GO:0023023	GO:MF	5.74E-12	32	183	11	17314								
peptide antigen	GO:0002501	GO:BP	2.40E-05	17	6	3	16178	Adaptive Immune System	REAC:R-HSA-128 REAC		6.39E-12	809	195	49	10842								
MHC protein coi	GO:0002396	GO:BP	2.40E-05	17	6	3	16178	Type I diabetes mellitus	KEGG:04940	KEGG	9.76E-12	40	195	14	8484								
Ebola virus infec	WP:WP4217	WP	2.41E-05	128	10	5	8286	Antigen processing-Cross press	REAC:R-HSA-123 REAC		1.03E-11	105	99	15	10842								
regulation of leu	GO:0002694	GO:BP	2.86E-05	419	9	6	16178	phagocytic vesicle	GO:0045335	GO:CC	3.01E-11	100	105	13	16860								
phagocytic vesi	GO:0045335	GO:CC	2.97E-05	100	4	4	16860	Factor: IRF-2; motif: NGAAGASVG	TF:M11684	TF	1.65E-11	148	165	17	20045								
skin 2; fibrohisti	HPA:0471441	HPA	2.98E-05	1021	13	9	11019	regulation of cell adhesion	GO:0030155	GO:BP	1.82E-11	619	225	38	16178								
clathrin-coated	GO:0030669	GO:CC	3.41E-05	70	4	3	16860	Viral myocarditis	KEGG:05416	KEGG	2.19E-11	63	221	17	8484								
skin 2; fibrohisti	HPA:0471443	HPA	3.90E-05	467	13	7	11019	ER-Phagosome pathway	REAC:R-HSA-123 REAC		2.36E-11	90	99	14	10842								
bounding memt	GO:0098588	GO:CC	4.74E-05	1693	10	8	16860	T cell differentiation	GO:0030217	GO:BP	2.44E-11	201	231	23	16178								
positive regulati	GO:0048584	GO:BP	5.33E-05	1928	10	9	16178	appendix; non-germinal center	+HPA:0030441	HPA	2.96E-11	336	232	33	11019								
early endosome	GO:0031901	GO:CC	5.40E-05	116	10	4	16860	negative regulation of immune r	GO:0050777	GO:BP	2.98E-11	145	199	19	16178								
regulation of cel	GO:0050865	GO:BP	5.40E-05	466	9	6	16178	positive regulation of biological	GO:0048518	GO:BP	3.01E-11	5250	226	129	16178								
myeloid dendrit	GO:0002469	GO:BP	5.73E-05	2	2	2	16178	positive regulation of cellular pr	GO:0048532	GO:BP	3.24E-11	4752	216	117	16178								
antigen process	GO:0002491	GO:BP	5.73E-05	2	4	2	16178	antigen processing and present	GO:0019884	GO:BP	3.56E-11	39	194	12	16178								
regulation of reg	GO:0045589	GO:BP	5.79E-05	28	5	3	16178	Factor: IRF7; motif: NCGAARVYG	TF:M04018	TF	4.00E-11	628	207	33	20045								
clathrin-coated	GO:0045334	GO:CC	6.37E-05	86	4	3	16860	Factor: IRF-2; motif: NAANYGAAT	TF:M08775	TF	4.71E-11	2790	184	67	20045								
late endosome	GO:0005770	GO:CC	6.62E-05	234	6	4	16860	phagocytic vesicle membrane	GO:0030670	GO:CC	5.81E-11	46	105	10	16860								
regulation of m	GO:2000026	GO:BP	7.52E-05	1015	6	6	16178	cell surface	GO:0009986	GO:CC	6.18E-11	724	221	38	16860								
extracellular spa	GO:0005615	GO:CC	7.67E-05	3205	13	11	16860	endocytic vesicle membrane	GO:0030666	GO:CC	6.31E-11	167	109	15	16860								
antigen process	GO:0002484	GO:BP	7.71E-05	14	10	3	16178	MHC class II protein complex	GO:0042613	GO:CC	7.46E-11	14	169	8	16860								
antigen process	GO:0002486	GO:BP	7.71E-05	14	10	3	16178	Autoimmune thyroid disease	KEGG:05330	KEGG	7.62E-11	49	221	15	8484								
membrane proin	GO:0098796	GO:CC	7.74E-05	1136	10	7	16860	Th17 cell differentiation	KEGG:04659	KEGG	8.08E-11	105	211	20	8484								
regulatory T cell	GO:0045066	GO:BP	7.94E-05	31	5	3	16178	ER to Golgi transport vesicle me	GO:0012507	GO:CC	8.43E-11	53	133	11	16860								
organelle subco	GO:0031984	GO:CC	8.02E-05	1142	10	7	16860	signal transduction	GO:0007165	GO:BP	9.35E-11	4759	228	121	16178								
antigen process	GO:0019886	GO:BP	8.12E-05	25	6	3	16178	Factor: IRF; motif: NNGAANTGT	TF:M08887	TF	1.04E-10	79	154	13	20045								
skin 2; lymphoc	HPA:0471471	HPA	8.51E-05	802	13	8	11019	natural killer cell mediated cyt	GO:0042267	GO:BP	1.10E-10	58	101	11	16178								
regulation of alp	GO:0046634	GO:BP	9.47E-05	82	9	4	16178	natural killer cell mediated immi	GO:0002228	GO:BP	1.35E-10	59	101	11	16178								
antigen process	GO:0002428	GO:BP	9.64E-05	15	10	3	16178	lymphocyte activation involved	GO:0002285	GO:BP	1.39E-10	155	231	20	16178								
regulation of cel	GO:0002476	GO:BP	9.64E-05	15	10	3	16178	Factor: IRF-1; motif: NNRAAAN	TF:M07045	TF	1.47E-10	553	174	28	20045								
hemopoiesis	GO:0030907	GO:BP	1.11E-04	631	5	5	16178	antigen binding	GO:0030823	GO:MF	1.58E-10	170	188	18	17314								
clathrin-coated	GO:0030665	GO:CC	1.13E-04	104	4	3	16860	Human T-cell leukemia virus 1	ir	KEGG:05166	KEGG	1.71E-10	218	221	28	8484							
positive regulati	GO:0051251	GO:BP	1.17E-04	246	9	5	16178	Factor: IRF-8; motif: NCGAAACY	TF:M11685	TF	1.75E-10	1672	174	48	20045								
Trans-golgi netw	GO:0032588	GO:CC	1.23E-04	107	4	3	16860	response to organic substance	GO:0010033	GO:BP	1.82E-10	1724	231	65	16178								
antigen process	GO:0002495	GO:BP	1.29E-04	29	6	3	16178	endocytic vesicle	GO:0030139	GO:CC	1.91E-10	297	109	18	16860								
regulation of cel	GO:0045595	GO:BP	1.37E-04	1121	6	6	16178	Factor: IRF-3; motif: NGGAACN	TF:M11677	TF	2.73E-10	480	174	26	20045								
cell surface	GO:0009986	GO:CC	1.39E-04	724	10	6	16860	cellular response to chemical sti	GO:0070887	GO:BP	2.81E-10	1972	231	70	16178								
T cell differentia	GO:0030217	GO:BP	1.43E-04	201	5	4	16178	Factor: IRF-7; motif: NCGAANAC	TF:M11679	TF	3.18E-10	634	207	32	20045								
antigen process	GO:0002504	GO:BP	1.59E-04	31	6	3	16178	antigen processing and present	GO:0019885	GO:BP	3.36E-10	20	9	8	16178								
cytoplasmic vesi	GO:0031410	GO:CC	1.67E-04	1989	10	8	16860	response to chemical	GO:0042221	GO:BP	3.36E-10	2620	231	83	16178								
lymphocyte acti	GO:0046649	GO:BP	1.68E-04	564	9	6	16178	Generation of second message	REAC:R-HSA-202 REAC		4.34E-10	35	208	12	10842								
Proteasome deg	WP:WP183	WP	1.68E-04	62	12	4	8286	TCR signaling	REAC:R-HSA-202 REAC		4.70E-10	120	208	19	10842								
intracellular vesi	GO:0097708	GO:CC	1.69E-04	1993	10	8	16860	regulation of adaptive immune	GO:0002819	GO:BP	4.85E												

Hot Tumor Segment							Hot Immune Segment							Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size
alpha-beta T cell	GO:046631	GO-BP	0.000470879374	122	9	4	16178	MHC protein complex assembly	GO:0002396	GO-BP	5.18E-09	17	169	8	16178								
immune recept	GO:0140375	GO-MF	0.000481742166	139	4	3	17314	Factor: IRF-8; motif: NCGAAGCTC	TFM11685_1	TF	5.21E-09	123	165	14	20045								
appendic; non-g	HPA:0002042	HPA	0.000553491821	263	6	4	11019	regulation of mononuclear cell	GO:0032944	GO-BP	5.27E-09	171	224	19	16178								
leukocyte activat	GO:0465321	GO-BP	0.000573592121	64	9	6	16178	Factor: IRF-2; motif: NNRRANGC	TFM01882	TF	5.30E-09	259	177	19	20045								
biological proces	GO:0044419	GO-BP	0.000596401455	1239	9	7	16178	Proteasome degradation	WP-WP183	WP	5.35E-09	62	45	9	8286								
vacuolar membr	GO:0005774	GO-CC	0.000596462172	406	6	4	16860	programmed cell death	GO:0012501	GO-BP	5.72E-09	1424	228	55	16178								
lymphocyte diff	GO:0030098	GO-BP	0.000604740835	292	5	4	16178	cell communication	GO:0007154	GO-BP	6.14E-09	5217	228	124	16178								
skin 1; lymphoc	HPA:0461471	HPA	0.000671352238	712	13	7	11019	cell death	GO:0008219	GO-BP	6.57E-09	1429	228	55	16178								
skin 2; lymphoc	HPA:0471473	HPA	0.000786166531	456	13	6	11019	signaling	GO:0023052	GO-BP	6.71E-09	5159	228	123	16178								
regulation of CD	GO:0032829	GO-BP	0.000859441851	6	4	2	16178	T cell mediated cytotoxicity	GO:0001913	GO-BP	7.32E-09	45	94	9	16178								
positive regulati	GO:0032031	GO-BP	0.00089441851	6	4	2	16178	Immune response to tuberculo	WP-WP4107	WP	8.50E-09	22	211	10	8286								
SARS-CoV-2 acti	REAC-R-HSA-970	REAC	0.000901029834	120	6	10	4	10842	Phagosome	KEGG:04145	KEGG	8.73E-09	147	171	19	8484							
skin 1; langerha	HPA:0461463	HPA	0.000926380037	218	3	3	11019	positive regulation of leukocyte	GO:0001912	GO-BP	9.87E-09	57	76	9	16178								
skin 2; cells in b	HPA:0471392	HPA	0.000983390045	754	13	7	11019	cellular response to stimulus	GO:0051716	GO-BP	9.91E-09	5913	232	136	16178								
endoplasmic ret	GO:0005783	GO-CC	0.001036506011	1695	13	8	16860	regulation of adaptive immune	GO:0002822	GO-BP	1.03E-08	137	221	17	16178								
T cell activation	GO:0002286	GO-BP	0.001040268813	97	4	3	16178	activation of innate immune res	GO:0002218	GO-BP	1.04E-08	253	221	22	16178								
regulation of cel	GO:0022407	GO-BP	0.001055341042	383	9	5	16178	regulation of inflammatory resp	GO:0050727	GO-BP	1.05E-08	293	211	23	16178								
CD4-positive, C	GO:0002361	GO-BP	0.0012031194	7	4	2	16178	COP1-coated ER to Golgi transp	GO:0030134	GO-CC	1.11E-08	81	133	11	16860								
polysaccharide	GO:0030247	GO-MF	0.001300949331	17	4	2	17314	Interleukin-2 family signaling	REAC-R-HSA-451	REAC	1.12E-08	44	211	12	10842								
skin 1; fibrohist	HPA:0461441	HPA	0.001400469504	885	12	7	11019	Factor: IRF-4; motif: NCGAAGCTC	TFM11686	TF	1.35E-08	3447	177	69	20045								
positive regulati	GO:0051240	GO-BP	0.001414978173	1251	13	8	16178	regulation of programmed cell	GO:0043067	GO-BP	1.36E-08	1110	228	47	16178								
appendic; non-g	HPA:0030041	HPA	0.00146592977	336	6	4	11019	antigen processing and present	GO:0002476	GO-BP	1.37E-08	15	57	6	16178								
cell activation	GO:0001775	GO-BP	0.00146822744	814	9	6	16178	antigen processing and present	GO:0002476	GO-BP	1.37E-08	15	57	6	16178								
TAP binding	GO:0046977	GO-MF	0.001506075355	7	10	2	17314	negative regulation of response	GO:0032102	GO-BP	1.40E-08	320	215	24	16178								
trans-Golgi netw	GO:0005802	GO-CC	0.001608365077	251	4	3	16860	antigen processing and present	GO:0019886	GO-BP	1.42E-08	25	194	9	16178								
skin 2; langerha	HPA:0471463	HPA	0.001680323105	266	3	3	11019	positive regulation of leukocyte	GO:0070665	GO-BP	1.56E-08	119	224	16	16178								
regulation of lym	GO:0050670	GO-BP	0.00216515337	169	9	4	16178	Factor: IRF-2; motif: NCGAASVGT	TFM11685_1	TF	1.57E-08	259	165	18	20045								
positive regulati	GO:0048532	GO-BP	0.0017411701703	4752	11	11	16178	innate immune response-activ	GO:0003738	GO-BP	1.63E-08	233	221	21	16178								
MHC class II ant	REAC-R-HSA-213	REAC	0.00178932844	123	4	3	10842	Translocation of ZAP-70 to imm	REAC-R-HSA-202	REAC	1.76E-08	20	208	9	10842								
defense respons	GO:0140546	GO-BP	0.001816458087	844	9	6	16178	regulation of alpha-beta T cell	GO:0046634	GO-BP	1.77E-08	82	231	14	16178								
regulation of mc	GO:0032944	GO-BP	0.001821305615	171	9	4	16178	MHC class II protein complex	GO:0023026	GO-MF	1.78E-08	24	169	8	17314								
Tuberculosis	KEGG:05152	KEGG	0.001849451351	175	4	3	8484	T cell proliferation	GO:0042098	GO-BP	1.83E-08	140	224	17	16178								
positive regulati	GO:0043382	GO-BP	0.002062150338	9	4	2	16178	lymphocyte proliferation	GO:0046651	GO-BP	1.87E-08	207	224	20	16178								
regulation of res	GO:0002831	GO-BP	0.002070466722	439	9	5	16178	mononuclear cell proliferation	GO:0032943	GO-BP	2.44E-08	210	224	20	16178								
response to bac	GO:0009617	GO-BP	0.00216515337	443	9	5	16178	leukocyte proliferation	GO:0070661	GO-BP	2.49E-08	235	224	21	16178								
regulation of de	GO:0009793	GO-BP	0.002253523232	1787	6	6	16178	Natural killer cell mediated cyt	KEGG:04650	KEGG	2.49E-08	134	191	18	8484								
regulation of res	GO:0032101	GO-BP	0.002410661643	886	9	6	16178	positive regulation of cell killing	GO:0031343	GO-BP	2.54E-08	63	76	9	16178								
skin 2; cells in	HPA:0471411	HPA	0.002553604001	871	13	7	11019	signaling receptor binding	GO:0005102	GO-MF	2.57E-08	1292	216	46	17314								
regulation of mc	GO:0043380	GO-BP	0.002577475395	10	4	2	16178	regulation of cell killing	GO:0031341	GO-BP	2.59E-08	91	76	10	16178								
memory T cell	GO:0043379	GO-BP	0.002577475395	10	4	2	16178	Factor: IRF3; motif: NNRRANGC	TFM04014	TF	2.68E-08	289	174	19	20045								
positive regulati	GO:0045657	GO-BP	0.002577475395	10	4	2	16178	Endosomal/Vacuolar pathway	REAC-R-HSA-123	REAC	2.85E-08	11	171	7	10842								
immunological	GO:0090715	GO-BP	0.002577475395	10	4	2	16178	regulation of T cell mediated cy	GO:0001914	GO-BP	3.24E-08	42	76	8	16178								
early endosome	GO:0005769	GO-CC	0.0025887545	307	10	4	16860	MHC class II protein complex	GO:0002399	GO-BP	3.75E-08	13	169	7	16178								
regulation of de	GO:0070563	GO-BP	0.00272586937	190	9	4	16178	peptide antigen assembly with	GO:0070661	GO-BP	3.75E-08	13	169	7	16178								
external side of	GO:0008957	GO-CC	0.002725949724	313	10	4	16860	interferon-mediated signaling	GO:0140888	GO-BP	4.15E-08	95	211	14	16178								
cell development	GO:0048468	GO-BP	0.002875663307	1851	6	6	16178	Factor: IRF-4; motif: NCGAAGCTC	TFM11686_1	TF	4.36E-08	469	171	23	20045								
positive regulati	GO:1903708	GO-BP	0.002887799063	136	4	3	16178	regulation of T cell proliferation	GO:0042129	GO-BP	4.86E-08	128	224	16	16178								
positive regulati	GO:1902107	GO-BP	0.002887799063	136	4	3	16178	trans; non-germinal center cells	HPA:0600443	HPA	4.89E-08	1321	232	63	11019								
skin 2; endothel	HPA:0470201	HPA	0.002899749257	888	13	7	11019	antigen processing and present	GO:0002495	GO-BP	6.67E-08	29	194	9	16178								
Golgi apparatus	GO:0098791	GO-CC	0.002941952662	307	4	3	16860	immune receptor activity	GO:0140375	GO-MF	6.90E-08	139	213	15	17314								
skin 1; lymphoc	HPA:0461472	HPA	0.002946018817	574	13	6	11019	positive regulation of T cell prol	GO:0042102	GO-BP	7.84E-08	77	224	13	16178								
positive regulati	GO:0050870	GO-BP	0.002951254955	193	9	4	16178	phosphorylation of CD3 and TCR	REAC-R-HSA-202	REAC	8.13E-08	23	208	9	10842								
skin 1; cells in b	HPA:0461392	HPA	0.0030013560723	637	12	6	11019	T cell activation SARS-CoV-2	WP-WP5098	WP	9.41E-08	88	211	16	8286								
Double outlet r	HP:00011658	HP	0.003050015854	4	4	2	4958	appendic; non-germinal center	HPA:0030443	HPA	9.54E-08	105	225	16	11019								
positive regulati	GO:0046635	GO-BP	0.003057926503	51	9	3	16178	TAP1 binding	GO:0046978	GO-MF	9.72E-08	4	70	4	17314								
defense respons	GO:0098542	GO-BP	0.003110609075	925	9	6	16178	antigen processing and present	GO:0002475	GO-BP	1.05E-07	20	57	6	16178								
Asthma	KEGG:05310	KEGG	0.003171644145	27	4	2	8484	MHC class I peptide loading com	GO:0042824	GO-CC	1.05E-07	8	99	5	16860								
organelle memb	GO:0031090	GO-CC	0.003263374443	2924	10	8	16860	Factor: IRF-4; motif: NCGAAGCTC	TFM11687_1	TF	1.19E-07	493	171	23	20045								
immunological	GO:0001772	GO-CC	0.003307420844	36	4	2	16860	PD-1 signaling	REAC-R-HSA-389	REAC	1.28E-07	24	208	9	10842								
vesicle	GO:0031962	GO-CC	0.003343304367	3566	13	10	16860	antigen processing and present	GO:0002504	GO-BP	1.31E-07	31	194	9	16178								
Human immun	KEGG:05170	KEGG	0.0033707945428	210	4	10	8484	spleen; cells in red pulp	HPA:030712	HPA	1.32E-07	3143	226	108	11019								
lymphocyte prol	GO:046651	GO-BP	0.003900019436	207	9	4	16178	colon; mucosal lymphoid cell	HPA:013131	HPA	1.37E-07	509	232	35	11019								
lysosome	GO:0005764	GO-CC	0.003918671285	653	6	4	16860	positive regulation of macromol	GO:0010557	GO-BP	1.40E-07	2077	213	63	161								

S10_PA of GeoMx Hot vs Cold

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Hot Tumor Segment						Hot Immune Segment						Cold Immune Segment							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size					term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size
regulation of CD GO:0043370		GO:BP	0.04918567432	42	4	2	16178					Factor: IRF-4, motif: KRAAMNGA, TF:M07323		TF	4.89E-05	974	226	33	20045
skin 2, endothel HPA:0470203		HPA	0.04955795263	321	13	4	11019					Interleukin-21 signaling REAC:R-HSA-902		REAC	5.12E-05	10	152	5	10842
lung, alveolar ce HPA:0301371		HPA	0.04996020319	1533	9	6	11019					negative regulation of cell killing GO:0031342		GO:BP	5.61E-05	21	72	5	16178
												negative regulation of cytokine GO:0001818		GO:BP	6.26E-05	229	231	17	16178
												regulation of T cell differentiation GO:0045580		GO:BP	6.36E-05	127	231	13	16178
												vesicle membrane GO:0012506		GO:CC	6.57E-05	909	135	24	16860
												Toxoplasmosis KEGG:05145		KEGG	6.93E-05	108	221	14	8484
												regulation of molecular function GO:0065009		GO:BP	7.40E-05	1722	187	46	16178
												immunological synapse GO:0001772		GO:CC	7.58E-05	36	209	7	16860
												negative regulation of immune r GO:0002698		GO:BP	7.82E-05	80	195	10	16178
												Factor: STAT2, motif: NRGAAMN, TF:M07323		TF	8.65E-05	2798	177	53	20045
												Chronic mucocutaneous candidi HP:0002728		HP	8.71E-05	49	208	13	4958
												Abnormal cell proliferation HP:0031377		HP	9.66E-05	41	131	10	4958
												Abnormal lymphocyte proliferat HP:0031378		HP	9.66E-05	41	131	10	4958
												negative regulation of natural ki GO:0045953		GO:BP	9.85E-05	14	45	4	16178
												negative regulation of natural ki GO:0002716		GO:BP	9.85E-05	14	45	4	16178
												positive regulation of intracellul GO:1902533		GO:BP	9.88E-05	871	226	34	16178
												positive regulation of cell comm GO:0010647		GO:BP	1.04E-04	1423	226	46	16178
												non-membrane spanning protei GO:0004715		GO:MF	1.08E-04	37	211	7	17314
												positive regulation of signaling GO:0023056		GO:BP	1.10E-04	1426	226	46	16178
												regulation of type II interferon p GO:0032649		GO:BP	1.18E-04	90	231	11	16178
												type II interferon production GO:0032609		GO:BP	1.18E-04	90	231	11	16178
												negative regulation of leukocyte GO:0002704		GO:BP	1.31E-04	46	195	8	16178
												Chronic oral candidiasis HP:0009098		HP	1.36E-04	28	208	10	4958
												Chemokine signaling pathway KEGG:04062		KEGG	1.36E-04	190	215	18	8484
												Human immunodeficiency virus KEGG:05170		KEGG	1.37E-04	210	120	14	8484
												endosome GO:0005768		GO:CC	1.38E-04	835	174	26	16860
												Factor: Blimp-1, motif: NRGAAC, TF:M01066		TF	1.47E-04	410	184	18	20045
												spleen; cells in red pulp[High] HPA:0530713		HPA	1.49E-04	817	226	39	11019
												thymic T cell selection GO:0045061		GO:BP	1.54E-04	10	208	5	16178
												canonical NF-kappaB signal tran GO:0007249		GO:BP	1.63E-04	278	228	18	16178
												regulation of canonical NF-kapp GO:0043122		GO:BP	1.66E-04	248	228	17	16178
												regulation of leukocyte apoptosi GO:2000106		GO:BP	1.67E-04	57	226	9	16178
												T-helper 1 type immune respons GO:0042088		GO:BP	1.71E-04	30	210	7	16178
												response to protozoan GO:0001562		GO:BP	1.75E-04	17	42	4	16178
												defense response to protozoan GO:0042832		GO:BP	1.75E-04	17	42	4	16178
												Abnormal leukocyte physiology HP:0033796		HP	1.76E-04	294	122	24	4958
												Abnormal lymphocyte physiology HP:0031409		HP	1.76E-04	294	122	24	4958
												positive regulation of pyroptosis GO:0140639		GO:BP	1.78E-04	5	35	3	16178
												coated vesicle GO:0030135		GO:CC	1.83E-04	248	109	11	16860
												cellular response to tumor necro GO:0071356		GO:BP	1.87E-04	166	228	14	16178
												Interleukin-2 signaling REAC:R-HSA-902		REAC	1.91E-04	12	158	5	10842
												cytolytic granule GO:0044194		GO:CC	1.91E-04	8	167	4	16860
												MHC class II receptor activity GO:0032395		GO:MF	1.99E-04	8	162	4	17314
												Rheumatoid arthritis KEGG:05323		KEGG	2.01E-04	88	216	12	8484
												cytoplasmic vesicle membrane GO:0030659		GO:CC	2.03E-04	897	135	23	16860
												regulation of alpha-beta T cell p GO:0046640		GO:BP	2.06E-04	29	224	7	16178
												Herpes simplex virus 1 infection KEGG:05168		KEGG	2.08E-04	506	199	30	8484
												regulation of signal transductor GO:0009966		GO:BP	2.10E-04	2537	228	67	16178
												Costimulation by the CD28 fami REAC:R-HSA-388		REAC	2.20E-04	67	208	10	10842
												T cell receptor complex GO:0042101		GO:CC	2.24E-04	15	208	5	16860
												beta-2-microglobulin binding GO:0030881		GO:MF	2.26E-04	7	45	3	17314
												regulation of production of mol GO:0002700		GO:BP	2.29E-04	123	221	12	16178
												alpha-beta T cell proliferation GO:0046633		GO:BP	2.65E-04	30	224	7	16178
												Factor: IRF-7, motif: NCGAANCI, TF:M11679_1		TF	2.68E-04	28	163	6	20045
												Abnormal immunoglobulin level HP:0010701		HP	2.72E-04	261	120	22	4958
												leukocyte migration GO:0050900		GO:BP	2.75E-04	304	216	18	16178
												Abnormality of B cell physiology HP:0005372		HP	2.91E-04	262	120	22	4958
												multicellular organismal process GO:0032501		GO:BP	2.95E-04	5600	226	116	16178
												disruption of cell in another org GO:0141061		GO:BP	2.98E-04	61	65	6	16178
												killing of cells of another organi GO:0031640		GO:BP	2.98E-04	61	65	6	16178
												Factor: IRF-5, motif: NCGAAACC, TF:M11671		TF	3.12E-04	398	199	18	20045
												regulation of cellular process GO:0050794		GO:BP	3.16E-04	9578	228	172	16178
												recycling endosome membrane GO:0050538		GO:CC	3.23E-04	69	45	5	16860
												Factor: HELIOS, motif: RNARRRG, TF:M09745_1		TF	3.27E-04	493	128	16	20045
												viral life cycle GO:0019058		GO:BP	3.32E-04	243	216	16	16178
												cytolysis in another organism GO:0051715		GO:BP	3.55E-04	6	35	3	16178
												Interleukin-1 family signaling REAC:R-HSA-446		REAC	3.55E-04	151	120	11	10842
												Factor: IRF-1, motif: NAAMNNGA, TF:M09626_1		TF	3.60E-04	29	165	6	20045
												2'-5'-oligoadenylate synthetase GO:0001730		GO:MF	3.89E-04	3	173	3	17314
												pyroptosis GO:0070269		GO:BP	3.90E-04	33	128	6	16178
												identical protein binding GO:0042802		GO:MF	4.00E-04	1930	211	48	17314
												MHC class IIb protein complex GO:0032398		GO:CC	4.05E-04	2	20	2	16860
												NOD-like receptor signaling path KEGG:04621		KEGG	4.11E-04	182	173	15	8484
												T cell antigen receptor TCR path WP:WP3863		WP	4.20E-04	62	158	9	8286
												T cell receptor signaling pathway WP:WP99		WP	4.25E-04	75	208	11	8286
												regulation of hydrolase activity GO:0051336		GO:BP	4.43E-04	564	221	25	16178
												Factor: PRDM1, motif: NRAAAGT, TF:M03916		TF	4.67E-04	946	195	28	20045
												Abnormality of humoral immuni HP:0005368		HP	4.68E-04	315	120	24	4958
												CD8-positive, alpha-beta T cell a GO:0036037		GO:BP	4.79E-04	24	187	6	16178
												disruption of anatomical structu GO:0141060		GO:BP	4.81E-04	66	65	6	16178
												Viral protein interaction with cyt KEGG:04061		KEGG	4.81E-04	98	39	6	8484
												alpha-beta T cell differentiation GO:0046632		GO:BP	4.86E-04	82	231	10	16178
												CD4-positive, alpha-beta T cell d GO:0043367		GO:BP	4.90E-04	69	210	9	16178
												Cytokine-cytokine receptor inter KEGG:04060		KEGG	4.90E-04	291	39	9	8484
												GO:0070721		GO:CC	4.91E-04	3	199	3	16860
												type I interferon-mediated signa GO:0060337		GO:BP	5.09E-04	73	199	9	16178
												positive regulation of peptidyl-ty GO:0050731		GO:BP	5.36E-04	130	226	12	16178
												lymph node; germinal center cel HPA:0310433		HPA	5.54E-04	944	169	34	11019
												cellular response to type I interl GO:0071357		GO:BP	5.73E-04	74	199	9	16178
												transport vesicle GO:0030133		GO:CC	5.75E-04	295	147	13	16860
												myeloid leukocyte activation GO:0002274		GO:BP	5.85E-04	166	213	13	

Hot Tumor Segment							Hot Immune Segment							Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size
								interleukin-15 receptor activity	GO:0042010	GO:MF	6.21E-04	3	202	3	17314								
								skin 2; lymphocyte[High]	HPA:0471473	HPA	6.28E-04	456	226	26	11019								
								negative regulation of lymphoid	GO:0002707	GO:BP	7.08E-04	39	195	7	16178								
								lymph node; non-germinal center	HPA:0310441	HPA	7.28E-04	6061	226	158	11019								
								regulation of cytokine-mediated	GO:0001959	GO:BP	7.44E-04	131	115	9	16178								
								Recurrent cutaneous fungal infe	HP:0011370	HP	0.000748746032	58	208	13	4958								
								Abnormal natural killer cell mor	HP:0012176	HP	0.000759266168	39	131	9	4958								
								proteasome core complex, beta	GO:0019774	GO:CC	0.000761708832	11	43	3	16860								
								Factor: IRF-8; motif: NCGAAACCC	TF:M11683	TF	0.000762797481	4769	85	42	20045								
								protection from natural killer ce	GO:0042270	GO:BP	0.000769000766	6	45	3	16178								
								positive regulation of cell popul	GO:0008284	GO:BP	0.000770205728	690	226	28	16178								
								Factor: IRF-1; motif: RAAAGTC	TF:M09640	TF	0.000782977608	302	193	15	20045								
								regulation of lymphocyte chem	GO:1901623	GO:BP	0.0008025834947	23	215	6	16178								
								Interferon type 1 signaling pathw	WP:WP585	WP	0.000857351048	54	199	9	8286								
								Lymphopenia	HP:0001888	HP	0.000866738296	177	158	20	4958								
								endosome membrane	GO:0010008	GO:CC	0.000869354762	401	169	16	16860								
								late endosome membrane	GO:0031902	GO:CC	0.000907146232	97	207	9	16860								
								Factor: PEA3; motif: ACWTCCK	n TF:M0655_1	TF	0.000938180212	2910	226	62	20045								
								IL 2 signaling pathway	WP:WP49	WP	0.000943993035	37	158	7	8286								
								regulation of CD4-positive, alph	GO:2000514	GO:BP	0.000976438078	55	210	8	16178								
								cytosine-type endopeptidase req	GO:0043028	GO:MF	0.000980170493	40	171	6	17314								
								cytolysis	GO:0019835	GO:BP	0.000991579613	8	35	3	16178								
								Tuberculosis	KEGG:05152	KEGG	0.00100803178	175	218	16	8484								
								Genes associated with the devel	WP:WP5033	WP	0.001059005248	18	228	6	8286								
								positive regulation of cytokine p	GO:0002720	GO:BP	0.001088769526	56	209	8	16178								
								Impaired lymphocyte transform	HP:0003347	HP	0.001126654535	14	131	6	4958								
								T-helper cell differentiation	GO:0042093	GO:BP	0.001128890506	467	210	8	16178								
								response to type 1 interferon	GO:0034340	GO:BP	0.001129073163	80	199	9	16178								
								PD-L1 expression and PD-1 che	KEGG:05235	KEGG	0.001141287765	89	211	11	8484								
								positive regulation of productio	GO:0002702	GO:BP	0.001179976421	94	221	10	16178								
								Abnormal B cell morphology	HP:0002846	HP	0.001205910731	94	131	13	4958								
								DAP12 signaling	REACR-HSA-242	REAC	0.001224287758	25	183	6	10842								
								Type 1 interferon induction and	WP:WP4868	WP	0.00123795302	31	199	7	8286								
								Factor: ELF3; motif: NNCACTTC	TF:M12544_1	TF	0.001240731225	384	226	18	20045								
								skin 2; fibrohistiocytic cells[High]	HPA:0471443	HPA	0.001312170285	467	175	22	11019								
								Factor: NF-kappaB1; motif: KG	TF:M0721	TF	0.0013030361861	2464	232	66	20045								
								regulation of macromolecule m	GO:0060255	GO:BP	0.001365306742	5297	213	104	16178								
								regulation of cytokine productio	GO:0002718	GO:BP	0.001368689846	78	209	9	16178								
								cytokine production involved in	GO:0002367	GO:BP	0.001368689846	78	209	9	16178								
								regulation of biological process	GO:0050789	GO:BP	0.001405689755	10131	228	177	16178								
								Factor: IRF-2; motif: NAAANNGA	TF:M09957_1	TF	0.001443976278	21	154	5	20045								
								late endosome	GO:0005770	GO:CC	0.001471325634	234	171	12	16860								
								regulation of response to cytol	GO:0000759	GO:BP	0.001473311461	142	115	9	16178								
								leukocyte apoptotic process	GO:0071887	GO:BP	0.001484891538	73	226	9	16178								
								CD4-positive, alpha-beta T cell	d GO:0002294	GO:BP	0.001489816855	58	210	8	16178								
								regulation of gene expression	GO:0010468	GO:BP	0.001504479607	4283	213	89	16178								
								innate immune response activat	GO:0002220	GO:BP	0.001527545965	79	209	9	16178								
								Th17 cell differentiation pathwa	WP:WP5130	WP	0.001571330196	69	211	10	8286								
								Human cytomegalovirus infectio	KEGG:05163	KEGG	0.001594432666	223	22	6	8484								
								skin 2; lymphocytes[2-Medium]	HPA:0471472	HPA	0.001597979512	647	44	12	11019								
								regulation of tumor necrosis fac	GO:0032680	GO:BP	0.001632594467	127	211	11	16178								
								tumor necrosis factor productio	GO:0032640	GO:BP	0.001632594467	127	211	11	16178								
								Factor: c-ets; motif: KRCAGGAAR	TF:M0340_1	TF	0.001644023324	841	232	28	20045								
								transmembrane signaling recep	GO:0004888	GO:MF	0.001671725571	1150	222	34	17314								
								NF-kappa B signaling pathway	KEGG:04064	KEGG	0.001672346995	102	228	12	8484								
								Golgi membrane	GO:000139	GO:CC	0.00167936629	453	76	11	16860								
								alpha-beta T cell differentiation	GO:0002293	GO:BP	0.001704463416	59	210	8	16178								
								alpha-beta T cell activation invol	GO:0002287	GO:BP	0.001704463416	59	210	8	16178								
								spleen; cells in white pulp[High]	HPA:0530723	HPA	0.00182607793	847	232	38	11019								
								Host pathogen interaction of hu	WP:WP4880	WP	0.00193068112	33	199	7	8286								
								humoral immune response	GO:0006959	GO:BP	0.001951645598	224	76	9	16178								
								granulocyte migration	GO:0097530	GO:BP	0.001964700067	127	215	11	16178								
								lymphocyte migration	GO:0072676	GO:BP	0.001968909451	102	215	10	16178								
								production of molecular mediato	GO:0002440	GO:BP	0.001983555974	150	221	12	16178								
								regulation of developmental pro	GO:0050793	GO:BP	0.002019280112	1787	232	51	16178								
								Innate Immune System	REACR-HSA-168	REAC	0.00202986706	1101	189	40	10842								
								lymphocyte chemotaxis	GO:0048247	GO:BP	0.002035171516	59	215	8	16178								
								Th1/2 non-canonical NF-kB pat	REACR-HSA-566	REAC	0.00204083146	100	138	9	10842								
								T lymphocyte	HP:0005403	HP	0.002061844202	63	208	13	4958								
								regulation of peptidyl-tyrosine	p GO:0050730	GO:BP	0.002100413028	175	226	13	16178								
								regulation of cell communication	GO:0010646	GO:BP	0.002111037842	2812	228	69	16178								
								peptidase activator activity	GO:0016504	GO:MF	0.002227735151	46	171	6	17314								
								cell migration	GO:0016477	GO:BP	0.002296150616	1201	232	39	16178								
								TAR syndrome	WP:WP5362	WP	0.002331094428	62	20	4	8286								
								regulation of leukocyte chemot	GO:0002688	GO:BP	0.002357554181	104	215	10	16178								
								negative regulation of response	GO:0004855	GO:BP	0.002361020261	1340	225	41	16178								
								regulation of tumor necrosis fac	GO:1903535	GO:BP	0.002400015352	132	211	11	16178								
								tumor necrosis factor superfam	GO:0071706	GO:BP	0.002400015352	132	211	11	16178								
								negative regulation of cell popul	GO:0008285	GO:BP	0.002421243505	496	187	20	16178								

Hot Tumor Segment							Hot Immune Segment							Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size
								spleen; cells in white pulp[Med	HPA-0530722	HPA	0.002970095911	2720	172	68	11019								
								T cell receptor signaling pathway	KEGG-04660	KEGG	0.003209925012	119	208	12	8484								
								Kaposi sarcoma-associated her	KEGG-05167	KEGG	0.003265722467	194	216	16	8484								
								respiratory burst	GO-0045730	GO-BP	0.003378974791	32	191	6	16178								
								TAP complex	GO-0042825	GO-CC	0.003402981294	2	57	2	16860								
								Interleukin receptor SHC signali	REACR-HSA-912 REAC		0.003565394848	26	211	6	10842								
								Factor: NF-kappaB; motif: GGG	TF-M00052	TF	0.003580526266	1904	232	46	20045								
								positive regulation of cell motili	GO-2000147	GO-BP	0.003585364617	468	221	21	16178								
								Unusual fungal infection	HP-0020100	HP	0.003588513467	110	208	17	4958								
								appendix; germinal center cells	HPA-0030433	HPA	0.003619710865	92	94	7	11019								
								cytoplasmic side of plasma mem	GO-0009808	GO-CC	0.003707252087	161	228	11	16860								
								regulation of cellular biosynthe	GO-0031326	GO-BP	0.003748180815	4504	213	91	16178								
								spleen; cells in red pulp[Low]	HPA-0530711	HPA	0.003811447015	5333	226	141	11019								
								regulation of metabolic process	GO-0019222	GO-BP	0.003839187688	5757	213	109	16178								
								Factor: IRF-4; motif: NCGAAACC	TF-M04015_1	TF	0.003872625148	171	41	6	20045								
								B cell chemotaxis	GO-0035754	GO-BP	0.003916602538	8	215	4	16178								
								regulation of signaling	GO-0023051	GO-BP	0.004025036706	2804	228	68	16178								
								positive regulation of canonical	GO-0043123	GO-BP	0.004120822262	190	221	13	16178								
								defense response to bacterium	GO-0042742	GO-BP	0.004148216948	243	173	13	16178								
								ABC-type peptide antigen trans	GO-0015433	GO-MF	0.00425641015	2	57	2	17314								
								Factor: NF-kappaB; motif: NGGG	TF-M00774	TF	0.004233015458	1852	182	38	20045								
								skin 1; lymphocytes[Low]	HPA-0461471	HPA	0.004238937573	712	44	12	11019								
								natural killer cell chemotaxis	GO-0035747	GO-BP	0.004355830725	9	191	4	16178								
								negative regulation of biological	GO-0048519	GO-BP	0.004379783618	4420	232	96	16178								
								hsa-miR-146a-5p	MIRNA-hsa-miR-146a-5p	MIRNA	0.004479309798	228	216	14	14819								
								positive regulation of CD4-posi	GO-2000516	GO-BP	0.004809885198	31	210	6	16178								
								regulation of T-helper cell differ	GO-0045622	GO-BP	0.004809885198	31	210	6	16178								
								receptor complex	GO-0043235	GO-CC	0.004828313665	390	221	17	16860								
								positive regulation of locomotio	GO-0040017	GO-BP	0.004841936207	477	221	21	16178								
								Staphylococcus aureus infectio	KEGG-05150	KEGG	0.004859738706	86	169	9	8484								
								regulation of biosynthetic proce	GO-0009889	GO-BP	0.004878112875	4530	213	91	16178								
								cytoplasmic side of membrane	GO-0098562	GO-CC	0.005020428661	198	228	12	16860								
								peptidase regulator activity	GO-0061134	GO-MF	0.005049209214	173	108	8	17314								
								regulation of CD8-positive, alphi	GO-2001185	GO-BP	0.005065192837	20	187	5	16178								
								MHC class II antigen presentatio	REACR-HSA-211 REAC		0.005171148175	123	194	11	10842								
								proteasome core complex	GO-0058319	GO-CC	0.005178091411	20	43	3	16860								
								Yersinia infection	KEGG-05135	KEGG	0.00524149433	136	191	12	8484								
								regulation of type I interferon pr	GO-0032479	GO-BP	0.005255217028	110	173	9	16178								
								type I interferon production	GO-0032606	GO-BP	0.005255217028	110	173	9	16178								
								negative regulation of inflamma	GO-0050728	GO-BP	0.005282834911	119	205	10	16178								
								JAK-STAT signaling pathway	KEGG-04630	KEGG	0.005286325737	162	213	14	8484								
								positive regulation of natural kil	GO-0045954	GO-BP	0.005448928434	23	71	4	16178								
								leukocyte aggregation	GO-0070486	GO-BP	0.005573443262	12	145	4	16178								
								SARS-CoV-2 activates/modulate	REACR-HSA-870 REAC		0.005579357894	120	99	8	10842								
								clathrin-coated endocytic vesicl	GO-0030669	GO-CC	0.00565219604	70	133	6	16860								
								interleukin-2 binding	GO-0019976	GO-MF	0.005877328131	3	39	2	17314								
								interleukin-2 receptor activity	GO-0004911	GO-MF	0.005877328131	3	39	2	17314								
								skin 2; lymphocytes[Low]	HPA-0471471	HPA	0.005893845068	802	106	21	11019								
								Factor: RelA-p65; motif: GGG	TF-M09668	TF	0.005956885625	3631	214	67	20045								
								regulated exocytosis	GO-0045055	GO-BP	0.006025145731	160	191	11	16178								
								natural killer cell degranulation	GO-0043320	GO-BP	0.006067314917	10	183	4	16178								
								Factor: alpha-CPI; motif: CAGCC	TF-M06087	TF	0.006116379333	2383	103	30	20045								
								tyrosine phosphorylation of STA	GO-0007260	GO-BP	0.00627024089	65	226	8	16178								
								neutrophil chemotaxis	GO-0030593	GO-BP	0.006419534222	91	215	9	16178								
								Factor: Blimp-1; motif: RAAAGN	TF-M10040_1	TF	0.006504415191	12	165	4	20045								
								regulation of leukocyte migratio	GO-0002685	GO-BP	0.006601058216	172	216	12	16178								
								cell development	GO-0048468	GO-BP	0.006659830092	1861	232	51	16178								
								plasma membrane signaling rec	GO-0098802	GO-CC	0.006741609677	177	221	11	16860								
								positive regulation of cell migrat	GO-0030335	GO-BP	0.006888435847	448	221	20	16178								
								positive regulation of alpha-beta	GO-0046641	GO-BP	0.006922723545	18	224	5	16178								
								MHC class I protein binding	GO-0042388	GO-MF	0.006977319511	13	70	3	17314								
								Severe viral infection	HP-0031691	HP	0.007273512357	34	199	9	4958								
								CCR3 chemokine receptor bindi	GO-0048248	GO-MF	0.007357018296	5	215	3	17314								
								Factor: HELIOS; motif: RNARRR	TF-M09745	TF	0.007562983025	3600	124	44	20045								
								regulation of defense response	GO-0050691	GO-BP	0.007738989795	40	174	6	16178								
								negative regulation of multicellu	GO-0051241	GO-BP	0.007768057495	817	215	28	16178								
								Proteasome	KEGG-03050	KEGG	0.007887767311	46	43	4	8484								
								T cell selection	GO-0040598	GO-BP	0.008048993959	34	208	6	16178								
								Factor: ZNF823; motif: NYACCA	TF-M06132	TF	0.008248924602	56	221	7	20045								
								Skin rash	HP-0000988	HP	0.008541525342	166	178	19	4958								
								cellular defense response	GO-0006968	GO-BP	0.008603869967	50	218	7	16178								
								positive regulation of AIM2 infla	GO-0140973	GO-BP	0.008744214473	2	35	2	16178								
								Thymic stromal lymphopoietin T	WP-WP2203	WP	0.008951381438	39	211	7	8286								
								recycling endosome	GO-0055037	GO-CC	0.008995167016	155	20	4	16860								
								MHC class I protein complex bin	GO-0023024	GO-MF	0.009005711794	6	183	3	17314								
								Toll-like receptor signaling path	KEGG-04620	KEGG	0.009115483789	106	221	11	8484								
								Macrophage markers	WP-WP4146	WP	0.009117822284	9	214	4	8286								
								regulatory T cell differentiation	GO-0045066	GO-BP	0.009235176696	31	132	5	16178								
								Factor: Blimp-1; motif: RAAAGN	TF-M10040	TF	0.00930802												

Hot Tumor Segment							Hot Immune Segment							Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_si	effective_domain_size
								positive regulation of CD8+posit	GO:2000566	GO:BP	0.01159225196	4	187	3	16178								
								Interactions between immune c	WP:WP4559	WP	0.01196788731	47	39	4	8286								
								Factor: BSG-2; motif: CACTTC	TF:M00268_1	TF	0.01215489356	28	174	5	20045								
								Factor: IRF-7; motif: BBAANTGA	TF:M00772_1	TF	0.01246344736	60	141	6	20045								
								endopeptidase complex	GO:1905369	GO:CC	0.01247721257	76	43	4	16860								
								Interleukin-3; Interleukin-5 and	REACR-HSA-512 REAC		0.01317023953	47	211	7	10842								
								Cell interactions of the pancreat	WP:WP5284	WP	0.01322922825	25	76	4	8286								
								T cell differentiation in thymus	GO:0033077	GO:BP	0.01347353872	37	208	6	16178								
								Recurrent infection of the gastro	HP:M004798	HP	0.01354286924	39	139	8	4958								
								Factor: c-Ets-1; motif: ICATGG	TF:M00339_1	TF	0.01367012084	1448	232	37	20045								
								Abnormal T cell subset distribut	GO:0025540	HP	0.01368669239	74	208	13	4958								
								Transcriptional regulation by RU	REACR-HSA-887 REAC		0.01383542219	94	43	5	10842								
								Factor: PS0; motif: GGRANTCC	TF:M03557	TF	0.01388591495	5036	228	88	20045								
								interleukin-15-mediated signali	GO:0035723	GO:BP	0.01398028279	11	202	4	16178								
								response to interleukin-15	GO:0070672	GO:BP	0.01398028279	11	202	4	16178								
								cellular response to interleukin	GO:0071350	GO:BP	0.01398028279	11	202	4	16178								
								myeloid leukocyte migration	GO:0097529	GO:BP	0.01409554409	186	215	12	16178								
								regulation of phagocytosis	GO:0050764	GO:BP	0.01457851796	81	202	8	16178								
								Factor: c-Rel; motif: SGGRTTTC	TF:M00262	TF	0.01539977832	3720	231	71	20045								
								CD4 receptor binding	GO:0042609	GO:MF	0.01602257409	8	158	3	17314								
								defense response to Gram-posit	GO:0050830	GO:BP	0.01604212855	96	47	5	16178								
								phosphorylation	GO:0016310	GO:BP	0.01621373582	1139	226	35	16178								
								Factor: ESE-1; motif: NNANVAG	TF:M09902	TF	0.01630721598	3224	90	32	20045								
								regulation of alpha-beta T cell	GO:0046637	GO:BP	0.01645783657	52	231	7	16178								
								positive regulation of tumor nec	GO:0032760	GO:BP	0.01662778681	79	211	8	16178								
								NK-->noncanonical NF-kB signa	REACR-HSA-567 REAC		0.01663161049	59	117	6	10842								
								skin 1; lymphocytes[high]	HPA:0461473	HPA	0.01691162044	394	226	21	11019								
								Cross-presentation of soluble ex	REACR-HSA-123 REAC		0.01691408681	49	43	4	10842								
								lymph node	HPA:0310000	HPA	0.01697242307	6530	226	162	11019								
								endometrium	HPA:0640000	HPA	0.01713855984	120	39	5	11019								
								biological regulation	GO:0065007	GO:BP	0.01741103637	10492	228	178	16178								
								Regulation of RUNX2 expression	REACR-HSA-893 REAC		0.01765903815	71	98	6	10842								
								clathrin-coated endocytic vesicle	GO:0045334	GO:CC	0.01828392995	86	133	6	16860								
								Dectin-1 mediated noncanonical	REACR-HSA-567 REAC		0.01831829074	60	117	6	10842								
								Regulation of activated PKA-2p3	REACR-HSA-211 REAC		0.01832260664	50	43	4	10842								
								positive regulation of tyrosine p	GO:0042531	GO:BP	0.01844149649	54	226	7	16178								
								positive regulation of type II int	GO:0032729	GO:BP	0.01844182439	60	133	6	16178								
								antimicrobial humoral response	GO:0019730	GO:BP	0.01881322682	123	65	6	16178								
								TAP complex binding	GO:0062061	GO:MF	0.01913195559	3	70	2	17314								
								skin 1; lymphocytes[Medium]	HPA:0461472	HPA	0.01920359306	574	44	10	11019								
								T cell migration	GO:0072678	GO:BP	0.01921159551	57	215	7	16178								
								protein phosphorylation	GO:0006468	GO:BP	0.01950135626	1051	226	33	16178								
								Abnormal circulating IgG level	HP:0410242	HP	0.01956222834	112	120	12	4958								
								protein-containing complex bind	GO:0048477	GO:MF	0.01979998947	1341	171	29	17314								
								Regulation of ornithine decarbo	REACR-HSA-350 REAC		0.0198505921	51	43	4	10842								
								cellular response to interleukin	GO:0071355	GO:BP	0.02018260167	7	110	3	16178								
								interleukin-9-mediated signaling	GO:0038113	GO:BP	0.02018260167	7	110	3	16178								
								cell motility	GO:0048870	GO:BP	0.020184251	1365	232	40	16178								
								B cell receptor signaling pathwa	GO:0050853	GO:BP	0.02028822382	55	225	7	16178								
								secretory vesicle	GO:0099503	GO:CC	0.02122836889	894	190	24	16860								
								p53-independent G1/S DNA dan	REACR-HSA-696 REAC		0.02142629137	52	43	4	10842								
								p53-independent DNA Damage	REACR-HSA-696 REAC		0.02142629137	52	43	4	10842								
								Ypsu mediated degradation of C	REACR-HSA-180 REAC		0.02142629137	52	43	4	10842								
								Ubiquitin-dependent degradatio	REACR-HSA-758 REAC		0.02142629137	52	43	4	10842								
								GSK3B and BTRCCUL1-mediate	REACR-HSA-976 REAC		0.02142629137	52	43	4	10842								
								Autodegradation of the E3 ubiq	REACR-HSA-349 REAC		0.02142629137	52	43	4	10842								
								Ubiquitin Mediated Degradation	REACR-HSA-696 REAC		0.02142629137	52	43	4	10842								
								thymus; medullary cells[Low]	HPA:0580061	HPA	0.02146840032	27	185	5	11019								
								Inflammatory response pathway	WP:WP453	WP	0.02162830673	30	221	6	8286								
								phosphotyrosine residue bindin	GO:0001784	GO:MF	0.0217495463	40	179	5	17314								
								Factor: ZFP90; motif: NGGAGTTC	TF:M00507	TF	0.0218986319	38	20	3	20045								
								regulation of cellular metabolic	GO:0031323	GO:BP	0.02240946217	5313	213	100	16178								
								positive regulation of leukocyte	GO:0002690	GO:BP	0.02298445232	81	215	8	16178								
								Negative regulation of NOTCH4	REACR-HSA-960 REAC		0.02310880757	53	43	4	10842								
								Regulation of Apoptosis	REACR-HSA-169 REAC		0.02310880757	53	43	4	10842								
								Vif-mediated degradation of AP	REACR-HSA-180 REAC		0.02310880757	53	43	4	10842								
								skin 2; fibrohistiocytic cells[Lo	HPA:0471441	HPA	0.02338680553	1021	99	22	11019								
								regulation of protein metabolic	GO:0051246	GO:BP	0.02353867492	1762	213	45	16178								
								Abnormal B cell count	HP:0010975	HP	0.02395722346	88	131	11	4958								
								positive regulation of tumor nec	GO:1903557	GO:BP	0.02404338317	83	211	8	16178								
								Factor: IRF-7; motif: ANGWGAA	TF:M01884	TF	0.02420961959	10990	61	50	20045								
								granzyne-mediated programmi	GO:0140507	GO:BP	0.02486351888	8	101	3	16178								
								AUF1 (hnRNP D0) binds and des	REACR-HSA-450 REAC		0.02488582787	54	43	4	10842								
								Regulation of RUNX2 expression	REACR-HSA-894 REAC		0.02488582787	54	43	4	10842								
								positive regulation of molecular	GO:0044093	GO:BP	0.02494767769	1054	228	33	16178								
								cell surface pattern recognition	GO:0002752	GO:BP	0.02521921759	61	209	7	16178								
								ABC-type peptide transporter at	GO:0015440	GO:MF	0.02524657329	4	57	2	17314								
								endopeptidase activator activity	GO:0061133	GO:MF	0.02578399083	14	100	3	17314								
								T cell chemotaxis	GO:0010818	GO:BP	0.02632463848	24	215	5	16178								
								Extrafollicular															

Hot Tumor Segment							Hot Immune Segment							Cold Immune Segment									
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								leukocyte chemotaxis	GO:0030595	GO:BP	0.02937294132	200	215	12	16178								
								Factor: RIF-7; motif: AARGGAAA	TF:M03793	TF	0.02996399185	1987	59	18	20045								
								Recurrent viral infections	HP:0004429	HP	0.0300018595	56	139	9	4958								
								T cell receptor and co stimulator	WP:WP2583	WP	0.03020121829	28	158	5	8286								
								Interleukin-37 signaling	REACR-HSA-900	REAC	0.03028530941	21	119	4	10842								
								regulation of CD4-positive, alpha	GO:0043370	GO:BP	0.03042647204	42	210	6	16178								
								granulocyte chemotaxis	GO:0071621	GO:BP	0.03059227243	110	215	9	16178								
								Degradation of DVL	REACR-HSA-464	REAC	0.03081633937	57	43	4	10842								
								Stabilization of p53	REACR-HSA-695	REAC	0.03081633937	57	43	4	10842								
								Golgi apparatus	GO:0005794	GO:CC	0.03160955574	1370	49	13	16860								
								interferon-beta production	GO:0032608	GO:BP	0.03186695921	51	173	6	16178								
								regulation of interferon-beta pr	GO:0032648	GO:BP	0.03186695921	51	173	6	16178								
								response to interleukin-9	GO:0071104	GO:BP	0.03213213143	8	110	3	16178								
								cytoplasmic pattern recognition	GO:0002753	GO:BP	0.03223150733	143	209	10	16178								
								skin 2; fibrohistiocytic cells	q&Mei HPA:0471442	HPA	0.03225913012	833	106	20	11019								
								Factor: AML3; motif: KNKNITYTG	TF:M07124	TF	0.03293172732	1430	136	25	20045								
								Metabolism of polyamines	REACR-HSA-351	REAC	0.03300398109	58	43	4	10842								
								locomotion	GO:0040011	GO:BP	0.03301476684	1002	232	32	16178								
								Factor: RelA-p65; motif: AASTGT	TF:M04849_1	TF	0.03341027465	1190	225	31	20045								
								Interleukin-1 signaling	REACR-HSA-902	REAC	0.03346731592	113	43	5	10842								
								positive regulation of cytokine	GO:0001961	GO:BP	0.0340106276	47	112	5	16178								
								Interleukin-9 signaling	REACR-HSA-898	REAC	0.03459859314	9	110	3	10842								
								Factor: AML1; motif: NYTGTTG	TF:M10052	TF	0.03467470738	1072	136	21	20045								
								extracellular vesicle	GO:1903561	GO:CC	0.03479369803	2131	129	32	16860								
								CD4-positive, CD25-positive, algi	GO:0002361	GO:BP	0.03489336066	7	132	3	16178								
								mononuclear cell migration	GO:0071674	GO:BP	0.03499840997	171	215	11	16178								
								chemotaxis	GO:0006935	GO:BP	0.03509857482	375	223	17	16178								
								taxis	GO:0042330	GO:BP	0.03509857482	375	223	17	16178								
								extracellular organelle	GO:0043230	GO:CC	0.03510406017	2132	129	32	16860								
								extracellular membrane-bound	GO:0065010	GO:CC	0.03510406017	2132	129	32	16860								
								natural killer cell differentiation	GO:0001779	GO:BP	0.03523724816	12	231	4	16178								
								Hh mutants abrogate ligand sec	REACR-HSA-538	REAC	0.03530260564	59	43	4	10842								
								positive regulation of defense re	GO:0002230	GO:BP	0.035393957104	31	174	5	16178								
								Factor: ISGF-3; motif: CAGTTTC	TF:M00258	TF	0.03550274081	839	186	22	20045								
								thymus	HPA:0080000	HPA	0.036380509	30	185	5	11019								
								positive regulation of inflammat	GO:0050729	GO:BP	0.03689402571	118	205	9	16178								
								regulation of cell migration	GO:0030334	GO:BP	0.03729096187	777	232	27	16178								
								Factor: NFYA; motif: RRCCAATCA	TF:M09816_1	TF	0.03744895519	291	4	3	20045								
								Degradation of Gli1 by the pro	REACR-HSA-561	REAC	0.03771561174	60	43	4	10842								
								GLI3 is processed to GLI3R by	th REACR-HSA-561	REAC	0.03771561174	60	43	4	10842								
								Degradation of Gli2 by the pro	REACR-HSA-561	REAC	0.03771561174	60	43	4	10842								
								SCF(Skp2)-mediated degrada	REACR-HSA-187	REAC	0.03771561174	60	43	4	10842								
								Factor: Pax5; motif: RRNRGRNG	TF:M03577	TF	0.0383153246	9029	110	72	20045								
								positive regulation of program	GO:0043068	GO:BP	0.0387193081	401	35	7	16178								
								Activation of NF-kappaB in B	cell REACR-HSA-116	REAC	0.03953342009	67	120	6	10842								
								Defective CTR causes cystic	fib REACR-HSA-567	REAC	0.0402464306	61	43	4	10842								
								regulation of phosphorylation	GO:0042325	GO:BP	0.04057099588	802	226	27	16178								
								negative regulation of apopto	tic GO:0043066	GO:BP	0.04071486464	622	226	23	16178								
								Cellular senescence	KEGG:04218	KEGG	0.04076025825	155	4	20	8484								
								CLECTA (Dectin-1) signaling	REACR-HSA-560	REAC	0.04079830412	97	120	7	10842								
								positive regulation of leukocyte	GO:1902107	GO:BP	0.04087144283	136	226	10	16178								
								positive regulation of hemopo	ie GO:1903708	GO:BP	0.04087144283	136	226	10	16178								
								purine ribonucleoside triphos	phat GO:0035639	GO:MF	0.04094537428	474	176	15	17314								
								regulation of cell motility	GO:2000145	GO:BP	0.04142979457	827	232	28	16178								
								antigen processing and presen	t GO:0002491	GO:BP	0.04188405252	2	76	2	16178								
								myeloid dendritic cell antigen	pr GO:0002469	GO:BP	0.04188405252	2	76	2	16178								
								Interleukin-15 signaling	REACR-HSA-898	REAC	0.04285212382	14	202	4	10842								
								Factor: eIF5; motif: NNNANSAG	TF:M09903	TF	0.04306283543	1277	173	27	20045								
								Interleukin-20 family signal	ing REACR-HSA-885	REAC	0.04363045456	25	211	5	10842								
								negative regulation of viral	geno GO:0045071	GO:BP	0.04450493811	54	173	6	16178								
								Factor: BIF; motif: NNCACTTC	TF:M12540	TF	0.04450701461	1202	226	31	20045								
								Factor: ETSlike; motif: NACTCC	TF:M08881_1	TF	0.04484990884	290	182	12	20045								
								interleukin-27-mediated signa	ling GO:0070106	GO:BP	0.04514374859	6	173	3	16178								
								Cancer immunotherapy by CTL	A WP:WP4582	WP	0.04581948329	14	195	4	8286								
								IL 4 signaling pathway	WP:WP395	WP	0.04584956758	50	211	7	8286								
								tumor necrosis factor-mediate	d GO:0033209	GO:BP	0.04595606057	84	228	8	16178								
								regulation of defense response	GO:0050688	GO:BP	0.0459771724	54	174	6	16178								
								cellular response to interleukin	GO:0071352	GO:BP	0.04795940799	9	110	3	16178								
								interleukin-2-mediated signal	ing GO:0038110	GO:BP	0.04795940799	9	110										

Regulon	MRT1	MRT2	MRT3	MRT4
ARID3A	0.3659140904	0.3478357586	0.4340874254	0.3623685705
ARNT	0.3531736941	0.3865378629	0.4254807621	0.3526542404
ATF1	0.4339132334	0.3514196624	0.3525032411	0.3648480595
ATF2	0.3766410999	0.3538523437	0.4027204156	0.3812925546
ATF4	0.3463458618	0.3317308423	0.4794258219	0.3442089651
ATF6B	0.3145095663	0.3145653718	0.4908665231	0.3398008714
BACH1	0.3019543849	0.546868609	0.2894395618	0.361121646
BCL6B	0.3704581237	0.253183338	0.4591778461	0.3318527586
BCLAF1	0.3663091788	0.3653863649	0.418163309	0.3700519505
BDP1	0.3755155443	0.3539971031	0.4232052746	0.367360839
BHLHE40	0.3102126248	0.4211003669	0.456633552	0.318577593
BHLHE41	0.2273297164	0.4363275708	0.2687913477	0.2678627795
BRCA1	0.393421037	0.3823265955	0.3259416103	0.3826865078
BRF1	0.388479586	0.3318200431	0.4414577721	0.3397040348
BRF2	0.2635076569	0.2746117544	0.278818455	0.2878347606
CEBPB	0.3288800962	0.3376780245	0.4782369761	0.3427487409
CEBPD	0.2973216786	0.5321046151	0.3505788502	0.2905231944
CEBPG	0.3555516356	0.3938961404	0.3931411136	0.3596500509
CEBPZ	0.4121678775	0.3343571987	0.4045831302	0.3328206682
CHD2	0.3609454009	0.3695796593	0.4034821203	0.375830941
CLOCK	0.4094664553	0.3621536101	0.3858384835	0.3581937119
CREB1	0.4056005327	0.3378088453	0.3597130944	0.395287349
CREB3	0.3251722404	0.3222329389	0.4658034645	0.3791477716
CREB3L1	0.3866924016	0.4416902028	0.3087464451	0.369909017
CREB3L2	0.490853906	0.3316033033	0.3255428092	0.3565230273
CTCF	0.3685101517	0.3703307854	0.35717722	0.4000397752
CUX1	0.3498271013	0.4557430652	0.3433117125	0.3667187404
DDIT3	0.3444557269	0.3580535735	0.4671005859	0.3359963185
DMRTA2	0.3454621051	0.3444816799	0.3076166187	0.4541970985
E2F1	0.3965490302	0.3622911033	0.3284806813	0.3661675051
E2F2	0.3906082749	0.3567212632	0.3115917944	0.3824336943

Regulon	MRT1	MRT2	MRT3	MRT4
E2F3	0.4117307029	0.3610521239	0.3377880988	0.410633363
E2F4	0.3740754052	0.3232789698	0.4206955592	0.3089160474
E2F5	0.42322991	0.3279704979	0.3591401096	0.3749474404
E2F6	0.4329310027	0.3760295478	0.349353214	0.3469260313
E2F7	0.3745938357	0.3724459328	0.3324980916	0.4099184548
E2F8	0.3834251684	0.3668463156	0.3214097141	0.3758899425
EGR1	0.3352539787	0.4072568182	0.4335172729	0.3347343485
EGR4	0.3821287626	0.307035334	0.4706308966	0.2966446548
ELF1	0.3127643274	0.3721904071	0.3758659707	0.3981397953
ELK1	0.3531943597	0.3147681479	0.4960529113	0.3181518239
ELK4	0.353745711	0.3752322409	0.4174827549	0.3629687955
EP300	0.381517564	0.3378333259	0.405005501	0.3798307479
ESRRA	0.3237761554	0.3891475034	0.3854841962	0.3238665453
ETS1	0.2888492982	0.5587670345	0.2887356986	0.2818069823
ETV3	0.3433801199	0.4024951834	0.3816480288	0.3408667045
ETV5	0.4288952921	0.3697500459	0.3574250807	0.3423750277
ETV6	0.3827798831	0.3278882821	0.3939836493	0.3964342632
EZH2	0.3712199271	0.4391152863	0.3299529206	0.3659148834
FEV	0.4065012717	0.3665183928	0.3604427689	0.368787479
FOS	0.2908524297	0.5620657599	0.32418161	0.313409913
FOSB	0.3058050276	0.5231478255	0.3356141728	0.324020194
FOSL1	0.3179026206	0.5264850723	0.3330400916	0.3242707815
FOSL2	0.3312631557	0.5059024512	0.3438598921	0.322733998
FOXC1	0.2640643977	0.388010762	0.2882741377	0.3808929542
FOXO1	0.2333521869	0.2519348099	0.3938148829	0.2321105847
FOXI1	0.3182303326	0.3101389155	0.3365116959	0.3060719291
FOXK1	0.3716432248	0.3630899102	0.3950606645	0.3428025288
FOXK2	0.374674628	0.3425191665	0.4224143373	0.3541743985
FOXO1	0.2902172354	0.5663067888	0.2955676726	0.3463460516
FOXO3	0.3418935805	0.353484498	0.4124969933	0.4038311516

Regulon	MRT1	MRT2	MRT3	MRT4
FOXP1	0.3207145933	0.5294728353	0.3194899939	0.3374630852
GABPA	0.3750393936	0.3773917209	0.3863453425	0.3794875783
GABPB1	0.3723715311	0.3563413439	0.3506626655	0.4300733812
GATA3	0.2126205342	0.287146087	0.5364130144	0.3522809463
GLI1	0.4385665849	0.242266462	0.3963326383	0.2612166837
GLIS2	0.3165295188	0.2904568354	0.5314675971	0.3321052783
GMEB1	0.3470318779	0.3404133052	0.4496497948	0.3401295675
GMEB2	0.3426945095	0.3374268277	0.3697842202	0.3086281838
GTF2F1	0.379294169	0.3415378364	0.4142432943	0.3676739485
HAND1	0.3683038047	0.3756097681	0.3703384361	0.365905404
HCFC1	0.3642583285	0.330489587	0.4496002597	0.3541652888
HDAC1	0.2520160065	0.270324947	0.376446109	0.304648844
HDAC2	0.3619244834	0.3400715286	0.4063464865	0.4114109006
HES4	0.3374543156	0.2935933607	0.5512834735	0.3070430585
HIF1A	0.3717419818	0.3674444194	0.405861172	0.3721801537
HMGA2	0.398177842	0.294403746	0.4165269888	0.4089981001
HNF1B	0.3224800883	0.5351117064	0.3184484342	0.3222448605
HOXA10	0.2514447851	0.2490458741	0.4929029526	0.2568006807
HOXA5	0.2472935511	0.2429911883	0.6517274184	0.264672302
HOXA7	0.2794121648	0.2829977525	0.5450306199	0.3228826243
HOXA9	0.3364833876	0.3150666968	0.5128995234	0.3360493952
HOXB3	0.2358103648	0.2920134868	0.3276696762	0.4303100288
HOXB7	0.2823173166	0.294949154	0.2593980991	0.4978607996
HOXC10	0.3341681348	0.3190624388	0.480906823	0.3374158026
HOXC12	0.2940492357	0.2892564432	0.3395220652	0.5686291584
HOXC13	0.3302357708	0.303872326	0.316218784	0.4419124474
HOXC6	0.3443426559	0.3031288781	0.4846452158	0.3464860681
HOXC8	0.2778802687	0.3203781836	0.4579126994	0.3246662724
HOXC9	0.369258062	0.2796290851	0.4769623357	0.3275770743
HSF1	0.3226841731	0.2949539257	0.4548106889	0.322089487

Regulon	MRT1	MRT2	MRT3	MRT4
IKZF1	0.3749140297	0.336983734	0.3771047383	0.3332180001
IRF1	0.3005673936	0.4906736565	0.3801318196	0.2894218174
IRF3	0.3532344481	0.3277482606	0.4751848375	0.3420552702
IRF4	0.2883703736	0.4212530413	0.3173975287	0.2549401901
IRF8	0.3674726734	0.3389788287	0.3568288347	0.3538963324
IRF9	0.3466808039	0.3661470726	0.4649110303	0.3057252096
JUN	0.3448315376	0.3766618502	0.4325202675	0.3593244884
JUNB	0.32299876	0.4145142728	0.4411064422	0.3238682029
JUND	0.3498887125	0.3152537664	0.48769418	0.3457548952
KDM5A	0.379620282	0.3899298049	0.3694849761	0.3858324567
KLF10	0.2853096965	0.4498656223	0.3078222226	0.3523139386
KLF11	0.2818231674	0.3560498435	0.4209541135	0.3278205708
KLF13	0.3256477427	0.3025394068	0.5095462437	0.3607312469
KLF16	0.3390439666	0.3221508896	0.4936735647	0.3395520743
KLF2	0.2846472579	0.4393902749	0.3654165955	0.375085402
KLF3	0.2818030748	0.5389202728	0.3135670794	0.3655795919
KLF5	0.2651362954	0.5540784419	0.3152293892	0.3588101022
KLF6	0.3112143029	0.3588955492	0.5146082774	0.3259676325
LEF1	0.332527218	0.4618346907	0.3266378899	0.3745603678
LHX2	0.3513795459	0.3637794163	0.3378935009	0.4488826611
LHX9	0.2634080525	0.61503215	0.2840563788	0.3018680848
MAFF	0.3422095331	0.3191324356	0.5017264198	0.3334978783
MAFK	0.2966303412	0.3117240748	0.3328576248	0.4062346003
MAZ	0.3471704216	0.3202465933	0.4643766003	0.3669306835
MEF2D	0.3325554214	0.3178262856	0.5146870021	0.3144011791
MGA	0.3899954106	0.353288152	0.3906792118	0.3746311697
MLX	0.3449937397	0.2967272745	0.4268963184	0.3424924937
MSX2	0.2386100565	0.5393566839	0.2564832034	0.290472499
MTA3	0.3813041923	0.309449533	0.3962251839	0.3742687945
MXD1	0.3475848692	0.3650102331	0.4202262602	0.3827156198

Regulon	MRT1	MRT2	MRT3	MRT4
MXI1	0.3382776831	0.3989616947	0.4325284549	0.3370941156
MYBL1	0.3403859753	0.3655282962	0.3274815398	0.4751504429
MYBL2	0.3200336464	0.4970106011	0.2928286227	0.3342146879
MYC	0.3795003202	0.3928512	0.409553848	0.3310417773
MYEF2	0.3433255614	0.3006584326	0.3320754809	0.3621698393
MYF5	0.2877722525	0.4440471562	0.3222828884	0.4457200235
MYF6	0.2634741919	0.5781354856	0.2667846229	0.3361589365
MYOD1	0.3277434987	0.3586916455	0.3306746185	0.4260832229
NFIL3	0.2825620053	0.4774852147	0.3126684616	0.3249357819
NFKB1	0.4093811471	0.3904738171	0.3739601031	0.3400621525
NFKB2	0.3616190426	0.30750004	0.4931935744	0.3080274788
NFYA	0.375382194	0.3403308933	0.4271419271	0.3492263302
NFYB	0.3765178291	0.3430154309	0.3877100118	0.3960180154
NFYC	0.3710794251	0.3342051324	0.4115460931	0.3890596121
NKX25	0.2562375679	0.4856562018	0.3642082167	0.2965753998
NPDC1	0.3700467591	0.2559539237	0.4640120621	0.308727307
NR2C1	0.3595147078	0.3564238691	0.3878515617	0.3690215267
NR2C2	0.383372662	0.3771497087	0.3729973482	0.3860815391
NR2E1	0.2837571521	0.2951884754	0.3548472744	0.5388260332
NRF1	0.3860828552	0.3633148479	0.3684058666	0.4026885126
OVOL2	0.3635665791	0.3461956933	0.3212032028	0.4221600369
PAX2	0.3236419	0.3558141274	0.3288307831	0.4934392844
PBX3	0.3523929122	0.3841363179	0.3520356816	0.4313373871
PHF8	0.3616341216	0.326831704	0.4278139363	0.3484202872
POLE3	0.3562515363	0.3440263119	0.4180159838	0.3771510903
POLE4	0.3320564775	0.3086798394	0.4590895985	0.3298805738
POLR2A	0.3719460826	0.3290440893	0.4495675293	0.3674597773
POLR3G	0.3689612007	0.4272546429	0.3541399127	0.3553322551
PRRX2	0.4485505257	0.3126834798	0.3984088743	0.3197355797
PSMD12	0.3565096582	0.3356145708	0.4377638235	0.3440745111

Regulon	MRT1	MRT2	MRT3	MRT4
RAD21	0.3376567858	0.3951731262	0.3723053344	0.3812986888
RARA	0.295670154	0.4196963777	0.3350725964	0.3422559713
RARG	0.3118206131	0.2888699283	0.49894778	0.3578211096
RB1	0.468632197	0.3300663463	0.3418708986	0.3747122023
RBBP5	0.3336030196	0.3823030517	0.4005446591	0.3620553668
RCOR1	0.3555582512	0.3965316136	0.394043747	0.3771782204
REL	0.3672435902	0.3221737283	0.4737020408	0.3253740294
RELA	0.3338378029	0.3351514217	0.4904956492	0.3324574117
RELB	0.3825106971	0.3690848023	0.4153847482	0.3312592645
REST	0.3563587444	0.329889785	0.4438435173	0.378886281
RFX1	0.2980593434	0.2465301401	0.4136365415	0.2997029844
RFX2	0.368676442	0.4804477701	0.3194628246	0.3464809016
RFX7	0.4047957572	0.3859553131	0.3464942735	0.3857101372
RFXANK	0.2813239882	0.2492710044	0.3944993763	0.2817911477
RORC	0.2733672137	0.2695768282	0.3043245023	0.2717702606
RREB1	0.3742765843	0.37465361	0.3882155031	0.3842274746
RXRA	0.3249943114	0.3296425159	0.4683257136	0.3385194281
RXRB	0.2472448006	0.3161578998	0.3957608296	0.2986490447
SETDB1	0.3468094567	0.3284896224	0.3647997774	0.3523622416
SF1	0.4021083906	0.3329668332	0.363829671	0.3770547526
SIN3A	0.411986094	0.3599535189	0.3663656407	0.3753517459
SIX1	0.2346957313	0.5225330322	0.2779254662	0.442762023
SIX4	0.2567761436	0.5316287134	0.2732021169	0.3844130285
SOX2	0.2953830929	0.2977798928	0.3428027894	0.5593859315
SOX4	0.3483466193	0.3031837778	0.3650568471	0.4950971846
SOX5	0.2575027843	0.2779912072	0.614640343	0.3224322616
SP1	0.3444381514	0.3273618709	0.3636330156	0.4760386261
SP3	0.4154610125	0.3585261603	0.3567195573	0.3902245893
SP4	0.4196226678	0.3724709845	0.3429982601	0.3574178451
SREBF1	0.3559512657	0.3457306373	0.4424151257	0.3696744326

Regulon	MRT1	MRT2	MRT3	MRT4
SREBF2	0.3654333535	0.354186963	0.4029397048	0.3871381203
SRF	0.3387286134	0.3514112436	0.468972537	0.3290243661
STAT1	0.3091734152	0.439061788	0.4329651903	0.3023688531
STAT2	0.3090855275	0.3403091898	0.5156428563	0.3127932074
STAT3	0.3364718269	0.3480702173	0.4254332633	0.33242789
STAT6	0.3198825485	0.3012341904	0.491207245	0.3390251432
TAF1	0.4182946426	0.3635658714	0.3829429745	0.3550843802
TAF7	0.368956089	0.3313528962	0.44874397	0.3517872232
TAL1	0.2992060596	0.4415728478	0.3554657971	0.3162318485
TBX2	0.4081089242	0.2548892735	0.4449659077	0.2887405951
TCF3	0.3374266323	0.2930745633	0.4504693465	0.3146019631
TCF7L2	0.3545621184	0.3650002845	0.3698999333	0.4301817385
TEAD1	0.3372816427	0.4297278659	0.382237854	0.3427404461
TEAD4	0.3403142159	0.3380713786	0.4472039174	0.3854463631
TFDP1	0.4188720688	0.3626073543	0.3501771835	0.3788152218
TGIF2	0.3496265045	0.3027722253	0.4241736568	0.3203860675
THAP11	0.3784146681	0.3382616788	0.4404679478	0.3505906798
TLX2	0.2029822241	0.5850526586	0.2765763659	0.2820794727
TOB2	0.28694815	0.2781894181	0.4076350689	0.3101982405
UBTF	0.3555968585	0.3443120634	0.4173293694	0.3917116877
USF2	0.3589197466	0.3338522242	0.4541016943	0.3527661796
WT1	0.5122130274	0.2970865722	0.343081301	0.3380943656
XBP1	0.3793052653	0.3798536572	0.4101370817	0.3402791304
YY1	0.3701649385	0.3316016954	0.4453170792	0.3694099097
ZBTB7A	0.3357619635	0.3191310718	0.5053937867	0.3330595738
ZBTB7B	0.318631743	0.3354768332	0.4689349625	0.3322788394
ZEB1	0.5239796339	0.3451079202	0.3119689351	0.3303801206
ZFX	0.4128031478	0.3423696601	0.3306015237	0.3858511603
ZFY	0.3286699399	0.3424520954	0.4368652299	0.355599754
ZNF143	0.3809922871	0.3548046208	0.4205620344	0.3403757143

Regulon	MRT1	MRT2	MRT3	MRT4
ZNF160	0.3334246702	0.3806009615	0.3807645258	0.3057476052
ZNF219	0.3280892077	0.2790148654	0.4568531561	0.3253888515
ZNF274	0.3414904956	0.3855808984	0.4108875444	0.3624411187
ZNF467	0.3278276022	0.2848478596	0.5196130621	0.3356282685
ZNF808	0.3160042786	0.282613699	0.3717994039	0.3459794889
ZNF91	0.398057391	0.3790116743	0.3480306806	0.3909692939

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
MRT1	GO:0044782	cilium organization	24/262	397/18866	1.74E-09	5.49E-06	4.97E-06	TBC1D32/SPATA6/RFX3/SPAG17/AHI1/WDR35/CFAP52	24
MRT1	GO:0060271	cilium assembly	23/262	377/18866	3.24E-09	5.49E-06	4.97E-06	TBC1D32/SPATA6/RFX3/SPAG17/AHI1/WDR35/CFAP52	23
MRT1	GO:0007018	microtubule-based process	20/262	368/18866	2.35E-07	0.000243081108	0.000220001016	AGBL4/DLG2/DNAH6/RFX3/SPAG17/WDR35/HYDIN/NF	20
MRT1	GO:0009855	determination of cell fate	12/262	134/18866	3.76E-07	0.000243081108	0.000220001016	TBC1D32/RFX3/AHI1/LRRC6/DYNC2H1/DPCD/HAND2/	12
MRT1	GO:0009799	specification of cell fate	12/262	135/18866	4.08E-07	0.000243081108	0.000220001016	TBC1D32/RFX3/AHI1/LRRC6/DYNC2H1/DPCD/HAND2/	12
MRT1	GO:0007389	pattern specification	22/262	455/18866	4.30E-07	0.000243081108	0.000220001016	ZEB1/WT1/FGFR2/TBC1D32/NR2F2/HOXD10/RFX3/AH	22
MRT1	GO:0007368	determination of cell fate	11/262	125/18866	1.38E-06	0.000667352404	0.000603988552	TBC1D32/RFX3/AHI1/LRRC6/DYNC2H1/DPCD/HAND2/	11
MRT1	GO:0099111	microtubule-based process	13/262	190/18866	2.66E-06	0.001126411987	0.001019461293	AGBL4/DLG2/RFX3/SPAG17/WDR35/LRRC6/DYNC2H1/	13
MRT1	GO:0031503	protein-containing complex	16/262	291/18866	3.35E-06	0.001260726761	0.001141023133	DLG2/GRIP1/CEP112/CALY/NUP153/WDR35/DYNC2H1/	16
MRT1	GO:0001823	mesonephros development	9/262	103/18866	1.35E-05	0.004567148666	0.004133506514	WT1/FGFR2/BCL2/HOXD11/OSR2/GPC3/KIF26B/SMAD	9
MRT1	GO:0061512	protein localization	7/262	61/18866	2.12E-05	0.006516909762	0.00589814147	TBC1D32/WDR35/NPHP4/LRRC6/DYNC2H1/TTC26/TUJ	7
MRT1	GO:0140056	organelle localization	11/262	171/18866	2.80E-05	0.007406243645	0.006703034778	STX12/AHI1/NPHP4/STX2/SNAP25/PRKAR2B/ODF2/CE	11
MRT1	GO:0001654	eye development	17/262	384/18866	2.84E-05	0.007406243645	0.006703034778	ZEB1/WT1/TBC1D32/SIPA1L3/MEGF11/CYP1B1/PDS5E	17
MRT1	GO:0150063	visual system development	17/262	388/18866	3.24E-05	0.007836082125	0.007092060906	ZEB1/WT1/TBC1D32/SIPA1L3/MEGF11/CYP1B1/PDS5E	17
MRT1	GO:0048880	sensory system development	17/262	394/18866	3.92E-05	0.008438999774	0.007637732661	ZEB1/WT1/TBC1D32/SIPA1L3/MEGF11/CYP1B1/PDS5E	17
MRT1	GO:0098840	protein transport	7/262	68/18866	4.33E-05	0.008438999774	0.007637732661	DLG2/WDR35/DYNC2H1/TTC26/IFT74/DYNC2L1/TUB	7
MRT1	GO:0099118	microtubule-based process	7/262	68/18866	4.33E-05	0.008438999774	0.007637732661	DLG2/WDR35/DYNC2H1/TTC26/IFT74/DYNC2L1/TUB	7
MRT1	GO:0022406	membrane docking	11/262	180/18866	4.48E-05	0.008438999774	0.007637732661	STX12/AHI1/NPHP4/STX2/SNAP25/PRKAR2B/ODF2/CE	11
MRT2	GO:0001763	morphogenesis of cell	24/491	201/18866	5.48E-10	2.46E-06	1.93E-06	MSX2/HNF1B/SIX4/SIX1/EPHA2/FGF1/SOCS3/DDR1/M	24
MRT2	GO:0090130	tissue migration	32/491	374/18866	4.05E-09	9.08E-06	7.12E-06	ETS1/FOXP1/PXN/KRT16/EPHA2/ITGB1/FGF1/IQSEC1/	32
MRT2	GO:0010631	epithelial cell migration	31/491	365/18866	8.48E-09	1.07E-05	8.38E-06	ETS1/FOXP1/PXN/KRT16/EPHA2/ITGB1/FGF1/IQSEC1/	31
MRT2	GO:0090132	epithelium migration	31/491	368/18866	1.03E-08	1.07E-05	8.38E-06	ETS1/FOXP1/PXN/KRT16/EPHA2/ITGB1/FGF1/IQSEC1/	31
MRT2	GO:0022604	regulation of cell growth	37/491	499/18866	1.19E-08	1.07E-05	8.38E-06	TLX2/SEMA4B/ACTN4/EZR/NGF/CORO1C/ZSWIM6/MS	37
MRT2	GO:0061138	morphogenesis of cell	21/491	187/18866	1.98E-08	1.31E-05	1.03E-05	MSX2/HNF1B/SIX4/SIX1/EPHA2/FGF1/SOCS3/DDR1/M	21
MRT2	GO:0048732	gland development	34/491	443/18866	2.04E-08	1.31E-05	1.03E-05	ETS1/MSX2/HNF1B/SIX4/SIX1/CDO1/HK2/EPHA2/FGF1/	34
MRT2	GO:0001667	ameboid-type cell motility	35/491	481/18866	4.78E-08	2.55E-05	2.00E-05	ETS1/FOXP1/SEMA4B/SMURF2/PXN/KRT16/EPHA2/IT	35
MRT2	GO:0051384	response to glucose	18/491	147/18866	5.40E-08	2.55E-05	2.00E-05	FOXO1/FOS/FOSL1/FOSB/CDO1/ADAM9/ASS1/BGLAP	18
MRT2	GO:0031960	response to cortisol	19/491	164/18866	5.69E-08	2.55E-05	2.00E-05	FOXO1/FOS/FOSL1/FOSB/CDO1/ADAM9/ASS1/BGLAP	19
MRT2	GO:0035767	endothelial cell cell-cell junction	9/491	32/18866	8.38E-08	3.42E-05	2.68E-05	FGF1/NR4A1/EGR3/FGFR1/NRP1/MET/SEMA5A/VEGF	9
MRT2	GO:0007162	negative regulation of cell growth	26/491	301/18866	9.83E-08	3.67E-05	2.88E-05	ACTN4/CORO2B/PDE3B/CORO1C/ASS1/DUSP1/CD9/NA	26
MRT2	GO:0048545	response to steroid hormone	28/491	346/18866	1.25E-07	4.31E-05	3.38E-05	FOXO1/FOS/FOXP1/FOSL1/FOSB/CDO1/MDM2/ADAM9/	28
MRT2	GO:0060560	developmental growth	22/491	236/18866	2.59E-07	8.29E-05	6.50E-05	HNF1B/SIX4/SIX1/SEMA4B/ITGB1/FGF1/NGF/L1CAM/D	22
MRT2	GO:0051056	regulation of smooth muscle cell growth	26/491	323/18866	3.91E-07	0.000111635369	8.75E-05	MYO9B/ITGB1/IQSEC1/NGF/STARD13/CBL/ARF6/ARHG	26
MRT2	GO:0150115	cell-substrate junction	14/491	102/18866	3.98E-07	0.000111635369	8.75E-05	CORO2B/IQSEC1/CORO1C/LAMC1/S100A10/MMP14/AR	14
MRT2	GO:0007409	axonogenesis	33/491	482/18866	4.72E-07	0.000124442367	9.75E-05	LHX9/SEMA4B/EPHA2/ITGB1/B4GALT5/EZR/NGF/PIK3	33
MRT2	GO:0007160	cell-matrix adhesion	21/491	230/18866	6.82E-07	0.000170017463	0.000133246903	ITGB1/CORO2B/ADAM9/CORO1C/CDK6/EMP2/L1CAM/	21
MRT2	GO:0031589	cell-substrate adhesion	27/491	359/18866	8.90E-07	0.000210244285	0.000164773661	PXN/ACTN4/ITGB1/CORO2B/ADAM9/CORO1C/CDK6/L	27
MRT2	GO:0010810	regulation of cell growth	20/491	217/18866	1.08E-06	0.000243028423	0.000190467403	ACTN4/CORO2B/CORO1C/CDK6/FBLN2/EMP2/S100A1	20
MRT2	GO:0007015	actin filament organization	30/491	434/18866	1.30E-06	0.000264706762	0.000207457255	PXN/ACTN4/MICAL3/CORO2B/EZR/TPM4/CORO1C/CF	30
MRT2	GO:0010632	regulation of epithelial cell growth	24/491	301/18866	1.30E-06	0.000264706762	0.000207457255	ETS1/FOXP1/EPHA2/FGF1/IQSEC1/ADAM9/STARD13/M	24
MRT2	GO:0018108	peptidyl-tyrosine phosphorylation	27/491	374/18866	1.95E-06	0.000380735725	0.000298392032	EPHA2/MAP2K3/EHD4/CBL/LIF/BTC/ERRF1/SOCS3/DI	27
MRT2	GO:0018212	peptidyl-tyrosine phosphorylation	27/491	377/18866	2.27E-06	0.000424452407	0.000332653880	EPHA2/MAP2K3/EHD4/CBL/LIF/BTC/ERRF1/SOCS3/DI	27

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
MRT2	GO:0048008	platelet-derived c	10/491	59/18866	2.60E-06	0.000467420259	0.000366328851	CBL/LOX/CSRN1/TIPARP/TXNIP/NRP1/VEGFA/PLEKH	10
MRT2	GO:0001649	osteoblast differ	20/491	231/18866	2.86E-06	0.000480994113	0.000376967017	MSX2/CEBPD/FHL2/RRAS2/EPHA2/TPM4/JUNB/CDK6/	20
MRT2	GO:0045785	positive regulatio	29/491	428/18866	2.89E-06	0.000480994113	0.000376967017	ETS1/CD70/ADAM9/CD55/SLC7A1/CDK6/LIF/FBLN2/EN	29
MRT2	GO:0043087	regulation of GTF	31/491	481/18866	3.71E-06	0.000587172664	0.000460181781	MYO9B/EPHA2/ITGB1/IQSEC1/STARD13/RGS3/RGS20	31
MRT2	GO:0007565	female pregnanc	18/491	196/18866	3.92E-06	0.000587172664	0.000460181781	FOS/ETS1/FOSL1/FOSB/CAPN2/SMURF2/JUNB/LIF/EN	18
MRT2	GO:1904375	regulation of prot	14/491	123/18866	3.93E-06	0.000587172664	0.000460181781	EPHA2/ITGB1/EZR/MMP14/ARF6/MISF/PRNP/LGALS3/	14
MRT2	GO:0022612	gland morphog	14/491	124/18866	4.32E-06	0.000625552841	0.000490261278	MSX2/EPHA2/FGF1/MSN/DDR1/SNAI2/FGFR1/GLI2/NR	14
MRT2	GO:0072073	kidney epithelium	15/491	142/18866	4.55E-06	0.000635500633	0.00049805761	HNF1B/SIX4/SIX1/FGF1/LIF/FGFR1/STAT1/GLI3/BDNF/	15
MRT2	GO:0001952	regulation of cell-	14/491	125/18866	4.75E-06	0.000635500633	0.00049805761	CORO1C/CDK6/EMP2/S100A10/DDR1/MMP14/RASA1/I	14
MRT2	GO:0072659	protein localizati	22/491	281/18866	4.82E-06	0.000635500633	0.00049805761	EPHA2/ITGB1/EZR/EHD4/STXBP1/EMP2/S100A10/MMF	22
MRT2	GO:0001822	kidney developm	22/491	283/18866	5.40E-06	0.000691963039	0.000542308597	HNF1B/SIX4/SIX1/FGF1/ASS1/LIF/TIPARP/EGR1/FGFR	22
MRT2	GO:0051591	response to cAM	12/491	94/18866	5.82E-06	0.000725547462	0.000568629543	FOS/FOSL1/FOSB/CDO1/EZR/ASS1/PPARGC1B/ZFP36	12
MRT2	GO:1902305	regulation of sod	10/491	65/18866	6.46E-06	0.000782659530	0.000613389687	ACTN4/FXYD6/CNKSR3/PTPN3/FXYD2/ATP1B1/DLG1/	10
MRT2	GO:0010769	regulation of cell	23/491	310/18866	7.18E-06	0.000833636553	0.000653341645	TLX2/SEMA4B/ACTN4/NGF/CORO1C/ZSWIM6/L1CAM/	23
MRT2	GO:0150117	positive regulatio	7/491	29/18866	7.36E-06	0.000833636553	0.000653341645	IQSEC1/S100A10/ARF6/MAPRE2/NRP1/VEGFA/SMAD3	7
MRT2	GO:0150116	regulation of cell-	10/491	66/18866	7.43E-06	0.000833636553	0.000653341645	IQSEC1/CORO1C/S100A10/MMP14/ARF6/MAPRE2/NR	10
MRT2	GO:0072001	renal system dev	22/491	292/18866	8.89E-06	0.000952761631	0.000746702923	HNF1B/SIX4/SIX1/FGF1/ASS1/LIF/TIPARP/EGR1/FGFR	22
MRT2	GO:0001657	ureteric bud deve	12/491	98/18866	9.02E-06	0.000952761631	0.000746702923	HNF1B/SIX4/SIX1/FGF1/FGFR1/GLI3/BDNF/CAT/VEGF/	12
MRT2	GO:0032535	regulation of cell	26/491	383/18866	9.13E-06	0.000952761631	0.000746702923	SEMA4B/EZR/NGF/CFL2/CDHR5/MSN/DSTN/L1CAM/AI	26
MRT2	GO:0072163	mesonephric epit	12/491	99/18866	1.00E-05	0.000997419533	0.000781702428	HNF1B/SIX4/SIX1/FGF1/FGFR1/GLI3/BDNF/CAT/VEGF/	12
MRT2	GO:0072164	mesonephric tub	12/491	99/18866	1.00E-05	0.000997419533	0.000781702428	HNF1B/SIX4/SIX1/FGF1/FGFR1/GLI3/BDNF/CAT/VEGF/	12
MRT2	GO:0060537	muscle tissue de	27/491	409/18866	1.02E-05	0.000997419533	0.000781702428	MYF6/FOS/KLF5/SIX4/SIX1/FHL2/ITGB1/CFL2/LOX/TIP	27
MRT2	GO:1990778	protein localizati	24/491	340/18866	1.06E-05	0.001008098846	0.000790072070	EPHA2/ITGB1/EZR/EHD4/STXBP1/EMP2/S100A10/MMF	24
MRT2	GO:2000649	regulation of sod	9/491	55/18866	1.12E-05	0.001043729195	0.000817996459	ACTN4/FXYD6/CNKSR3/PTPN3/FXYD2/ATP1B1/WNK1/	9
MRT2	GO:2001234	negative regulati	19/491	233/18866	1.20E-05	0.001095773187	0.000858784626	MDM2/TNFRSF10B/MCL1/SHAH2/AATF/LMNA/YBX3/ITF	19
MRT2	GO:0042692	muscle cell differ	26/491	390/18866	1.26E-05	0.001113316072	0.000872533420	MYF6/KLF5/SIX4/SIX1/CAPN2/LDB3/FHL2/MDM2/NFAT	26
MRT2	GO:0060688	regulation of mor	9/491	56/18866	1.30E-05	0.001113316072	0.000872533420	HNF1B/SIX4/SIX1/SNAI2/MAP3K13/FGFR1/SULF1/VEG	9
MRT2	GO:0022407	regulation of cell-	28/491	439/18866	1.33E-05	0.001113316072	0.000872533420	ETS1/CD70/CD55/SLC7A1/ASS1/CD9/CD44/BCL10/EGI	28
MRT2	GO:0048754	branching morph	15/491	155/18866	1.33E-05	0.001113316072	0.000872533420	MSX2/HNF1B/SIX4/SIX1/EPHA2/FGF1/DDR1/MMP14/C	15
MRT2	GO:0000302	response to reac	19/491	235/18866	1.35E-05	0.001113316072	0.000872533420	FOXO1/FOS/ETS1/FOSL1/CAPN2/PXN/MDM2/MMP3/AI	19
MRT2	GO:1903076	regulation of prot	12/491	102/18866	1.36E-05	0.001113316072	0.000872533420	EPHA2/ITGB1/EZR/MMP14/ARF6/PRNP/LGALS3/CLTC/	12
MRT2	GO:0048016	inositol phosphat	9/491	57/18866	1.51E-05	0.001178333381	0.000923489099	FHL2/NFATC2/ITPR3/PRNP/NFATC1/NFAT5/NRG1/HRH	9
MRT2	GO:0001823	mesonephros de	12/491	103/18866	1.51E-05	0.001178333381	0.000923489099	HNF1B/SIX4/SIX1/FGF1/FGFR1/GLI3/BDNF/CAT/VEGF/	12
MRT2	GO:0010634	positive regulatio	16/491	176/18866	1.52E-05	0.001178333381	0.000923489099	ETS1/FOXP1/FGF1/IQSEC1/ADAM9/MAP2K3/ARF6/AN	16
MRT2	GO:0001933	negative regulati	28/491	444/18866	1.63E-05	0.001240987101	0.000972592373	FOXO1/EZR/GADD45A/RGS3/CORO1C/TRIB1/CBL/LIF/	28
MRT2	GO:0042493	response to drug	26/491	397/18866	1.71E-05	0.00127905832	0.001002429732	FOS/HNF1B/FOSL1/FOSB/MDM2/NFATC2/ADAM9/ASS	26
MRT2	GO:0048675	axon extension	13/491	123/18866	1.95E-05	0.001425719855	0.001117372015	SEMA4B/ITGB1/L1CAM/MAP3K13/NRP1/SEMA3C/BDN	13
MRT2	GO:0001655	urogenital system	23/491	330/18866	1.97E-05	0.001425719855	0.001117372015	HNF1B/SIX4/SIX1/FGF1/ASS1/LIF/TIPARP/EGR1/ANXA	23
MRT2	GO:0043542	endothelial cell r	21/491	286/18866	2.09E-05	0.001486528183	0.00116502901	ETS1/FOXP1/PXN/EPHA2/ITGB1/FGF1/S100A2/STARD	21
MRT2	GO:1905330	regulation of mor	16/491	181/18866	2.16E-05	0.0015143089280	0.001186801469	HNF1B/SIX4/FOXP1/SIX1/SMURF2/FGF1/LIF/SNAI2/FG	16
MRT2	GO:0050673	epithelial cell pro	28/491	453/18866	2.35E-05	0.001618895568	0.001268768613	HNF1B/SIX4/SIX1/EPHA2/FGF1/CDK6/LAMC1/ERRFI1/	28
MRT2	GO:0055001	muscle cell deve	16/491	183/18866	2.48E-05	0.001682276663	0.001318441949	MYF6/SIX4/SIX1/LDB3/FHL2/NFATC2/ITGB1/CFL2/LOX	16

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
MRT2	GO:0043547	positive regulatio	26/491	406/18866	2.51E-05	0.001683593129	0.001319473696	MYO9B/EPHA2/ITGB1/IQSEC1/STARD13/RGS3/RGS20	26
MRT2	GO:0030099	myeloid cell diffe	27/491	431/18866	2.59E-05	0.001710908917	0.001340881757	FOS/ETS1/FOXP1/EPHA2/KLF10/PIK3CD/TRIB1/JUNB/	27
MRT2	GO:0044706	multi-multicellula	18/491	226/18866	2.77E-05	0.001802527683	0.001412685656	FOS/ETS1/FOSL1/FOSB/CAPN2/SMURF2/JUNB/LIF/EN	18
MRT2	GO:0042542	response to hydr	14/491	146/18866	2.85E-05	0.0018237422	0.001429311999	FOXO1/ETS1/FOSL1/CAPN2/MDM2/ADAM9/DUSP1/TX	14
MRT2	GO:0050770	regulation of axo	16/491	186/18866	3.02E-05	0.001910164237	0.001497043093	SEMA4B/NGF/ZSWIM6/L1CAM/CRABP2/MAP3K13/NRF	16
MRT2	GO:0048705	skeletal system r	18/491	228/18866	3.12E-05	0.001942068378	0.00152204716	MSX2/SIX4/SIX1/CSRNP1/TIPARP/PPARGC1B/MMP14/	18
MRT2	GO:0007159	leukocyte cell-ce	24/491	364/18866	3.22E-05	0.001955598262	0.001532650866	ETS1/ITGB1/CD70/EZR/CD55/SLC7A1/ASS1/MSN/CD4	24
MRT2	GO:0061387	regulation of exte	12/491	111/18866	3.23E-05	0.001955598262	0.001532650866	SEMA4B/NGF/L1CAM/CRABP2/MAP3K13/NRP1/SEMA	12
MRT2	GO:0051146	striated muscle c	21/491	295/18866	3.30E-05	0.00197492072	0.001547794356	MYF6/KLF5/SIX4/SIX1/CAPN2/LDB3/FHL2/NFATC2/ITG	21
MRT2	GO:0014706	striated muscle ti	25/491	389/18866	3.39E-05	0.001999177211	0.001566804769	MYF6/FOS/KLF5/SIX4/SIX1/FHL2/ITGB1/CFL2/LOX/EG	25
MRT2	GO:0060330	regulation of res	6/491	25/18866	3.50E-05	0.002003033674	0.001569827175	SOCS3/JAK1/STAT1/PARP14/PARP9/JAK2	6
MRT2	GO:0060334	regulation of inte	6/491	25/18866	3.50E-05	0.002003033674	0.001569827175	SOCS3/JAK1/STAT1/PARP14/PARP9/JAK2	6
MRT2	GO:0009612	response to mec	17/491	209/18866	3.53E-05	0.002003033674	0.001569827175	FOS/ETS1/FOSL1/FOSB/TNFRSF10B/MAP3K14/GADD	17
MRT2	GO:0071560	cellular response	19/491	252/18866	3.57E-05	0.002003033674	0.001569827175	FOS/SMURF2/PXN/ADAM9/CBL/LOX/ZFP36L1/CGN/HII	19
MRT2	GO:0030198	extracellular mat	25/491	395/18866	4.35E-05	0.002380591738	0.001865728795	ETS1/CAPN2/MMP3/ITGB1/MMP1/OLFML2A/LAMC1/KL	25
MRT2	GO:0050678	regulation of epit	25/491	395/18866	4.35E-05	0.002380591738	0.001865728795	SIX4/SIX1/FGF1/CDK6/LAMC1/ERRFI1/ZFP36L1/NR4A	25
MRT2	GO:0043062	extracellular stru	25/491	396/18866	4.53E-05	0.002450750238	0.001920713751	ETS1/CAPN2/MMP3/ITGB1/MMP1/OLFML2A/LAMC1/KL	25
MRT2	GO:0071774	response to fibro	14/491	153/18866	4.79E-05	0.002551753652	0.001999872632	FGF1/CBL/IER2/ZFP36L1/NR4A1/CD44/EGR3/HNRNPF	14
MRT2	GO:0046683	response to orga	13/491	134/18866	4.84E-05	0.002551753652	0.001999872632	FOS/FOSL1/FOSB/CDO1/EZR/ASS1/PPARGC1B/ZFP36	13
MRT2	GO:0071559	response to trans	19/491	258/18866	4.92E-05	0.002566749206	0.00201162502	FOS/SMURF2/PXN/ADAM9/CBL/LOX/ZFP36L1/CGN/HII	19
MRT2	GO:0046578	regulation of Ras	16/491	194/18866	5.04E-05	0.002600805195	0.002038315543	MYO9B/ITGB1/IQSEC1/NGF/STARD13/CBL/ARF6/MAP	16
MRT2	GO:0022617	extracellular mat	10/491	82/18866	5.20E-05	0.002634037072	0.00206436019	ETS1/CAPN2/MMP3/MMP1/LAMC1/KLK5/DDR1/MMP14	10
MRT2	GO:0003158	endothelium dev	13/491	135/18866	5.23E-05	0.002634037072	0.00206436019	FOXP1/FGF1/EZR/STARD13/MSN/TJP1/NRP1/MET/VE	13
MRT2	GO:0007044	cell-substrate jun	11/491	99/18866	5.31E-05	0.002645166941	0.002073082944	CORO2B/CORO1C/LAMC1/S100A10/MMP14/NRP1/VE	11
MRT2	GO:1905475	regulation of prot	16/491	195/18866	5.37E-05	0.002645166941	0.002073082944	EPHA2/ITGB1/EZR/MMP14/ARF6/YWHAZ/SFN/PRNP/L	16
MRT2	GO:0038066	p38MAPK casca	8/491	52/18866	5.47E-05	0.002666744686	0.002089993958	EZR/MAP2K3/GADD45A/ZFP36L1/DUSP1/VEGFA/DLG	8
MRT2	GO:1903672	positive regulatio	9/491	67/18866	5.70E-05	0.002722932955	0.002134030098	FGF1/ANXA1/JAK1/TJP1/NRP1/AKT3/S100A1/VEGFA/F	9
MRT2	GO:0002040	sprouting angiog	16/491	196/18866	5.71E-05	0.002722932955	0.002134030098	EPHA2/ITGB1/FGF1/STARD13/NR4A1/EGR3/ANXA1/JA	16
MRT2	GO:0007411	axon guidance	20/491	284/18866	5.88E-05	0.002769872453	0.002170817747	LHX9/SEMA4B/EPHA2/EZR/PIK3CD/RPS6KA5/ZSWIM6	20
MRT2	GO:0008360	regulation of cell	14/491	156/18866	5.93E-05	0.002769872453	0.002170817747	EZR/MSN/ANXA1/RASA1/ATP10A/FGD6/RHOBTB1/PHI	14
MRT2	GO:0097485	neuron projectio	20/491	285/18866	6.18E-05	0.002856623297	0.002238806536	LHX9/SEMA4B/EPHA2/EZR/PIK3CD/RPS6KA5/ZSWIM6	20
MRT2	GO:0050730	regulation of pep	19/491	263/18866	6.37E-05	0.002908035069	0.002279099216	EHD4/CBL/LIF/BTC/ERRFI1/SOCS3/CD44/GPRC5A/PR	19
MRT2	GO:1904377	positive regulatio	9/491	68/18866	6.42E-05	0.002908035069	0.002279099216	EPHA2/ITGB1/EZR/ARF6/PRNP/LGALS3/EPB41L2/PRK	9
MRT2	GO:0071526	semaphorin-plex	7/491	40/18866	6.86E-05	0.003047612927	0.002388489846	SEMA4B/NRP1/SEMA3C/MET/SEMA5A/PLXNA2/SEMA	7
MRT2	GO:1902895	positive regulatio	7/491	40/18866	6.86E-05	0.003047612927	0.002388489846	FOS/ETS1/KLF5/FOSL1/EGR1/SMAD3/NR3C1	7
MRT2	GO:1901888	regulation of cell	16/491	200/18866	7.26E-05	0.003193866143	0.002503112119	SIX4/SIX1/EPHA2/CORO1C/S100A10/MMP14/ARF6/SN	16
MRT2	GO:0006979	response to oxid	27/491	458/18866	7.34E-05	0.003197462734	0.002505930857	FOXO1/FOS/ETS1/FOSL1/CAPN2/PXN/MDM2/MMP3/M	27
MRT2	GO:0042326	negative regulati	28/491	484/18866	7.50E-05	0.003235245854	0.002535542425	FOXO1/EZR/GADD45A/RGS3/CORO1C/TRIB1/CBL/LIF/	28
MRT2	GO:0034329	cell junction asse	26/491	434/18866	7.66E-05	0.003273216219	0.002565300742	SIX4/SIX1/ACTN4/EPHA2/CORO2B/CORO1C/LAMC1/S	26
MRT2	GO:0050772	positive regulatio	10/491	86/18866	7.85E-05	0.003293067837	0.002580858947	NGF/L1CAM/CRABP2/MAP3K13/NRP1/BDNF/SEMA5A/	10
MRT2	GO:1902105	regulation of leuk	20/491	290/18866	7.85E-05	0.003293067837	0.002580858947	FOS/FOXP1/NFATC2/KLF10/TRIB1/CDK6/LIF/BGLAP/PI	20
MRT2	GO:0008361	regulation of cell	15/491	181/18866	8.15E-05	0.003370582663	0.002641609239	SEMA4B/NGF/MSN/L1CAM/CRABP2/KCNMA1/MAP3K1	15

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Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
MRT2	GO:0001503	ossification	24/491	412/18866	0.000218232621	0.006483387676	0.00508119174	MSX2/CEBPD/FHL2/RRAS2/EPHA2/TPM4/KLF10/JUNB	24
MRT2	GO:0007163	establishment of	16/491	220/18866	0.000219929935	0.006490826905	0.005087022048	ITGB1/MSN/LMNA/ARF6/MISP/PARD6B/MAP4/ALPK2/F	16
MRT2	GO:0033628	regulation of cell	7/491	48/18866	0.000226485637	0.006640618113	0.005204417133	EPHA2/PDE3B/ADAM9/LIF/SNAI2/MUC1/WNK1	7
MRT2	GO:0060485	mesenchyme de	19/491	290/18866	0.000228252034	0.00664895211	0.005210948693	MSX2/SIX4/SIX1/SEMA4B/MDM2/ACTG2/CORO1C/ZFF	19
MRT2	GO:0001885	endothelial cell d	8/491	64/18866	0.000244924734	0.007083741734	0.005551704107	EZR/MSN/TJP1/MET/VEGFA/RAPGEF1/VCL/WNT7B	8
MRT2	GO:1901654	response to keto	15/491	200/18866	0.000246336092	0.007083741734	0.005551704107	FOXO1/FOS/FOSL1/FOSB/ASS1/CBL/BGLAP/ERRF1/M	15
MRT2	GO:0097720	calcineurin-medi	7/491	49/18866	0.000258384690	0.007382889954	0.005786153987	FHL2/NFATC2/PRNP/NFATC1/NFAT5/NRG1/LMCD1	7
MRT2	GO:0060445	branching involve	5/491	23/18866	0.000267005945	0.007580940964	0.005941371476	SNAI2/FGFR1/NRP1/SEMA3C/SEMA3A	5
MRT2	GO:0051451	myoblast migrati	4/491	13/18866	0.000268800347	0.007583889043	0.005943681958	SIX4/SIX1/ANXA1/BIN3	4
MRT2	GO:1902107	positive regulatio	13/491	159/18866	0.000273726159	0.007674597195	0.006014772188	FOS/KLF10/TRIB1/LIF/PPARGC1B/ZFP36L1/MMP14/EG	13
MRT2	GO:1903706	regulation of henn	27/491	498/18866	0.000286743733	0.007989642152	0.006261680735	FOS/ETS1/FOXP1/NFATC2/KLF10/TRIB1/CDK6/LIF/BGI	27
MRT2	GO:0008038	neuron recognitic	7/491	50/18866	0.000293799798	0.008085803043	0.00633704441	YWHAZ/DSCAML1/NRP1/BDNF/SEMA5A/RTN4/SEMA3	7
MRT2	GO:0045104	intermediate filan	7/491	50/18866	0.000293799798	0.008085803043	0.00633704441	KRT16/SYNN/DSP/KRT20/NES/ATP8A2/DST	7
MRT2	GO:0060348	bone developme	15/491	204/18866	0.000304933031	0.008240539628	0.00645831531	MSX2/FOXP1/PAPSS2/BGLAP/LOX/MMP14/SH2B3/GLI	15
MRT2	GO:0060541	respiratory syste	15/491	204/18866	0.000304933031	0.008240539628	0.00645831531	SIX4/SIX1/FGF1/ASS1/LIF/LOX/ERRF1/MMP14/YWHAZ	15
MRT2	GO:1903708	positive regulatio	15/491	204/18866	0.000304933031	0.008240539628	0.00645831531	FOS/ETS1/KLF10/TRIB1/LIF/PPARGC1B/ZFP36L1/MMF	15
MRT2	GO:0007265	Ras protein signa	21/491	346/18866	0.000309452544	0.008266829658	0.006478919459	MYO9B/RRAS2/ITGB1/IQSEC1/NGF/STARD13/CBL/ARI	21
MRT2	GO:0036293	response to decre	22/491	371/18866	0.000309591480	0.008266829658	0.006478919459	ETS1/BACH1/CAPN2/ACTN4/MDM2/HK2/CBL/EGR1/ZF	22
MRT2	GO:0001889	liver developmen	12/491	141/18866	0.000322998606	0.008573797318	0.006719497628	HNF1B/FGF1/GNPNAT1/ASS1/ARF6/ANXA1/PTPN3/GL	12
MRT2	GO:2001236	regulation of extr	13/491	162/18866	0.000328447662	0.008585508923	0.006728676304	TNFRSF10B/MCL1/SLAH2/LMNA/ITPRIP/SNAI2/BCL10/I	13
MRT2	GO:0003094	glomerular filtrati	5/491	24/18866	0.000330107587	0.008585508923	0.006728676304	CORO2B/EMP2/TBC1D8B/SULF1/SULF2	5
MRT2	GO:0048864	stem cell develop	9/491	84/18866	0.000332204648	0.008585508923	0.006728676304	SEMA4B/CORO1C/SNAI2/MSI2/NRP1/SEMA3C/SEMA5	9
MRT2	GO:0045103	intermediate filan	7/491	51/18866	0.000333009039	0.008585508923	0.006728676304	KRT16/SYNN/DSP/KRT20/NES/ATP8A2/DST	7
MRT2	GO:1902893	regulation of pri-r	7/491	51/18866	0.000333009039	0.008585508923	0.006728676304	FOS/ETS1/KLF5/FOSL1/EGR1/SMAD3/NR3C1	7
MRT2	GO:0071383	cellular response	15/491	206/18866	0.000338481022	0.008676719249	0.006800160099	FOXO1/FOXP1/ASS1/ERRF1/PPARGC1B/ZFP36L1/NR	15
MRT2	GO:0008544	epidermis develo	26/491	477/18866	0.000340899855	0.00868907244	0.006809841601	MSX2/FOSL2/KRT16/EPHA2/SLC4A7/ADAM9/EMP1/KL	26
MRT2	GO:0010811	positive regulatio	11/491	122/18866	0.000346315124	0.00877722964	0.006878932585	CDK6/FBLN2/EMP2/S100A10/NRP1/VEGFA/ITGA6/SM	11
MRT2	GO:0048846	axon extension in	6/491	37/18866	0.000352992407	0.008846502445	0.0069332234	SEMA4B/NRP1/SEMA3C/SEMA5A/VEGFA/SEMA3A	6
MRT2	GO:1902284	neuron projectio	6/491	37/18866	0.000352992407	0.008846502445	0.0069332234	SEMA4B/NRP1/SEMA3C/SEMA5A/VEGFA/SEMA3A	6
MRT2	GO:0051547	regulation of ker	4/491	14/18866	0.000368607047	0.009186506746	0.007199693205	IQSEC1/ADAM9/ARF6/MAPRE2	4
MRT2	GO:0071496	cellular response	20/491	326/18866	0.000372293467	0.009208675934	0.007217067747	FOXO1/FOS/FOSL1/MDM2/TNFRSF10B/MAP3K14/KLF	20
MRT2	GO:1904888	cranial skeletal s	8/491	68/18866	0.000373602099	0.009208675934	0.007217067747	MSX2/SIX4/SIX1/MMP14/GLI3/TBX15/SMAD3/INSIG1	8
MRT2	GO:0061008	hepaticobiliary sy	12/491	144/18866	0.000391744911	0.009603102037	0.007526189268	HNF1B/FGF1/GNPNAT1/ASS1/ARF6/ANXA1/PTPN3/GL	12
MRT2	GO:0097205	renal filtration	5/491	25/18866	0.000403876427	0.009793457578	0.007675375627	CORO2B/EMP2/TBC1D8B/SULF1/SULF2	5
MRT2	GO:2001026	regulation of end	5/491	25/18866	0.000403876427	0.009793457578	0.007675375627	FGF1/FGFR1/MET/SEMA5A/VEGFA	5
MRT2	GO:0050854	regulation of anti	8/491	69/18866	0.000413139833	0.009964221997	0.007809207938	FOXP1/EZR/BCL10/PRNP/LGALS3/SLC39A10/PRKCH/I	8
MRT3	GO:0009952	anterior/posterior	21/479	219/18866	2.01E-07	0.000897464702	0.000751739751	HXA5/HES4/HXA7/HXA9/HXA4/YY1/HOXC6/MSX	21
MRT3	GO:0034329	cell junction asse	30/479	434/18866	7.77E-07	0.001466544398	0.001228415688	CNTNAP1/LSR/AGRN/HDAC7/TLN1/PDPK1/MYO1C/AC	30
MRT3	GO:0008154	actin polymerizat	20/479	221/18866	9.85E-07	0.001466544398	0.001228415688	WASF2/ARPC5L/MYADM/MYO1C/ACTR3/GRB2/ARPC1	20
MRT3	GO:0032970	regulation of actin	28/479	405/18866	1.81E-06	0.001742180667	0.001459295789	WASF2/RNF207/ARPC5L/CNN2/MYADM/MYH9/MYO1C	28
MRT3	GO:0032271	regulation of prot	20/479	231/18866	1.97E-06	0.001742180667	0.001459295789	WASF2/ARPC5L/MYADM/STMN2/MYO1C/CDKN1B/ACT	20
MRT3	GO:0007015	actin filament org	29/479	434/18866	2.34E-06	0.001742180667	0.001459295789	WASF2/MARCKS/ARPC5L/MYADM/MYO1C/ACTG1/F11	29

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
MRT3	GO:0051258	protein polymeriz	23/479	300/18866	2.77E-06	0.001766048462	0.001479288073	WASF2/ARPC5L/MYADM/STMN2/MYO1C/CDKN1B/ACT	23
MRT3	GO:0016236	macroautophagy	23/479	310/18866	4.79E-06	0.002604636608	0.002181711291	PAFAH1B2/ATP6V0D1/PHF23/RRAGC/RAB1A/BNIP3L/C	23
MRT3	GO:0032922	circadian regulati	10/479	66/18866	5.98E-06	0.002604636608	0.002181711291	HDAC2/ATF4/BHLHE40/ID4/PER1/NAMPT/SIRT1/PPP1	10
MRT3	GO:0048705	skeletal system r	19/479	228/18866	6.18E-06	0.002604636608	0.002181711291	HOXA5/SOX5/HOXA7/MEF2D/HOXA9/HOXA4/GLG1/MS	19
MRT3	GO:1902905	positive regulatio	18/479	208/18866	6.42E-06	0.002604636608	0.002181711291	WASF2/ARPC5L/STMN2/MYO1C/CDKN1B/ACTR3/GRB	18
MRT3	GO:0051495	positive regulatio	19/479	230/18866	7.01E-06	0.00260976596	0.00218600777	WASF2/ARPC5L/STMN2/MYO1C/CDKN1B/ACTR3/GRB	19
MRT3	GO:0043312	neutrophil degrad	30/479	487/18866	7.95E-06	0.002730705052	0.002287309495	PAFAH1B2/CNN2/VAT1/ARL8A/PDAP1/CMTM6/RAP2B/	30
MRT3	GO:0002283	neutrophil activat	30/479	490/18866	8.96E-06	0.002857396788	0.002393429784	PAFAH1B2/CNN2/VAT1/ARL8A/PDAP1/CMTM6/RAP2B/	30
MRT3	GO:0032273	positive regulatio	14/479	137/18866	1.05E-05	0.003090431614	0.002588625809	WASF2/ARPC5L/MYO1C/CDKN1B/ACTR3/GRB2/ARPC	14
MRT3	GO:1902903	regulation of sup	25/479	373/18866	1.11E-05	0.003090431614	0.002588625809	WASF2/ARPC5L/MYADM/STMN2/MYO1C/ACTG1/F11R	25
MRT3	GO:0007623	circadian rhythm	18/479	218/18866	1.23E-05	0.003222137705	0.002698946252	NR2F6/ATF5/HDAC2/ATF4/JUND/BHLHE40/ID4/NR1D2/	18
MRT3	GO:0032956	regulation of acti	24/479	360/18866	1.81E-05	0.004206176325	0.003523202565	WASF2/ARPC5L/MYADM/MYO1C/ACTG1/F11R/ACTR3/	24
MRT3	GO:0043433	negative regulati	16/479	183/18866	1.83E-05	0.004206176325	0.003523202565	GLIS2/SP100/NFKBIL1/HDAC2/CDKN2A/DDIT3/BHLHE	16
MRT3	GO:0045665	negative regulati	18/479	225/18866	1.88E-05	0.004206176325	0.003523202565	REST/STMN2/HDAC2/NR2F1/HEY1/ID4/YWHAH/DDX6/	18
MRT3	GO:0034976	response to endo	21/479	294/18866	2.19E-05	0.004646788072	0.003892270412	SGTB/TLN1/ATP6V0D1/ATF4/DDIT3/CREBRF/SERINC3	21
MRT3	GO:0007043	cell-cell junction	14/479	147/18866	2.34E-05	0.004752718683	0.003981000644	CNTNAP1/LSR/HDAC7/TLN1/MYO1C/ACTG1/F11R/PDC	14
MRT3	GO:0045216	cell-cell junction	17/479	210/18866	2.75E-05	0.005137190484	0.004303044213	CNTNAP1/LSR/HDAC7/TLN1/MYO1C/ACTG1/F11R/PDC	17
MRT3	GO:0008064	regulation of acti	16/479	190/18866	2.91E-05	0.005137190484	0.004303044213	WASF2/ARPC5L/MYADM/MYO1C/ACTR3/GRB2/ARPC1	16
MRT3	GO:0010506	regulation of aut	23/479	347/18866	2.95E-05	0.005137190484	0.004303044213	PAFAH1B2/ATP6V0D1/PHF23/DDIT3/RRAGC/BNIP3L/O	23
MRT3	GO:0110053	regulation of acti	20/479	278/18866	3.09E-05	0.005137190484	0.004303044213	WASF2/ARPC5L/MYADM/MYO1C/ACTG1/F11R/ACTR3/	20
MRT3	GO:0030832	regulation of acti	16/479	191/18866	3.11E-05	0.005137190484	0.004303044213	WASF2/ARPC5L/MYADM/MYO1C/ACTR3/GRB2/ARPC1	16
MRT3	GO:0071453	cellular response	18/479	235/18866	3.37E-05	0.005244685765	0.004393085053	MYC/ATP6V0D1/AK4/ATF4/PGK1/BNIP3L/CBL/P4HB/EN	18
MRT3	GO:0006090	pyruvate metabo	14/479	152/18866	3.41E-05	0.005244685765	0.004393085053	ZBTB7A/PFKFB4/PGK1/PFKP/PGAM1/LDHA/DDIT4/EN	14
MRT3	GO:0048511	rhythmic process	21/479	305/18866	3.76E-05	0.005333574063	0.0044675402	NR2F6/ATF5/HDAC2/ATF4/JUND/BHLHE40/ID4/NR1D2/	21
MRT3	GO:1905475	regulation of prot	16/479	195/18866	4.00E-05	0.005333574063	0.0044675402	ERBB2/ZDHHC7/AP2M1/PDPK1/MYO1C/YWHAH/TMBI	16
MRT3	GO:0071214	cellular response	22/479	331/18866	4.21E-05	0.005333574063	0.0044675402	GATA3/NSMF/CNN2/REST/MYC/TMEM109/F11R/YY1/A	22
MRT3	GO:0104004	cellular response	22/479	331/18866	4.21E-05	0.005333574063	0.0044675402	GATA3/NSMF/CNN2/REST/MYC/TMEM109/F11R/YY1/A	22
MRT3	GO:0003002	regionalization	23/479	355/18866	4.21E-05	0.005333574063	0.0044675402	HOXA5/HES4/HOXA7/HOXA9/HOXA4/YY1/HOXC6/MSX	23
MRT3	GO:0009135	purine nucleoside	13/479	136/18866	4.38E-05	0.005333574063	0.0044675402	ZBTB7A/PFKFB4/MAGI3/AK4/PGK1/PFKP/PGAM1/LDH	13
MRT3	GO:0009179	purine ribonucle	13/479	136/18866	4.38E-05	0.005333574063	0.0044675402	ZBTB7A/PFKFB4/MAGI3/AK4/PGK1/PFKP/PGAM1/LDH	13
MRT3	GO:0036294	cellular response	17/479	218/18866	4.42E-05	0.005333574063	0.0044675402	MYC/AK4/ATF4/PGK1/BNIP3L/CBL/P4HB/ENO1/NAMPT	17
MRT3	GO:0032535	regulation of cell	24/479	383/18866	4.90E-05	0.005752764663	0.004818665138	WASF2/TNFRSF12A/ARPC5L/MYADM/AP2M1/MYO1C/	24
MRT3	GO:0070997	neuron death	23/479	360/18866	5.22E-05	0.005907721509	0.004948461018	GATA3/NSMF/REST/PDPK1/ATF4/DDIT3/KRAS/CBL/CT	23
MRT3	GO:0043392	negative regulati	8/479	53/18866	5.29E-05	0.005907721509	0.004948461018	SP100/HDAC2/MSX1/HEY1/DDIT3/TMSB4X/CPNE1/ID1	8
MRT3	GO:0009185	ribonucleoside di	13/479	139/18866	5.51E-05	0.005946488481	0.004980933241	ZBTB7A/PFKFB4/MAGI3/AK4/PGK1/PFKP/PGAM1/LDH	13
MRT3	GO:0097193	intrinsic apoptotic	20/479	290/18866	5.59E-05	0.005946488481	0.004980933241	NACC2/TMEM109/MSX1/ATF4/DDIT3/ARL6IP5/SERINC	20
MRT3	GO:0010631	epithelial cell mig	23/479	365/18866	6.44E-05	0.006683772282	0.005598501307	GATA3/SP100/HDAC7/MYH9/KANK2/PKN1/PDPK1/ADA	23
MRT3	GO:0090132	epithelium migrat	23/479	368/18866	7.29E-05	0.007394188793	0.006193564633	GATA3/SP100/HDAC7/MYH9/KANK2/PKN1/PDPK1/ADA	23
MRT3	GO:0046031	ADP metabolic p	12/479	124/18866	7.60E-05	0.007542416081	0.00631772366	ZBTB7A/PFKFB4/AK4/PGK1/PFKP/PGAM1/LDHA/DDIT	12
MRT3	GO:1901214	regulation of neu	21/479	321/18866	7.84E-05	0.007608581867	0.006373145841	GATA3/NSMF/REST/PDPK1/ATF4/DDIT3/KRAS/CBL/CT	21
MRT3	GO:0070482	response to oxyg	24/479	396/18866	8.25E-05	0.007608581867	0.006373145841	REST/MYC/HDAC2/ATP6V0D1/CDKN1B/AK4/ATF4/PGK	24
MRT3	GO:0022604	regulation of cell	28/479	499/18866	8.28E-05	0.007608581867	0.006373145841	NSMF/TNFRSF12A/MYADM/KIF1A/MYH9/F11R/RHOB/Y	28

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
MRT3	GO:0071560	cellular response	18/479	252/18866	8.35E-05	0.007608581867	0.006373145841	SOX5/ZBTB7A/GLG1/PDPK1/HDAC2/F11R/ADAM9/CBL	18
MRT3	GO:0043254	regulation of prot	26/479	449/18866	8.91E-05	0.007917522446	0.006631922496	ABCA1/WASF2/ARPC5L/MYADM/STMN2/MYO1C/CDKN	26
MRT3	GO:0019318	hexose metabolic	18/479	254/18866	9.24E-05	0.007917522446	0.006631922496	PFKFB4/GCG/MIDN/ATF4/PGK1/PFKP/PGAM1/ENO1/G	18
MRT3	GO:0090130	tissue migration	23/479	374/18866	9.29E-05	0.007917522446	0.006631922496	GATA3/SP100/HDAC7/MYH9/KANK2/PKN1/PDPK1/ADA	23
MRT3	GO:0071364	cellular response	7/479	43/18866	9.50E-05	0.007917522446	0.006631922496	ERBB2/PDPK1/CBL/ZFP36L2/SOX9/ID1/ZPR1	7
MRT3	GO:0048568	embryonic organ	26/479	451/18866	9.58E-05	0.007917522446	0.006631922496	HOXA5/HOXA7/GATA3/HOXA9/TEAD4/RNF207/HOXA4	26
MRT3	GO:0051100	negative regulati	14/479	169/18866	0.000108325911	0.008794094411	0.007366161948	SP100/HDAC2/MSX1/HEY1/DDIT3/CTSZ/DVL1/TMSB4	14
MRT3	GO:0071559	response to trans	18/479	258/18866	0.000112599242	0.008964303199	0.00750873325	SOX5/ZBTB7A/GLG1/PDPK1/HDAC2/F11R/ADAM9/CBL	18
MRT3	GO:0070932	histone H3 deace	5/479	20/18866	0.000116826836	0.008964303199	0.00750873325	HDAC7/HDAC2/PER1/SIRT1/ATXN3	5
MRT3	GO:0030099	myeloid cell diffe	25/479	431/18866	0.000118114707	0.008964303199	0.00750873325	HOXA5/HOXA7/GATA3/HOXA9/KLF13/ZBTB7A/STAT1/V	25
MRT3	GO:0006006	glucose metaboli	16/479	214/18866	0.000120816230	0.008964303199	0.00750873325	GCG/MIDN/ATF4/PGK1/PFKP/PGAM1/ENO1/GPI/PPP1I	16
MRT3	GO:0042326	negative regulati	27/479	484/18866	0.000121738561	0.008964303199	0.00750873325	MIDN/MYC/MYADM/MLLT1/PKN1/PDPK1/DBNDD2/CDK	27
MRT3	GO:0051656	establishment of	25/479	432/18866	0.000122468643	0.008964303199	0.00750873325	KIF1A/SUN2/MYH9/PDPK1/KIF1C/MYO1C/UBE2B/ACTI	25
MRT3	GO:0030041	actin filament pol	15/479	193/18866	0.000127475141	0.009180266203	0.007689629473	WASF2/ARPC5L/MYADM/MYO1C/ACTR3/GRB2/ARPC1	15
MRT4	GO:0035019	somatic stem cel	5/50	75/18866	1.60E-06	0.002339820651	0.001907791644	SOX2/NR2E1/SOX4/SALL4/PRDM16	5
MRT4	GO:0022604	regulation of cell	9/50	499/18866	5.63E-06	0.004119905933	0.003359198539	NR2E1/TUBB2B/MDK/CDC42EP5/SPARC/SH3D19/MAF	9
MRT4	GO:0042063	gliogenesis	7/50	307/18866	1.55E-05	0.007550180112	0.006156100264	SOX2/NR2E1/SOX4/MDK/CDKN2C/PAX6/ZMIZ1	7

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
innate immune re	GO:0045087	GO:BP	9.36E-17	965	302	57	21031	Cell Cycle	REAC:R-HSA-16	REAC	1.63E-117	677	428	190	10842
Interferon alpha/l	REAC:R-HSA-90	REAC	9.77E-17	71	218	21	10842	mitotic cell cycle	GO:0000278	GO:BP	3.32E-102	895	645	187	21031
Interferon Signali	REAC:R-HSA-91	REAC	6.27E-16	193	218	30	10842	Cell Cycle, Mitoti	REAC:R-HSA-68	REAC	3.85E-99	547	428	160	10842
response to cytol	GO:0034097	GO:BP	2.47E-15	932	302	54	21031	mitotic cell cycle	GO:1903047	GO:BP	2.22E-97	745	645	169	21031
Cytokine Signali	REAC:R-HSA-12	REAC	8.36E-14	719	218	52	10842	chromosome org	GO:0051276	GO:BP	3.69E-89	635	645	151	21031
regulation of immr	GO:0050776	GO:BP	1.31E-13	881	302	50	21031	chromosome seg	GO:0007059	GO:BP	3.35E-81	425	645	122	21031
Factor: IRF-2; m	TF:M09957	TF	3.19E-13	278	316	30	20045	regulation of cell	GO:0010564	GO:BP	2.59E-76	724	645	147	21031
cellular response	GO:0071345	GO:BP	4.35E-13	839	302	48	21031	DNA damage res	GO:0006974	GO:BP	2.10E-70	896	645	155	21031
regulation of res	GO:0002831	GO:BP	6.43E-13	502	302	37	21031	DNA replication	GO:0006260	GO:BP	1.44E-69	281	645	95	21031
response to virus	GO:0009615	GO:BP	1.71E-12	406	302	33	21031	DNA repair	GO:0006281	GO:BP	7.07E-67	604	645	127	21031
Type II interferon	WP:WP619	WP	3.17E-12	37	184	14	8286	nuclear division	GO:0000280	GO:BP	6.56E-66	447	645	111	21031
defense respons	GO:0051607	GO:BP	3.19E-12	312	302	29	21031	chromosomal reg	GO:0098687	GO:CC	9.45E-66	402	652	104	22097
regulation of defe	GO:0031347	GO:BP	8.55E-12	768	302	44	21031	DNA-templated t	GO:0006261	GO:BP	6.23E-65	162	645	74	21031
positive regulatio	GO:0050778	GO:BP	1.89E-11	718	302	42	21031	organelle fission	GO:0048285	GO:BP	6.20E-63	495	645	113	21031
regulation of inn	GO:0045088	GO:BP	2.11E-11	415	302	32	21031	nuclear chromosi	GO:0098813	GO:BP	2.59E-60	318	645	92	21031
Immune respons	WP:WP4197	WP	5.15E-11	22	184	11	8286	condensed chror	GO:0000793	GO:CC	3.48E-59	282	652	85	22097
Factor: IRF-1; m	TF:M07216	TF	9.16E-11	445	316	34	20045	cell cycle phase I	GO:0044774	GO:BP	6.66E-58	537	645	112	21031
Factor: IRF-5; m	TF:M11670	TF	1.74E-10	883	316	48	20045	Cell Cycle Check	REAC:R-HSA-68	REAC	4.85E-57	289	428	92	10842
Factor: IRF-1; m	TF:M09629	TF	5.00E-10	340	316	29	20045	cell division	GO:0051301	GO:BP	1.14E-56	656	645	121	21031
regulation of cyt	GO:0001817	GO:BP	1.02E-09	773	302	41	21031	mitotic nuclear di	GO:0140014	GO:BP	2.62E-56	279	645	84	21031
cytokine product	GO:0001816	GO:BP	1.31E-09	779	302	41	21031	spindle	GO:0005819	GO:CC	1.73E-54	436	652	97	22097
cytokine-mediate	GO:0019221	GO:BP	3.27E-09	499	302	32	21031	Mitotic Prometap	REAC:R-HSA-68	REAC	1.99E-54	199	428	77	10842
interferon-mediat	GO:0140888	GO:BP	5.07E-09	106	302	16	21031	sister chromatid	GO:0000819	GO:BP	5.10E-54	230	645	76	21031
Factor: IRF-7; m	TF:M11679	TF	5.19E-09	634	316	38	20045	mitotic sister chrc	GO:0000070	GO:BP	1.78E-53	189	645	70	21031
Interferon gamm	REAC:R-HSA-87	REAC	6.70E-09	87	218	16	10842	regulation of cell	GO:1901987	GO:BP	1.64E-51	433	645	96	21031
Epstein-Barr viru	KEGG:05169	KEGG	9.11E-09	198	175	22	8484	chromosome, cel	GO:0000775	GO:CC	1.81E-50	259	652	75	22097
Host pathogen in	WP:WP4880	WP	1.14E-08	33	184	11	8286	mitotic cell cycle	GO:0044772	GO:BP	1.41E-48	432	645	93	21031
antigen processi	GO:0019885	GO:BP	1.95E-08	22	302	9	21031	M Phase	REAC:R-HSA-68	REAC	1.09E-47	406	428	97	10842
Factor: IRF-1; m	TF:M04788	TF	4.02E-08	552	316	34	20045	hsa-miR-193b-3p	MIRNA:hsa-miR-	MIRNA	1.45E-45	848	644	144	14819
antigen processi	GO:0002483	GO:BP	4.99E-08	24	302	9	21031	negative regulati	GO:0010948	GO:BP	2.76E-44	302	645	76	21031
response to type	GO:0034340	GO:BP	5.82E-08	88	302	14	21031	centrosome	GO:0005813	GO:CC	9.56E-44	726	652	109	22097
hemopoiesis	GO:0030097	GO:BP	8.06E-08	965	302	43	21031	double-strand br	GO:0006302	GO:BP	1.94E-42	309	645	75	21031
antigen processi	GO:0002474	GO:BP	1.17E-07	36	302	10	21031	condensed chror	GO:0000779	GO:CC	2.00E-42	182	652	59	22097
Factor: IRF-5; m	TF:M11671	TF	1.36E-07	398	316	28	20045	microtubule orga	GO:0005815	GO:CC	1.07E-41	865	652	116	22097
type I interferon-	GO:0060337	GO:BP	2.67E-07	81	302	13	21031	negative regulati	GO:1901988	GO:BP	1.40E-41	260	645	69	21031
Factor: IRF7; m	TF:M04018	TF	3.12E-07	628	316	35	20045	regulation of mitc	GO:0007346	GO:BP	2.89E-41	496	645	91	21031
cellular response	GO:0071357	GO:BP	3.14E-07	82	302	13	21031	regulation of mitc	GO:1901990	GO:BP	4.49E-41	332	645	76	21031
antigen processi	GO:0019883	GO:BP	7.04E-07	31	302	9	21031	positive regulatio	GO:0090068	GO:BP	7.67E-41	257	645	68	21031
Factor: IRF3; m	TF:M04014	TF	7.12E-07	289	316	23	20045	cell cycle checkp	GO:0000075	GO:BP	7.88E-41	197	645	61	21031
Factor: IRF-1; m	TF:M07045	TF	8.18E-07	553	316	32	20045	Retinoblastoma	WP:WP2446	WP	2.33E-40	89	358	48	8286
regulation of herr	GO:1903706	GO:BP	8.59E-07	418	302	26	21031	catalytic activity	GO:0140097	GO:MF	4.39E-40	248	652	67	20212
Antigen Present	REAC:R-HSA-98	REAC	1.56E-06	29	218	9	10842	hsa-miR-215-5p	MIRNA:hsa-miR-	MIRNA	6.26E-40	753	644	128	14819
negative regulati	GO:0002832	GO:BP	1.60E-06	112	302	14	21031	microtubule cyto	GO:0000226	GO:BP	1.06E-39	659	645	102	21031
positive regulatio	GO:0045089	GO:BP	2.41E-06	345	302	23	21031	kinetochore	GO:0000776	GO:CC	3.27E-39	171	652	55	22097
response to decr	GO:0036293	GO:BP	2.50E-06	316	302	22	21031	nuclear chromosi	GO:0000228	GO:CC	3.89E-39	222	652	61	22097
Type I interferon	WP:WP4868	WP	2.69E-06	31	184	9	8286	DNA recombinati	GO:0006310	GO:BP	7.54E-39	334	645	74	21031
negative regulati	GO:0045824	GO:BP	4.18E-06	82	302	12	21031	hsa-miR-192-5p	MIRNA:hsa-miR-	MIRNA	9.20E-39	987	644	146	14819
response to hypc	GO:0001666	GO:BP	6.51E-06	303	302	21	21031	Cell cycle	KEGG:04110	KEGG	2.24E-38	157	308	55	8484
negative regulati	GO:0031348	GO:BP	6.77E-06	247	302	19	21031	negative regulati	GO:0045786	GO:BP	7.36E-38	388	645	78	21031
activation of imm	GO:0002253	GO:BP	7.30E-06	531	302	28	21031	Resolution of Sis	REAC:R-HSA-25	REAC	7.25E-37	123	428	51	10842
positive regulatio	GO:0002833	GO:BP	8.73E-06	369	302	23	21031	regulation of chrc	GO:0051983	GO:BP	6.40E-36	129	645	48	21031
positive regulatio	GO:0031349	GO:BP	1.06E-05	471	302	26	21031	mitotic spindle	GO:0072686	GO:CC	8.52E-35	185	652	53	22097
response to oxyg	GO:0070482	GO:BP	1.26E-05	345	302	22	21031	positive regulatio	GO:0045787	GO:BP	1.54E-34	349	645	71	21031
interferon-beta p	GO:0032608	GO:BP	2.17E-05	59	302	10	21031	DNA strand elong	REAC:R-HSA-68	REAC	3.50E-33	32	428	28	10842
regulation of inte	GO:0032648	GO:BP	2.17E-05	59	302	10	21031	meiotic cell cycle	GO:0051321	GO:BP	4.34E-33	290	645	64	21031
positive regulatio	GO:0001819	GO:BP	2.39E-05	490	302	26	21031	spindle pole	GO:0000922	GO:CC	2.11E-32	177	652	50	22097
Factor: IRF-8; m	TF:M11685_1	TF	2.83E-05	123	316	14	20045	S Phase	REAC:R-HSA-68	REAC	3.81E-32	162	428	53	10842
Factor: STAT2; r	TF:M10080	TF	3.20E-05	352	316	23	20045	DNA replication	WP:WP466	WP	7.87E-32	42	358	31	8286
response to bact	GO:0009617	GO:BP	3.32E-05	720	302	32	21031	spindle organizat	GO:0007051	GO:BP	9.27E-32	205	645	54	21031
Factor: IRF-3; m	TF:M11677	TF	3.99E-05	480	316	27	20045	mitotic cell cycle	GO:0007093	GO:BP	9.47E-32	146	645	47	21031

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
regulation of type I interferon	GO:0032479	GO:BP	4.62E-05	122	302	13	21031	microtubule-based	GO:0007017	GO:BP	1.32E-31	953	645	111	21031
type I interferon	GO:0032606	GO:BP	4.62E-05	122	302	13	21031	Mitotic Metaphase	REAC:R-HSA-25	REAC	1.40E-31	229	428	61	10842
Measles virus inf	WP:WP4630	WP	5.53E-05	136	184	15	8286	regulation of chr	GO:1905818	GO:BP	1.65E-31	74	645	36	21031
cellular response	GO:0036294	GO:BP	6.71E-05	149	302	14	21031	recombinational	GO:0000725	GO:BP	1.94E-31	181	645	51	21031
leukocyte differ	GO:0002521	GO:BP	6.91E-05	627	302	29	21031	chromosome sep	GO:0051304	GO:BP	3.75E-31	81	645	37	21031
Factor: IRF8; mo	TF:M04020_1	TF	7.32E-05	44	316	9	20045	double-strand br	GO:0000724	GO:BP	5.78E-31	176	645	50	21031
mononuclear cell	GO:1903131	GO:BP	7.79E-05	484	302	25	21031	Amplification of	s REAC:R-HSA-14	REAC	8.77E-31	92	428	41	10842
antigen processi	GO:0048002	GO:BP	8.95E-05	68	302	10	21031	Amplification of	t REAC:R-HSA-14	REAC	8.77E-31	92	428	41	10842
Measles	KEGG:05162	KEGG	8.97E-05	138	175	14	8484	Mitotic Anaphase	REAC:R-HSA-68	REAC	1.08E-30	228	428	60	10842
transcription reg	GO:0005667	GO:CC	9.07E-05	518	308	24	22097	negative regulati	GO:1901991	GO:BP	2.58E-30	181	645	50	21031
Factor: IRF-2; m	TF:M11665_1	TF	1.02E-04	259	316	19	20045	DNA IR damage	WP:WP4016	WP	6.33E-30	81	358	39	8286
positive regulati	GO:0032103	GO:BP	1.36E-04	609	302	28	21031	negative regulati	GO:0045930	GO:BP	8.64E-30	232	645	55	21031
Factor: IRF7; mo	TF:M08887_1	TF	1.37E-04	79	316	11	20045	Mitotic Spindle	C REAC:R-HSA-66	REAC	1.21E-29	109	428	43	10842
DNA-binding tra	GO:0001228	GO:MF	1.53E-04	473	310	24	20212	ATP-dependent	t GO:0008094	GO:MF	4.49E-29	123	652	42	20212
2-oxoglutarate-d	GO:0016706	GO:MF	1.62E-04	61	310	9	20212	regulation of DN	GO:0051052	GO:BP	1.72E-28	521	645	78	21031
type II interferon	GO:0060333	GO:BP	1.63E-04	27	302	7	21031	EML4 and NUDC	REAC:R-HSA-96	REAC	1.77E-28	115	428	43	10842
Factor: IRF-1; m	TF:M09956	TF	1.64E-04	324	316	21	20045	Separation of Si	s REAC:R-HSA-24	REAC	1.80E-28	188	428	53	10842
DNA-binding tra	GO:0001216	GO:MF	1.92E-04	479	310	24	20212	replication fork	GO:0005657	GO:CC	1.92E-28	74	652	33	22097
myeloid cell diff	GO:0030099	GO:BP	1.99E-04	437	302	23	21031	RHO GTPases	A REAC:R-HSA-56	REAC	2.41E-28	136	428	46	10842
antigen processi	GO:0019882	GO:BP	2.04E-04	115	302	12	21031	DNA Repair	REAC:R-HSA-73	REAC	4.26E-28	329	428	68	10842
positive regulati	GO:0045597	GO:BP	2.20E-04	864	302	34	21031	regulation of mit	GO:0007088	GO:BP	1.10E-27	118	645	40	21031
negative regulati	GO:0048525	GO:BP	2.39E-04	95	302	11	21031	HDR through Hoi	REAC:R-HSA-56	REAC	2.32E-27	68	428	34	10842
Factor: IRF-9; m	TF:M11681	TF	2.54E-04	103	316	12	20045	regulation of chr	GO:0033044	GO:BP	3.41E-27	248	645	54	21031
cellular response	GO:0071453	GO:BP	2.62E-04	166	302	14	21031	meiotic cell cycle	GO:1903046	GO:BP	4.84E-27	219	645	51	21031
cellular response	GO:0071456	GO:BP	2.84E-04	142	302	13	21031	DNA replication	KEGG:03030	KEGG	1.81E-26	36	308	25	8484
negative regulati	GO:0002683	GO:BP	4.72E-04	495	302	24	21031	DNA Double-Str	REAC:R-HSA-56	REAC	7.18E-26	168	428	48	10842
regulation of leuk	GO:1902105	GO:BP	4.92E-04	323	302	19	21031	DNA geometric	c GO:0032392	GO:BP	7.78E-26	86	645	34	21031
Coronavirus dise	KEGG:05171	KEGG	5.40E-04	231	175	17	8484	DNA conformatio	GO:0071103	GO:BP	1.38E-25	94	645	35	21031
phagocytic vesic	GO:0030670	GO:CC	5.44E-04	81	308	9	22097	Mitotic G1 phase	REAC:R-HSA-45	REAC	1.48E-25	147	428	45	10842
immune respons	GO:0002757	GO:BP	5.98E-04	465	302	23	21031	Cell cycle	WP:WP179	WP	1.92E-25	120	358	42	8286
leukocyte activat	GO:0045321	GO:BP	6.15E-04	946	302	35	21031	Synthesis of DN/	REAC:R-HSA-66	REAC	4.39E-25	121	428	41	10842
Factor: IRF5; m	TF:M04016	TF	6.81E-04	322	316	20	20045	cell cycle DNA	re GO:0044786	GO:BP	8.81E-25	45	645	26	21031
lymphocyte activ	GO:0046649	GO:BP	7.30E-04	783	302	31	21031	Homology Direct	REAC:R-HSA-56	REAC	1.09E-24	138	428	43	10842
negative regulati	GO:0060339	GO:BP	7.55E-04	21	302	6	21031	regulation of nucl	GO:0051783	GO:BP	1.27E-24	147	645	41	21031
negative regulati	GO:0032102	GO:BP	9.27E-04	405	302	21	21031	Activation of the	REAC:R-HSA-68	REAC	1.63E-24	33	428	24	10842
T cell activation	GO:0042110	GO:BP	1.04E-03	555	302	25	21031	mitotic sister chr	GO:0051306	GO:BP	2.52E-24	62	645	29	21031
adaptive immune	GO:0002460	GO:BP	1.13E-03	375	302	20	21031	Activation of ATR	REAC:R-HSA-17	REAC	2.62E-24	37	428	25	10842
Factor: IRF-3; m	TF:M11676	TF	1.13E-03	566	316	27	20045	meiotic nuclear	d GO:0140013	GO:BP	3.26E-24	197	645	46	21031
negative regulati	GO:0050777	GO:BP	1.21E-03	188	302	14	21031	non-membrane-t	GO:0140694	GO:BP	5.69E-24	409	645	64	21031
Factor: IRF7; mo	TF:M00772_1	TF	1.22E-03	60	316	9	20045	G2/M Checkpoint	REAC:R-HSA-66	REAC	6.05E-24	167	428	46	10842
regulation of cell	GO:0060284	GO:BP	1.38E-03	849	302	32	21031	regulation of sist	GO:0033045	GO:BP	7.97E-24	104	645	35	21031
Factor: IRF-5; m	TF:M11673	TF	1.42E-03	61	316	9	20045	catalytic activity	/ GO:0140640	GO:MF	8.12E-24	623	652	80	20212
peptide antigen	t GO:0042605	GO:MF	1.43E-03	42	310	7	20212	G1/S Transition	REAC:R-HSA-66	REAC	1.10E-23	130	428	41	10842
Factor: IRF-7; m	TF:M00453_1	TF	1.47E-03	338	316	20	20045	regulation of mit	GO:0010965	GO:BP	1.23E-23	59	645	28	21031
Factor: IRF-4; m	TF:M11686_1	TF	1.49E-03	469	316	24	20045	single-stranded	GO:0003697	GO:MF	1.86E-23	121	652	37	20212
immune respons	GO:0002764	GO:BP	1.60E-03	492	302	23	21031	regulation of DN/	GO:0006275	GO:BP	2.59E-23	123	645	37	21031
Osteoclast differ	KEGG:04380	KEGG	1.74E-03	132	175	12	8484	microtubule cyto	GO:1902850	GO:BP	3.49E-23	168	645	42	21031
Factor: IRF-4; m	TF:M04015_1	TF	1.81E-03	171	316	14	20045	spindle assembly	GO:0051225	GO:BP	4.39E-23	133	645	38	21031
positive regulati	GO:0032481	GO:BP	2.00E-03	73	302	9	21031	DNA duplex unwi	GO:0032508	GO:BP	4.78E-23	80	645	31	21031
immune effector	GO:0002252	GO:BP	2.14E-03	698	302	28	21031	metaphase/anap	GO:0007091	GO:BP	4.99E-23	94	645	33	21031
negative regulati	GO:0045071	GO:BP	2.23E-03	55	302	8	21031	negative regulati	GO:0045839	GO:BP	5.90E-23	56	645	27	21031
negative regulati	GO:0001818	GO:BP	2.24E-03	290	302	17	21031	metaphase chror	GO:0051310	GO:BP	6.34E-23	102	645	34	21031
Hepatitis C	KEGG:05160	KEGG	2.26E-03	158	175	13	8484	negative regulati	GO:0051784	GO:BP	1.24E-22	63	645	28	21031
NOD-like recept	KEGG:04621	KEGG	2.32E-03	182	175	14	8484	Diseases of DNA	REAC:R-HSA-96	REAC	1.42E-22	50	428	27	10842
Factor: IRF-5; m	TF:M11670_1	TF	2.64E-03	34	316	7	20045	metaphase/anap	GO:0044784	GO:BP	1.62E-22	97	645	33	21031
lymphocyte differ	GO:0030098	GO:BP	2.82E-03	434	302	21	21031	centrosome cycle	GO:0007098	GO:BP	1.96E-22	138	645	38	21031
negative regulati	GO:0001960	GO:BP	3.16E-03	77	302	9	21031	ATP-dependent	t GO:0140657	GO:MF	2.25E-22	580	652	75	20212
cellular response	GO:0071346	GO:BP	3.58E-03	124	302	11	21031	HDR through Hoi	REAC:R-HSA-56	REAC	2.57E-22	132	428	40	10842
Herpes simplex	KEGG:05168	KEGG	4.01E-03	506	175	25	8484	negative regulati	GO:0033046	GO:BP	3.38E-22	48	645	25	21031
Influenza A	KEGG:05164	KEGG	4.06E-03	167	175	13	8484	negative regulati	GO:0033048	GO:BP	3.38E-22	48	645	25	21031

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
positive regulatio	GO:0032728	GO:BP	4.12E-03	42	302	7	21031	negative regulati	GO:2000816	GO:BP	3.38E-22	48	645	25	21031
positive regulatio	GO:0045639	GO:BP	4.27E-03	102	302	10	21031	regulation of DN	GO:0090329	GO:BP	3.38E-22	48	645	25	21031
antigen processin	GO:0002428	GO:BP	4.53E-03	16	302	5	21031	negative regulati	GO:0045841	GO:BP	3.38E-22	48	645	25	21031
Kaposi sarcoma- KEGG:05167	KEGG		4.73E-03	194	175	14	8484	DNA integrity che	GO:0031570	GO:BP	3.49E-22	140	645	38	21031
integrated stress	GO:0140467	GO:BP	4.86E-03	43	302	7	21031	regulation of mitc	GO:0033047	GO:BP	5.24E-22	54	645	26	21031
regulation of type	GO:0060338	GO:BP	4.86E-03	43	302	7	21031	Homologous DN/ REAC:R-HSA-56	REAC	6.91E-22	43	428	25	10842	
negative regulati	GO:0060761	GO:BP	4.86E-03	81	302	9	21031	negative regulati	GO:1905819	GO:BP	1.30E-21	50	645	25	21031
RNA polymerase	GO:0090575	GO:CC	4.89E-03	258	308	14	22097	negative regulati	GO:1902100	GO:BP	1.30E-21	50	645	25	21031
T cell differentiati	GO:0030217	GO:BP	5.08E-03	308	302	17	21031	negative regulati	GO:0051985	GO:BP	1.30E-21	50	645	25	21031
Factor: IRF-9; m; TF:M11680	TF		5.30E-03	136	316	12	20045	cell cycle G2/M p	GO:0044839	GO:BP	1.35E-21	154	645	39	21031
regulation of lym	GO:0045619	GO:BP	5.34E-03	213	302	14	21031	microtubule bindi	GO:0008017	GO:MF	1.69E-21	278	652	51	20212
Oncostatin M sig	WP:WP2374	WP	5.45E-03	56	184	8	8286	tubulin binding	GO:0015631	GO:MF	1.79E-21	389	652	60	20212
C-type lectin rec	KEGG:04625	KEGG	5.54E-03	104	175	10	8484	nuclear DNA repl	GO:0033260	GO:BP	2.91E-21	41	645	23	21031
regulation of eryt	GO:0045646	GO:BP	5.71E-03	44	302	7	21031	regulation of mitc	GO:0030071	GO:BP	3.27E-21	90	645	31	21031
Non genomic act	WP:WP4341	WP	5.79E-03	73	184	9	8286	DNA replication ii	GO:0006270	GO:BP	4.96E-21	37	645	22	21031
regulation of mye	GO:0045637	GO:BP	5.95E-03	215	302	14	21031	chromosome loci	GO:0050000	GO:BP	6.80E-21	124	645	35	21031
cellular response	GO:0071347	GO:BP	6.07E-03	106	302	10	21031	mitotic spindle or	GO:0007052	GO:BP	7.41E-21	133	645	36	21031
regulation of lym	GO:0051249	GO:BP	6.76E-03	497	302	22	21031	establishment of	GO:0051303	GO:BP	7.81E-21	116	645	34	21031
dioxygenase acti	GO:0051213	GO:MF	6.97E-03	95	310	9	20212	regulation of met	GO:1902099	GO:BP	1.03E-20	93	645	31	21031
Viral carcinogen	KEGG:05203	KEGG	6.97E-03	201	175	14	8484	Sloping forehead	HP:0000340	HP	1.16E-20	188	231	48	4958
Antigen processi	KEGG:04612	KEGG	8.39E-03	69	175	8	8484	microtubule orga	GO:0031023	GO:BP	1.52E-20	154	645	38	21031
blood vessel mor	GO:0048514	GO:BP	8.71E-03	625	302	25	21031	DNA repair pathw	WP:WP4946	WP	3.71E-20	119	358	37	8286
positive regulatio	GO:0002711	GO:BP	9.19E-03	66	302	8	21031	DNA-templated	GO:0045005	GO:BP	4.83E-20	56	645	25	21031
SARS coronavir	WP:WP4912	WP	9.63E-03	31	184	6	8286	meiosis I cell cyc	GO:0061982	GO:BP	5.12E-20	140	645	36	21031
Factor: ICSBP; n; TF:M00699_1	TF		1.00E-02	41	316	7	20045	Presynaptic phas	REAC:R-HSA-56	REAC	7.47E-20	40	428	23	10842
lymphocyte medi	GO:0002449	GO:BP	1.07E-02	361	302	18	21031	DNA Replication	REAC:R-HSA-68	REAC	8.90E-20	187	428	44	10842
intracellular rece	GO:0030522	GO:BP	1.11E-02	362	302	18	21031	mitotic spindle ch	GO:0071174	GO:BP	1.03E-19	46	645	23	21031
TNF signaling pa	KEGG:04668	KEGG	1.12E-02	113	175	10	8484	spindle assembly	GO:0071173	GO:BP	1.03E-19	46	645	23	21031
hsa-miR-181d-5p	MIRNA:hsa-miR-	MIRNA	1.16E-02	288	290	18	14819	mitotic spindle as	GO:0007094	GO:BP	1.03E-19	46	645	23	21031
cellular response	GO:0071356	GO:BP	1.18E-02	228	302	14	21031	Diseases of DNA	REAC:R-HSA-96	REAC	1.64E-19	41	428	23	10842
blood vessel dev	GO:0001568	GO:BP	1.21E-02	721	302	27	21031	Defective homol	REAC:R-HSA-97	REAC	1.64E-19	41	428	23	10842
Factor: IRF-2; m; TF:M01882	TF		1.21E-02	259	316	16	20045	spindle checkpoi	GO:0031577	GO:BP	1.95E-19	47	645	23	21031
Antiviral mechani	REAC:R-HSA-11	REAC	1.21E-02	78	218	9	10842	DNA helicase act	GO:0003678	GO:MF	1.97E-19	59	652	25	20212
Factor: IRF-4; m; TF:M11687_1	TF		1.24E-02	493	316	23	20045	centriole	GO:0005814	GO:CC	2.01E-19	158	652	36	22097
Class I MHC me	REAC:R-HSA-98	REAC	1.26E-02	380	218	21	10842	attachment of spi	GO:0008608	GO:BP	2.42E-19	53	645	24	21031
Factor: IRF-2; m; TF:M11664_1	TF		1.29E-02	148	316	12	20045	negative regulati	GO:2001251	GO:BP	3.40E-19	95	645	30	21031
erythrocyte hom	GO:0034101	GO:BP	1.34E-02	142	302	11	21031	G2/M transition c	GO:0000086	GO:BP	3.48E-19	138	645	35	21031
regulation of leuk	GO:0002694	GO:BP	1.43E-02	561	302	23	21031	microtubule	GO:0005874	GO:CC	3.18E-18	477	652	59	22097
Human papillom	KEGG:05165	KEGG	1.57E-02	330	175	18	8484	Mitotic G2-G2/M	REAC:R-HSA-45	REAC	6.39E-18	197	428	43	10842
Factor: IRF-5; m; TF:M11672	TF		1.59E-02	126	316	11	20045	protein-DNA com	GO:0071824	GO:BP	7.04E-18	915	645	87	21031
Network map of	WP:WP5115	WP	1.72E-02	217	184	15	8286	Fanconi anemia	KEGG:03460	KEGG	1.50E-17	54	308	23	8484
response to type	GO:0034341	GO:BP	1.75E-02	146	302	11	21031	signal transducti	GO:0042770	GO:BP	2.01E-17	197	645	39	21031
SARS CoV 2 inn	WP:WP5039	WP	1.82E-02	66	184	8	8286	G2/M Transition	REAC:R-HSA-68	REAC	3.14E-17	195	428	42	10842
positive regulatio	GO:0002824	GO:BP	1.85E-02	120	302	10	21031	Lagging Strand	REAC:R-HSA-68	REAC	5.96E-17	20	428	16	10842
Role of hypoxia	WP:WP5373	WP	1.99E-02	50	184	7	8286	ATP hydrolysis a	GO:0016887	GO:MF	6.29E-17	404	652	55	20212
regulation of imm	GO:0002697	GO:BP	2.01E-02	378	302	18	21031	meiosis I	GO:0007127	GO:BP	8.01E-17	131	645	32	21031
Factor: STAT2; n; TF:M09733_1	TF		2.10E-02	368	316	19	20045	DNA damage chr	GO:0000077	GO:BP	8.01E-17	131	645	32	21031
ubiquitin-like prot	GO:0044389	GO:MF	2.14E-02	326	310	16	20212	RHO GTPase Efi	REAC:R-HSA-19	REAC	9.16E-17	319	428	53	10842
LSD1 complex	CORUM:626	CORUM	2.20E-02	14	72	4	3383	single-stranded	GO:0017116	GO:MF	1.25E-16	23	652	16	20212
pattern recogniti	GO:0002221	GO:BP	2.21E-02	241	302	14	21031	regulation of cell	GO:1902749	GO:BP	2.08E-16	116	645	30	21031
Endosomal/Vacu	REAC:R-HSA-12	REAC	2.28E-02	11	218	4	10842	spindle microtub	GO:0005876	GO:CC	2.80E-16	83	652	25	22097
non-canonical NI	GO:0038061	GO:BP	2.31E-02	123	302	10	21031	G1 to S cell cycle	WP:WP45	WP	5.90E-16	64	358	25	8286
side of membran	GO:0098552	GO:CC	2.32E-02	721	308	24	22097	Resolution of D-I	REAC:R-HSA-56	REAC	8.36E-16	34	428	19	10842
angiogenesis	GO:0001525	GO:BP	2.36E-02	538	302	22	21031	Telomere C-strar	REAC:R-HSA-17	REAC	8.36E-16	34	428	19	10842
positive regulatio	GO:0002708	GO:BP	2.48E-02	124	302	10	21031	Factor: E2F-8; m; TF:M11537	TF		1.55E-15	542	676	65	20045
T cell mediated i	GO:0002456	GO:BP	2.48E-02	124	302	10	21031	Resolution of D-I	REAC:R-HSA-56	REAC	1.76E-15	35	428	19	10842
Th17 cell differ	WP:WP5130	WP	2.51E-02	69	184	8	8286	Impaired BRCA2	REAC:R-HSA-97	REAC	1.76E-15	35	428	19	10842
vasculature deve	GO:0001944	GO:BP	2.57E-02	752	302	27	21031	DNA unwinding ii	GO:0006268	GO:BP	1.77E-15	21	645	15	21031
regulation of lym	GO:0002706	GO:BP	2.68E-02	182	302	12	21031	DNA replication	GO:0031261	GO:CC	1.81E-15	13	652	12	22097
Transcriptional c	WP:WP4211	WP	2.70E-02	13	184	4	8286	Pyridoxine-respo	HP:0005522	HP	1.81E-15	23	231	17	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
activation of inna	GO:0002218	GO:BP	2.71E-02	279	302	15	21031	chromosome, tel	GO:0000781	GO:CC	2.38E-15	171	652	33	22097
Photodynamic th	WP:WP3614	WP	2.72E-02	37	184	6	8286	condensed nucle	GO:0000794	GO:CC	2.97E-15	82	652	24	22097
skin 1; cells in ba	HPA:0461391	HPA	2.74E-02	881	216	34	11019	G1/S-Specific Tr	REAC:R-HSA-68	REAC	3.17E-15	27	428	17	10842
positive regulatio	GO:0002821	GO:BP	2.85E-02	126	302	10	21031	Resolution of D-I	REAC:R-HSA-56	REAC	3.17E-15	27	428	17	10842
negative regulati	GO:0044092	GO:BP	3.01E-02	672	302	25	21031	Homologous recc	KEGG:03440	KEGG	3.40E-15	41	308	19	8484
positive regulatio	GO:0001916	GO:BP	3.13E-02	38	302	6	21031	homologous recc	GO:0035825	GO:BP	3.62E-15	67	645	23	21031
viral process	GO:0016032	GO:BP	3.16E-02	429	302	19	21031	AURKA Activatio	REAC:R-HSA-88	REAC	4.07E-15	71	428	25	10842
TNF related weal	WP:WP2036	WP	3.17E-02	38	184	6	8286	Abnormality of ch	HP:0003220	HP	4.16E-15	55	231	24	4958
response to tumc	GO:0034612	GO:BP	3.19E-02	249	302	14	21031	CMG complex	GO:0071162	GO:CC	4.92E-15	11	652	11	22097
antigen processin	GO:0002475	GO:BP	3.21E-02	23	302	5	21031	helicase activity	GO:0004386	GO:MF	5.83E-15	160	652	33	20212
Interferon type I	WP:WP585	WP	3.27E-02	54	184	7	8286	Unwinding of DN	REAC:R-HSA-17	REAC	6.63E-15	12	428	12	10842
viral genome rep	GO:0019079	GO:BP	3.28E-02	128	302	10	21031	Impaired BRCA2	REAC:R-HSA-97	REAC	7.82E-15	24	428	16	10842
cell killing	GO:0001906	GO:BP	3.29E-02	217	302	13	21031	Duodenal stenosis	HP:0100867	HP	8.64E-15	28	231	18	4958
Interleukin-35	Si REAC:R-HSA-89	REAC	3.37E-02	12	218	4	10842	Small intestinal s	HP:0012848	HP	8.64E-15	28	231	18	4958
Toll-like receptor	KEGG:04620	KEGG	3.41E-02	106	175	9	8484	positive regulatio	GO:1901989	GO:BP	9.43E-15	112	645	28	21031
viral life cycle	GO:0019058	GO:BP	3.46E-02	320	302	16	21031	regulation of G2I	GO:0010389	GO:BP	9.96E-15	103	645	27	21031
Signaling by Inte	REAC:R-HSA-44	REAC	3.57E-02	471	218	23	10842	skin 2; cells in ba	HPA:0471391	HPA	1.12E-14	962	442	95	11019
Thymic stromal l	WP:WP2203	WP	3.68E-02	39	184	6	8286	replication fork p	GO:0031297	GO:BP	1.13E-14	49	645	20	21031
Factor: IRF-8; m	TF:M11682_1	TF	3.69E-02	565	316	24	20045	Factor: E2F6; m	TF:M12516_1	TF	1.17E-14	626	676	69	20045
regulation of cytc	GO:0001959	GO:BP	3.70E-02	158	302	11	21031	Chromosome Ma	REAC:R-HSA-73	REAC	1.25E-14	138	428	33	10842
ER-Phagosome	REAC:R-HSA-12	REAC	3.81E-02	90	218	9	10842	Absent testis	HP:0010469	HP	1.79E-14	25	231	17	4958
peptide transfer	GO:1904680	GO:MF	3.85E-02	16	310	4	20212	G1/S transition	GO:0000082	GO:BP	1.99E-14	213	645	37	21031
Signaling by ALK	REAC:R-HSA-97	REAC	4.11E-02	53	218	7	10842	Multiple cafe-au-l	HP:0007565	HP	2.03E-14	64	231	25	4958
Signaling by ALK	REAC:R-HSA-97	REAC	4.11E-02	53	218	7	10842	Defective HDR tr	REAC:R-HSA-97	REAC	2.09E-14	25	428	16	10842
positive regulatio	GO:0061014	GO:BP	4.15E-02	105	302	9	21031	Defective homolo	REAC:R-HSA-97	REAC	2.09E-14	25	428	16	10842
HIF-1 signaling	KEGG:04066	KEGG	4.20E-02	109	175	9	8484	Defective homolo	REAC:R-HSA-97	REAC	2.09E-14	25	428	16	10842
hsa-miR-155-5p	MIRNA:hsa-miR-	MIRNA	4.26E-02	921	290	36	14819	Defective HDR tr	REAC:R-HSA-97	REAC	2.09E-14	25	428	16	10842
response to inter	GO:0070555	GO:BP	4.28E-02	132	302	10	21031	positive regulatio	GO:0051984	GO:BP	2.51E-14	28	645	16	21031
skin 2; lymphocy	HPA:0471472	HPA	4.40E-02	647	216	27	11019	positive regulatio	GO:1901992	GO:BP	2.81E-14	89	645	25	21031
miRNA metabolic	GO:0010586	GO:BP	4.48E-02	106	302	9	21031	cell cycle G1/S p	GO:0044843	GO:BP	3.23E-14	241	645	39	21031
erythrocyte differ	GO:0030218	GO:BP	4.57E-02	133	302	10	21031	Regulation of TP	REAC:R-HSA-68	REAC	3.93E-14	92	428	27	10842
innate immune re	GO:0002758	GO:BP	4.74E-02	258	302	14	21031	Regulation of PLI	REAC:R-HSA-25	REAC	4.78E-14	85	428	26	10842
ER to Golgi trans	GO:0012507	GO:CC	4.81E-02	59	308	6	22097	skin 2; cells in sp	HPA:0471411	HPA	5.27E-14	871	442	88	11019
hsa-miR-375	MIRNA:hsa-miR-	MIRNA	4.90E-02	476	290	23	14819	Abnormal duode	HP:0002246	HP	5.75E-14	86	231	28	4958
								interstrand cross	GO:0036297	GO:BP	6.27E-14	40	645	18	21031
								meiotic chromos	GO:0045132	GO:BP	8.99E-14	93	645	25	21031
								Centrosome mat	REAC:R-HSA-38	REAC	1.07E-13	80	428	25	10842
								Recruitment of m	REAC:R-HSA-38	REAC	1.07E-13	80	428	25	10842
								positive regulatio	GO:1905820	GO:BP	1.13E-13	30	645	16	21031
								Signaling by Rho	REAC:R-HSA-97	REAC	1.33E-13	717	428	77	10842
								Signaling by Rho	REAC:R-HSA-18	REAC	1.37E-13	702	428	76	10842
								regulation of cell	GO:1901976	GO:BP	1.56E-13	48	645	19	21031
								HDR through Sin	REAC:R-HSA-56	REAC	1.82E-13	37	428	18	10842
								DNA mismatch re	WP:WP531	WP	1.86E-13	23	358	15	8286
								Loss of proteins	REAC:R-HSA-38	REAC	2.43E-13	68	428	23	10842
								Loss of Nlp from	REAC:R-HSA-38	REAC	2.43E-13	68	428	23	10842
								testis; preleptot	HPA:0570783	HPA	2.65E-13	751	442	79	11019
								Aplasia/Hypoplas	HP:0010293	HP	3.13E-13	28	231	17	4958
								chromatin binding	GO:0003682	GO:MF	3.21E-13	602	652	62	20212
								damaged DNA bi	GO:0003684	GO:MF	3.29E-13	73	652	22	20212
								Mismatch repair	KEGG:03430	KEGG	3.58E-13	23	308	14	8484
								nuclear body	GO:0016604	GO:CC	3.75E-13	895	652	74	22097
								sister chromatid	GO:0007062	GO:BP	3.86E-13	57	645	20	21031
								Transcriptional R	REAC:R-HSA-37	REAC	4.23E-13	359	428	51	10842
								Leading Strand	REAC:R-HSA-68	REAC	5.61E-13	14	428	12	10842
								Polymerase switc	REAC:R-HSA-68	REAC	5.61E-13	14	428	12	10842
								negative regulati	GO:0010639	GO:BP	5.76E-13	361	645	46	21031
								DNA strand elong	GO:0006271	GO:BP	5.96E-13	15	645	12	21031
								Regulation of sis	WP:WP4240	WP	6.03E-13	14	358	12	8286
								SUMOylation	REAC:R-HSA-28	REAC	6.25E-13	176	428	35	10842

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								centrosome dupli	GO:0051298	GO:BP	6.67E-13	74	645	22	21031
								positive regulatio	GO:0045931	GO:BP	6.72E-13	120	645	27	21031
								Extension of Telc	REAC:R-HSA-18	REAC	7.35E-13	51	428	20	10842
								Recruitment of N	REAC:R-HSA-38	REAC	7.42E-13	94	428	26	10842
								DNA secondary s	GO:0000217	GO:MF	8.82E-13	40	652	17	20212
								Abnormal preputi	HP:0100587	HP	1.13E-12	34	231	18	4958
								Factor: NF-Y; mo	TF:M00209_1	TF	1.24E-12	701	676	70	20045
								Anchoring of the	REAC:R-HSA-56	REAC	1.30E-12	96	428	26	10842
								chromatin organi	GO:0006325	GO:BP	1.40E-12	816	645	72	21031
								Meckel diverticul	HP:0002245	HP	1.60E-12	30	231	17	4958
								Clubbing of toes	HP:0100760	HP	1.60E-12	30	231	17	4958
								attachment of mil	GO:0051315	GO:BP	1.90E-12	24	645	14	21031
								positive regulatio	GO:0051054	GO:BP	2.19E-12	300	645	41	21031
								site of DNA dam	GO:0090734	GO:CC	2.56E-12	118	652	25	22097
								Factor: DP2; mot	TF:M12596_1	TF	5.03E-12	264	676	40	20045
								nuclear replicatio	GO:0043596	GO:CC	5.18E-12	41	652	16	22097
								mitotic DNA integ	GO:0044774	GO:BP	7.21E-12	91	645	23	21031
								G2/M DNA dama	REAC:R-HSA-68	REAC	7.22E-12	94	428	25	10842
								mitotic DNA repli	GO:1902969	GO:BP	7.66E-12	17	645	12	21031
								skin 1; cells in ba	HPA:0461391	HPA	8.75E-12	881	442	84	11019
								SUMO E3 ligase	REAC:R-HSA-31	REAC	8.83E-12	170	428	33	10842
								spindle midzone	GO:0051233	GO:CC	1.77E-11	37	652	15	22097
								lymph node; gerr	HPA:0310433	HPA	1.99E-11	944	442	87	11019
								Sideroblastic ane	HP:0001924	HP	2.65E-11	34	231	17	4958
								mitotic metaphas	GO:0007080	GO:BP	2.76E-11	61	645	19	21031
								mitotic spindle p	GO:0097431	GO:CC	2.85E-11	38	652	15	22097
								Resolution of AP	REAC:R-HSA-11	REAC	2.92E-11	25	428	14	10842
								skin 2; cells in ba	HPA:0471392	HPA	3.16E-11	754	442	75	11019
								outer kinetochore	GO:0000940	GO:CC	3.29E-11	21	652	12	22097
								PCNA-Depender	REAC:R-HSA-56	REAC	3.88E-11	21	428	13	10842
								skin 1; cells in sp	HPA:0461411	HPA	4.77E-11	760	442	75	11019
								Cafe-au-lait spot	HP:0000957	HP	5.60E-11	126	231	30	4958
								G0 and Early G1	REAC:R-HSA-15	REAC	6.10E-11	26	428	14	10842
								Polymerase switc	REAC:R-HSA-17	REAC	6.10E-11	26	428	14	10842
								DNA biosynthetic	GO:0071897	GO:BP	7.57E-11	192	645	31	21031
								mitotic spindle a	GO:0090307	GO:BP	8.66E-11	73	645	20	21031
								SUMOylation of l	REAC:R-HSA-46	REAC	8.83E-11	43	428	17	10842
								Clinodactyly of th	HP:0004209	HP	8.91E-11	402	231	55	4958
								double-strand bre	GO:0000727	GO:BP	9.76E-11	12	645	10	21031
								Deviation of the f	HP:0009179	HP	9.93E-11	403	231	55	4958
								Intrauterine grow	HP:0001511	HP	1.04E-10	608	231	70	4958
								Base excision re	KEGG:03410	KEGG	1.17E-10	44	308	16	8484
								microtubule poly	GO:0031109	GO:BP	1.25E-10	135	645	26	21031
								Factor: E2F-8; m	TF:M11536	TF	1.27E-10	390	676	47	20045
								regulation of mic	GO:0032886	GO:BP	1.37E-10	264	645	36	21031
								Processing of DN	REAC:R-HSA-56	REAC	1.41E-10	97	428	24	10842
								centriole replicat	GO:0007099	GO:BP	1.42E-10	43	645	16	21031
								Polo-like kinase r	REAC:R-HSA-15	REAC	2.04E-10	15	428	11	10842
								Processive synth	REAC:R-HSA-68	REAC	2.04E-10	15	428	11	10842
								reciprocal homol	GO:0140527	GO:BP	2.08E-10	59	645	18	21031
								reciprocal meioti	GO:0007131	GO:BP	2.08E-10	59	645	18	21031
								Chromosome bre	HP:0040012	HP	2.76E-10	38	231	17	4958
								Gastric cancer ne	WP:WP2361	WP	2.88E-10	28	358	14	8286
								DNA nuclease ac	GO:0004536	GO:MF	3.06E-10	62	652	18	20212
								mitotic DNA dam	GO:0044773	GO:BP	3.12E-10	87	645	21	21031
								cytokinesis	GO:0000910	GO:BP	3.13E-10	189	645	30	21031
								kinetochore orga	GO:0051383	GO:BP	3.25E-10	21	645	12	21031
								Abnormal ileum r	HP:0001549	HP	4.69E-10	39	231	17	4958
								DNA polymerase	GO:0042575	GO:CC	6.49E-10	20	652	11	22097
								Myelodysplasia	HP:0002863	HP	6.84E-10	111	231	27	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								polymeric cytoske	GO:0099513	GO:CC	7.56E-10	807	652	63	22097
								ribonucleoside tri	GO:0017111	GO:MF	8.10E-10	734	652	63	20212
								pyrophosphatase	GO:0016462	GO:MF	9.81E-10	794	652	66	20212
								regulation of cyto	GO:0032465	GO:BP	1.02E-09	92	645	21	21031
								hydrolase activity	GO:0016817	GO:MF	1.04E-09	795	652	66	20212
								hydrolase activity	GO:0016818	GO:MF	1.04E-09	795	652	66	20212
								centriole assemb	GO:0098534	GO:BP	1.05E-09	48	645	16	21031
								centromere comp	GO:0034508	GO:BP	1.05E-09	28	645	13	21031
								Upslanted palpet	HP:0000582	HP	1.19E-09	313	231	46	4958
								DNA IR double st	WP:WP3959	WP	1.22E-09	55	358	18	8286
								Clinodactyly	HP:0030084	HP	1.23E-09	551	231	64	4958
								SUMOylation of l	REAC:R-HSA-31	REAC	1.37E-09	72	428	20	10842
								skin 2; cells in sp	HPA:0471412	HPA	1.54E-09	683	442	67	11019
								Abnormality of th	HP:0010460	HP	1.73E-09	555	231	64	4958
								chromatin remod	GO:0006338	GO:BP	1.76E-09	664	645	58	21031
								response to ioniz	GO:0010212	GO:BP	1.94E-09	139	645	25	21031
								Finger clinodacty	HP:0040019	HP	2.37E-09	434	231	55	4958
								inner kinetochore	GO:0000939	GO:CC	2.73E-09	17	652	10	22097
								Abnormal 5th fing	HP:0004207	HP	2.75E-09	490	231	59	4958
								Removal of the F	REAC:R-HSA-69	REAC	3.87E-09	14	428	10	10842
								Arteriovenous m	HP:0100026	HP	3.91E-09	56	231	19	4958
								protein localizat	GO:0034502	GO:BP	4.79E-09	121	645	23	21031
								mitotic recombina	GO:0006312	GO:BP	5.14E-09	25	645	12	21031
								protein-DNA com	GO:0065004	GO:BP	5.14E-09	238	645	32	21031
								midbody	GO:0030496	GO:CC	6.27E-09	206	652	28	22097
								Transcriptional R	REAC:R-HSA-89	REAC	6.57E-09	34	428	14	10842
								Nuclear Envelopi	REAC:R-HSA-29	REAC	6.91E-09	47	428	16	10842
								replisome	GO:0030894	GO:CC	8.66E-09	24	652	11	22097
								DNA damage ser	GO:0140612	GO:MF	1.02E-08	22	652	11	20212
								Regulation of TP	REAC:R-HSA-56	REAC	1.26E-08	160	428	28	10842
								Factor: NF-Y; mo	TF:M07302_1	TF	1.43E-08	196	676	30	20045
								Short palpebral fi	HP:0012745	HP	1.47E-08	116	231	26	4958
								Recognition of DI	REAC:R-HSA-11	REAC	1.65E-08	30	428	13	10842
								Resolution of Abi	REAC:R-HSA-73	REAC	1.67E-08	36	428	14	10842
								skin 1; cells in sp	HPA:0461412	HPA	1.82E-08	592	442	59	11019
								Almond-shaped i	HP:0007874	HP	2.15E-08	54	231	18	4958
								Hypoplasia of the	HP:0003022	HP	2.15E-08	54	231	18	4958
								Gap-filling DNA r	REAC:R-HSA-56	REAC	2.16E-08	25	428	12	10842
								ATP-dependent l	GO:0140664	GO:MF	2.17E-08	18	652	10	20212
								four-way junction	GO:0000400	GO:MF	2.17E-08	18	652	10	20212
								negative regulati	GO:0051053	GO:BP	2.22E-08	142	645	24	21031
								site of double-str	GO:0035861	GO:CC	2.38E-08	87	652	18	22097
								testis; pachytene	HPA:0570763	HPA	2.60E-08	950	442	80	11019
								Abnormality of th	HP:0000415	HP	2.61E-08	128	231	27	4958
								Abnormal uterus	HP:0031105	HP	3.01E-08	148	231	29	4958
								MCM complex	GO:0042555	GO:CC	3.04E-08	11	652	8	22097
								establishment of	GO:0051656	GO:BP	3.09E-08	486	645	46	21031
								negative regulati	GO:1902750	GO:BP	3.63E-08	68	645	17	21031
								nuclease activity	GO:0004518	GO:MF	3.64E-08	214	652	29	20212
								Tracheoesophag	HP:0002575	HP	3.72E-08	94	231	23	4958
								Factor: NFYA; m	TF:M12642_1	TF	4.09E-08	558	676	53	20045
								skin 1; cells in ba	HPA:0461392	HPA	4.30E-08	637	442	61	11019
								regulation of DN	GO:0000018	GO:BP	4.34E-08	134	645	23	21031
								Factor: HMGXB3	TF:M12616_1	TF	5.37E-08	562	676	53	20045
								regulation of G1/	GO:2000045	GO:BP	5.64E-08	161	645	25	21031
								regulation of DN	GO:0006282	GO:BP	5.78E-08	216	645	29	21031
								mitotic cytokinesi	GO:0000281	GO:BP	5.81E-08	90	645	19	21031
								Factor: NF-YC; n	TF:M10006_1	TF	5.88E-08	413	676	44	20045
								DNA Replication	REAC:R-HSA-69	REAC	5.94E-08	159	428	27	10842
								Hypermelanotic r	HP:0001034	HP	6.24E-08	194	231	33	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								chromosome cor	GO:0030261	GO:BP	6.33E-08	44	645	14	21031
								Nuclear Pore Cor	REAC:R-HSA-33	REAC	7.08E-08	33	428	13	10842
								Micrognathia	HP:0000347	HP	7.18E-08	820	231	78	4958
								regulation of microtubule elongation	GO:0070507	GO:BP	7.44E-08	163	645	25	21031
								DNA strand elongation	GO:0022616	GO:BP	7.75E-08	37	645	13	21031
								Aplasia/Hypoplasia	HP:0009118	HP	8.14E-08	822	231	78	4958
								E2F mediated repression	REAC:R-HSA-11	REAC	8.19E-08	22	428	11	10842
								DNA damage response	WP:WP707	WP	8.35E-08	69	358	18	8286
								Deviation of finger	HP:0004097	HP	9.80E-08	518	231	58	4958
								skin 2; lymphocyte	HPA:0471471	HPA	1.04E-07	802	442	70	11019
								ATM signaling pathway	WP:WP2516	WP	1.04E-07	40	358	14	8286
								DNA replication complex	GO:0000076	GO:BP	1.12E-07	19	645	10	21031
								mitotic chromosome	GO:0007076	GO:BP	1.12E-07	19	645	10	21031
								microtubule association	GO:0005875	GO:CC	1.15E-07	159	652	23	22097
								Aplasia/Hypoplasia	HP:0006495	HP	1.17E-07	59	231	18	4958
								Bicornuate uterus	HP:0000813	HP	1.17E-07	52	231	17	4958
								DNA Damage By	REAC:R-HSA-73	REAC	1.23E-07	48	428	15	10842
								nuclear envelope	GO:0005635	GO:CC	1.23E-07	497	652	43	22097
								Factor: NF-YA; nuclear transcription factor	M10005_1	TF	1.38E-07	299	676	36	20045
								Aplasia/Hypoplasia	HP:0009116	HP	1.43E-07	831	231	78	4958
								Abnormality of the heart	HP:0000130	HP	1.53E-07	246	231	37	4958
								DNA endonuclease	GO:0004520	GO:MF	1.53E-07	41	652	13	20212
								Abnormal shape	HP:0200005	HP	1.60E-07	60	231	18	4958
								Cerebral hypoplasia	HP:0006872	HP	1.60E-07	60	231	18	4958
								Hypoplasia of the heart	HP:0007333	HP	1.71E-07	40	231	15	4958
								mismatch repair	GO:0006298	GO:BP	1.83E-07	32	645	12	21031
								Hematological neoplasia	HP:0004377	HP	1.84E-07	296	231	41	4958
								negative regulation of transcription	GO:0010972	GO:BP	1.86E-07	65	645	16	21031
								Mismatch repair	REAC:R-HSA-53	REAC	1.94E-07	14	428	9	10842
								microtubule motor	GO:0003777	GO:MF	1.95E-07	68	652	16	20212
								regulation of DNA replication	GO:0030174	GO:BP	2.19E-07	15	645	9	21031
								protein localization	GO:1903083	GO:BP	2.19E-07	15	645	9	21031
								protein localization	GO:0034501	GO:BP	2.19E-07	15	645	9	21031
								regulation of cell growth	GO:0051302	GO:BP	2.23E-07	185	645	26	21031
								miRNA regulation	WP:WP1530	WP	2.27E-07	73	358	18	8286
								chromosome organization	GO:0070192	GO:BP	2.38E-07	66	645	16	21031
								Deviation of the heart	HP:0009484	HP	2.40E-07	544	231	59	4958
								Slanting of the palate	HP:0200006	HP	2.53E-07	712	231	70	4958
								regulation of chromosome	GO:0060623	GO:BP	2.59E-07	11	645	8	21031
								Factor: NFYA; nuclear transcription factor	M09816_1	TF	2.66E-07	291	676	35	20045
								regulation of cell growth	GO:1902806	GO:BP	2.84E-07	187	645	26	21031
								CENP-H-I complex	CORUM:7394	CORUM	3.21E-07	11	245	9	3383
								Factor: NFYB; nuclear transcription factor	M12643_1	TF	3.22E-07	293	676	35	20045
								Factor: NRF-1; nuclear transcription factor	M02102_1	TF	4.36E-07	667	676	57	20045
								Chromosomal break	HP:0003221	HP	4.45E-07	16	231	10	4958
								Mismatch Repair	REAC:R-HSA-53	REAC	4.67E-07	15	428	9	10842
								Factor: NF-YA; nuclear transcription factor	M02106_1	TF	4.90E-07	225	676	30	20045
								regulation of cell growth	GO:0080135	GO:BP	5.97E-07	512	645	45	21031
								Factor: NF-YB; nuclear transcription factor	M07115	TF	6.25E-07	547	676	50	20045
								Cilium Assembly	REAC:R-HSA-56	REAC	6.61E-07	201	428	29	10842
								regulation of spin	GO:0090231	GO:BP	7.24E-07	22	645	10	21031
								Termination of transcription	REAC:R-HSA-56	REAC	7.28E-07	32	428	12	10842
								Rev-mediated nuclear	REAC:R-HSA-16	REAC	7.28E-07	32	428	12	10842
								skin 2; cells in brain	HPA:0471393	HPA	7.46E-07	296	442	36	11019
								Factor: NF-Y; nuclear transcription factor	M00287_1	TF	7.56E-07	188	676	27	20045
								positive regulation of transcription	GO:0090267	GO:BP	7.57E-07	12	645	8	21031
								Renal hypoplasia	HP:0008678	HP	8.03E-07	349	231	44	4958
								Fanconi Anemia	REAC:R-HSA-67	REAC	8.08E-07	39	428	13	10842
								Translesion synthesis	REAC:R-HSA-11	REAC	8.08E-07	39	428	13	10842
								Oocyte meiosis	KEGG:04114	KEGG	9.27E-07	131	308	21	8484

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								Forearm undergr	HP:0009821	HP	9.30E-07	74	231	19	4958
								response to radi	GO:0009314	GO:BP	1.01E-06	428	645	40	21031
								mitotic G2/M tran	GO:0044818	GO:BP	1.03E-06	53	645	14	21031
								Choanal atresia	HP:0000453	HP	1.03E-06	119	231	24	4958
								Abnormality of th	HP:0008050	HP	1.18E-06	850	231	77	4958
								organelle localiz	GO:0051640	GO:BP	1.20E-06	620	645	50	21031
								microtubule nuck	GO:0007020	GO:BP	1.27E-06	45	645	13	21031
								microtubule polyr	GO:0046785	GO:BP	1.27E-06	95	645	18	21031
								regulation of cenl	GO:0046605	GO:BP	1.35E-06	54	645	14	21031
								regulation of dou	GO:2000779	GO:BP	1.62E-06	133	645	21	21031
								Dual Incision in C	REAC:R-HSA-56	REAC	1.63E-06	41	428	13	10842
								Interactions of R	REAC:R-HSA-17	REAC	1.65E-06	34	428	12	10842
								telomere mainter	GO:0000723	GO:BP	1.71E-06	160	645	23	21031
								Irregular hyperpi	HP:0007400	HP	1.78E-06	231	231	34	4958
								positive regulatio	GO:0090232	GO:BP	1.91E-06	13	645	8	21031
								Regulation of Gl	REAC:R-HSA-17	REAC	2.01E-06	28	428	11	10842
								Defective TPR m	REAC:R-HSA-56	REAC	2.01E-06	28	428	11	10842
								nuclear replisomi	GO:0043601	GO:CC	2.05E-06	22	652	9	22097
								small molecule si	GO:0140299	GO:MF	2.11E-06	41	652	12	20212
								mitotic sister chr	GO:0007064	GO:BP	2.28E-06	31	645	11	21031
								Abnormal trachei	HP:0002778	HP	2.34E-06	165	231	28	4958
								telomere organiz	GO:0032200	GO:BP	2.36E-06	191	645	25	21031
								SUMOylation of t	REAC:R-HSA-32	REAC	2.42E-06	35	428	12	10842
								Factor: NFYA; mi	TF:M07222	TF	2.89E-06	645	676	54	20045
								double-strand bri	GO:0006303	GO:BP	3.05E-06	67	645	15	21031
								NEP/NS2 Interac	REAC:R-HSA-16	REAC	3.12E-06	29	428	11	10842
								Transport of Ribc	REAC:R-HSA-16	REAC	3.12E-06	29	428	11	10842
								Aplasia/hypoplas	HP:0009122	HP	3.16E-06	935	231	81	4958
								Mitotic Telophase	REAC:R-HSA-68	REAC	3.22E-06	13	428	8	10842
								Abnormal morph	HP:0000008	HP	3.27E-06	462	231	51	4958
								Nucleotide excisi	WP:WP4753	WP	3.36E-06	43	358	13	8286
								protein localizat	GO:0071459	GO:BP	3.62E-06	40	645	12	21031
								positive regulatio	GO:1901978	GO:BP	3.62E-06	19	645	9	21031
								CENP-A NAC-C/	CORUM:1179	CORUM	3.67E-06	13	245	9	3383
								DNA synthesize	CORUM:1108	CORUM	3.67E-06	13	245	9	3383
								Kinesins	REAC:R-HSA-98	REAC	3.87E-06	60	428	15	10842
								Aplasia/Hypoplas	HP:0006501	HP	3.92E-06	80	231	19	4958
								CEN complex	CORUM:929	CORUM	3.97E-06	34	245	14	3383
								negative regulati	GO:0045910	GO:BP	4.07E-06	49	645	13	21031
								Transcription of E	REAC:R-HSA-13	REAC	4.08E-06	18	428	9	10842
								spindle elongatio	GO:0051231	GO:BP	4.35E-06	14	645	8	21031
								spindle midzone	GO:0051255	GO:BP	4.35E-06	14	645	8	21031
								Spinal dysraphisi	HP:0010301	HP	4.44E-06	148	231	26	4958
								Macule	HP:0012733	HP	4.49E-06	227	231	33	4958
								Export of Viral R	REAC:R-HSA-16	REAC	4.76E-06	30	428	11	10842
								Simplified gyral p	HP:0009879	HP	4.91E-06	81	231	19	4958
								Factor: alpha-CP	TF:M00687_1	TF	5.32E-06	248	676	30	20045
								Microphthalmia	HP:0000568	HP	5.43E-06	278	231	37	4958
								Telomere Mainte	REAC:R-HSA-15	REAC	5.67E-06	111	428	20	10842
								Abnormal uvula r	HP:0000172	HP	5.80E-06	194	231	30	4958
								Nucleocytoplasm	KEGG:03013	KEGG	5.99E-06	108	308	18	8484
								ATM signaling in	WP:WP3878	WP	6.19E-06	45	358	13	8286
								DNA synthesis in	GO:0000731	GO:BP	6.77E-06	42	645	12	21031
								Transport of Mat	REAC:R-HSA-15	REAC	7.03E-06	38	428	12	10842
								Nuclear import of	REAC:R-HSA-18	REAC	7.12E-06	31	428	11	10842
								Transport of the	REAC:R-HSA-15	REAC	7.12E-06	31	428	11	10842
								Vpr-mediated nui	REAC:R-HSA-18	REAC	7.12E-06	31	428	11	10842
								Mismatch repair	REAC:R-HSA-53	REAC	7.24E-06	14	428	8	10842
								Switching of origi	REAC:R-HSA-68	REAC	8.11E-06	92	428	18	10842
								nuclear pore	GO:0005643	GO:CC	8.60E-06	97	652	16	22097

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								cytoskeleton-dep	GO:0061640	GO:BP	8.66E-06	119	645	19	21031
								Absent earlobe	HP:0000387	HP	8.70E-06	20	231	10	4958
								Toe syndactyly	HP:0001770	HP	8.86E-06	233	231	33	4958
								meiotic cell cycle	GO:0044771	GO:BP	9.07E-06	15	645	8	21031
								Spina bifida	HP:0002414	HP	9.35E-06	132	231	24	4958
								DNA synthesis	CORUM:1111	CORUM	9.62E-06	14	245	9	3383
								DNA synthesis	CORUM:1099	CORUM	9.62E-06	14	245	9	3383
								Transport of Mat	REAC:R-HSA-15	REAC	9.80E-06	39	428	12	10842
								Abnormality of gl	HP:0100887	HP	9.95E-06	310	231	39	4958
								postreplication re	GO:0006301	GO:BP	1.01E-05	35	645	11	21031
								Transport of the	REAC:R-HSA-15	REAC	1.05E-05	32	428	11	10842
								SUMOylation of	REAC:R-HSA-40	REAC	1.05E-05	32	428	11	10842
								regulation of mitc	GO:1903504	GO:BP	1.09E-05	21	645	9	21031
								regulation of mitc	GO:0090266	GO:BP	1.09E-05	21	645	9	21031
								Hydroureter	HP:0000072	HP	1.11E-05	76	231	18	4958
								Abnormal soft pa	HP:0100736	HP	1.14E-05	260	231	35	4958
								Upper limb unde	HP:0009824	HP	1.17E-05	85	231	19	4958
								FA complex (Fan	CORUM:2739	CORUM	1.29E-05	11	245	8	3383
								Nucleotide excisi	WP:WP5114	WP	1.45E-05	74	358	16	8286
								Abnormal size of	HP:0200007	HP	1.46E-05	288	231	37	4958
								positive regulatio	GO:2001252	GO:BP	1.49E-05	110	645	18	21031
								Transcription of	REAC:R-HSA-13	REAC	1.50E-05	15	428	8	10842
								SMC1 SMC3 role	WP:WP5118	WP	1.53E-05	11	358	7	8286
								cytoskeletal motc	GO:0003774	GO:MF	1.60E-05	115	652	18	20212
								Genital neoplasia	HP:0010787	HP	1.63E-05	157	231	26	4958
								mitotic spindle m	GO:0051256	GO:BP	1.67E-05	11	645	7	21031
								regulation of atta	GO:0051988	GO:BP	1.80E-05	22	645	9	21031
								TP53 Regulates	REAC:R-HSA-67	REAC	1.82E-05	49	428	13	10842
								Triphalangeal th	HP:0001199	HP	1.98E-05	70	231	17	4958
								Cohesin complex	WP:WP5117	WP	1.99E-05	34	358	11	8286
								skin 1; lymphocy	HPA:0461471	HPA	2.03E-05	712	442	59	11019
								Interactions of V	REAC:R-HSA-17	REAC	2.16E-05	34	428	11	10842
								Condensation of	REAC:R-HSA-25	REAC	2.20E-05	11	428	7	10842
								negative regulati	GO:0051129	GO:BP	2.28E-05	719	645	52	21031
								Nucleotide excisi	KEGG:03420	KEGG	2.30E-05	61	308	13	8484
								Limb undergrowt	HP:0009826	HP	2.35E-05	242	231	33	4958
								positive regulatio	GO:1902808	GO:BP	2.41E-05	56	645	13	21031
								Abnormal spermi	HP:0008669	HP	2.41E-05	171	231	27	4958
								histone binding	GO:0042393	GO:MF	2.62E-05	251	652	27	20212
								positive regulatio	GO:0045740	GO:BP	2.67E-05	38	645	11	21031
								regulation of cent	GO:0010824	GO:BP	2.78E-05	47	645	12	21031
								regulation of cent	GO:0046599	GO:BP	2.87E-05	23	645	9	21031
								Translesion synt	REAC:R-HSA-11	REAC	2.89E-05	16	428	8	10842
								Abnormal interna	HP:0000812	HP	2.96E-05	522	231	53	4958
								gamma-tubulin b	GO:0043015	GO:MF	2.96E-05	33	652	10	20212
								Factor: NF-Y; mo	TF:M00775_1	TF	3.08E-05	139	676	21	20045
								Mitotic Prophase	REAC:R-HSA-68	REAC	3.12E-05	134	428	21	10842
								Breast carcinoma	HP:0003002	HP	3.14E-05	72	231	17	4958
								Azoospermia	HP:0000027	HP	3.15E-05	140	231	24	4958
								exonuclease acti	GO:0004527	GO:MF	3.18E-05	83	652	15	20212
								transferase com	GO:1990234	GO:CC	3.20E-05	890	652	56	22097
								Abnormal calvari	HP:0002683	HP	3.21E-05	963	231	80	4958
								kinetochore asse	GO:0051382	GO:BP	3.24E-05	17	645	8	21031
								BRAFT complex	CORUM:244	CORUM	3.62E-05	12	245	8	3383
								Transport of Mat	REAC:R-HSA-72	REAC	3.73E-05	80	428	16	10842
								positive regulatio	GO:0010638	GO:BP	3.75E-05	505	645	41	21031
								mitotic spindle	GO:0000022	GO:BP	3.89E-05	12	645	7	21031
								kinesin complex	GO:0005871	GO:CC	4.12E-05	48	652	11	22097
								Factor: TFDP1; n	TF:M09789_1	TF	4.29E-05	182	676	24	20045
								intercellular brid	GO:0045171	GO:CC	4.29E-05	95	652	15	22097

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								Transport of Mat	REAC:R-HSA-15	REAC	4.46E-05	71	428	15	10842
								Abnormality of th	HP:0045058	HP	4.78E-05	224	231	31	4958
								Recurrent urinary	HP:0000010	HP	4.88E-05	154	231	25	4958
								nuclear periphery	GO:0034399	GO:CC	4.90E-05	153	652	19	22097
								Translesion synt	REAC:R-HSA-56	REAC	5.28E-05	17	428	8	10842
								Translesion synt	REAC:R-HSA-56	REAC	5.28E-05	17	428	8	10842
								DNA replication c	GO:0003688	GO:MF	5.45E-05	14	652	7	20212
								positive regulatio	GO:1902751	GO:BP	5.47E-05	32	645	10	21031
								Abnormal testis r	HP:0000035	HP	5.48E-05	974	231	80	4958
								placenta; cytotro	HPA:0381191	HPA	5.60E-05	476	442	44	11019
								Primary microcep	HP:0011451	HP	6.05E-05	75	231	17	4958
								Factor: NRF-1; rr	TF:M10018_1	TF	6.05E-05	863	676	62	20045
								skin 2; langerhan	HPA:0471461	HPA	6.20E-05	789	442	62	11019
								lateral element	GO:0000800	GO:CC	6.20E-05	16	652	7	22097
								positive regulatio	GO:1900087	GO:BP	6.45E-05	41	645	11	21031
								regulation of DN	GO:2000001	GO:BP	6.79E-05	25	645	9	21031
								NS1 Mediated Ef	REAC:R-HSA-16	REAC	7.87E-05	38	428	11	10842
								Progesterone-me	KEGG:04914	KEGG	7.88E-05	102	308	16	8484
								Base excision rej	WP:WP4752	WP	7.97E-05	31	358	10	8286
								Anotia	HP:0009892	HP	8.29E-05	14	231	8	4958
								Primary peritone	HP:0030406	HP	8.29E-05	14	231	8	4958
								Factor: NRF-1; rr	TF:M07052_1	TF	8.78E-05	751	676	56	20045
								Hyperpigmentati	HP:0000953	HP	9.50E-05	322	231	38	4958
								positive regulatio	GO:1901970	GO:BP	9.55E-05	19	645	8	21031
								Aplasia/Hypoplas	HP:0010468	HP	0.000106951603	207	231	29	4958
								regulation of dou	GO:0010569	GO:BP	0.000107384679	74	645	14	21031
								endonuclease ac	GO:0004519	GO:MF	0.000109672641	130	652	18	20212
								Ovarian neoplas	HP:0100615	HP	0.000112814118	78	231	17	4958
								placenta; cytotro	HPA:0381192	HPA	0.000123614015	424	442	40	11019
								Cyclin A/B1/B2 a	REAC:R-HSA-68	REAC	0.000133899001	25	428	9	10842
								skin 1; langerhan	HPA:0461461	HPA	0.000134035258	716	442	57	11019
								Aplasia/hypoplas	HP:0006503	HP	0.000137810737	98	231	19	4958
								Viral Messenger	REAC:R-HSA-16	REAC	0.000140834228	40	428	11	10842
								Prader Willi and	WP:WP3998	WP	0.000143496843	108	358	18	8286
								Cryptorchidism	HP:0000028	HP	0.000144207087	755	231	66	4958
								Abnormal breast	HP:0031093	HP	0.000145529044	441	231	46	4958
								skin 2; lymphocy	HPA:0471472	HPA	0.000147160956	647	442	53	11019
								Translesion Synt	REAC:R-HSA-11	REAC	0.000153079016	19	428	8	10842
								Processive synth	REAC:R-HSA-17	REAC	0.000153079016	19	428	8	10842
								Hypopigmented s	HP:0001053	HP	0.000154445138	119	231	21	4958
								meiotic sister chr	GO:0051177	GO:BP	0.000159780439	14	645	7	21031
								somatic diversific	GO:0002200	GO:BP	0.000181735928	77	645	14	21031
								skin 2; endotheli	HPA:0470201	HPA	0.000184256391	888	442	66	11019
								protein localizati	GO:0072698	GO:BP	0.000186562823	55	645	12	21031
								Neoplasm of the	HP:0100013	HP	0.000193637622	100	231	19	4958
								Abnormality of th	HP:0000769	HP	0.000220016931	447	231	46	4958
								Abnormal carotid	HP:0005344	HP	0.000223208742	91	231	18	4958
								Neural tube defe	HP:0045005	HP	0.000224032537	305	231	36	4958
								Abnormal neural	HP:0410043	HP	0.000224032537	305	231	36	4958
								positive regulatio	GO:0032467	GO:BP	0.000236782665	46	645	11	21031
								homologous chrc	GO:0045143	GO:BP	0.000236931048	67	645	13	21031
								p53 signaling pat	KEGG:04115	KEGG	0.000239515509	74	308	13	8484
								Processing of Ca	REAC:R-HSA-72	REAC	0.000242036106	276	428	30	10842
								annealing activity	GO:0140666	GO:MF	0.000243463383	11	652	6	20212
								Stomach cancer	HP:0012126	HP	0.000246959421	33	231	11	4958
								mitotic G2 DNA c	GO:0007095	GO:BP	0.000257252016	37	645	10	21031
								Unilateral renal a	HP:0000122	HP	0.000266124365	92	231	18	4958
								Primary ovarian i	WP:WP5316	WP	0.000271366071	173	358	23	8286
								Organelle biogen	REAC:R-HSA-18	REAC	0.000281482868	293	428	31	10842
								Abnormality of th	HP:0000864	HP	0.000292277064	407	231	43	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								Craniosynostosis	HP:0001363	HP	0.000294773272	180	231	26	4958
								External ear malf	HP:0008572	HP	0.000297287412	83	231	17	4958
								Orc1 removal fro	REAC:R-HSA-68	REAC	0.000297761469	71	428	14	10842
								skin 1; lymphocy	HPA:0461472	HPA	0.000298185894	574	442	48	11019
								positive regulatio	GO:0010971	GO:BP	0.000298318260	29	645	9	21031
								SUMOylation of f	REAC:R-HSA-45	REAC	0.000314802089	43	428	11	10842
								Meiosis	REAC:R-HSA-15	REAC	0.000323603810	116	428	18	10842
								lung; alveolar cel	HPA:0301363	HPA	0.000324066213	507	442	44	11019
								nuclear ubiquitin	GO:0000152	GO:CC	0.000326872756	47	652	10	22097
								heterochromatin	GO:0000792	GO:CC	0.000327999419	83	652	13	22097
								Fanconi anaemia	GO:0043240	GO:CC	0.000335981682	13	652	6	22097
								Abnormal morpho	HP:0040071	HP	0.000348663588	158	231	24	4958
								Abnormality of sk	HP:0000927	HP	0.000349907890	395	231	42	4958
								Factor: NF-YA; m	TF:M04683_1	TF	0.000359903251	203	676	24	20045
								Integrated cance	WP:WP1971	WP	0.000360901248	44	358	11	8286
								signal transducti	GO:0072331	GO:BP	0.000419727903	181	645	21	21031
								protein localizati	GO:0044380	GO:BP	0.000425581327	59	645	12	21031
								Gray matter hete	HP:0002282	HP	0.000427529765	126	231	21	4958
								Gap-filling DNA r	REAC:R-HSA-67	REAC	0.000437944590	63	428	13	10842
								regulation of micr	GO:0031110	GO:BP	0.000440131516	95	645	15	21031
								Factor: E2F8; mc	TF:M13044_1	TF	0.000444018776	134	676	19	20045
								female meiotic re	GO:0007143	GO:BP	0.000444224792	39	645	10	21031
								Abnormal pitch	HP:5200005	HP	0.000445366467	58	231	14	4958
								Weight loss	HP:0001824	HP	0.000448741117	384	231	41	4958
								cellular response	GO:0071478	GO:BP	0.000461087152	182	645	21	21031
								Abnormal Intonat	HP:5200010	HP	0.000476326899	67	231	15	4958
								somatic diversific	GO:0002562	GO:BP	0.000484859212	71	645	13	21031
								somatic cell DNA	GO:0016444	GO:BP	0.000484859212	71	645	13	21031
								Abnormality of th	HP:0000069	HP	0.000496437006	371	231	40	4958
								Abnormality of th	HP:0010936	HP	0.000539020010	849	231	70	4958
								mitotic spindle m	GO:1990023	GO:CC	0.000573282449	14	652	6	22097
								mitotic spindle m	GO:1990498	GO:CC	0.000573282449	14	652	6	22097
								intracellular prote	GO:0140535	GO:CC	0.000595550116	951	652	55	22097
								negative regulati	GO:0045814	GO:BP	0.000605508651	139	645	18	21031
								5'-3' exonuclease	GO:0008409	GO:MF	0.000694774525	19	652	7	20212
								mitotic DNA repli	GO:0033314	GO:BP	0.000748705980	11	645	6	21031
								Establishment of	REAC:R-HSA-24	REAC	0.000767049958	11	428	6	10842
								SUMOylation of r	REAC:R-HSA-45	REAC	0.000767910826	66	428	13	10842
								caudate; glial cel	HPA:0080123	HPA	0.000771460999	683	442	53	11019
								BASC complex (I	CORUM:433	CORUM	0.000774029609	12	245	7	3383
								Gastric cancer ne	WP:WP2363	WP	0.000831858828	31	358	9	8286
								regulation of sist	GO:0007063	GO:BP	0.000835413517	17	645	7	21031
								Base Excision R	REAC:R-HSA-73	REAC	0.000835731035	88	428	15	10842
								nuclear membrar	GO:0031965	GO:CC	0.000849455732	313	652	26	22097
								pericentric heter	GO:0005721	GO:CC	0.000862676541	31	652	8	22097
								synaptonemal str	GO:0099086	GO:CC	0.000874739141	41	652	9	22097
								synaptonemal co	GO:0000795	GO:CC	0.000874739141	41	652	9	22097
								Abnormal spinal	HP:0002143	HP	0.000877718164	308	231	35	4958
								Hypoplastic labia	HP:0000059	HP	0.000924177888	37	231	11	4958
								Cone-shaped epi	HP:0010579	HP	0.000981935295	80	231	16	4958
								Displacement of	HP:0100627	HP	0.001014235952	381	231	40	4958
								Abnormal cerebri	HP:0002118	HP	0.001016574333	950	231	75	4958
								Finger syndactyl	HP:0006101	HP	0.001034320569	204	231	27	4958
								Abnormal male u	HP:0032076	HP	0.001165567309	383	231	40	4958
								Cellular senescen	KEGG:04218	KEGG	0.00136209954	155	308	18	8484
								3'-5' DNA helicas	GO:0043138	GO:MF	0.001456353365	14	652	6	20212
								DNA polymerase	GO:0070182	GO:MF	0.001515470877	21	652	7	20212
								ISG15 antiviral r	REAC:R-HSA-11	REAC	0.001543580197	70	428	13	10842
								CENP-A nucleos	CORUM:7388	CORUM	0.001574032182	13	245	7	3383
								lung; alveolar cel	HPA:0301362	HPA	0.001575999193	887	442	63	11019

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								translesion synth	GO:0019985	GO:BP	0.001631902749	26	645	8	21031
								Syndactyly	HP:0001159	HP	0.001666900106	403	231	41	4958
								Acute lymphobla	HP:0006721	HP	0.001667498553	39	231	11	4958
								somatic diversific	GO:0016445	GO:BP	0.001822471411	67	645	12	21031
								rectum; enterocy	HPA:0401302	HPA	0.001865844867	388	442	35	11019
								Metabolism of nc	REAC:R-HSA-15	REAC	0.001959343729	51	428	11	10842
								snRNP Assembly	REAC:R-HSA-15	REAC	0.001959343729	51	428	11	10842
								Abnormality of th	HP:0009602	HP	0.001988075272	198	231	26	4958
								Neoplasm by ane	HP:0011793	HP	0.002058768781	861	231	69	4958
								heterochromatin	GO:0070828	GO:BP	0.002089072878	121	645	16	21031
								Oligohydramnios	HP:0001562	HP	0.002092356233	186	231	25	4958
								nuclear matrix	GO:0016363	GO:CC	0.002095063044	128	652	15	22097
								centriolar satellit	GO:0034451	GO:CC	0.002095063044	128	652	15	22097
								cerebral cortex; c	HPA:0100123	HPA	0.002120519174	744	442	55	11019
								Nucleosome assi	REAC:R-HSA-77	REAC	0.002145897283	72	428	13	10842
								Deposition of nev	REAC:R-HSA-6C	REAC	0.002145897283	72	428	13	10842
								Anal atresia	HP:0002023	HP	0.002322173466	139	231	21	4958
								Neoplasm of the	HP:0006753	HP	0.002324826734	85	231	16	4958
								base-excision re	GO:0006284	GO:BP	0.002346975263	46	645	10	21031
								Abnormal long b	HP:0011314	HP	0.002365504099	761	231	63	4958
								Global Genome I	REAC:R-HSA-56	REAC	0.002455545981	84	428	14	10842
								Motor proteins	KEGG:04814	KEGG	0.002479596354	193	308	20	8484
								protein modificati	GO:0032446	GO:BP	0.002539279255	858	645	53	21031
								skin 1; lymphocy	HPA:0461473	HPA	0.002617009715	394	442	35	11019
								Aplasia/Hypoplas	HP:0008062	HP	0.002619977968	140	231	21	4958
								Facial asymmetr	HP:0000324	HP	0.002619977968	140	231	21	4958
								Inhibition of repli	REAC:R-HSA-11	REAC	0.00266266835	13	428	6	10842
								Abnormal prosod	HP:0031434	HP	0.002685766692	76	231	15	4958
								Aplasia/Hypoplas	HP:0008053	HP	0.002770201103	129	231	20	4958
								Aplasia/Hypoplas	HP:0008055	HP	0.002770201103	129	231	20	4958
								cellular response	GO:0071479	GO:BP	0.002973011492	70	645	12	21031
								Gonadal neoplas	HP:0010785	HP	0.003228911745	108	231	18	4958
								skin 2; langerhan	HPA:0471462	HPA	0.003230369955	662	442	50	11019
								protein ubiquitin	GO:0016567	GO:BP	0.003287032313	774	645	49	21031
								Dual incision in T	REAC:R-HSA-67	REAC	0.003356977372	64	428	12	10842
								Abnormal ureter	HP:0025633	HP	0.003397449018	154	231	22	4958
								Proptosis	HP:0000520	HP	0.003426816068	270	231	31	4958
								Ventriculomegaly	HP:0002119	HP	0.003429951763	752	231	62	4958
								Prostate cancer	HP:0012125	HP	0.003464279784	34	231	10	4958
								Prostate neoplas	HP:0100787	HP	0.003464279784	34	231	10	4958
								Abnormal fallopie	HP:0011027	HP	0.003553399631	27	231	9	4958
								regulation of spin	GO:0090224	GO:BP	0.003563393058	48	645	10	21031
								Colon cancer	HP:0003003	HP	0.003760764791	42	231	11	4958
								COPI-dependent	REAC:R-HSA-68	REAC	0.003809978009	99	428	15	10842
								nucleocytoplasm	GO:0006913	GO:BP	0.003833566744	334	645	28	21031
								nuclear transport	GO:0051169	GO:BP	0.003833566744	334	645	28	21031
								heterochromatin	GO:0031507	GO:BP	0.003869858504	112	645	15	21031
								Patellar aplasia	HP:0006443	HP	0.004224696903	21	231	8	4958
								tRNA processing	REAC:R-HSA-67	REAC	0.004268766754	55	428	11	10842
								APC/C-mediated	REAC:R-HSA-17	REAC	0.004308197355	88	428	14	10842
								Regulation of mit	REAC:R-HSA-45	REAC	0.004308197355	88	428	14	10842
								skin 1; langerhan	HPA:0461462	HPA	0.004332803373	578	442	45	11019
								mRNA transport	GO:0051028	GO:BP	0.004469977	128	645	16	21031
								positive regulatio	GO:2000105	GO:BP	0.004497210369	14	645	6	21031
								deoxyribonucleot	GO:0009263	GO:BP	0.004497210369	14	645	6	21031
								2'-deoxyribonuck	GO:0009265	GO:BP	0.004497210369	14	645	6	21031
								deoxyribose phos	GO:0046385	GO:BP	0.004497210369	14	645	6	21031
								mitotic centrosom	GO:0007100	GO:BP	0.004497210369	14	645	6	21031
								telomere mainte	GO:0000722	GO:BP	0.004497210369	14	645	6	21031
								Neoplasm	HP:0002684	HP	0.004578467625	897	231	70	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								Transcription-Coi	REAC:R-HSA-67	REAC	0.004646268788	77	428	13	10842
								negative regulati	GO:2000134	GO:BP	0.004724616602	73	645	12	21031
								Abnormality of th	HP:0000795	HP	0.004776231188	450	231	43	4958
								Factor: NFYC; m	TF:M12455_1	TF	0.005190973305	128	676	17	20045
								Factor: B-Myb; m	TF:M11725	TF	0.005328145036	873	676	57	20045
								Antiviral mechani	REAC:R-HSA-11	REAC	0.005378824601	78	428	13	10842
								Abnormal esophi	HP:0002031	HP	0.005444545562	235	231	28	4958
								Regulation of HS	REAC:R-HSA-33	REAC	0.005505919507	67	428	12	10842
								Hypospadias	HP:0000047	HP	0.005542367452	362	231	37	4958
								DNA-directed DN	GO:0003887	GO:MF	0.005598027089	25	652	7	20212
								structural constit	GO:0017056	GO:MF	0.005598027089	25	652	7	20212
								DNA exonucleasi	GO:0004529	GO:MF	0.005598027089	25	652	7	20212
								somatic recombir	GO:0016447	GO:BP	0.005779452503	62	645	11	21031
								Duodenal atresia	HP:0002247	HP	0.006202237937	44	231	11	4958
								Abnormal labia m	HP:0012881	HP	0.006202237937	44	231	11	4958
								Reproduction	REAC:R-HSA-14	REAC	0.006248902884	142	428	18	10842
								appendix; non-ge	HPA:0030442	HPA	0.006317918901	263	442	26	11019
								Abnormal small i	HP:0002244	HP	0.006337743138	264	231	30	4958
								skin 1; melanocy	HPA:0460673	HPA	0.00643486065	986	442	66	11019
								Factor: NRF-1; m	TF:M00652_1	TF	0.006454086729	323	676	29	20045
								Anemia of inadec	HP:0010972	HP	0.006733730587	198	231	25	4958
								regulation of DN	GO:2000278	GO:BP	0.006759143753	117	645	15	21031
								Factor: ZNF784; TF	M12088	TF	0.006926332156	434	676	35	20045
								Gastrointestinal	HP:0002589	HP	0.006950592096	92	231	16	4958
								centrosome sepa	GO:0051299	GO:BP	0.007300913627	15	645	6	21031
								Abnormal morph	HP:0002818	HP	0.007371495674	212	231	26	4958
								skin 1; keratinoc	HPA:0460663	HPA	0.007535990317	646	442	48	11019
								protein monoubic	GO:0006513	GO:BP	0.007717605633	52	645	10	21031
								nuclear speck	GO:0016607	GO:CC	0.007908869885	419	652	29	22097
								Decreased fertilit	HP:0012041	HP	0.008582132448	227	231	27	4958
								Female reproduc	HP:0033020	HP	0.008677424438	73	231	14	4958
								Nuclear Envelop	REAC:R-HSA-29	REAC	0.008774161733	70	428	12	10842
								negative regulati	GO:2000042	GO:BP	0.008968157043	23	645	7	21031
								skin 1; endotheli	HPA:0460201	HPA	0.009318447307	841	442	58	11019
								Neoplasm of the	HP:0100834	HP	0.009324157379	116	231	18	4958
								Hypoplastic fem	HP:0012815	HP	0.009800007938	64	231	13	4958
								protein modificati	GO:0070647	GO:BP	0.009948140114	970	645	56	21031
								Neoplasm of the	HP:0100273	HP	0.01002261206	84	231	15	4958
								Breast aplasia	HP:0100783	HP	0.01013395509	17	231	7	4958
								Abnormal toe mc	HP:0001780	HP	0.0102411149	708	231	58	4958
								Orofacial cleft	HP:0000202	HP	0.01033220423	641	231	54	4958
								Sandal gap	HP:0001852	HP	0.01073078133	95	231	16	4958
								skin 2; lymphocy	HPA:0471473	HPA	0.0108705478	456	442	37	11019
								isotype switching	GO:0045190	GO:BP	0.0110475725	54	645	10	21031
								somatic diversific	GO:0002208	GO:BP	0.0110475725	54	645	10	21031
								somatic recombir	GO:0002204	GO:BP	0.0110475725	54	645	10	21031
								negative regulati	GO:1902807	GO:BP	0.01112953841	79	645	12	21031
								pericentriolar ma	GO:0000242	GO:CC	0.01164011722	22	652	6	22097
								p53 transcription: WP	WP:WP4963	WP	0.011787153	96	358	14	8286
								HCMV Early Eve	REAC:R-HSA-96	REAC	0.01190891825	135	428	17	10842
								regulation of org	GO:1902115	GO:BP	0.01191214172	222	645	21	21031
								germ cell nucleus	GO:0043073	GO:CC	0.01197903071	69	652	10	22097
								TP53 Regulates	REAC:R-HSA-67	REAC	0.01204839915	61	428	11	10842
								Nucleotide Excisi	REAC:R-HSA-56	REAC	0.01251952776	109	428	15	10842
								exonuclease acti	GO:0016796	GO:MF	0.01278174012	61	652	10	20212
								Aplasia/Hypoplas	HP:0006498	HP	0.01297347014	31	231	9	4958
								Craniofacial cleft	HP:5201015	HP	0.01308396077	646	231	54	4958
								regulation of mitc	GO:0060236	GO:BP	0.01399775425	44	645	9	21031
								Human T-cell leu	KEGG:05166	KEGG	0.01401525955	218	308	20	8484
								Frontal bossing	HP:0002007	HP	0.01419475952	407	231	39	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								Neoplasm of the	HP:0007379	HP	0.01529737473	234	231	27	4958
								Absent thumb	HP:0009777	HP	0.01537288586	57	231	12	4958
								Abnormal cortical	HP:0003103	HP	0.01571366204	87	231	15	4958
								Meiotic recombination	REAC:R-HSA-91	REAC	0.015933261	86	428	13	10842
								negative regulation of	GO:0008156	GO:BP	0.01666928636	25	645	7	21031
								Removal of the F	REAC:R-HSA-17	REAC	0.01677788805	17	428	6	10842
								Abnormal nasal cavity	HP:0011119	HP	0.01693091159	249	231	28	4958
								Abnormal shape	HP:0011218	HP	0.01694268035	410	231	39	4958
								regulation of meiosis	GO:0051445	GO:BP	0.01707508268	69	645	11	21031
								thymus; cortical	HPA:0580822	HPA	0.01708266076	26	442	7	11019
								RNA transport	GO:0050658	GO:BP	0.01712270585	158	645	17	21031
								nucleic acid transport	GO:0050657	GO:BP	0.01712270585	158	645	17	21031
								placenta; cytotrophoblast	HPA:0381193	HPA	0.01719254969	295	442	27	11019
								appendix; enteron	HPA:0031302	HPA	0.01751389779	362	442	31	11019
								Abnormal frontal	HP:0430000	HP	0.01796272665	411	231	39	4958
								meiotic spindle	GO:0072687	GO:CC	0.01873987219	15	652	5	22097
								pronucleus	GO:0045120	GO:CC	0.01873987219	15	652	5	22097
								Rhabdomyosarcoma	HP:0002859	HP	0.01908531975	25	231	8	4958
								negative regulation of	GO:2000780	GO:BP	0.01926250277	35	645	8	21031
								Aplasia/Hypoplasia	HP:0009601	HP	0.0195405764	146	231	20	4958
								positive regulation of	GO:0045911	GO:BP	0.01970428239	70	645	11	21031
								hsa-miR-24-3p	MIRNA:hsa-miR-	MIRNA	0.01987463221	852	644	63	14819
								skin 1; fibrohistiocytic	HPA:0461441	HPA	0.02095356932	885	442	59	11019
								Dolichocephaly	HP:0000268	HP	0.02122188899	211	231	25	4958
								positive regulation of	GO:1902117	GO:BP	0.02135990355	84	645	12	21031
								hsa-miR-615-3p	MIRNA:hsa-miR-	MIRNA	0.0215343415	890	644	65	14819
								establishment of	GO:0051236	GO:BP	0.02202870055	161	645	17	21031
								thymus; medullary	HPA:0580061	HPA	0.02227239319	27	442	7	11019
								Mandibular aplasia	HP:0009939	HP	0.02231193301	13	231	6	4958
								Abnormally low-cholesterol	HP:0010300	HP	0.02231193301	13	231	6	4958
								Mild global developmental delay	HP:0011342	HP	0.02273347328	79	231	14	4958
								Abnormal aortic valve	HP:0001646	HP	0.02375740904	173	231	22	4958
								Aplastic clavicle	HP:0006660	HP	0.0242289535	19	231	7	4958
								TP53 Regulates	REAC:R-HSA-68	REAC	0.024332879	18	428	6	10842
								protein serine kinase	GO:0106310	GO:MF	0.02459971223	359	652	27	20212
								regulation of microRNA	GO:0010968	GO:BP	0.025028693	18	645	6	21031
								immunoglobulin heavy chain	GO:0002381	GO:BP	0.02527014364	59	645	10	21031
								Delayed skeletal	HP:0002750	HP	0.02531290657	341	231	34	4958
								Abnormal femur	HP:0002823	HP	0.02534765303	297	231	31	4958
								External genital hypoplasia	HP:0003241	HP	0.02536461024	528	231	46	4958
								skin 2; fibrohistiocytic	HPA:0471442	HPA	0.02611637802	833	442	56	11019
								APC-Cdc20 mediated	REAC:R-HSA-17	REAC	0.02619532459	26	428	7	10842
								Absent radius	HP:0003974	HP	0.02647074046	26	231	8	4958
								appendix; non-gastrointestinal	HPA:0030441	HPA	0.02648118759	336	442	29	11019
								chromocenter	GO:0010369	GO:CC	0.02659736031	16	652	5	22097
								Labial hypoplasia	HP:0000066	HP	0.02685263557	60	231	12	4958
								Abnormal penis	HP:0000036	HP	0.02717702775	662	231	54	4958
								Abnormal toe phalanx	HP:0010161	HP	0.02727556817	125	231	18	4958
								positive regulation of	GO:0045739	GO:BP	0.02753125823	131	645	15	21031
								Abnormal prostate	HP:0008775	HP	0.02795501635	42	231	10	4958
								Homologous recombination	WP:WP186	WP	0.02861880003	13	358	5	8286
								skin 2; endothelial	HPA:0470203	HPA	0.02921609928	321	442	28	11019
								placenta; syncytiotrophoblast	HPA:0381211	HPA	0.02954315259	551	442	41	11019
								negative regulation of	GO:0045738	GO:BP	0.02993374793	37	645	8	21031
								skin 2; vascular	HPA:0471491	HPA	0.03058891495	240	442	23	11019
								hippocampus; gliosis	HPA:0250123	HPA	0.03074560745	552	442	41	11019
								HDR through MMR	REAC:R-HSA-56	REAC	0.03168446367	12	428	5	10842
								Aganglionic megacolon	HP:0002251	HP	0.03258152871	151	231	20	4958
								Abnormal enteric	HP:0004362	HP	0.03258152871	151	231	20	4958
								Abnormal bone structure	HP:0003330	HP	0.03292496247	822	231	63	4958

Cluster 3								Cluster 7							
term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size	term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
								immune system c	GO:0002520	GO:BP	0.03347624108	201	645	19	21031
								appendix; lymph	HPA:0030073	HPA	0.03386889726	763	442	52	11019
								Glycolysis	REAC:R-HSA-70	REAC	0.03445220907	68	428	11	10842
								testis; peritubular	HPA:0570771	HPA	0.03461537357	725	442	50	11019
								Aplasia/Hypoplas	HP:0009906	HP	0.03507924727	52	231	11	4958
								Umbilical hernia	HP:0001537	HP	0.03551105295	302	231	31	4958
								Abnormal forearr	HP:0040072	HP	0.03558895427	231	231	26	4958
								negative regulati	GO:1902018	GO:BP	0.03563353702	19	645	6	21031
								meiotic spindle o	GO:0000212	GO:BP	0.03563353702	19	645	6	21031
								Abnormal autonc	HP:0012331	HP	0.03597854769	152	231	20	4958
								Abnormal enteric	HP:0025028	HP	0.03597854769	152	231	20	4958
								Absent forearm t	HP:0003953	HP	0.03612014712	27	231	8	4958
								Aplasia involving	HP:0009822	HP	0.03612014712	27	231	8	4958
								Golgi-to-ER retro	REAC:R-HSA-88	REAC	0.03631950235	133	428	16	10842
								thymus; cortical c	HPA:0580821	HPA	0.036514255	29	442	7	11019
								One carbon meta	WP:WP241	WP	0.03670583818	29	358	7	8286
								Abnormality of ne	HP:0002269	HP	0.03682163831	471	231	42	4958
								regulation of isoth	GO:0045191	GO:BP	0.03690454473	38	645	8	21031
								lung; endothelial	HPA:0300202	HPA	0.03774675542	651	442	46	11019
								positive regulatio	GO:0045830	GO:BP	0.03789861474	28	645	7	21031
								Factor: ZNF339; TF	M12271	TF	0.03813850267	844	676	53	20045
								lung; endothelial	HPA:0300203	HPA	0.03926957997	293	442	26	11019
								Functional abnor	HP:0000025	HP	0.03938396892	289	231	30	4958
								DNA polymerase	GO:0034061	GO:MF	0.03974728404	33	652	7	20212
								Factor: Kaiso; m	TF:M09966_1	TF	0.04009989558	470	676	35	20045
								regulation of tran	GO:0051338	GO:BP	0.0401642707	594	645	38	21031
								meiotic spindle a	GO:0090306	GO:BP	0.04020593638	12	645	5	21031
								regulation of mei	GO:1901993	GO:BP	0.04020593638	12	645	5	21031
								error-prone trans	GO:0042276	GO:BP	0.04020593638	12	645	5	21031
								Atresia of the ext	HP:0000413	HP	0.04247343509	53	231	11	4958
								mismatched DN	GO:0030983	GO:MF	0.04336748021	15	652	5	20212
								Abnormal forearr	HP:0002973	HP	0.04476990416	234	231	26	4958
								thymus	HPA:0580000	HPA	0.04600021896	30	442	7	11019
								testis; peritubular	HPA:0570772	HPA	0.04737620103	526	442	39	11019
								DNA exonucleasi	GO:0016895	GO:MF	0.04953734999	24	652	6	20212
								regulation of ubi	GO:1904666	GO:BP	0.04958813867	20	645	6	21031
								epigenetic regula	GO:0040029	GO:BP	0.04961143372	225	645	20	21031
								gamma-tubulin c	GO:0000930	GO:CC	0.04967614619	18	652	5	22097
								Chk1/Chk2(Cds1	REAC:R-HSA-75	REAC	0.04982308574	13	428	5	10842

tf	target_gene	mean_target_score
CEBPD	HLA-B	28.56872227
CEBPD	PNRC1	24.72816548
CEBPD	C1QL1	23.42752405
CEBPD	RGS17	19.69074872
CEBPD	CAT	19.09656613
CEBPD	PDZD8	16.68492406
CEBPD	C1R	15.81236503
CEBPD	LGALS3BP	15.60021495
CEBPD	JUNB	15.38313583
CEBPD	LYNX1	15.37333687
CEBPD	PRNP	15.28954359
CEBPD	ZFP36L2	15.26140878
CEBPD	MPC2	14.99881625
CEBPD	ACBD3	14.46614707
CEBPD	ANXA4	14.12127876
CEBPD	KANSL1L	14.08376284
CEBPD	ZIC2	11.97386311
CEBPD	GMCL1	11.52859239
CEBPD	BAG5	11.48258868
CEBPD	TRIB1	11.4644797
CEBPD	KRT10	11.25136321
CEBPD	SFN	10.77139767
CEBPD	RNF213	10.68226195
CEBPD	IL13RA1	10.65381883
CEBPD	ATG2B	10.51968604
CEBPD	RIOK3	10.47828029
CEBPD	TACC1	10.47443902
CEBPD	MIA	10.41548672
CEBPD	KLF5	10.16509356
CEBPD	MT2A	10.0615266
CEBPD	JAK1	10.01856767

tf	target_gene	mean_target_score
CEBPD	VEGFA	8.918407545
CEBPD	LAG3	8.270054776
HNF1B	KANSL1L	76.19673672
HNF1B	ANXA4	53.13607145
HNF1B	MAMLD1	47.46255731
HNF1B	ARHGAP26	37.76639215
HNF1B	FGFR1	37.73503408
HNF1B	PDZD8	36.55519649
HNF1B	CELSR1	34.78130525
HNF1B	UGCG	32.48596562
HNF1B	PARD6B	31.09993016
HNF1B	FXVD6	30.83245043
HNF1B	MAPRE2	30.12897149
HNF1B	LRCH1	30.01340026
HNF1B	RASA1	29.6701566
HNF1B	SYNE1	29.65113005
HNF1B	DOK6	29.54914908
HNF1B	SYTL2	29.25539255
HNF1B	PRNP	28.10195455
HNF1B	MAATS1	27.46616192
HNF1B	RAB3IP	27.13985219
HNF1B	LGALS3	26.65676049
HNF1B	MPC2	25.59659367
HNF1B	MSI2	23.99037232
HNF1B	CNKSR3	23.90935774
HNF1B	JAK1	23.88454074
HNF1B	SLC39A10	22.27687444
HNF1B	KRT20	22.05915437
HNF1B	PTGR1	21.90214945
HNF1B	PTPN3	20.60060187

tf	target_gene	mean_target_score
HNF1B	ZBTB18	20.54947722
HNF1B	WDR91	19.67419617
HNF1B	GLS	19.66511423
HNF1B	ABCC3	19.20636572
HNF1B	PITPNM2	19.10157641
HNF1B	DSCAML1	18.5795749
HNF1B	FXYD2	18.5506909
HNF1B	CDC42BPA	18.50830167
HNF1B	MYEOV	18.35996575
HNF1B	GLI2	18.04140356
HNF1B	MAP4	17.76236827
HNF1B	EPB41L2	17.4800005
HNF1B	PAX8-AS1	17.36902838
HNF1B	RGS17	17.12286183
HNF1B	TJP1	16.82029617
HNF1B	IL15	16.64743992
HNF1B	RALGPS2	16.33925117
HNF1B	ABR	16.33291733
HNF1B	XAF1	16.18829819
HNF1B	EFCAB6	16.07376974
HNF1B	CD2AP	16.04481476
HNF1B	NME7	16.0088126
HNF1B	STAT1	15.76038462
HNF1B	ZNRF3	15.51598255
HNF1B	DNAH7	15.19781695
HNF1B	ELMO1	15.05516105
HNF1B	RNF213	14.77715381
HNF1B	FAM49B	14.15963357
HNF1B	SH2B3	13.87732377
HNF1B	ZIC2	13.86714648

tf	target_gene	mean_target_score
HNF1B	NUP93	13.8370499
HNF1B	SDC2	13.62510534
HNF1B	CLTC	13.10628517
HNF1B	ATP2A2	12.4451149
HNF1B	NBEAL1	12.39556115
HNF1B	ZNF827	12.2157277
HNF1B	PTPRG	12.16038535
HNF1B	ATP10A	12.15796041
HNF1B	STK33	12.01871781
HNF1B	SLC38A9	11.92750243
HNF1B	RAI14	11.85130323
HNF1B	LNPEP	11.84775343
HNF1B	A4GALT	11.8445764
HNF1B	TRIB1	11.8248469
HNF1B	HLA-B	11.62888164
HNF1B	HERC3	11.53695532
HNF1B	PALM2-AKAP2	11.45186713
HNF1B	NRP1	11.21017849
HNF1B	ALPK2	11.19784158
HNF1B	PUS7	11.04643652
HNF1B	GAL3ST1	10.94322212
HNF1B	KIAA1324	10.74225518
HNF1B	SPATS2	10.71347881
HNF1B	LMNB1	10.43670316
HNF1B	RTTN	10.40599263
HNF1B	AKAP7	10.40528303
HNF1B	FAM135A	10.2328476
HNF1B	PARP14	10.16723253
HNF1B	DCAF6	10.09174649
HNF1B	PTBP3	10.06922678

tf	target_gene	mean_target_score
HNF1B	ARL4C	10.04806698
HNF1B	FGD6	9.94391552
HNF1B	ATP1B1	9.776430528
HNF1B	SPTLC3	9.759037497
HNF1B	STAG2	9.62769149
HNF1B	ANO1	9.519067664
HNF1B	GLI3	9.283471667
HNF1B	LHFPL3-AS2	9.083988582
HNF1B	HSPA12A	8.962827218
HNF1B	DGKH	8.958879384
HNF1B	SEMA3C	8.95519624
HNF1B	HHLA2	8.813472643
HNF1B	RHOBTB1	8.790316101
HNF1B	NFATC1	8.716871358
HNF1B	FHIT	8.645486727
HNF1B	CASK	8.583084895
HNF1B	ITGA9	8.557536581
HNF1B	GNG10	8.459107362
HNF1B	BDNF	8.414303306
HNF1B	LINC00511	8.212149064
HNF1B	AGBL4	8.163778306
HNF1B	PPM1H	8.152634496
HNF1B	ANTXR2	8.068151455
HNF1B	CUX1	8.008266163
HNF1B	CFAP54	7.960223794
HNF1B	SMOX	7.954845071
HNF1B	DSE	7.904341263
HNF1B	PRKCH	7.867207669
HNF1B	SOCS3	7.86640495
HNF1B	NME5	7.59589385

tf	target_gene	mean_target_score
HNF1B	C6orf132	7.520897462
HNF1B	EGOT	7.496640501
HNF1B	SIPA1L1	7.456216702
HNF1B	SLC4A7	7.427431794
HNF1B	PARP9	7.370083095
HNF1B	PRND	7.285984127
HNF1B	ZDHHC14	7.169683289
HNF1B	PTCHD1-AS	7.132590982
HNF1B	MTMR11	7.130075081
HNF1B	MUC1	6.89818465
HNF1B	MAP3K14	6.783768989
HNF1B	AKT3	6.732455495
HNF1B	PHIP	6.691728658
HNF1B	SPCS3	6.553759469
HNF1B	AGPAT4	6.466510082
HNF1B	PRSS23	6.464886899
HNF1B	KLF3	6.402249022
HNF1B	STX17	6.344528515
HNF1B	CCDC57	6.324999884
HNF1B	NPEPPS	6.207053419
HNF1B	SFMBT1	6.200092001
HNF1B	CAMK1D	6.134815608
HNF1B	SLC2A6	6.087169144
HNF1B	BDH1	6.068700922
HNF1B	MET	6.000714849
HNF1B	HIPK2	5.99539874
HNF1B	XIRP2	5.892235391
HNF1B	CDH16	5.826011521
HNF1B	CFB	5.69644451
HNF1B	ERAP2	5.69025621

tf	target_gene	mean_target_score
HNF1B	PSMB9	5.674419305
HNF1B	S100A10	5.645487226
HNF1B	FAM155A	5.632850566
HNF1B	APOL6	5.578180379
HNF1B	NOCT	5.55108394
HNF1B	SLC16A5	5.37225237
HNF1B	MTCL1	5.369168806
HNF1B	WDFY3	5.359110094
HNF1B	HERC6	5.349253538
HNF1B	C1QL1	5.160539369
HNF1B	SEMA5A	5.14319738
HNF1B	STARD4	5.105840624
HNF1B	PRKG1	5.029572315
HNF1B	ZBBX	5.005041393
IRF1	APOL6	58.21868814
IRF1	STAT1	55.11561195
IRF1	GBP1	53.7061609
IRF1	WARS	45.64344244
IRF1	TAP1	39.1859598
IRF1	PARP14	36.01966119
IRF1	PSMB9	29.32448262
IRF1	HLA-B	27.96583038
IRF1	HLA-E	24.43738452
IRF1	PLSCR1	22.47165649
IRF1	DTX3L	21.31540185
IRF1	PSMB8	19.43238118
IRF1	NFKBIA	19.21387391
IRF1	GBP2	18.59114704
IRF1	TAP2	16.63186367
IRF1	C1R	16.18209458

tf	target_gene	mean_target_score
IRF1	C5orf56	16.11694058
IRF1	B2M	15.7246406
IRF1	SP100	15.0834132
IRF1	BTN3A3	15.007584
IRF1	TAPBP	14.48518412
IRF1	CCNO	13.42480377
IRF1	FXVD2	12.78667556
IRF1	CIITA	12.51539413
IRF1	ERAP1	12.44540561
IRF1	RNF213	11.97288955
IRF1	HLA-F	11.87093042
IRF1	PROC	11.25402335
IRF1	NLRC5	11.20914777
IRF1	PARP12	10.96293681
IRF1	MMP23B	10.93409285
IRF1	XAF1	10.64517937
IRF1	DDX60	10.60104686
IRF1	SERPING1	10.19704566
IRF1	CACHD1	10.03905146
IRF1	SAMHD1	9.99561028
IRF1	C3	9.732117782
IRF1	LGALS3BP	9.601846934
IRF1	UBE2L6	9.130774633
IRF1	TRIM69	8.803211195
IRF1	IL15RA	8.68208931
IRF1	BATF2	8.661943354
IRF1	TNFAIP2	8.538248808
IRF1	IFI35	8.473465938
IRF1	TTC6	8.092456083
IRF1	IFIT3	7.904653882

tf	target_gene	mean_target_score
IRF1	TRIM56	7.7537338
IRF1	MSN	7.526965027
IRF1	RPS6KA4	7.517342786
IRF1	ASPA	7.40386868
IRF1	GBP3	7.377637611
IRF1	PARP9	7.027317267
IRF1	TBX21	6.869595349
IRF1	OAS3	6.423481248
IRF1	C1S	6.40720746
IRF1	FXVD6	6.331476722
IRF1	BIRC2	6.128109073
IRF1	IL12RB2	5.921427534
IRF1	NOCT	5.834560572
IRF1	TAPBPL	5.832046818
IRF1	PLA2R1	5.6552733
IRF1	ADAMTS4	5.651379611
IRF1	CFB	5.447730475
IRF1	KREMEN1	5.205266297
IRF1	IGSF22	5.181828948
IRF1	BHLHE40-AS1	5.13893766
IRF1	C1RL-AS1	5.01338966
STAT1	PARP14	67.14082751
STAT1	APOL6	39.36735688
STAT1	PARP9	38.70438794
STAT1	WARS	37.11557446
STAT1	DDX60	36.09374402
STAT1	PSMB9	33.1825649
STAT1	IFI6	32.5703447
STAT1	NLRC5	31.99175852
STAT1	IRF1	30.97777591

tf	target_gene	mean_target_score
STAT1	PLSCR1	30.95140658
STAT1	XAF1	30.77547097
STAT1	RNF213	28.48169235
STAT1	HERC6	26.93111775
STAT1	TAP1	25.39005604
STAT1	OAS3	24.79375427
STAT1	HLA-B	23.71789801
STAT1	DTX3L	23.69132838
STAT1	B2M	23.30210866
STAT1	C5orf56	19.14726836
STAT1	TRIM56	18.80327038
STAT1	MX1	18.44319521
STAT1	EIF2AK2	18.38288392
STAT1	IFI35	16.14456334
STAT1	TAPBP	15.9441098
STAT1	HLA-E	15.68608815
STAT1	TEK	15.22763516
STAT1	C1R	14.30345831
STAT1	TAP2	14.28249175
STAT1	PARP12	13.39987184
STAT1	LGALS3BP	12.5329545
STAT1	GBP1	11.54974543
STAT1	SP100	10.68560711
STAT1	EGR1	10.4500699
STAT1	CCDC50	9.973834291
STAT1	ZC3HAV1	9.730322171
STAT1	SLC15A3	9.663964481
STAT1	STAT2	9.364031908
STAT1	SP110	9.090868659
STAT1	SERPING1	8.964167314

tf	target_gene	mean_target_score
STAT1	LRRC41	8.875907642
STAT1	IRF9	8.227334018
STAT1	IFNAR2	8.15318217
STAT1	SLC2A13	7.125565638
STAT1	SAMHD1	6.979232061
STAT1	HMGH4	5.991906029
STAT1	ATP11C	5.879204021
STAT1	ERAP2	5.643815072
STAT1	MIR100HG	5.627399094
STAT1	IL13RA1	5.417150302
STAT1	SLFN5	5.259196671
STAT1	GBP3	5.212345463
STAT1	FGF12	5.162992754
STAT1	OAS2	5.02113098

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	FOS	0.6349741358	3.49E-227	High	MA0476.1	0.7493282023	0	0.692151169
High	BACH1	0.6187171694	1.51E-93	High	MA1633.1	0.7349303213	1.74E-280	0.6768237453
High	JUNB	0.608667031	1.57E-138	High	MA0490.2	0.743757974	1.04E-301	0.6762125025
High	PRRX1	0.7266750438	0	High	MA0716.1	0.6098796464	3.26E-62	0.6682773451
High	FOSL2	0.5687622336	7.19E-83	High	MA0478.1	0.7473786886	0	0.6580704611
High	NFE2L1	0.5785585887	4.57E-45	High	MA0089.2	0.7348711584	2.31E-280	0.6567148736
High	FOSL1	0.5622358403	5.61E-88	High	MA0477.2	0.7461447364	0	0.6541902883
High	KLF5	0.6949407997	5.37E-302	High	MA0599.1	0.5988195922	1.16E-50	0.646880196
High	KLF6	0.6555876832	3.39E-145	High	MA1517.1	0.6041293402	4.65E-56	0.6298585117
High	JUND	0.5125721441	0.004758531699	High	MA0491.2	0.7434016339	7.43E-301	0.627986889
High	BATF3	0.5093586003	1.03E-14	High	MA0835.2	0.7417560333	7.02E-297	0.6255573168
High	HNF1B	0.577005772	1.67E-176	High	MA0153.2	0.6723318333	2.72E-151	0.6246688027
High	SIX1	0.646371179	8.97E-166	High	MA1118.1	0.593436022	1.75E-45	0.6199036005
High	STAT1	0.6262255226	2.48E-129	High	MA0137.3	0.6125611914	3.40E-65	0.619393357
High	NFATC2	0.6047840646	1.77E-114	High	MA0152.1	0.6202074747	4.04E-74	0.6124957696
High	LHX9	0.6057696845	5.43E-237	High	MA0701.2	0.5988137519	1.16E-50	0.6022917182
High	FOXP1	0.6740410939	3.56E-215	High	MA0481.3	0.5278051972	3.14E-05	0.6009231456
High	KLF3	0.6185774094	2.88E-140	High	MA1516.1	0.582254021	1.23E-35	0.6004157152
High	TBX15	0.5774066352	2.18E-39	High	MA0803.1	0.6201131917	5.05E-74	0.5987599134
High	NFIC	0.569960034	2.07E-33	High	MA0161.2	0.6273558668	5.06E-83	0.5986579504
High	STAT3	0.5921290457	1.34E-51	High	MA0144.2	0.5997294821	1.47E-51	0.5959292639
High	NR3C1	0.6214333477	2.97E-235	High	MA0113.3	0.5643483586	2.16E-22	0.5928908532
High	ETV1	0.5745485943	4.06E-42	High	MA0761.2	0.5946122714	1.34E-46	0.5845804329
High	CEBPD	0.6215763977	1.13E-199	High	MA0836.2	0.5425959985	1.41E-10	0.5820861981
High	ELF1	0.5501856496	3.20E-19	High	MA0473.3	0.6126307113	2.88E-65	0.5814081804
High	TEAD1	0.5334137577	9.78E-07	High	MA0090.3	0.6209123288	5.67E-75	0.5771630433
High	KLF10	0.5454974916	1.56E-39	High	MA1511.1	0.6085704898	8.61E-61	0.5770339907
High	PKNOX1	0.5129579002	1.93E-02	High	MA0782.2	0.6383228451	9.46E-98	0.5756403726
High	EGR1	0.63272762	2.20E-133	High	MA0162.4	0.5168154999	1.27E-02	0.57477156
High	TGIF1	0.5301480595	1.22E-13	High	MA0796.1	0.6126488359	2.79E-65	0.5713984477
High	NFATC3	0.5167401398	4.78E-03	High	MA0625.1	0.6242539908	4.53E-79	0.5704970653

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	IRF2	0.5238519517	5.85E-10	High	MA0051.1	0.6162151961	2.31E-69	0.5700335739
High	HOXB4	0.5079556084	0.01335816887	High	MA1499.1	0.6306463282	2.62E-87	0.5693009683
High	MSANTD3	0.5795291405	1.15E-79	High	MA1523.1	0.5588253205	6.17E-19	0.5691772305
High	EOMES	0.5132099314	1.83E-38	High	MA0800.1	0.6230506031	1.43E-77	0.5681302672
High	TEAD4	0.5139429555	5.02E-04	High	MA0809.2	0.6222335361	1.35E-76	0.5680882458
High	NFIB	0.5275473451	7.16E-05	High	MA1643.1	0.6082527739	1.88E-60	0.5679000595
High	MEF2D	0.5404812219	2.23E-22	High	MA0773.1	0.5947756459	9.45E-47	0.5676284339
High	MYF6	0.5561440869	9.08E-123	High	MA0667.1	0.5780720279	2.89E-32	0.5671080574
High	IRF7	0.5093304108	2.09E-08	High	MA0772.1	0.6229304084	1.97E-77	0.5661304096
High	IRF9	0.5340333036	5.95E-30	High	MA0653.1	0.5979763993	7.71E-50	0.5660048515
High	TBX1	0.5095928962	0.002579032471	High	MA0805.1	0.6223399865	1.02E-76	0.5659664413
High	TFAP2B	0.5468881603	7.85E-76	High	MA0811.1	0.5828117758	4.27E-36	0.564849968
High	MSX1	0.5446740391	2.01E-19	High	MA0666.1	0.5843491155	2.17E-37	0.5645115773
High	ZNF682	0.5216749558	1.87E-07	High	MA1599.1	0.6065899248	1.13E-58	0.5641324403
High	REL	0.5187922881	4.42E-07	High	MA0101.1	0.6086698928	6.88E-61	0.5637310905
High	XBP1	0.5451665765	7.67E-29	High	MA0844.1	0.5818327165	2.68E-35	0.5634996465
High	HSF1	0.5281969689	9.81E-12	High	MA0486.2	0.5984895532	2.41E-50	0.563343261
High	ATF6	0.5457103534	2.97E-15	High	MA1466.1	0.5805644424	2.89E-34	0.5631373979
High	MAFG	0.5206875449	1.22E-10	High	MA0659.2	0.6023649661	3.14E-54	0.5615262555
High	IRF1	0.6002144465	1.06E-292	High	MA0050.2	0.5216202121	1.28E-03	0.5609173293
High	GABPA	0.5276758137	8.10E-09	High	MA0062.3	0.5939377872	5.88E-46	0.5608068004
High	MEIS2	0.538787633	2.74E-34	High	MA0774.1	0.5825754941	6.68E-36	0.5606815635
High	ZNF354C	0.5139940976	3.73E-04	High	MA0130.1	0.6070744025	3.47E-59	0.5605342501
High	MAF	0.5358237647	4.73E-68	High	MA1520.1	0.5834761757	1.19E-36	0.5596499702
High	ESR2	0.5297236596	2.00E-17	High	MA0258.2	0.5895320692	6.86E-42	0.5596278644
High	HNF4G	0.5426741231	3.21E-30	High	MA0484.2	0.5740267188	3.65E-29	0.5583504209
High	SIX2	0.5026794814	5.72E-09	High	MA1119.1	0.6132510553	5.89E-66	0.5579652684
High	ZBTB26	0.5082096448	3.94E-03	High	MA1579.1	0.6068656679	5.77E-59	0.5575376563
High	GLI3	0.5805805034	1.30E-86	High	MA1491.1	0.5343072557	2.60E-07	0.5574438795
High	TBX20	0.5008980923	0.03073369578	High	MA0689.1	0.6131602376	7.35E-66	0.557029165

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	ZNF24	0.518266266	3.37E-05	High	MA1124.1	0.5953692606	2.58E-47	0.5568177633
High	KLF2	0.5240125034	4.22E-28	High	MA1515.1	0.5881491682	1.16E-40	0.5560808358
High	NKX2-5	0.5544606992	1.25E-99	High	MA0063.2	0.5568399858	8.95E-18	0.5556503425
High	GLI2	0.5824499847	7.86E-101	High	MA0734.2	0.5279836009	2.80E-05	0.5552167928
High	LBX2	0.5184690434	2.55E-16	High	MA0699.1	0.5918190197	5.69E-44	0.5551440316
High	POU6F1	0.5190740857	2.45E-13	High	MA0628.1	0.5908104666	4.77E-43	0.5549422762
High	UNCX	0.5006334459	5.84E-04	High	MA0721.1	0.6091979591	1.82E-61	0.5549157025
High	SRF	0.5256505504	4.19E-16	High	MA0083.3	0.5834835151	1.18E-36	0.5545670327
High	LEF1	0.5227281488	1.78E-30	High	MA0768.1	0.586127818	6.55E-39	0.5544279834
High	TFAP2A	0.5095473998	1.07E-17	High	MA0003.4	0.5990665228	6.60E-51	0.5543069613
High	TLX2	0.5257445998	8.65E-53	High	MA1577.1	0.5820855654	1.66E-35	0.5539150826
High	HSF4	0.508365018	1.25E-04	High	MA0771.1	0.5993456923	3.56E-51	0.5538553551
High	NFIX	0.5167228328	3.79E-03	High	MA0671.1	0.5886783831	3.99E-41	0.552700608
High	TBX4	0.5032614153	1.47E-05	High	MA0806.1	0.6021345442	5.32E-54	0.5526979798
High	TBX21	0.5187302051	4.05E-51	High	MA0690.1	0.5864248979	3.66E-39	0.5525775515
High	PRRX2	0.5175589199	0.000470142888	High	MA0075.3	0.5854532559	2.51E-38	0.5515060879
High	RELA	0.5319953863	2.93E-28	High	MA0107.1	0.5706786909	1.00E-26	0.5513370386
High	BCL6	0.5147035073	9.73E-07	High	MA0463.2	0.5867222114	2.01E-39	0.5507128593
High	SMAD3	0.5594859436	5.94E-32	High	MA0795.1	0.5392537525	3.49E-09	0.549369848
High	IRF8	0.5009705323	0.04065346042	High	MA0652.1	0.5967142381	1.26E-48	0.5488423852
High	PBX2	0.5111714494	5.16E-04	High	MA1113.2	0.5857824967	1.31E-38	0.5484769731
High	NR1D2	0.5274633801	4.52E-22	High	MA1532.1	0.5694883272	7.00E-26	0.5484758537
High	BCL6B	0.5079509361	1.54E-07	High	MA0731.1	0.5889812255	2.16E-41	0.5484660808
High	MEIS1	0.5285448405	1.50E-29	High	MA0498.2	0.5665878075	7.02E-24	0.547566324
High	TBX18	0.5043500593	8.74E-07	High	MA1565.1	0.5905464432	8.24E-43	0.5474482513
High	ZNF16	0.5079276136	0.0153411027	High	MA1654.1	0.5868826657	1.46E-39	0.5474051396
High	ZNF528	0.5202918407	1.55E-06	High	MA1597.1	0.5743450771	2.11E-29	0.5473184589
High	REST	0.5211146702	0.000102427071	High	MA0138.2	0.5734750964	9.36E-29	0.5472948833
High	MEF2C	0.53244498056	1.70E-42	High	MA0497.1	0.5619582672	7.44E-21	0.5472040364
High	MEF2B	0.509236011	2.49E-03	High	MA0660.1	0.5844259747	1.90E-37	0.5468309929

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	MYB	0.5033783784	0.01112453463	High	MA0100.3	0.5902714983	1.47E-42	0.5468249383
High	JUN	0.5174176026	5.06E-10	High	MA0488.1	0.5759527348	1.28E-30	0.5466851687
High	MAFF	0.5072698717	1.31E-04	High	MA0495.3	0.5851459554	4.59E-38	0.5462079136
High	SP4	0.5176043774	3.99E-05	High	MA0685.1	0.5733461801	1.16E-28	0.5454752787
High	KLF13	0.519469128	5.51E-06	High	MA0657.1	0.5706137655	1.11E-26	0.5450414467
High	ELF3	0.5038695141	1.15E-07	High	MA0640.2	0.5862058258	5.63E-39	0.54503767
High	MSX2	0.5015969893	1.15E-06	High	MA0708.1	0.5882228541	1.01E-40	0.5449099217
High	CREB3L1	0.5367814872	4.50E-17	High	MA0839.1	0.5525259811	2.23E-15	0.5446537341
High	MIXL1	0.5022526286	1.93E-03	High	MA0662.1	0.5863974092	3.84E-39	0.5443250189
High	ZNF282	0.5277094152	1.37E-14	High	MA1154.1	0.5604856193	6.07E-20	0.5440975173
High	POU4F3	0.5005412461	2.93E-02	High	MA0791.1	0.587421634	5.02E-40	0.54398144
High	IRF3	0.5456088674	7.25E-28	High	MA1418.1	0.5421210211	2.23E-10	0.5438649442
High	VAX1	0.5060944983	1.49E-04	High	MA0722.1	0.5805368759	3.03E-34	0.5433156871
High	USF2	0.5193666491	8.62E-07	High	MA0526.3	0.5671791639	2.80E-24	0.5432729065
High	ZKSCAN1	0.5424660698	2.24E-12	High	MA1585.1	0.5436613978	4.81E-11	0.5430637338
High	ZKSCAN5	0.5166089457	4.87E-07	High	MA1652.1	0.5673513183	2.14E-24	0.541980132
High	MXI1	0.5417665109	1.74E-17	High	MA1108.2	0.5411874193	5.58E-10	0.5414769651
High	CREB3L4	0.5042362111	2.96E-02	High	MA1474.1	0.5771034034	1.66E-31	0.5406698073
High	HNF4A	0.5054485346	5.14E-11	High	MA0114.4	0.5758531176	1.52E-30	0.5406508261
High	NR3C2	0.5333121159	3.29E-42	High	MA0727.1	0.5470124043	1.40E-12	0.5401622601
High	TFAP2E	0.5069418574	0.001144925704	High	MA1569.1	0.572958886	2.24E-28	0.5399503717
High	MYF5	0.5270670335	5.26E-21	High	MA1641.1	0.5520663249	3.91E-15	0.5395666792
High	EMX1	0.5010172358	0.02589378892	High	MA0612.2	0.5777657202	5.04E-32	0.539391478
High	HEY1	0.5524952607	1.28E-28	High	MA0823.1	0.5247384607	2.19E-04	0.5386168607
High	USF1	0.5047113443	1.64E-02	High	MA0093.3	0.5720537074	1.03E-27	0.5383825258
High	SREBF1	0.5143129816	5.75E-03	High	MA0595.1	0.5616486501	1.16E-20	0.5379808158
High	HESX1	0.5105534415	1.51E-05	High	MA0894.1	0.5651696501	6.23E-23	0.5378615458
High	ESRRA	0.5241510368	3.67E-20	High	MA0592.3	0.5510365129	1.36E-14	0.5375937748
High	LHX6	0.5043900074	4.86E-08	High	MA0658.1	0.5707814813	8.51E-27	0.5375857443
High	NFKB1	0.5391131165	4.93E-13	High	MA0105.4	0.5357374247	7.89E-08	0.5374252706

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	NFKB2	0.5166456037	4.20E-08	High	MA0778.1	0.5580716409	1.72E-18	0.5373586223
High	MAFA	0.502804621	1.03E-02	High	MA1521.1	0.5717191129	1.80E-27	0.5372618669
High	LHX1	0.5313247372	1.62E-42	High	MA1518.1	0.5428113522	1.14E-10	0.5370680447
High	ELF2	0.548744053	1.53E-16	High	MA1483.1	0.5252031201	1.65E-04	0.5369735865
High	ZNF263	0.5224672986	3.19E-11	High	MA0528.2	0.550385468	2.95E-14	0.5364263833
High	BARX1	0.5054314807	1.73E-03	High	MA0875.1	0.5673757311	2.07E-24	0.5364036059
High	ZNF75D	0.5140625467	0.000412874654	High	MA1601.1	0.5584073061	1.09E-18	0.5362349264
High	TBX19	0.5105487108	0.000101189199	High	MA0804.1	0.560356119	7.28E-20	0.5354524149
High	ZBTB7A	0.5360408122	1.01E-14	High	MA0750.2	0.5341966197	2.84E-07	0.5351187159
High	KLF11	0.5156721123	2.27E-15	High	MA1512.1	0.5544821138	1.93E-16	0.5350771131
High	ATF4	0.542432332	4.06E-18	High	MA0833.2	0.5274591751	3.94E-05	0.5349457535
High	NR4A1	0.5252573187	1.77E-23	High	MA1112.2	0.5438944283	3.78E-11	0.5345758735
High	RELB	0.5259227504	1.06E-13	High	MA1117.1	0.5431826826	7.87E-11	0.5345527165
High	ZNF684	0.5079513839	0.003201467539	High	MA1600.1	0.560824633	3.75E-20	0.5343880084
High	ZNF274	0.5145910608	0.000885020753	High	MA1592.1	0.5529002316	1.41E-15	0.5337456462
High	CEBPB	0.510664097	6.81E-07	High	MA0466.2	0.5567704271	9.79E-18	0.533717262
High	CREB3	0.5243288759	1.95E-15	High	MA0638.1	0.5429910407	9.55E-11	0.5336599583
High	POU3F1	0.5084115267	1.76E-16	High	MA0786.1	0.5579249309	2.10E-18	0.5331682288
High	CREM	0.5209196799	5.69E-05	High	MA0609.2	0.5449296524	1.29E-11	0.5329246661
High	ZNF449	0.5171311716	4.23E-07	High	MA1656.1	0.5481618465	3.87E-13	0.5326465091
High	MYBL2	0.5503550786	9.27E-45	High	MA0777.1	0.5149081536	2.75E-02	0.5326316161
High	NR1D1	0.5045826226	2.16E-05	High	MA1531.1	0.559762368	1.68E-19	0.5321724953
High	HIF1A	0.5136189905	3.02E-02	High	MA1106.1	0.5504259806	2.82E-14	0.5320224856
High	GLIS2	0.5184012368	8.38E-07	High	MA0736.1	0.545462099	7.38E-12	0.5319316679
High	NRL	0.5046615649	0.02594053359	High	MA0842.2	0.559175353	3.80E-19	0.5319184589
High	NR4A2	0.520076779	7.00E-17	High	MA0160.1	0.5423253949	1.84E-10	0.5312010869
High	KLF14	0.5039501111	1.97E-03	High	MA0740.1	0.5582800251	1.30E-18	0.5311150681
High	PRDM4	0.5268453917	1.20E-11	High	MA1647.1	0.5345883135	2.06E-07	0.5307168526
High	NFIL3	0.50891958	6.09E-16	High	MA0025.2	0.5524269285	2.52E-15	0.5306732543
High	HOXC8	0.5322556524	5.26E-15	High	MA1505.1	0.5290337958	1.37E-05	0.5306447241

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	CEBPG	0.5147034294	3.07E-08	High	MA0838.1	0.54557694	6.53E-12	0.5301401847
High	HOXB2	0.509208717	9.23E-06	High	MA0902.2	0.5484396726	2.83E-13	0.5288241948
High	OSR1	0.5066068346	1.18E-19	High	MA1542.1	0.5500502894	4.36E-14	0.528328562
High	ZBTB33	0.5181670382	6.29E-17	High	MA0527.1	0.534602564	2.04E-07	0.5263848011
High	ELF4	0.5138113721	6.67E-14	High	MA0641.1	0.5384820067	7.08E-09	0.5261466894
High	POU3F3	0.5009707465	4.06E-02	High	MA0788.1	0.5511751826	1.16E-14	0.5260729645
High	SP2	0.507475511	0.03278943985	High	MA0516.2	0.5428984125	1.05E-10	0.5251869618
High	ZBED1	0.5236379024	1.96E-16	High	MA0749.1	0.5263194474	8.23E-05	0.5249786749
High	ETV5	0.5190208216	7.18E-05	High	MA0765.2	0.5298541723	7.72E-06	0.524437497
High	HOXC9	0.5266985065	3.68E-08	High	MA0485.2	0.5218955269	1.11E-03	0.5242970167
High	THRB	0.5140755123	1.56E-19	High	MA1574.1	0.5338532452	3.73E-07	0.5239643788
High	POU3F4	0.5013012332	1.11E-02	High	MA0789.1	0.5458715475	4.77E-12	0.5235863904
High	MAZ	0.5141310347	4.12E-04	High	MA1522.1	0.5323029009	1.25E-06	0.5232169678
High	MAX	0.5289071377	7.77E-09	High	MA0058.3	0.5166526122	1.36E-02	0.5227798749
High	ZNF140	0.5125875042	6.99E-03	High	MA1589.1	0.5317306231	1.93E-06	0.5221590637
High	SP9	0.5075175227	2.56E-15	High	MA1564.1	0.5355757439	9.04E-08	0.5215466333
High	FOXC1	0.5041586316	1.11E-04	High	MA0032.2	0.5378809553	1.22E-08	0.5210197935
High	ZIC5	0.512178192	4.08E-16	High	MA1584.1	0.5291524136	1.27E-05	0.5206653028
High	NR2C2	0.5234747421	7.54E-05	High	MA0504.1	0.517562833	9.15E-03	0.5205187875
High	RUNX3	0.5043501761	3.44E-05	High	MA0684.2	0.5359993845	6.33E-08	0.5201747803
High	KLF16	0.5218941252	2.58E-14	High	MA0741.1	0.5176435079	8.87E-03	0.5197688166
High	RREB1	0.5207367791	0.001716523885	High	MA0073.1	0.5176977843	8.69E-03	0.5192172817
High	ATF3	0.5084276267	1.68E-07	High	MA0605.2	0.5290458075	1.36E-05	0.5187367171
High	MYC	0.5152907559	9.69E-05	High	MA0147.3	0.5219375386	1.08E-03	0.5186141473
High	ESRRB	0.5086273866	3.11E-04	High	MA0141.3	0.5278897268	2.97E-05	0.5182585567
High	GATA3	0.5120288928	4.13E-11	High	MA0037.3	0.5240264424	0.000333362594	0.5180276676
High	ZBTB6	0.5093345574	0.000113509026	High	MA1581.1	0.5267084157	6.44E-05	0.5180214865
High	PPARD	0.519262749	4.01E-06	High	MA1550.1	0.515989283	1.79E-02	0.517626016
High	FOXA3	0.5017574825	1.09E-02	High	MA1683.1	0.5327898705	8.73E-07	0.5172736765
High	TEF	0.5061628306	0.000243872091	High	MA0843.1	0.5270727765	5.10E-05	0.5166178036

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
High	ZNF460	0.5099714492	0.003541127175	High	MA1596.1	0.522389174	8.48E-04	0.5161803116
High	SPIB	0.5033163537	5.92E-05	High	MA0081.2	0.5284485912	2.06E-05	0.5158824725
High	NR1I2	0.502521811	7.04E-06	High	MA1533.1	0.5233521139	0.000493008843	0.5129369625
High	NFYB	0.5079803326	3.19E-02	High	MA0502.2	0.517636188	8.89E-03	0.5128082603
High	NEUROG2	0.5022643094	6.25E-05	High	MA0669.1	0.5208508414	0.001909980109	0.5115575754
High	RORB	0.5030914218	1.21E-02	High	MA1150.1	0.5163015284	0.01575434723	0.5096964751
High	SPDEF	0.5013663338	9.37E-04	High	MA0686.1	0.5166979139	1.34E-02	0.5090321239
High	PAX3	0.5018879563	4.86E-04	High	MA0780.1	0.5154142407	0.02260930169	0.5086510985

tf	target_gene	mean_target_score
ETV7	PSMB8	24.89615894
ETV7	CXCL11	22.02028878
ETV7	RTP4	17.96375705
ETV7	KYNU	16.5875317
ETV7	C2	16.47607013
ETV7	P2RY6	16.45487804
ETV7	TMEM176B	15.63030112
ETV7	LGALS9	15.3119009
ETV7	BATF	15.24026217
ETV7	HLA-DMA	14.97179899
ETV7	P2RY13	14.00198996
ETV7	GMFG	13.79596876
ETV7	HLA-C	13.68717586
ETV7	CASP4	13.68012536
ETV7	SP100	13.6143477
ETV7	PSMB9	12.67563559
ETV7	FAM26F	11.94279998
ETV7	SLC15A3	11.86535475
ETV7	ASCL2	11.79574458
ETV7	OSTF1	11.7495326
ETV7	B2M	11.58681874
ETV7	CTSS	10.93712133
ETV7	HCP5	10.87927241
ETV7	SQRDL	10.72303167
ETV7	IL18BP	10.63113332
ETV7	TNFRSF17	10.34609328
ETV7	HLA-DRA	10.3206761
ETV7	ABI3	10.13409401
ETV7	NCF4	10.01089191
IKZF1	CD8A	36.09681945
IKZF1	IL2RG	31.1300537

tf	target_gene	mean_target_score
IKZF1	CD3E	30.53276893
IKZF1	CD3D	30.1958784
IKZF1	PYHIN1	29.84428518
IKZF1	PRF1	28.09783464
IKZF1	CD74	26.47173822
IKZF1	CCL5	26.38563788
IKZF1	SLAMF8	24.87205501
IKZF1	GBP2	24.85059747
IKZF1	GPR171	24.69965241
IKZF1	GIMAP5	24.4833523
IKZF1	C2	24.15789284
IKZF1	GIMAP4	23.98597936
IKZF1	WAS	23.60857438
IKZF1	LCP2	23.49930093
IKZF1	PVRIG	23.43503907
IKZF1	GZMA	23.38953843
IKZF1	HLA-DRA	23.1627582
IKZF1	HLA-DPB1	22.6199108
IKZF1	CXCR3	22.61298544
IKZF1	NCF4	21.9981041
IKZF1	NKG7	21.41092122
IKZF1	PSMB8	21.06187977
IKZF1	PSTPIP1	20.98878114
IKZF1	HAVCR2	20.9465226
IKZF1	GIMAP7	19.69585198
IKZF1	FAM105A	19.4790221
IKZF1	CASP4	19.43034631
IKZF1	GIMAP2	18.91038229
IKZF1	MARCH1	18.33870221
IKZF1	LILRB2	18.24016113

tf	target_gene	mean_target_score
IKZF1	SELPLG	18.13062632
IKZF1	PDCD1	17.76070202
IKZF1	IL411	16.55732099
IKZF1	SPI1	16.34034455
IKZF1	FAM26F	16.31784439
IKZF1	SNX20	15.93706168
IKZF1	KLRK1	14.1845608
IKZF1	RASAL3	13.72262383
IKZF1	GZMB	13.46276922
IKZF1	C16orf54	13.30009364
IKZF1	LAPTM5	12.9987479
IRF1	PSMB8	47.4648017
IRF1	GBP4	44.65739657
IRF1	CD3D	44.06165151
IRF1	IL2RG	42.51584643
IRF1	BATF	42.15313809
IRF1	GPR171	40.8078406
IRF1	PSMB9	38.91281707
IRF1	HLA-C	38.85595149
IRF1	GIMAP4	38.45324391
IRF1	FASLG	38.26473389
IRF1	TAP1	37.5612536
IRF1	CXCR3	36.85830589
IRF1	PSMB10	34.56012758
IRF1	PTPRCAP	34.05247316
IRF1	HLA-B	33.74074506
IRF1	GBP2	32.47604812
IRF1	HLA-F	31.71700099
IRF1	HAVCR2	30.8347054
IRF1	CD3G	29.91979372

tf	target_gene	mean_target_score
IRF1	HLA-A	29.70348457
IRF1	SIRPG	29.56470388
IRF1	NLRC5	29.48191458
IRF1	PSTPIP1	29.30232942
IRF1	B2M	29.06037053
IRF1	LIME1	28.91841562
IRF1	IL18BP	28.66253644
IRF1	IFNG	28.53813826
IRF1	OGFR	28.51059343
IRF1	CTSW	27.73950409
IRF1	ZBP1	27.63248527
IRF1	LCP2	27.59342914
IRF1	GZMB	27.38910351
IRF1	PSME2	27.1477932
IRF1	PLEK	27.04273801
IRF1	LILRB1	26.26801389
IRF1	CXCL10	26.09994461
IRF1	CXCR6	26.01990555
IRF1	LILRB4	25.93243274
IRF1	TAPBP	25.89507744
IRF1	SAMD9L	25.68347133
IRF1	TRPM2	25.36683905
IRF1	PARP10	25.29235764
IRF1	GZMA	25.15452252
IRF1	FGR	24.53568308
IRF1	CD52	24.09298571
IRF1	GBP1	23.98278683
IRF1	CST7	23.91655545
IRF1	BTN3A3	23.83824344
IRF1	UBA7	23.83730187

tf	target_gene	mean_target_score
IRF1	CCR2	23.47870691
IRF1	CLEC7A	23.45902776
IRF1	GBP3	22.93708855
IRF1	LILRB3	22.05106617
IRF1	ASCL2	21.85177314
IRF1	SQRDL	21.47259767
IRF1	MIR155HG	21.42426482
IRF1	NKG7	21.34952201
IRF1	BTN3A2	21.10861611
IRF1	C1orf162	20.0904
IRF1	SLC31A2	19.57966947
IRF1	WARS	19.40928882
IRF1	GPR65	19.1793872
IRF1	APBB1IP	19.0924351
IRF1	PSME1	18.82902436
IRF1	UBE2L6	18.78617257
IRF1	KIR3DL2	18.54533885
IRF1	SIGLEC9	18.27972416
IRF1	CXCL11	18.04273209
IRF1	UBASH3A	17.75708531
IRF1	RAC2	17.09525375
IRF1	C11orf21	17.03323007
IRF1	LAG3	16.98851148
IRF1	CCR1	16.74458499
IRF1	C16orf54	16.42984742
IRF1	CD38	16.39243616
IRF1	TNFRSF14	16.20220982
IRF1	SEPT1	15.95875131
IRF1	HCST	15.2364483
IRF1	KLHDC7B	14.91518516

tf	target_gene	mean_target_score
IRF1	VAMP5	14.62621178
IRF1	S1PR4	14.16405267
IRF1	CLEC9A	14.15993378
IRF1	KLRB1	13.88327992
IRF1	PARP14	13.5640677
IRF1	GBP5	13.52895705
IRF1	FLT3LG	13.35234186
IRF1	BTN3A1	12.6745008
IRF1	C1QC	12.59318742
IRF1	ITGAL	12.27551906
IRF1	SIGLEC1	12.21586083
IRF1	LCK	12.10396189
IRF1	DEF6	12.05497427
IRF1	SIRPB1	11.01112996
IRF1	IL15	10.42645903
IRF1	LILRA1	10.1973375
NFKB2	DPP9	23.28051546
NFKB2	OGFR	20.35807682
NFKB2	RABEP2	19.65513292
NFKB2	ESRRA	17.80294746
NFKB2	IRF1	15.7323939
NFKB2	SP140L	15.06009829
NFKB2	NARFL	14.15345751
NFKB2	ZNF394	13.62541599
NFKB2	GGT5	12.5555147
NFKB2	SLC38A10	12.12157148
NFKB2	TNIP2	12.0374872
NFKB2	DEF6	11.5978162
NFKB2	MAFK	11.17832626
NFKB2	TRAF2	10.02476932

tf	target_gene	mean_target_score
SPI1	CD74	60.28979952
SPI1	CTSS	54.72900351
SPI1	HLA-DRA	54.41030232
SPI1	ABI3	54.07625933
SPI1	CD4	52.67761456
SPI1	GIMAP4	51.70840278
SPI1	HLA-DMA	50.96462677
SPI1	PARVG	49.93898304
SPI1	NCF4	48.35936592
SPI1	BATF	47.60807916
SPI1	LGALS9	47.39067811
SPI1	HCK	46.90633319
SPI1	C2	45.41089146
SPI1	SAMSN1	45.07745578
SPI1	LAIR1	45.00739543
SPI1	DOK2	44.6967249
SPI1	HLA-DPB1	44.08312967
SPI1	SLC15A3	43.49546246
SPI1	TNFAIP8L2	43.33991415
SPI1	IL2RG	43.26956334
SPI1	CD53	43.22939572
SPI1	WAS	42.70876908
SPI1	CLEC7A	42.45881018
SPI1	HLA-DPA1	41.51911353
SPI1	LRRC25	41.19431988
SPI1	LILRB1	41.19204135
SPI1	CD86	40.44126173
SPI1	SLAMF8	40.31028222
SPI1	ASCL2	39.66234847
SPI1	GNGT2	39.40315784

tf	target_gene	mean_target_score
SPI1	LAPTM5	39.22255333
SPI1	ITGB2	39.07847172
SPI1	SELPLG	38.95465105
SPI1	HAVCR2	38.95271053
SPI1	IL18	37.42439553
SPI1	GIMAP5	37.24978595
SPI1	PSMB9	37.04928375
SPI1	GMFG	36.98190883
SPI1	GNA15	36.003011
SPI1	FERMT3	35.88389045
SPI1	SIGLEC9	35.42402065
SPI1	C3AR1	35.00657886
SPI1	HLA-DRB1	34.78428127
SPI1	PLEK	34.74057877
SPI1	CD14	34.43971433
SPI1	MS4A6A	34.41311008
SPI1	PDCD1LG2	33.82813589
SPI1	TYROBP	33.72859976
SPI1	MYO1F	33.31538073
SPI1	TMEM106A	33.09973286
SPI1	IL10RA	32.57459606
SPI1	RGS18	32.38334141
SPI1	CASP4	32.31745073
SPI1	FAM26F	31.90274404
SPI1	GPSM3	31.75898888
SPI1	LCP2	31.37707461
SPI1	TMEM150B	31.1865215
SPI1	C10orf128	31.1435718
SPI1	SIGLEC7	31.14299389
SPI1	CD48	31.09801312

tf	target_gene	mean_target_score
SPI1	HLA-DMB	31.06788036
SPI1	TNFSF13B	30.71262315
SPI1	CYTH4	30.5622377
SPI1	FCGR1A	30.56175442
SPI1	CASP1	30.25040159
SPI1	AIF1	30.0683532
SPI1	MPEG1	29.94175713
SPI1	IGSF6	29.51515093
SPI1	CD33	29.41860736
SPI1	CLEC12A	29.35844493
SPI1	GIMAP2	29.23291253
SPI1	GIMAP1	29.17898924
SPI1	SIRPB2	29.04357185
SPI1	C1QC	28.59109816
SPI1	P2RY13	28.52876308
SPI1	EVI2A	28.45135537
SPI1	MARCH1	28.35532781
SPI1	BIN2	28.26814449
SPI1	CD300LF	27.96972338
SPI1	RIPK3	27.83982009
SPI1	HCLS1	27.68046555
SPI1	IL18BP	27.46893792
SPI1	GPR65	27.36781
SPI1	LILRB2	27.08289658
SPI1	PSMB10	26.87247648
SPI1	AMICA1	26.80428611
SPI1	C1QB	26.74507297
SPI1	NLRC4	26.55742806
SPI1	SLCO2B1	26.51588576
SPI1	TLR8	26.20387558

tf	target_gene	mean_target_score
SPI1	LY86	25.90706616
SPI1	C1QA	25.88174394
SPI1	P2RY6	25.87775727
SPI1	CLEC4A	25.73614099
SPI1	CYBB	25.67258649
SPI1	NFAM1	25.63303501
SPI1	TNFSF13	25.57999105
SPI1	CSTA	25.55331613
SPI1	AOAH	25.49535408
SPI1	CCR1	25.3265326
SPI1	CSF1R	25.25167736
SPI1	FCER1G	25.20731604
SPI1	LILRB4	25.00911113
SPI1	CYSLTR1	24.83156306
SPI1	RNASET2	24.75949872
SPI1	HLA-DQA1	24.64790544
SPI1	GBP2	24.44984406
SPI1	IL411	24.37198006
SPI1	TLR2	24.22289253
SPI1	TLR7	24.00704974
SPI1	CD300A	23.90489388
SPI1	HLA-DQB1	23.68015523
SPI1	HCST	23.46383705
SPI1	LST1	23.39974809
SPI1	OSTF1	23.24937984
SPI1	C1orf162	22.80186933
SPI1	PILRA	22.60465153
SPI1	CD38	22.4194082
SPI1	TRPM2	22.33816343
SPI1	TBXAS1	22.32992233

tf	target_gene	mean_target_score
SPI1	LAT2	22.29307351
SPI1	MNDA	21.9770606
SPI1	CCL3	21.83147698
SPI1	UNC93B1	21.62052493
SPI1	MFSD7	21.42784172
SPI1	CD3D	21.2318459
SPI1	ARHGDIB	21.17950037
SPI1	CD8B	21.06870957
SPI1	TMEM176B	21.03612404
SPI1	CTSB	20.92330926
SPI1	MAFB	20.8829823
SPI1	GZMA	20.64152151
SPI1	GAB3	20.61933685
SPI1	FAM105A	20.22525494
SPI1	DOK3	20.06370999
SPI1	CD3E	19.99078564
SPI1	TNFRSF1B	19.95129548
SPI1	FYB	19.60910959
SPI1	TAPBP	19.16245296
SPI1	PTAFR	18.98884429
SPI1	SIGLEC10	18.81469493
SPI1	OSCAR	18.78484638
SPI1	CCRL2	18.71570766
SPI1	CCL4	18.64134459
SPI1	SIRPG	18.54645324
SPI1	CD300C	18.51881941
SPI1	NAGK	18.51414402
SPI1	FCGR3A	18.46323035
SPI1	CCL5	18.45475814
SPI1	PSTPIP1	18.39641608

tf	target_gene	mean_target_score
SPI1	ANKRD22	18.32162705
SPI1	CTSW	18.21462838
SPI1	NCF2	17.98636458
SPI1	KLHDC7B	17.98117216
SPI1	LILRA6	17.74049542
SPI1	CD84	17.66204918
SPI1	CST3	17.57755033
SPI1	GZMH	17.54505504
SPI1	GPR171	17.49223244
SPI1	RNASE6	17.3867158
SPI1	LPAR5	17.36898005
SPI1	LGMN	17.1301214
SPI1	MS4A4A	16.94385746
SPI1	PRF1	16.9169252
SPI1	FGR	16.82736217
SPI1	PTPN22	16.57049466
SPI1	CD68	16.51749
SPI1	PVRIG	16.50339692
SPI1	KYNU	16.39112409
SPI1	FCGR1B	16.07210479
SPI1	SQRDL	16.05258398
SPI1	NPL	15.94123746
SPI1	LILRB3	15.82144001
SPI1	ENTPD1	15.64917819
SPI1	PSMB8	15.60576554
SPI1	RHOG	15.4844465
SPI1	CD163	15.36903251
SPI1	LY96	15.31072163
SPI1	APOL3	15.23345242
SPI1	RARRES3	15.15682578

tf	target_gene	mean_target_score
SPI1	C10orf54	15.14989521
SPI1	SLC31A2	15.14142984
SPI1	LPXN	15.06274479
SPI1	TNFRSF4	15.05093818
SPI1	CD8A	14.83000328
SPI1	B2M	14.7488215
SPI1	PTPRCAP	14.69299336
SPI1	HLA-DOA	14.54992439
SPI1	APOE	14.24977396
SPI1	IRF5	14.20643046
SPI1	TM6SF1	14.04279565
SPI1	CD2	14.0403394
SPI1	CD80	14.01660816
SPI1	ITGAM	13.81171544
SPI1	EVI2B	13.73223654
SPI1	FOLR2	13.72694459
SPI1	FASLG	13.71720574
SPI1	SLA2	13.67221314
SPI1	MAN2B1	13.44123536
SPI1	HLA-DQB2	13.43548539
SPI1	BTN3A3	13.41550165
SPI1	NKG7	13.32944985
SPI1	MIR155HG	13.24152681
SPI1	TNFSF12-TNFSF13	13.22949508
SPI1	IL12RB1	13.0579937
SPI1	VAMP8	13.04283794
SPI1	LPAR6	13.03057917
SPI1	PTCRA	12.62765684
SPI1	HK3	12.59055363
SPI1	CLEC9A	12.49912776

tf	target_gene	mean_target_score
SPI1	SIGLEC1	12.49715709
SPI1	GHRL	12.47121905
SPI1	TLR4	12.437478
SPI1	GZMK	12.41514221
SPI1	CD27	12.2551815
SPI1	HLA-A	12.23986744
SPI1	SLA	12.2339082
SPI1	RAC2	11.97333005
SPI1	KCNJ10	11.88931558
SPI1	SRGN	11.81996287
SPI1	CYBA	11.76205613
SPI1	APBB1IP	11.53978191
SPI1	RAB20	11.50935717
SPI1	CCR2	11.11451479
SPI1	FUCA1	11.07216379
SPI1	SLAMF7	10.96810463
SPI1	NINJ1	10.9667927
SPI1	FPR2	10.94845131
SPI1	GIMAP7	10.80127144
SPI1	MPP1	10.77869437
SPI1	VAMP5	10.72984142
SPI1	C19orf38	10.49966501
SPI1	PYHIN1	10.46788055
SPI1	IL10	10.45080483
SPI1	ARID5A	10.45067012
SPI1	SAT1	10.24709887
SPI1	IRF1	10.20669957
STAT2	NLRC5	24.42735014
STAT2	BTN3A1	23.58176354
STAT2	TRIM26	18.67511968

tf	target_gene	mean_target_score
STAT2	IRF7	18.62594755
STAT2	PARP9	17.46140849
STAT2	DTX3L	16.42446561
STAT2	PARP10	13.64423609
STAT2	OAS1	12.91510526
STAT2	BTN3A2	12.65586837
STAT2	SP110	12.51004378
STAT2	C5orf56	11.91560015

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0034341	response to inter	55/338	202/18866	1.42E-49	2.82E-46	2.02E-46	IRF1/IRF4/IRF5/I	55
GO:0071346	cellular response	53/338	182/18866	1.72E-49	2.82E-46	2.02E-46	IRF1/IRF4/IRF5/I	53
GO:0060333	interferon-gamma	37/338	91/18866	5.72E-41	6.28E-38	4.50E-38	IRF1/IRF4/IRF5/I	37
GO:0042110	T cell activation	65/338	483/18866	3.86E-38	3.17E-35	2.27E-35	BATF/IRF1/IRF4/I	65
GO:0001819	positive regulatio	59/338	447/18866	4.26E-34	2.80E-31	2.01E-31	IRF1/IRF4/IRF5/I	59
GO:0050867	positive regulatio	53/338	421/18866	1.38E-29	7.57E-27	5.42E-27	TBX21/HLA-F/H/A	53
GO:0002696	positive regulatio	52/338	406/18866	2.12E-29	9.96E-27	7.14E-27	TBX21/HLA-F/H/A	52
GO:0050863	regulation of T ce	47/338	332/18866	1.46E-28	6.01E-26	4.31E-26	IRF1/IRF4/PRDM	47
GO:0019882	antigen processin	40/338	232/18866	9.07E-28	3.32E-25	2.38E-25	PSME1/PSMB8/I	40
GO:0002478	antigen processin	36/338	177/18866	1.05E-27	3.46E-25	2.48E-25	PSME1/PSMB8/I	36
GO:0050670	regulation of lym	39/338	219/18866	1.21E-27	3.61E-25	2.59E-25	IRF1/HAVCR2/H	39
GO:0032944	regulation of mor	39/338	221/18866	1.73E-27	4.74E-25	3.39E-25	IRF1/HAVCR2/H	39
GO:0070663	regulation of leuk	40/338	240/18866	3.52E-27	8.92E-25	6.39E-25	IRF1/HAVCR2/H	40
GO:0019884	antigen processin	36/338	185/18866	5.43E-27	1.28E-24	9.14E-25	PSME1/PSMB8/I	36
GO:0007159	leukocyte cell-cel	47/338	364/18866	9.22E-27	2.02E-24	1.45E-24	IRF1/TBX21/HAV	47
GO:0046651	lymphocyte prolif	42/338	283/18866	2.04E-26	4.19E-24	3.00E-24	IRF1/PSMB10/H	42
GO:0002697	regulation of imm	52/338	470/18866	2.61E-26	5.05E-24	3.62E-24	IRF4/STAT1/TBX	52
GO:0048002	antigen processin	36/338	194/18866	3.12E-26	5.43E-24	3.89E-24	PSME1/PSMB8/I	36
GO:0032943	mononuclear cell	42/338	286/18866	3.14E-26	5.43E-24	3.89E-24	IRF1/PSMB10/H	42
GO:0002683	negative regulati	51/338	463/18866	1.02E-25	1.67E-23	1.20E-23	IRF1/TBX21/PAF	51
GO:0070661	leukocyte prolifer	43/338	313/18866	1.23E-25	1.93E-23	1.38E-23	IRF1/PSMB10/H	43
GO:1903037	regulation of leuk	43/338	329/18866	9.55E-25	1.43E-22	1.02E-22	IRF1/TBX21/HAV	43
GO:0002429	immune respons	50/338	481/18866	4.49E-24	6.17E-22	4.42E-22	PAX5/PSME1/PS	50
GO:0002757	immune respons	50/338	481/18866	4.49E-24	6.17E-22	4.42E-22	PAX5/PSME1/PS	50
GO:0002699	positive regulatio	36/338	223/18866	4.79E-24	6.31E-22	4.52E-22	TBX21/DDX60/R	36
GO:0043312	neutrophil degran	50/338	487/18866	7.88E-24	9.97E-22	7.14E-22	HLA-C/HLA-B/B2	50
GO:0002283	neutrophil activat	50/338	490/18866	1.04E-23	1.27E-21	9.08E-22	HLA-C/HLA-B/B2	50
GO:0002831	regulation of resp	46/338	409/18866	1.27E-23	1.49E-21	1.07E-21	IRF1/IRF7/STAT	46
GO:0051251	positive regulatio	43/338	357/18866	2.61E-23	2.97E-21	2.12E-21	TBX21/HLA-F/H/A	43
GO:1903039	positive regulatio	36/338	235/18866	3.07E-23	3.37E-21	2.41E-21	HAVCR2/HLA-A/I	36
GO:0042098	T cell proliferation	33/338	195/18866	8.61E-23	9.14E-21	6.55E-21	IRF1/PSMB10/H	33

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0002460	adaptive immune	43/338	370/18866	1.09E-22	1.12E-20	8.06E-21	BATF/IRF4/IRF7/	43
GO:1903706	regulation of hem	49/338	498/18866	1.51E-22	1.48E-20	1.06E-20	IRF1/IRF4/IRF7/I	49
GO:0060337	type I interferon s	25/338	95/18866	1.58E-22	1.48E-20	1.06E-20	IRF1/IRF4/IRF5/I	25
GO:0071357	cellular response	25/338	95/18866	1.58E-22	1.48E-20	1.06E-20	IRF1/IRF4/IRF5/I	25
GO:0045088	regulation of inn	39/338	307/18866	4.68E-22	4.28E-20	3.06E-20	IRF1/IRF7/STAT	39
GO:0034340	response to type	25/338	99/18866	4.84E-22	4.30E-20	3.08E-20	IRF1/IRF4/IRF5/I	25
GO:1902105	regulation of leuk	38/338	290/18866	5.38E-22	4.66E-20	3.34E-20	IRF1/IRF4/IRF7/I	38
GO:0022409	positive regulatio	37/338	279/18866	1.27E-21	1.07E-19	7.67E-20	HAVCR2/HLA-A/	37
GO:0042129	regulation of T ce	30/338	167/18866	1.36E-21	1.12E-19	8.01E-20	IRF1/HAVCR2/H	30
GO:0032609	interferon-gamma	26/338	115/18866	1.53E-21	1.23E-19	8.78E-20	IRF8/HAVCR2/H	26
GO:0050870	positive regulatio	33/338	214/18866	1.79E-21	1.38E-19	9.90E-20	HAVCR2/HLA-A/	33
GO:0022407	regulation of cell	45/338	439/18866	1.80E-21	1.38E-19	9.90E-20	IRF1/TBX21/HAV	45
GO:0050671	positive regulatio	27/338	136/18866	9.73E-21	7.28E-19	5.22E-19	HAVCR2/HLA-A/	27
GO:0070665	positive regulatio	28/338	150/18866	1.07E-20	7.80E-19	5.59E-19	HAVCR2/HLA-A/	28
GO:0032946	positive regulatio	27/338	137/18866	1.19E-20	8.54E-19	6.11E-19	HAVCR2/HLA-A/	27
GO:0002703	regulation of leuk	32/338	211/18866	1.26E-20	8.81E-19	6.31E-19	TBX21/RSAD2/H	32
GO:0050851	antigen receptor-	38/338	325/18866	3.12E-20	2.14E-18	1.53E-18	PAX5/PSME1/PS	38
GO:0032649	regulation of inte	24/338	104/18866	3.35E-20	2.25E-18	1.61E-18	IRF8/HAVCR2/H	24
GO:0002449	lymphocyte medi	40/338	366/18866	3.56E-20	2.35E-18	1.68E-18	BATF/IRF7/TBX2	40
GO:0050852	T cell receptor sig	31/338	206/18866	6.51E-20	4.20E-18	3.01E-18	PSME1/PSMB8/	31
GO:0042590	antigen processin	21/338	80/18866	4.33E-19	2.74E-17	1.96E-17	PSME1/PSMB8/I	21
GO:0031349	positive regulatio	39/338	385/18866	1.58E-18	9.83E-17	7.04E-17	IRF7/DDX60/PAF	39
GO:0032729	positive regulatio	19/338	65/18866	2.28E-18	1.39E-16	9.97E-17	IRF8/HAVCR2/H	19
GO:0030098	lymphocyte differ	38/338	368/18866	2.33E-18	1.39E-16	9.99E-17	BATF/IKZF1/IRF	38
GO:0009615	response to virus	37/338	349/18866	2.78E-18	1.64E-16	1.17E-16	IRF1/IRF5/IRF7/I	37
GO:0030217	T cell differentiati	32/338	253/18866	3.29E-18	1.90E-16	1.36E-16	BATF/IRF1/IRF4/	32
GO:0042102	positive regulatio	22/338	101/18866	4.90E-18	2.78E-16	1.99E-16	HAVCR2/HLA-A/	22
GO:0051607	defense respons	32/338	258/18866	5.92E-18	3.30E-16	2.37E-16	IRF1/IRF5/IRF7/I	32
GO:0050866	negative regulatio	29/338	207/18866	7.94E-18	4.36E-16	3.12E-16	IRF1/TBX21/HLA	29
GO:0002695	negative regulatio	27/338	184/18866	3.37E-17	1.82E-15	1.30E-15	IRF1/TBX21/HLA	27

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0002819	regulation of ada	26/338	168/18866	3.44E-17	1.82E-15	1.31E-15	IRF1/IRF7/TBX2	26
GO:0002479	antigen processin	19/338	75/18866	4.52E-17	2.36E-15	1.69E-15	PSME1/PSMB8/I	19
GO:0002474	antigen processin	21/338	99/18866	5.09E-17	2.62E-15	1.87E-15	PSME1/PSMB8/I	21
GO:0006909	phagocytosis	37/338	382/18866	5.56E-17	2.82E-15	2.02E-15	IRF8/IL2RG/CD3	37
GO:0045785	positive regulatio	39/338	428/18866	6.12E-17	3.05E-15	2.18E-15	HAVCR2/HLA-A/	39
GO:0002833	positive regulatio	30/338	251/18866	1.89E-16	9.30E-15	6.66E-15	IRF7/DDX60/PAF	30
GO:0071222	cellular response	27/338	208/18866	7.98E-16	3.86E-14	2.77E-14	IRF8/CMPK2/HA	27
GO:0046631	alpha-beta T cell	23/338	146/18866	1.61E-15	7.68E-14	5.50E-14	BATF/IRF1/IRF4/	23
GO:0002237	response to mole	34/338	356/18866	1.68E-15	7.91E-14	5.66E-14	IRF5/IRF8/NFKB	34
GO:0071219	cellular response	27/338	222/18866	4.15E-15	1.92E-13	1.38E-13	IRF8/CMPK2/HA	27
GO:0051250	negative regulati	23/338	154/18866	5.33E-15	2.44E-13	1.75E-13	IRF1/TBX21/HLA	23
GO:0071216	cellular response	28/338	246/18866	7.03E-15	3.17E-13	2.27E-13	IRF8/CMPK2/HA	28
GO:0046634	regulation of alph	19/338	97/18866	7.70E-15	3.42E-13	2.45E-13	IRF1/IRF4/PRDM	19
GO:0002573	myeloid leukocyte	26/338	210/18866	8.84E-15	3.88E-13	2.78E-13	BATF/IRF4/IRF7/	26
GO:0032496	response to lipop	32/338	334/18866	1.09E-14	4.71E-13	3.37E-13	IRF8/NFKB2/CM	32
GO:0045089	positive regulatio	26/338	213/18866	1.25E-14	5.33E-13	3.82E-13	IRF7/PARP9/PSI	26
GO:0002224	toll-like receptor	22/338	152/18866	4.13E-14	1.74E-12	1.25E-12	IRF1/IRF4/IRF7/I	22
GO:0060326	cell chemotaxis	30/338	311/18866	6.41E-14	2.67E-12	1.91E-12	CXCR3/CXCL10/	30
GO:0032479	regulation of type	20/338	125/18866	8.62E-14	3.55E-12	2.54E-12	IRF1/IRF5/IRF7/I	20
GO:0032606	type I interferon p	20/338	127/18866	1.18E-13	4.79E-12	3.43E-12	IRF1/IRF5/IRF7/I	20
GO:0042116	macrophage activ	18/338	101/18866	2.23E-13	8.97E-12	6.42E-12	HAVCR2/IFNG/C	18
GO:0002456	T cell mediated ir	18/338	104/18866	3.79E-13	1.50E-11	1.08E-11	TBX21/RSAD2/H	18
GO:0002822	regulation of ada	21/338	153/18866	4.61E-13	1.81E-11	1.29E-11	TBX21/RSAD2/H	21
GO:0002706	regulation of lym	21/338	154/18866	5.26E-13	2.04E-11	1.46E-11	TBX21/RSAD2/H	21
GO:0002685	regulation of leuk	24/338	212/18866	7.13E-13	2.71E-11	1.94E-11	CXCR3/CXCL10/	24
GO:0030595	leukocyte chemo	25/338	232/18866	7.17E-13	2.71E-11	1.94E-11	CXCR3/CXCL10/	25
GO:0001909	leukocyte mediat	18/338	108/18866	7.44E-13	2.78E-11	1.99E-11	HLA-B/HLA-F/HA	18
GO:0043300	regulation of leuk	13/338	47/18866	1.27E-12	4.68E-11	3.35E-11	HLA-F/FGF/CCF	13
GO:0045619	regulation of lym	22/338	181/18866	1.57E-12	5.74E-11	4.11E-11	IRF1/IRF4/PRDM	22
GO:0002221	pattern recognitic	23/338	201/18866	1.74E-12	6.28E-11	4.50E-11	IRF1/IRF4/IRF7/I	23

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0030099	myeloid cell differ	33/338	431/18866	2.30E-12	8.25E-11	5.91E-11	BATF/FLI1/IKZF1	33
GO:0032612	interleukin-1 proc	18/338	121/18866	5.53E-12	1.96E-10	1.40E-10	HAVCR2/IFNG/C	18
GO:0002705	positive regulatio	19/338	138/18866	5.78E-12	2.03E-10	1.45E-10	TBX21/RSAD2/H	19
GO:0031341	regulation of cell	16/338	92/18866	7.28E-12	2.52E-10	1.81E-10	HLA-B/HLA-F/HA	16
GO:0002688	regulation of leuk	18/338	124/18866	8.46E-12	2.90E-10	2.08E-10	CXCL10/CCR2/F	18
GO:0002718	regulation of cyto	15/338	83/18866	1.87E-11	6.34E-10	4.54E-10	TBX21/RSAD2/H	15
GO:0046633	alpha-beta T cell	11/338	36/18866	2.09E-11	7.02E-10	5.03E-10	IRF1/HLA-A/CCF	11
GO:0019886	antigen processin	16/338	99/18866	2.33E-11	7.75E-10	5.55E-10	LAG3/CD74/CTS	16
GO:0002886	regulation of mye	13/338	58/18866	2.38E-11	7.83E-10	5.61E-10	FGR/CCR2/RAC	13
GO:0045580	regulation of T ce	19/338	150/18866	2.59E-11	8.43E-10	6.04E-10	IRF1/IRF4/PRDM	19
GO:0032635	interleukin-6 proc	20/338	170/18866	3.03E-11	9.79E-10	7.01E-10	HLA-B/HAVCR2/	20
GO:0050868	negative regulatio	17/338	118/18866	3.67E-11	1.17E-09	8.40E-10	IRF1/TBX21/HAV	17
GO:0001906	cell killing	20/338	172/18866	3.76E-11	1.19E-09	8.51E-10	HLA-B/HLA-F/HA	20
GO:0050727	regulation of infla	31/338	425/18866	3.81E-11	1.19E-09	8.51E-10	IFNG/ZBP1/CST	31
GO:0002709	regulation of T ce	14/338	73/18866	3.83E-11	1.19E-09	8.51E-10	TBX21/RSAD2/H	14
GO:0071706	tumor necrosis fa	17/338	119/18866	4.21E-11	1.30E-09	9.28E-10	HAVCR2/IFNG/L	17
GO:0002495	antigen processin	16/338	103/18866	4.34E-11	1.32E-09	9.47E-10	LAG3/CD74/CTS	16
GO:0002367	cytokine producti	16/338	104/18866	5.04E-11	1.51E-09	1.08E-09	TBX21/RSAD2/H	16
GO:0002504	antigen processin	16/338	104/18866	5.04E-11	1.51E-09	1.08E-09	LAG3/CD74/CTS	16
GO:0001774	microglial cell act	12/338	50/18866	5.94E-11	1.74E-09	1.25E-09	IFNG/CST7/ITGE	12
GO:0002269	leukocyte activati	12/338	50/18866	5.94E-11	1.74E-09	1.25E-09	IFNG/CST7/ITGE	12
GO:0032611	interleukin-1 beta	16/338	106/18866	6.78E-11	1.98E-09	1.42E-09	IFNG/CLEC7A/G	16
GO:0002761	regulation of mye	17/338	123/18866	7.22E-11	2.08E-09	1.49E-09	IRF7/IFNG/LILRB	17
GO:0050777	negative regulatio	19/338	159/18866	7.26E-11	2.08E-09	1.49E-09	TBX21/PARP14/I	19
GO:0150076	neuroinflammato	14/338	77/18866	8.15E-11	2.31E-09	1.66E-09	IFNG/CST7/ITGE	14
GO:0002286	T cell activation i	16/338	109/18866	1.05E-10	2.94E-09	2.11E-09	BATF/IRF4/TBX2	16
GO:0002700	regulation of proc	18/338	144/18866	1.09E-10	3.04E-09	2.18E-09	TBX21/RSAD2/H	18
GO:0050672	negative regulatio	14/338	79/18866	1.17E-10	3.23E-09	2.32E-09	HAVCR2/LILRB1	14
GO:0032652	regulation of inte	16/338	111/18866	1.38E-10	3.79E-09	2.72E-09	HAVCR2/IFNG/C	16
GO:0032945	negative regulatio	14/338	80/18866	1.39E-10	3.79E-09	2.72E-09	HAVCR2/LILRB1	14

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0034612	response to tumor	26/338	320/18866	1.51E-10	4.06E-09	2.91E-09	STAT1/PSME1/C	26
GO:0002690	positive regulation	15/338	96/18866	1.63E-10	4.36E-09	3.12E-09	CXCL10/CCR2/F	15
GO:0007204	positive regulation	26/338	322/18866	1.73E-10	4.55E-09	3.26E-09	FASLG/CXCR3/L	26
GO:0002285	lymphocyte activation	20/338	187/18866	1.73E-10	4.55E-09	3.26E-09	BATF/IRF4/TBX2	20
GO:1903555	regulation of tumor	16/338	113/18866	1.82E-10	4.76E-09	3.41E-09	HAVCR2/IFNG/L	16
GO:0050764	regulation of phenotype	15/338	97/18866	1.89E-10	4.91E-09	3.52E-09	IL2RG/SIRPG/IF	15
GO:0046640	regulation of alpha	10/338	33/18866	1.92E-10	4.93E-09	3.53E-09	IRF1/HLA-A/CCF	10
GO:0032640	tumor necrosis factor	16/338	116/18866	2.72E-10	6.94E-09	4.97E-09	HAVCR2/LGALS	16
GO:0002702	positive regulation	15/338	100/18866	2.95E-10	7.48E-09	5.36E-09	TBX21/RSAD2/H	15
GO:0032615	interleukin-12 production	12/338	57/18866	3.09E-10	7.71E-09	5.52E-09	IRF5/IRF8/HLA-E	12
GO:0060760	positive regulation	12/338	57/18866	3.09E-10	7.71E-09	5.52E-09	IRF7/PARP9/PAF	12
GO:0070664	negative regulation	14/338	86/18866	3.81E-10	9.42E-09	6.75E-09	HAVCR2/LILRB1	14
GO:1903038	negative regulation	17/338	137/18866	4.07E-10	9.99E-09	7.16E-09	IRF1/TBX21/HAV	17
GO:0002755	MyD88-dependent	10/338	36/18866	5.02E-10	1.22E-08	8.76E-09	IRF1/IRF7/CD14	10
GO:0032675	regulation of interleukin	18/338	159/18866	5.67E-10	1.36E-08	9.75E-09	HLA-B/HAVCR2/	18
GO:1902107	positive regulation	18/338	159/18866	5.67E-10	1.36E-08	9.75E-09	IFNG/LILRB4/CC	18
GO:0032732	positive regulation	12/338	60/18866	5.83E-10	1.38E-08	9.89E-09	HAVCR2/IFNG/C	12
GO:0061900	glial cell activation	12/338	60/18866	5.83E-10	1.38E-08	9.89E-09	IFNG/CST7/ITGE	12
GO:0002824	positive regulation	15/338	105/18866	5.99E-10	1.41E-08	1.01E-08	TBX21/RSAD2/H	15
GO:0031343	positive regulation	12/338	61/18866	7.14E-10	1.66E-08	1.19E-08	HLA-B/HLA-F/HL	12
GO:0002687	positive regulation	17/338	142/18866	7.17E-10	1.66E-08	1.19E-08	CXCL10/CCR2/F	17
GO:0001910	regulation of leukocyte	13/338	75/18866	7.26E-10	1.67E-08	1.20E-08	HLA-B/HLA-F/HA	13
GO:1903708	positive regulation	20/338	204/18866	8.18E-10	1.87E-08	1.34E-08	STAT1/IFNG/LILI	20
GO:0038061	NIK/NF-kappaB signaling	19/338	184/18866	9.08E-10	2.06E-08	1.48E-08	NFKB2/PSME1/F	19
GO:0046635	positive regulation	12/338	63/18866	1.06E-09	2.39E-08	1.71E-08	HLA-A/IFNG/CCI	12
GO:0002821	positive regulation	15/338	110/18866	1.17E-09	2.59E-08	1.86E-08	TBX21/RSAD2/H	15
GO:0032680	regulation of tumor	15/338	110/18866	1.17E-09	2.59E-08	1.86E-08	HAVCR2/LGALS	15
GO:0051480	regulation of cytokine	26/338	357/18866	1.59E-09	3.50E-08	2.50E-08	FASLG/CXCR3/L	26
GO:0002440	production of monocytes	24/338	306/18866	1.59E-09	3.50E-08	2.50E-08	BATF/TBX21/RS	24
GO:0046641	positive regulation	8/338	21/18866	1.62E-09	3.54E-08	2.53E-08	HLA-A/CCR2/LG	8

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0032651	regulation of inter	14/338	97/18866	1.96E-09	4.26E-08	3.05E-08	IFNG/CLEC7A/L	14
GO:0032731	positive regulatio	11/338	53/18866	2.02E-09	4.35E-08	3.12E-08	IFNG/CLEC7A/L	11
GO:0045637	regulation of mye	22/338	263/18866	2.36E-09	5.05E-08	3.62E-08	IRF7/SPI1/STAT	22
GO:0032623	interleukin-2 proc	11/338	54/18866	2.50E-09	5.31E-08	3.80E-08	IRF4/TBX21/HAV	11
GO:0002720	positive regulatio	11/338	55/18866	3.07E-09	6.44E-08	4.62E-08	RSAD2/HLA-F/H	11
GO:0032655	regulation of inter	11/338	55/18866	3.07E-09	6.44E-08	4.62E-08	IRF5/IRF8/HLA-E	11
GO:0050854	regulation of anti	12/338	69/18866	3.18E-09	6.62E-08	4.74E-08	PAX5/LILRB4/GE	12
GO:0002724	regulation of T ce	9/338	32/18866	3.34E-09	6.91E-08	4.95E-08	TBX21/RSAD2/H	9
GO:0097529	myeloid leukocyt	20/338	222/18866	3.59E-09	7.33E-08	5.25E-08	CXCL10/CCR2/C	20
GO:0031348	negative regulatio	22/338	269/18866	3.59E-09	7.33E-08	5.25E-08	PARP14/NMI/HL	22
GO:0030101	natural killer cell	13/338	85/18866	3.61E-09	7.33E-08	5.25E-08	PRDM1/HLA-F/H	13
GO:2000106	regulation of leuk	13/338	86/18866	4.18E-09	8.44E-08	6.05E-08	IRF7/CD3G/LILR	13
GO:0071356	cellular response	23/338	297/18866	4.49E-09	9.01E-08	6.45E-08	STAT1/PSME1/G	23
GO:0050663	cytokine secretio	12/338	72/18866	5.28E-09	1.05E-07	7.54E-08	IFNG/LCP2/FGR	12
GO:0032755	positive regulatio	13/338	88/18866	5.58E-09	1.10E-07	7.86E-08	IFNG/CLEC7A/C	13
GO:0019883	antigen processin	8/338	24/18866	5.60E-09	1.10E-07	7.86E-08	HLA-C/TAP1/HLA	8
GO:0098581	detection of exte	8/338	24/18866	5.60E-09	1.10E-07	7.86E-08	HLA-B/HLA-A/CL	8
GO:0032814	regulation of natu	9/338	34/18866	6.05E-09	1.18E-07	8.44E-08	PRDM1/HLA-F/H	9
GO:0002291	T cell activation v	6/338	10/18866	6.25E-09	1.21E-07	8.68E-08	HAVCR2/LILRB1	6
GO:0031663	lipopolysaccharic	11/338	59/18866	6.74E-09	1.30E-07	9.30E-08	HCK/IL18/CD14/	11
GO:0002218	activation of inna	16/338	144/18866	6.84E-09	1.31E-07	9.38E-08	PSME1/PSMB8/I	16
GO:0032481	positive regulatio	12/338	74/18866	7.30E-09	1.38E-07	9.89E-08	IRF1/IRF5/IRF7/I	12
GO:0034121	regulation of toll-	12/338	74/18866	7.30E-09	1.38E-07	9.89E-08	IRF1/IRF4/IRF7/I	12
GO:0032647	regulation of inter	8/338	25/18866	8.10E-09	1.52E-07	1.09E-07	IRF5/IRF7/STAT	8
GO:0071887	leukocyte apopto	14/338	108/18866	8.22E-09	1.54E-07	1.10E-07	IRF7/FASLG/CD	14
GO:0030225	macrophage diffe	10/338	47/18866	8.58E-09	1.60E-07	1.14E-07	SPI1/IFNG/C1QC	10
GO:0001818	negative regulatio	25/338	360/18866	8.66E-09	1.60E-07	1.15E-07	TBX21/NMI/HLA	25
GO:0002483	antigen processin	7/338	17/18866	9.28E-09	1.70E-07	1.22E-07	HLA-C/TAP1/HLA	7
GO:0019885	antigen processin	7/338	17/18866	9.28E-09	1.70E-07	1.22E-07	HLA-C/TAP1/HLA	7
GO:0042267	natural killer cell	11/338	61/18866	9.76E-09	1.76E-07	1.26E-07	HLA-B/HLA-F/HA	11

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0045576	mast cell activation	11/338	61/18866	9.76E-09	1.76E-07	1.26E-07	LCP2/FGR/RAC2	11
GO:0042554	superoxide anion	9/338	36/18866	1.05E-08	1.89E-07	1.35E-07	CLEC7A/ITGB2/	9
GO:0022408	negative regulation	18/338	191/18866	1.09E-08	1.95E-07	1.39E-07	IRF1/TBX21/HAV	18
GO:0090025	regulation of mor	8/338	26/18866	1.15E-08	2.05E-07	1.47E-07	CXCL10/CCR2/C	8
GO:0032663	regulation of inte	10/338	49/18866	1.32E-08	2.32E-07	1.66E-07	IRF4/TBX21/HAV	10
GO:0045058	T cell selection	10/338	49/18866	1.32E-08	2.32E-07	1.66E-07	BATF/IRF4/TBX2	10
GO:0045730	respiratory burst	9/338	37/18866	1.37E-08	2.39E-07	1.72E-07	CD52/CLEC7A/F	9
GO:0032613	interleukin-10 pro	11/338	63/18866	1.39E-08	2.42E-07	1.74E-07	IRF4/LILRB1/CLI	11
GO:0006874	cellular calcium i	28/338	456/18866	1.60E-08	2.77E-07	1.98E-07	FASLG/CXCR3/L	28
GO:0032607	interferon-alpha p	8/338	27/18866	1.61E-08	2.78E-07	1.99E-07	IRF5/IRF7/STAT	8
GO:0001961	positive regulatio	10/338	50/18866	1.62E-08	2.78E-07	1.99E-07	IRF7/PARP9/PAF	10
GO:0071675	regulation of mor	10/338	51/18866	1.99E-08	3.39E-07	2.43E-07	CXCL10/CCR2/C	10
GO:0030316	osteoclast differe	13/338	98/18866	2.13E-08	3.61E-07	2.59E-07	IFNG/LILRB1/LIL	13
GO:0002228	natural killer cell	11/338	66/18866	2.31E-08	3.87E-07	2.77E-07	HLA-B/HLA-F/HA	11
GO:0032930	positive regulatio	7/338	19/18866	2.33E-08	3.87E-07	2.77E-07	CLEC7A/ITGB2/	7
GO:0090026	positive regulatio	7/338	19/18866	2.33E-08	3.87E-07	2.77E-07	CXCL10/CCR2/C	7
GO:0098543	detection of othe	7/338	19/18866	2.33E-08	3.87E-07	2.77E-07	HLA-B/HLA-A/CL	7
GO:0072676	lymphocyte migr	14/338	117/18866	2.34E-08	3.87E-07	2.77E-07	TBX21/CXCR3/C	14
GO:0062207	regulation of patt	13/338	99/18866	2.41E-08	3.95E-07	2.83E-07	IRF1/IRF4/IRF7/I	13
GO:0002704	negative regulatio	10/338	52/18866	2.42E-08	3.95E-07	2.83E-07	TBX21/HLA-B/HI	10
GO:1903557	positive regulatio	10/338	52/18866	2.42E-08	3.95E-07	2.83E-07	IFNG/CD14/FCE	10
GO:0072678	T cell migration	11/338	67/18866	2.73E-08	4.42E-07	3.17E-07	CXCR3/CXCL10	11
GO:0055074	calcium ion home	28/338	468/18866	2.79E-08	4.50E-07	3.22E-07	FASLG/CXCR3/L	28
GO:0050766	positive regulatio	11/338	68/18866	3.20E-08	5.14E-07	3.68E-07	IL2RG/SIRPG/IF	11
GO:0006968	cellular defense r	10/338	54/18866	3.55E-08	5.67E-07	4.06E-07	LGALS3BP/CCR	10
GO:0007259	receptor signaling	16/338	164/18866	4.42E-08	7.03E-07	5.04E-07	STAT1/STAT2/ST	16
GO:0050921	positive regulatio	15/338	144/18866	4.89E-08	7.73E-07	5.54E-07	CXCL10/CCR2/F	15
GO:0050858	negative regulatio	8/338	31/18866	5.38E-08	8.48E-07	6.07E-07	LILRB4/GBP1/UE	8
GO:0002708	positive regulatio	13/338	106/18866	5.54E-08	8.65E-07	6.19E-07	TBX21/RSAD2/H	13
GO:2000379	positive regulatio	13/338	106/18866	5.54E-08	8.65E-07	6.19E-07	IFNG/CLEC7A/IT	13

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0002369	T cell cytokine pr	9/338	43/18866	5.64E-08	8.76E-07	6.27E-07	TBX21/RSAD2/H	9
GO:0019058	viral life cycle	23/338	341/18866	5.92E-08	9.15E-07	6.55E-07	OAS2/OAS3/OA	23
GO:0050730	regulation of pep	20/338	263/18866	6.31E-08	9.70E-07	6.95E-07	PARP9/PARP14/	20
GO:0033003	regulation of mas	9/338	44/18866	6.98E-08	1.06E-06	7.58E-07	FGR/RAC2/LGAI	9
GO:0042088	T-helper 1 type in	9/338	44/18866	6.98E-08	1.06E-06	7.58E-07	HAVCR2/IL18BP	9
GO:0097028	dendritic cell diffe	9/338	44/18866	6.98E-08	1.06E-06	7.58E-07	BATF/IRF4/SPI1/	9
GO:0043304	regulation of mas	8/338	32/18866	7.07E-08	1.07E-06	7.64E-07	FGR/RAC2/LGAI	8
GO:0032928	regulation of sup	7/338	22/18866	7.54E-08	1.13E-06	8.11E-07	CLEC7A/ITGB2/	7
GO:0018108	peptidyl-tyrosine	24/338	374/18866	7.75E-08	1.16E-06	8.31E-07	PARP9/PARP14/	24
GO:0050792	regulation of viral	18/338	217/18866	7.86E-08	1.17E-06	8.39E-07	STAT1/OAS2/OA	18
GO:0072503	cellular divalent in	28/338	492/18866	7.98E-08	1.18E-06	8.48E-07	FASLG/CXCR3/L	28
GO:0097530	granulocyte migr	15/338	150/18866	8.44E-08	1.25E-06	8.93E-07	CXCL10/CXCL11	15
GO:0018212	peptidyl-tyrosine	24/338	377/18866	9.00E-08	1.32E-06	9.47E-07	PARP9/PARP14/	24
GO:0033006	regulation of mas	8/338	33/18866	9.18E-08	1.34E-06	9.62E-07	FGR/RAC2/LGAI	8
GO:0033209	tumor necrosis fa	16/338	173/18866	9.36E-08	1.36E-06	9.77E-07	STAT1/PSME1/P	16
GO:0097696	receptor signaling	16/338	174/18866	1.01E-07	1.47E-06	1.05E-06	STAT1/STAT2/ST	16
GO:0032653	regulation of inter	10/338	60/18866	1.02E-07	1.47E-06	1.05E-06	IRF4/LILRB1/CLI	10
GO:0032677	regulation of inter	12/338	93/18866	1.02E-07	1.47E-06	1.05E-06	CLEC7A/CD74/L	12
GO:0043303	mast cell degran	9/338	47/18866	1.28E-07	1.82E-06	1.31E-06	FGR/RAC2/LGAI	9
GO:0007162	negative regulatio	21/338	301/18866	1.28E-07	1.82E-06	1.31E-06	IRF1/TBX21/HAV	21
GO:0046718	viral entry into ho	14/338	134/18866	1.32E-07	1.88E-06	1.34E-06	TRIM21/TNFRSF	14
GO:0045824	negative regulatio	10/338	62/18866	1.40E-07	1.98E-06	1.42E-06	PARP14/NMII/HL	10
GO:0002279	mast cell activatio	9/338	48/18866	1.55E-07	2.18E-06	1.56E-06	FGR/RAC2/LGAI	9
GO:0071674	mononuclear cell	12/338	97/18866	1.64E-07	2.30E-06	1.65E-06	CXCL10/CCR2/C	12
GO:0050729	positive regulatio	15/338	158/18866	1.68E-07	2.34E-06	1.68E-06	IFNG/ZBP1/CCR	15
GO:0050920	regulation of che	18/338	229/18866	1.77E-07	2.46E-06	1.76E-06	CXCL10/CCR2/F	18
GO:0002448	mast cell mediate	9/338	49/18866	1.87E-07	2.59E-06	1.85E-06	FGR/RAC2/LGAI	9
GO:0009595	detection of biotic	8/338	36/18866	1.91E-07	2.62E-06	1.87E-06	HLA-B/HLA-A/CL	8
GO:0043368	positive T cell sel	8/338	36/18866	1.91E-07	2.62E-06	1.87E-06	BATF/IRF4/TBX2	8
GO:0042130	negative regulatio	10/338	64/18866	1.92E-07	2.62E-06	1.87E-06	HAVCR2/LILRB1	10

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0043903	regulation of sym	18/338	231/18866	2.02E-07	2.73E-06	1.95E-06	STAT1/OAS2/OA	18
GO:0034162	toll-like receptor	7/338	25/18866	2.03E-07	2.73E-06	1.95E-06	RSAD2/HAVCR2	7
GO:0043302	positive regulatio	7/338	25/18866	2.03E-07	2.73E-06	1.95E-06	HLA-F/FGR/ITGE	7
GO:0071677	positive regulatio	7/338	25/18866	2.03E-07	2.73E-06	1.95E-06	CXCL10/CCR2/C	7
GO:0045953	negative regulatio	6/338	16/18866	2.18E-07	2.91E-06	2.09E-06	HLA-B/HLA-F/HA	6
GO:0032760	positive regulatio	9/338	50/18866	2.24E-07	2.99E-06	2.14E-06	CD14/FCER1G/T	9
GO:0007249	I-kappaB kinase/	20/338	286/18866	2.47E-07	3.28E-06	2.35E-06	STAT1/TRIM21/F	20
GO:0032637	interleukin-8 proc	12/338	101/18866	2.57E-07	3.40E-06	2.44E-06	CLEC7A/CD74/L	12
GO:0032743	positive regulatio	7/338	26/18866	2.73E-07	3.58E-06	2.57E-06	IRF4/CCR2/CLE	7
GO:0042832	defense respons	7/338	26/18866	2.73E-07	3.58E-06	2.57E-06	BATF/IRF4/IRF8	7
GO:0070555	response to inter	17/338	211/18866	2.75E-07	3.59E-06	2.57E-06	PSME1/GBP3/PS	17
GO:1990266	neutrophil migrat	13/338	122/18866	2.96E-07	3.85E-06	2.76E-06	CXCL10/CXCL11	13
GO:0002548	monocyte chemo	10/338	67/18866	2.99E-07	3.86E-06	2.77E-06	CXCL10/CCR2/C	10
GO:0045670	regulation of oste	10/338	67/18866	2.99E-07	3.86E-06	2.77E-06	IFNG/LILRB1/LIL	10
GO:0001912	positive regulatio	9/338	52/18866	3.19E-07	4.11E-06	2.94E-06	HLA-B/HLA-F/HL	9
GO:0002716	negative regulatio	6/338	17/18866	3.31E-07	4.25E-06	3.04E-06	HLA-B/HLA-F/HA	6
GO:0048525	negative regulatio	12/338	104/18866	3.56E-07	4.54E-06	3.25E-06	STAT1/OAS2/OA	12
GO:0001562	response to prote	7/338	27/18866	3.63E-07	4.62E-06	3.31E-06	BATF/IRF4/IRF8	7
GO:0042092	type 2 immune re	8/338	39/18866	3.70E-07	4.69E-06	3.36E-06	BATF/TBX21/RS	8
GO:0045621	positive regulatio	12/338	105/18866	3.95E-07	4.97E-06	3.56E-06	IFNG/LILRB4/FL	12
GO:1902106	negative regulatio	12/338	105/18866	3.95E-07	4.97E-06	3.56E-06	IRF1/TBX21/LILF	12
GO:0044409	entry into host	14/338	147/18866	4.18E-07	5.19E-06	3.72E-06	TRIM21/TNFRSF	14
GO:0034154	toll-like receptor	5/338	10/18866	4.20E-07	5.19E-06	3.72E-06	RSAD2/HAVCR2	5
GO:0046598	positive regulatio	5/338	10/18866	4.20E-07	5.19E-06	3.72E-06	TRIM21/CD74/C	5
GO:0075294	positive regulatio	5/338	10/18866	4.20E-07	5.19E-06	3.72E-06	TRIM21/CD74/C	5
GO:0046632	alpha-beta T cell	12/338	106/18866	4.39E-07	5.41E-06	3.87E-06	BATF/IRF1/IRF4	12
GO:0032757	positive regulatio	9/338	54/18866	4.47E-07	5.49E-06	3.94E-06	CLEC7A/CD74/L	9
GO:0010818	T cell chemotaxis	7/338	28/18866	4.77E-07	5.84E-06	4.18E-06	CXCR3/CXCL10	7
GO:0050731	positive regulatio	16/338	195/18866	4.84E-07	5.88E-06	4.21E-06	PARP9/PARP14/	16
GO:0050864	regulation of B ce	16/338	195/18866	4.84E-07	5.88E-06	4.21E-06	TBX21/CD38/CD	16

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0002292	T cell differentiat	10/338	71/18866	5.23E-07	6.33E-06	4.53E-06	BATF/IRF4/TBX2	10
GO:0042269	regulation of natu	8/338	41/18866	5.58E-07	6.73E-06	4.82E-06	HLA-B/HLA-F/HA	8
GO:0046427	positive regulatio	11/338	90/18866	6.11E-07	7.35E-06	5.26E-06	PARP9/PARP14/	11
GO:0031295	T cell costimulat	9/338	56/18866	6.17E-07	7.36E-06	5.27E-06	TNFRSF14/LCK/	9
GO:0070228	regulation of lym	9/338	56/18866	6.17E-07	7.36E-06	5.27E-06	CD3G/CD74/LGA	9
GO:0001773	myeloid dendritic	7/338	29/18866	6.19E-07	7.36E-06	5.27E-06	BATF/IRF4/SPI1/	7
GO:0070227	lymphocyte apop	10/338	73/18866	6.82E-07	8.07E-06	5.78E-06	FASLG/CD3G/CI	10
GO:0006801	superoxide metal	10/338	74/18866	7.76E-07	9.15E-06	6.56E-06	CLEC7A/NCF4/I	10
GO:0032728	positive regulatio	7/338	30/18866	7.95E-07	9.35E-06	6.70E-06	IRF1/IRF5/IRF7/	7
GO:0050856	regulation of T ce	8/338	43/18866	8.20E-07	9.61E-06	6.88E-06	LILRB4/GBP1/UF	8
GO:0031294	lymphocyte costi	9/338	58/18866	8.41E-07	9.82E-06	7.03E-06	TNFRSF14/LCK/	9
GO:1904894	positive regulatio	11/338	93/18866	8.54E-07	9.93E-06	7.12E-06	PARP9/PARP14/	11
GO:0019724	B cell mediated i	17/338	230/18866	9.27E-07	1.07E-05	7.69E-06	BATF/IRF7/TBX2	17
GO:0050707	regulation of cyto	9/338	59/18866	9.77E-07	1.13E-05	8.08E-06	IFNG/FGR/CLEC	9
GO:0001913	T cell mediated c	8/338	44/18866	9.87E-07	1.13E-05	8.12E-06	HLA-B/HLA-F/HL	8
GO:0001911	negative regulatio	6/338	20/18866	9.92E-07	1.13E-05	8.12E-06	HLA-B/HLA-F/HA	6
GO:0032727	positive regulatio	6/338	20/18866	9.92E-07	1.13E-05	8.12E-06	IRF5/IRF7/STAT	6
GO:0032102	negative regulatio	24/338	433/18866	1.11E-06	1.27E-05	9.07E-06	PARP14/NMI/HL	24
GO:0002715	regulation of natu	8/338	45/18866	1.18E-06	1.34E-05	9.61E-06	HLA-B/HLA-F/HA	8
GO:0072593	reactive oxygen s	19/338	288/18866	1.19E-06	1.35E-05	9.67E-06	IFNG/CLEC7A/R	19
GO:0032673	regulation of inte	7/338	32/18866	1.27E-06	1.43E-05	1.03E-05	IRF4/HAVCR2/LC	7
GO:0043367	CD4-positive, alp	10/338	78/18866	1.28E-06	1.43E-05	1.03E-05	BATF/IRF4/TBX2	10
GO:0043301	negative regulatio	5/338	12/18866	1.28E-06	1.43E-05	1.03E-05	HLA-F/CCR2/LG	5
GO:0002294	CD4-positive, alp	9/338	62/18866	1.50E-06	1.67E-05	1.20E-05	BATF/IRF4/TBX2	9
GO:0030888	regulation of B ce	9/338	62/18866	1.50E-06	1.67E-05	1.20E-05	CD38/CD74/TYR	9
GO:1901222	regulation of NIK	12/338	119/18866	1.54E-06	1.70E-05	1.22E-05	HAVCR2/LIME1/	12
GO:1901224	positive regulatio	10/338	80/18866	1.62E-06	1.79E-05	1.28E-05	HAVCR2/LGALS	10
GO:0002287	alpha-beta T cell	9/338	63/18866	1.73E-06	1.90E-05	1.36E-05	BATF/IRF4/TBX2	9
GO:0002293	alpha-beta T cell	9/338	63/18866	1.73E-06	1.90E-05	1.36E-05	BATF/IRF4/TBX2	9
GO:0051048	negative regulatio	15/338	190/18866	1.80E-06	1.96E-05	1.41E-05	RSAD2/HLA-F/LI	15

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:1903531	negative regulation of	14/338	166/18866	1.82E-06	1.98E-05	1.42E-05	RSAD2/HLA-F/L	14
GO:0032648	regulation of inter	8/338	48/18866	1.97E-06	2.12E-05	1.52E-05	IRF1/IRF5/IRF7/I	8
GO:0043370	regulation of CD4	8/338	48/18866	1.97E-06	2.12E-05	1.52E-05	IRF4/TBX21/IFN	8
GO:0002888	positive regulation	7/338	34/18866	1.98E-06	2.12E-05	1.52E-05	FGR/ITGB2/TYR	7
GO:0046637	regulation of alph	9/338	64/18866	1.98E-06	2.12E-05	1.52E-05	IRF4/PRDM1/TB	9
GO:2000401	regulation of lym	9/338	64/18866	1.98E-06	2.12E-05	1.52E-05	CXCL10/CCR2/T	9
GO:2001198	regulation of den	5/338	13/18866	2.05E-06	2.19E-05	1.57E-05	HLA-B/LILRB1/L	5
GO:0042113	B cell activation	20/338	328/18866	2.12E-06	2.25E-05	1.61E-05	BATF/TBX21/CD	20
GO:0052126	movement in hos	14/338	169/18866	2.25E-06	2.39E-05	1.71E-05	TRIM21/TNFRSF	14
GO:0048247	lymphocyte chem	9/338	65/18866	2.26E-06	2.39E-05	1.71E-05	CXCR3/CXCL10	9
GO:2000107	negative regulati	8/338	49/18866	2.32E-06	2.45E-05	1.76E-05	IRF7/LILRB1/CD	8
GO:0002698	negative regulati	12/338	124/18866	2.38E-06	2.50E-05	1.79E-05	TBX21/HLA-B/HI	12
GO:0030593	neutrophil chem	11/338	103/18866	2.38E-06	2.50E-05	1.79E-05	CXCL10/CXCL11	11
GO:0001914	regulation of T ce	7/338	35/18866	2.43E-06	2.53E-05	1.81E-05	HLA-B/HLA-F/HL	7
GO:0032633	interleukin-4 proc	7/338	35/18866	2.43E-06	2.53E-05	1.81E-05	IRF4/HAVCR2/LC	7
GO:0032735	positive regulatio	7/338	35/18866	2.43E-06	2.53E-05	1.81E-05	IRF5/IRF8/IFNG/	7
GO:0050860	negative regulati	6/338	23/18866	2.47E-06	2.56E-05	1.83E-05	LILRB4/GBP1/UE	6
GO:0060759	regulation of resp	15/338	196/18866	2.64E-06	2.73E-05	1.96E-05	IRF7/STAT1/PAR	15
GO:0019722	calcium-mediate	16/338	222/18866	2.70E-06	2.77E-05	1.99E-05	CXCR3/PLEK/CX	16
GO:0002711	positive regulatio	8/338	50/18866	2.72E-06	2.78E-05	1.99E-05	RSAD2/HLA-B/H	8
GO:0032608	interferon-beta pr	8/338	50/18866	2.72E-06	2.78E-05	1.99E-05	IRF1/IRF5/IRF7/I	8
GO:0071621	granulocyte chem	12/338	127/18866	3.06E-06	3.12E-05	2.24E-05	CXCL10/CXCL11	12
GO:0002407	dendritic cell che	6/338	24/18866	3.24E-06	3.27E-05	2.35E-05	TRPM2/CCR2/C	6
GO:0031342	negative regulati	6/338	24/18866	3.24E-06	3.27E-05	2.35E-05	HLA-B/HLA-F/HA	6
GO:0032753	positive regulatio	6/338	24/18866	3.24E-06	3.27E-05	2.35E-05	IRF4/HAVCR2/LC	6
GO:2000377	regulation of reac	15/338	200/18866	3.40E-06	3.42E-05	2.45E-05	IFNG/CLEC7A/R	15
GO:0009306	protein secretion	24/338	462/18866	3.43E-06	3.44E-05	2.46E-05	RSAD2/IFNG/LC	24
GO:0035592	establishment of	24/338	463/18866	3.56E-06	3.56E-05	2.55E-05	RSAD2/IFNG/LC	24
GO:0016064	immunoglobulin r	16/338	227/18866	3.60E-06	3.59E-05	2.57E-05	BATF/IRF7/TBX2	16
GO:0090322	regulation of sup	7/338	37/18866	3.61E-06	3.59E-05	2.57E-05	CLEC7A/ITGB2/	7

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0070098	chemokine-mediated	10/338	88/18866	3.90E-06	3.87E-05	2.77E-05	CXCR3/CXCL10	10
GO:0032689	negative regulation	7/338	38/18866	4.36E-06	4.30E-05	3.08E-05	HAVCR2/LILRB1	7
GO:2000403	positive regulation	7/338	38/18866	4.36E-06	4.30E-05	3.08E-05	CXCL10/CCR2/T	7
GO:0071692	protein localization	24/338	470/18866	4.59E-06	4.51E-05	3.23E-05	RSAD2/IFNG/LC	24
GO:0045346	regulation of MHC	5/338	15/18866	4.64E-06	4.55E-05	3.26E-05	SPI1/IFNG/TMEM	5
GO:0042742	defense response	20/338	348/18866	5.17E-06	5.05E-05	3.62E-05	IRF8/GBP4/GBP	20
GO:1903900	regulation of viral	13/338	157/18866	5.21E-06	5.08E-05	3.64E-05	OAS2/OAS3/OAS	13
GO:0002507	tolerance induction	6/338	26/18866	5.38E-06	5.23E-05	3.74E-05	HLA-B/HAVCR2/	6
GO:1903707	negative regulation	13/338	158/18866	5.59E-06	5.41E-05	3.88E-05	IRF1/TBX21/GPI	13
GO:0045582	positive regulation	10/338	92/18866	5.86E-06	5.65E-05	4.05E-05	IFNG/LILRB4/CD	10
GO:0050691	regulation of defe	7/338	40/18866	6.24E-06	6.01E-05	4.30E-05	STAT1/PARP9/D	7
GO:0045342	MHC class II bios	5/338	16/18866	6.65E-06	6.39E-05	4.57E-05	SPI1/IFNG/TMEM	5
GO:1901623	regulation of lym	6/338	27/18866	6.81E-06	6.52E-05	4.67E-05	CXCL10/CCR2/C	6
GO:1903305	regulation of regu	13/338	162/18866	7.35E-06	7.01E-05	5.02E-05	HLA-F/FGR/CCR	13
GO:0032418	lysosome localiza	9/338	75/18866	7.59E-06	7.20E-05	5.16E-05	FGR/RAC2/LGAI	9
GO:0032602	chemokine produ	9/338	75/18866	7.59E-06	7.20E-05	5.16E-05	HAVCR2/CLEC7	9
GO:0038093	Fc receptor signa	16/338	241/18866	7.72E-06	7.30E-05	5.23E-05	PSME1/PSMB8/I	16
GO:0070374	positive regulation	15/338	215/18866	8.20E-06	7.74E-05	5.54E-05	HAVCR2/CCR1/C	15
GO:0002758	innate immune re	11/338	117/18866	8.30E-06	7.80E-05	5.59E-05	PSME1/PSMB8/I	11
GO:0002763	positive regulation	8/338	58/18866	8.59E-06	8.05E-05	5.77E-05	IFNG/CCR1/CD7	8
GO:0002707	negative regulation	7/338	42/18866	8.76E-06	8.19E-05	5.87E-05	TBX21/HLA-B/HI	7
GO:0002643	regulation of toler	5/338	17/18866	9.29E-06	8.64E-05	6.19E-05	HLA-B/HAVCR2/	5
GO:0016045	detection of bacte	5/338	17/18866	9.29E-06	8.64E-05	6.19E-05	HLA-B/HLA-A/HL	5
GO:0035710	CD4-positive, alp	10/338	97/18866	9.44E-06	8.68E-05	6.22E-05	BATF/IRF4/TBX2	10
GO:0042100	B cell proliferation	10/338	97/18866	9.44E-06	8.68E-05	6.22E-05	CD38/CD74/TYR	10
GO:1990868	response to chemo	10/338	97/18866	9.44E-06	8.68E-05	6.22E-05	CXCR3/CXCL10	10
GO:1990869	cellular response	10/338	97/18866	9.44E-06	8.68E-05	6.22E-05	CXCR3/CXCL10	10
GO:0002832	negative regulation	10/338	98/18866	1.03E-05	9.49E-05	6.79E-05	PARP14/NMI/HL	10
GO:0002230	positive regulation	6/338	29/18866	1.06E-05	9.62E-05	6.89E-05	STAT1/PARP9/D	6
GO:0036336	dendritic cell mig	6/338	29/18866	1.06E-05	9.62E-05	6.89E-05	TRPM2/CCR2/C	6

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0045671	negative regulation of	6/338	29/18866	1.06E-05	9.62E-05	6.89E-05	LILRB1/LILRB4/L	6
GO:0050855	regulation of B cell	6/338	29/18866	1.06E-05	9.62E-05	6.89E-05	PAX5/NFAM1/CD	6
GO:0050830	defense response	10/338	99/18866	1.13E-05	0.000102431797	7.34E-05	GBP4/GBP2/HAV	10
GO:0043372	positive regulation of	6/338	30/18866	1.31E-05	0.000117821015	8.44E-05	IFNG/LGALS9/C	6
GO:0051047	positive regulation of	19/338	340/18866	1.32E-05	0.000119068617	8.53E-05	HLA-F/IFNG/FGF	19
GO:0045639	positive regulation of	10/338	101/18866	1.35E-05	0.000121391619	8.69E-05	STAT1/IFNG/CCI	10
GO:0032722	positive regulation of	7/338	45/18866	1.41E-05	0.000125904686	9.02E-05	HAVCR2/CLEC7	7
GO:1903532	positive regulation of	18/338	313/18866	1.52E-05	0.000135824576	9.73E-05	HLA-F/IFNG/FGF	18
GO:0002828	regulation of type I	6/338	31/18866	1.60E-05	0.000141963973	0.000101681684	TBX21/RSAD2/C	6
GO:2000514	regulation of CD4	8/338	63/18866	1.61E-05	0.000142422208	0.000102009895	IRF4/TBX21/IFN	8
GO:1904407	positive regulation of	7/338	46/18866	1.63E-05	0.000144668438	0.000103618757	IFNG/CLEC7A/IT	7
GO:0032480	negative regulation of	7/338	47/18866	1.89E-05	0.000166947959	0.000119576462	NMI/HAVCR2/NL	7
GO:0046209	nitric oxide metabolic	9/338	84/18866	1.93E-05	0.000169536886	0.000121430781	IFNG/CLEC7A/IT	9
GO:0045589	regulation of regulatory	6/338	32/18866	1.93E-05	0.000169536886	0.000121430781	IRF1/IFNG/LILRB	6
GO:0002791	regulation of peptide	20/338	381/18866	1.95E-05	0.000169536886	0.000121430781	RSAD2/IFNG/FG	20
GO:0002887	negative regulation of	4/338	10/18866	1.95E-05	0.000169536886	0.000121430781	CCR2/LGALS9/C	4
GO:0032817	regulation of natural	4/338	10/18866	1.95E-05	0.000169536886	0.000121430781	FLT3LG/IL15/IL1	4
GO:0045348	positive regulation of	4/338	10/18866	1.95E-05	0.000169536886	0.000121430781	IFNG/TMEM106/	4
GO:0050708	regulation of protein	19/338	352/18866	2.14E-05	0.000185807377	0.000133084519	RSAD2/IFNG/FG	19
GO:0002577	regulation of anti-	5/338	20/18866	2.23E-05	0.000191389766	0.000137082904	CD74/WAS/LILR	5
GO:0002726	positive regulation of	5/338	20/18866	2.23E-05	0.000191389766	0.000137082904	RSAD2/HLA-A/B	5
GO:0032816	positive regulation of	5/338	20/18866	2.23E-05	0.000191389766	0.000137082904	HLA-F/FLT3LG/II	5
GO:0051222	positive regulation of	19/338	354/18866	2.32E-05	0.000198812283	0.000142399281	TP73/IFNG/GZM	19
GO:1903901	negative regulation of	9/338	86/18866	2.34E-05	0.000200070630	0.000143300572	OAS2/OAS3/OAS	9
GO:0070231	T cell apoptotic p	7/338	49/18866	2.51E-05	0.000213689011	0.000153054737	FASLG/LGALS9/	7
GO:2001057	reactive nitrogen	9/338	87/18866	2.57E-05	0.000218551410	0.000156537430	IFNG/CLEC7A/IT	9
GO:0051090	regulation of DNA	22/338	455/18866	2.67E-05	0.000226170596	0.000161994671	NFKB2/TRIM21/	22
GO:0001959	regulation of cyto	13/338	183/18866	2.71E-05	0.0002291297230	0.000164114146	IRF7/STAT1/PAR	13
GO:0071347	cellular response	13/338	183/18866	2.71E-05	0.0002291297230	0.000164114146	PSME1/GBP3/PS	13
GO:0070232	regulation of T cell	6/338	34/18866	2.79E-05	0.000234525664	0.000167978988	LGALS9/RIPK3/C	6

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0032642	regulation of che	8/338	68/18866	2.83E-05	0.000237844308	0.000170355967	HAVCR2/CLEC7	8
GO:0006898	receptor-mediate	18/338	328/18866	2.84E-05	0.000237844308	0.000170355967	MX1/B2M/LILRB	18
GO:0097300	programmed nec	7/338	50/18866	2.87E-05	0.000239725847	0.000171703618	FASLG/ZBP1/CD	7
GO:0001787	natural killer cell	4/338	11/18866	3.02E-05	0.000249644721	0.000178808012	FLT3LG/IL15/IL1	4
GO:0035747	natural killer cell	4/338	11/18866	3.02E-05	0.000249644721	0.000178808012	CCL3/CCL4/CCL	4
GO:0051132	NK T cell activati	4/338	11/18866	3.02E-05	0.000249644721	0.000178808012	IL15/IL18/CD300	4
GO:0098883	synapse pruning	4/338	11/18866	3.02E-05	0.000249644721	0.000178808012	C1QC/C1QB/C1C	4
GO:0051701	interaction with h	14/338	212/18866	3.03E-05	0.000249644721	0.000178808012	TRIM21/TNFRSF	14
GO:0051091	positive regulatio	16/338	270/18866	3.15E-05	0.000259203721	0.000185654644	NFKB2/TRIM21/	16
GO:0050853	B cell receptor si	11/338	135/18866	3.22E-05	0.000264014690	0.000189100501	PAX5/LIME1/CD	11
GO:0002762	negative regulatio	7/338	51/18866	3.27E-05	0.000268190968	0.000192091759	LILRB1/LILRB4/L	7
GO:0045066	regulatory T cell	6/338	35/18866	3.31E-05	0.000270509575	0.000193752461	IRF1/IFNG/LILRE	6
GO:0002223	stimulatory C-typ	10/338	113/18866	3.62E-05	0.000294888320	0.000211213735	PSME1/PSMB8/I	10
GO:0032069	regulation of nucl	5/338	22/18866	3.67E-05	0.000298496887	0.000213798371	OAS2/OAS3/OAS	5
GO:0042531	positive regulatio	8/338	71/18866	3.89E-05	0.000315763881	0.000226165855	PARP9/PARP14/	8
GO:0045622	regulation of T-he	6/338	36/18866	3.91E-05	0.000315835749	0.000226217330	IRF4/TBX21/CD8	6
GO:2000516	positive regulatio	6/338	36/18866	3.91E-05	0.000315835749	0.000226217330	IFNG/LGALS9/C	6
GO:1904951	positive regulatio	19/338	370/18866	4.24E-05	0.000341011312	0.000244249325	TP73/IFNG/GZM	19
GO:0032621	interleukin-18 pro	4/338	12/18866	4.47E-05	0.000357309931	0.000255923209	GBP5/TLR2/CD8	4
GO:0033004	negative regulatio	4/338	12/18866	4.47E-05	0.000357309931	0.000255923209	LGALS9/CD300L	4
GO:0072540	T-helper 17 cell li	4/338	12/18866	4.47E-05	0.000357309931	0.000255923209	BATF/IRF4/TBX2	4
GO:0002220	innate immune re	10/338	116/18866	4.53E-05	0.000361476198	0.000258907298	PSME1/PSMB8/I	10
GO:0062208	positive regulatio	6/338	37/18866	4.60E-05	0.000365944871	0.000262107984	DDX60/RSAD2/T	6
GO:0017157	regulation of exo	14/338	222/18866	5.01E-05	0.000397743385	0.000284883668	HLA-F/IFNG/FGF	14
GO:0046425	regulation of rece	11/338	142/18866	5.13E-05	0.000405664945	0.000290557484	PARP9/PARP14/	11
GO:0032733	positive regulatio	6/338	38/18866	5.38E-05	0.000423964885	0.000303664815	IRF4/CLEC7A/LC	6
GO:0046596	regulation of viral	6/338	38/18866	5.38E-05	0.000423964885	0.000303664815	TRIM21/TRIM26/	6
GO:0032720	negative regulatio	7/338	55/18866	5.40E-05	0.000424194211	0.00030382907	HAVCR2/LGALS	7
GO:0050728	negative regulatio	13/338	196/18866	5.54E-05	0.000434452133	0.000311176305	CST7/TNFAIP8L	13
GO:1903306	negative regulatio	5/338	24/18866	5.76E-05	0.000450028946	0.000322333196	HLA-F/CCR2/LG	5

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:1903307	positive regulation	7/338	56/18866	6.08E-05	0.000474032192	0.000339525519	HLA-F/FGR/ITGB	7
GO:1901216	positive regulation	9/338	97/18866	6.12E-05	0.000476397392	0.000341219594	FASLG/IFNG/ITGB	9
GO:2000249	regulation of actin	6/338	39/18866	6.27E-05	0.000486574731	0.000348509112	TRPM2/HCK/GM	6
GO:0048872	homeostasis of n	15/338	256/18866	6.31E-05	0.000488601115	0.000349960509	IKZF1/SPI1/STAT	15
GO:0035723	interleukin-15-me	4/338	13/18866	6.37E-05	0.000489813991	0.000350829232	STAT5A/IL2RG/IL	4
GO:0071350	cellular response	4/338	13/18866	6.37E-05	0.000489813991	0.000350829232	STAT5A/IL2RG/IL	4
GO:1902563	regulation of neu	4/338	13/18866	6.37E-05	0.000489813991	0.000350829232	ITGB2/CD300A/F	4
GO:0050714	positive regulation	12/338	172/18866	6.57E-05	0.000504026767	0.000361009131	IFNG/FGR/CD38	12
GO:1903556	negative regulatio	7/338	57/18866	6.82E-05	0.000522285383	0.000374086863	HAVCR2/LGALS	7
GO:0060330	regulation of resp	5/338	25/18866	7.09E-05	0.000540206905	0.000386923153	STAT1/PARP9/P	5
GO:0060334	regulation of inte	5/338	25/18866	7.09E-05	0.000540206905	0.000386923153	STAT1/PARP9/P	5
GO:0034142	toll-like receptor	4/338	40/18866	7.26E-05	0.000552165401	0.000395488424	ITGB2/CD14/PTI	6
GO:1901214	regulation of neu	17/338	321/18866	7.34E-05	0.000556666154	0.000398712088	FASLG/HLA-F/IF	17
GO:0035306	positive regulation	7/338	58/18866	7.64E-05	0.000578226100	0.000414154398	IFNG/PLEK/CD3	7
GO:0050688	regulation of defe	8/338	78/18866	7.70E-05	0.000581375372	0.000416410064	STAT1/DDX60/P	8
GO:0019932	second-messeng	21/338	456/18866	8.14E-05	0.000613541678	0.000439449178	CXCR3/PLEK/CX	21
GO:0043030	regulation of mac	7/338	59/18866	8.54E-05	0.000641676196	0.000459600524	HAVCR2/CST7/C	7
GO:0035589	G protein-couple	4/338	14/18866	8.79E-05	0.000654660429	0.000468900480	GPR171/P2RY13	4
GO:0045059	positive thymic T	4/338	14/18866	8.79E-05	0.000654660429	0.000468900480	CD3D/CD3G/CD	4
GO:0045591	positive regulatio	4/338	14/18866	8.79E-05	0.000654660429	0.000468900480	IFNG/LILRB4/LG	4
GO:0070672	response to inter	4/338	14/18866	8.79E-05	0.000654660429	0.000468900480	STAT5A/IL2RG/IL	4
GO:1904892	regulation of rece	11/338	151/18866	8.95E-05	0.000665340363	0.000476549982	PARP9/PARP14/	11
GO:0042093	T-helper cell diffe	7/338	60/18866	9.52E-05	0.000704143961	0.000504343056	BATF/IRF4/TBX2	7
GO:1903428	positive regulation	7/338	60/18866	9.52E-05	0.000704143961	0.000504343056	IFNG/CLEC7A/IT	7
GO:1902622	regulation of neu	6/338	42/18866	9.63E-05	0.000710905977	0.000509186349	RAC2/CD74/SLA	6
GO:0002825	regulation of T-he	5/338	27/18866	0.000104594723	0.000768584440	0.000550498543	HAVCR2/CCR2/I	5
GO:0036037	CD8-positive, alp	5/338	27/18866	0.000104594723	0.000768584440	0.000550498543	IRF1/HLA-A/LILF	5
GO:0045071	negative regulatio	7/338	61/18866	0.000105890110	0.000776370251	0.000556075130	OAS2/OAS3/OAS	7
GO:0031532	actin cytoskeleto	9/338	105/18866	0.000113583402	0.000830925692	0.000595150460	PLEK/TRPM2/GI	9
GO:0001916	positive regulatio	5/338	28/18866	0.000125475592	0.000915888361	0.000656004965	HLA-B/HLA-F/HL	5

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:2000404	regulation of T cell	6/338	44/18866	0.000125764643	0.000915967271	0.000656061484	CXCL10/CCR2/T	6
GO:0070372	regulation of ERK	16/338	306/18866	0.000137974719	0.001002677209	0.000718167470	HAVCR2/GBP1/C	16
GO:0007229	integrin-mediated	9/338	108/18866	0.000141073984	0.001022941757	0.000732681952	PLEK/FGR/ITGA	9
GO:0051092	positive regulatio	11/338	159/18866	0.000141892367	0.001025237515	0.000734326288	NFKB2/TRIM21/I	11
GO:0034122	negative regulatio	6/338	45/18866	0.000142947758	0.001025237515	0.000734326288	IRF4/CD14/CD30	6
GO:0045429	positive regulatio	6/338	45/18866	0.000142947758	0.001025237515	0.000734326288	IFNG/CLEC7A/IT	6
GO:0052372	modulation by sy	6/338	45/18866	0.000142947758	0.001025237515	0.000734326288	TRIM21/TRIM26/	6
GO:0070266	necroptotic proce	6/338	45/18866	0.000142947758	0.001025237515	0.000734326288	FASLG/ZBP1/CD	6
GO:0070265	necrotic cell deat	7/338	64/18866	0.000144020704	0.001030687305	0.000738229699	FASLG/ZBP1/CD	7
GO:0051651	maintenance of h	13/338	216/18866	0.000148009435	0.00105693506	0.000757029652	SP100/FASLG/LI	13
GO:0043032	positive regulatio	5/338	29/18866	0.000149405976	0.00106229908	0.000760871630	HAVCR2/CCL3/T	5
GO:0050690	regulation of defe	5/338	29/18866	0.000149405976	0.00106229908	0.000760871630	B2M/LCK/CD4/H	5
GO:0043123	positive regulatio	12/338	188/18866	0.000153217205	0.001087049655	0.000778599228	TRIM21/FASLG/C	12
GO:0042509	regulation of tyro	8/338	86/18866	0.000153953893	0.001089927348	0.000780660375	PARP9/PARP14/	8
GO:0002295	T-helper cell line	4/338	16/18866	0.000155345012	0.001092726029	0.000782664930	BATF/IRF4/TBX2	4
GO:0002830	positive regulatio	4/338	16/18866	0.000155345012	0.001092726029	0.000782664930	RSAD2/CD74/CD	4
GO:0051770	positive regulatio	4/338	16/18866	0.000155345012	0.001092726029	0.000782664930	STAT1/IFNG/TLF	4
GO:0050798	activated T cell p	6/338	46/18866	0.000161937765	0.001136671905	0.000814141160	BTN3A1/LGALS9	6
GO:0035666	TRIF-dependent	5/338	30/18866	0.000176674494	0.001237473265	0.000886340127	IRF7/CD14/CD30	5
GO:0046638	positive regulatio	6/338	47/18866	0.000182867774	0.00127813315	0.000915462766	IFNG/LGALS9/C	6
GO:0043122	regulation of I-ka	14/338	252/18866	0.000192410367	0.001341980783	0.000961193628	STAT1/TRIM21/F	14
GO:0007260	tyrosine phospho	8/338	89/18866	0.000195630251	0.001359557877	0.000973783220	PARP9/PARP14/	8
GO:0002793	positive regulatio	12/338	193/18866	0.000195756510	0.001359557877	0.000973783220	IFNG/FGR/CD38	12
GO:0043270	positive regulatio	15/338	284/18866	0.000199088162	0.001379785752	0.000988271434	IFNG/CXCL10/C	15
GO:0030889	negative regulatio	4/338	17/18866	0.000200285269	0.001383389436	0.000990852573	TYROBP/CD300	4
GO:0051924	regulation of calc	14/338	253/18866	0.000200448590	0.001383389436	0.000990852573	LIME1/LILRB1/C	14
GO:0002820	negative regulatio	6/338	48/18866	0.000205876252	0.001417875779	0.001015553414	TBX21/HLA-F/HA	6
GO:2000406	positive regulatio	5/338	31/18866	0.000207581924	0.001426638198	0.001021829495	CXCL10/CCR2/T	5
GO:0045428	regulation of nitri	7/338	68/18866	0.000211432571	0.001450075056	0.001038616143	IFNG/CLEC7A/IT	7
GO:0045921	positive regulatio	8/338	91/18866	0.000228247019	0.001562139686	0.001118882425	HLA-F/IFNG/FGF	8

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0035456	response to inter	5/338	32/18866	0.000242440841	0.001652412528	0.001183540341	IRF1/STAT1/XAF	5
GO:0050869	negative regulati	5/338	32/18866	0.000242440841	0.001652412528	0.001183540341	SAMSN1/TYROE	5
GO:0070230	positive regulatio	4/338	18/18866	0.000253888607	0.001723301644	0.001234314665	LGALS9/CCL5/IL	4
GO:2001185	regulation of CD8	4/338	18/18866	0.000253888607	0.001723301644	0.001234314665	IRF1/HLA-A/LILF	4
GO:0070371	ERK1 and ERK2	16/338	325/18866	0.000272905017	0.001848566498	0.001324035607	HAVCR2/GBP1/C	16
GO:0051209	release of seque	9/338	118/18866	0.000275891201	0.001864956538	0.001335774971	FASLG/LIME1/C	9
GO:0045920	negative regulati	5/338	33/18866	0.000281575223	0.001899478759	0.001360501509	HLA-F/CCR2/LG	5
GO:0070997	neuron death	17/338	360/18866	0.000288296375	0.001940513255	0.001389892464	FASLG/HLA-F/IF	17
GO:0043277	apoptotic cell cle	6/338	51/18866	0.000288837027	0.001940513255	0.001389892464	CCR2/RAC2/C2/	6
GO:0051283	negative regulati	9/338	119/18866	0.000293848103	0.001970158774	0.001411126064	FASLG/LIME1/C	9
GO:0045638	negative regulati	8/338	95/18866	0.000306889651	0.002053416123	0.001470759134	GPR171/LILRB1	8
GO:0043373	CD4-positive, alp	4/338	19/18866	0.000317072746	0.002108693904	0.00151035184	BATF/IRF4/TBX2	4
GO:0061081	positive regulatio	4/338	19/18866	0.000317072746	0.002108693904	0.00151035184	LILRB1/CD74/FC	4
GO:0150146	cell junction disa	4/338	19/18866	0.000317072746	0.002108693904	0.00151035184	C1QC/C1QB/C1Q	4
GO:0071622	regulation of gran	6/338	52/18866	0.000321650285	0.002134824075	0.001529067573	RAC2/CD74/C3A	6
GO:0002756	MyD88-independ	5/338	34/18866	0.000325320043	0.002141907165	0.001534140836	IRF7/CD14/CD30	5
GO:0010922	positive regulatio	5/338	34/18866	0.000325320043	0.002141907165	0.001534140836	IFNG/PLEK/CD3	5
GO:0050715	positive regulatio	5/338	34/18866	0.000325320043	0.002141907165	0.001534140836	IFNG/FGR/CLEC	5
GO:0055094	response to lipop	5/338	34/18866	0.000325320043	0.002141907165	0.001534140836	ITGB2/FCER1G/	5
GO:0051282	regulation of seq	9/338	121/18866	0.0003326699	0.002185926768	0.001565669873	FASLG/LIME1/C	9
GO:0006471	protein ADP-ribos	5/338	35/18866	0.000374020844	0.00245274227	0.001756776455	PARP12/PARP9/	5
GO:0002827	positive regulatio	4/338	20/18866	0.000390774235	0.002537334878	0.001817365903	CCR2/IL18/CD80	4
GO:0007252	I-kappaB phosph	4/338	20/18866	0.000390774235	0.002537334878	0.001817365903	TLR2/TLR7/TLR4	4
GO:0034138	toll-like receptor	4/338	20/18866	0.000390774235	0.002537334878	0.001817365903	HAVCR2/UNC93	4
GO:0051767	nitric-oxide synth	4/338	20/18866	0.000390774235	0.002537334878	0.001817365903	STAT1/IFNG/TLF	4
GO:0051769	regulation of nitri	4/338	20/18866	0.000390774235	0.002537334878	0.001817365903	STAT1/IFNG/TLF	4
GO:0051208	sequestering of c	9/338	124/18866	0.000398772523	0.002584171551	0.001850912667	FASLG/LIME1/C	9
GO:0033077	T cell differenti	7/338	76/18866	0.000422038404	0.002729568622	0.001955053307	CD3D/CD3G/B2I	7
GO:0010543	regulation of plat	5/338	36/18866	0.000428033290	0.002757506053	0.00197506349	PLEK/FCER1G/A	5
GO:0071402	cellular response	5/338	36/18866	0.000428033290	0.002757506053	0.00197506349	ITGB2/FCER1G/	5

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0050848	regulation of calc	8/338	100/18866	0.000434947608	0.002795717323	0.002002432309	PLEK/GBP1/CD4	8
GO:0010950	positive regulatio	11/338	181/18866	0.000435663118	0.002795717323	0.002002432309	PSME1/FASLG/F	11
GO:0006911	phagocytosis, en	9/338	126/18866	0.000448578667	0.002872998004	0.002057784591	RAC2/ITGB2/FC	9
GO:0002363	alpha-beta T cell	4/338	21/18866	0.000475945184	0.00303645649	0.002174861718	BATF/IRF4/TBX2	4
GO:0140131	positive regulatio	4/338	21/18866	0.000475945184	0.00303645649	0.002174861718	CCR2/CCL3/CCI	4
GO:0051051	negative regulatio	20/338	483/18866	0.000479215869	0.003051409364	0.002185571713	SP100/RSAD2/H	20
GO:0006959	humoral immune	17/338	377/18866	0.000488993030	0.003107654548	0.002225857321	PAX5/PSMB10/H	17
GO:1903409	reactive oxygen s	9/338	128/18866	0.000503390193	0.003192987509	0.002286977048	IFNG/CLEC7A/IT	9
GO:0048661	positive regulatio	8/338	103/18866	0.000530609707	0.003359167612	0.002406003534	STAT1/IL18/AIF1	8
GO:1905517	macrophage mig	6/338	57/18866	0.000531941235	0.003361133491	0.002407411594	CCR2/SLAMF8/C	6
GO:0006809	nitric oxide biosy	7/338	79/18866	0.000534606720	0.003371504451	0.002414839794	IFNG/CLEC7A/IT	7
GO:0030224	monocyte differe	5/338	38/18866	0.000553463616	0.003477103481	0.00249047509	IRF7/CD74/CD4/	5
GO:1903131	mononuclear cell	5/338	38/18866	0.000553463616	0.003477103481	0.00249047509	IRF7/CD74/CD4/	5
GO:0043369	CD4-positive or C	4/338	22/18866	0.000573550174	0.003564992812	0.002553425817	BATF/IRF4/TBX2	4
GO:0045061	thymic T cell sele	4/338	22/18866	0.000573550174	0.003564992812	0.002553425817	CD3D/CD3G/CD	4
GO:0045624	positive regulatio	4/338	22/18866	0.000573550174	0.003564992812	0.002553425817	CD86/IL18/CD80	4
GO:0045655	regulation of mor	4/338	22/18866	0.000573550174	0.003564992812	0.002553425817	IRF7/CD74/CD4/	4
GO:0030168	platelet activatio	10/338	158/18866	0.000573950847	0.003564992812	0.002553425817	LCP2/PLEK/LCK	10
GO:0060402	calcium ion trans	10/338	158/18866	0.000573950847	0.003564992812	0.002553425817	FASLG/LIME1/C	10
GO:0044106	cellular amine me	9/338	131/18866	0.000595818136	0.003693848035	0.00264571836	PSME1/PSMB8/I	9
GO:0033238	regulation of cell	7/338	81/18866	0.000622065542	0.00380460056	0.002725044847	PSME1/PSMB8/I	7
GO:0002664	regulation of T ce	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	HLA-B/LILRB2/C	3
GO:0032661	regulation of inter	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	TLR2/CD84/IL10	3
GO:0032815	negative regulatio	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	HLA-F/HA/CR2/	3
GO:0034350	regulation of glial	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	TRAF2/PRKCH/F	3
GO:0070391	response to lipote	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	CD14/TLR2/TLR	3
GO:0071104	response to inter	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	STAT1/STAT5A/I	3
GO:0071223	cellular response	3/338	10/18866	0.000622928220	0.00380460056	0.002725044847	CD14/TLR2/TLR	3
GO:0048524	positive regulatio	8/338	107/18866	0.000683945976	0.0041274404	0.002956278857	TRIM21/CD74/C	8
GO:1903426	regulation of reac	8/338	107/18866	0.000683945976	0.0041274404	0.002956278857	IFNG/CLEC7A/IT	8

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0035458	cellular response	4/338	23/18866	0.000684563322	0.0041274404	0.002956278857	IRF1/STAT1/MN1	4
GO:0051043	regulation of mer	4/338	23/18866	0.000684563322	0.0041274404	0.002956278857	IFNG/TNFRSF1E	4
GO:0072677	eosinophil migrat	4/338	23/18866	0.000684563322	0.0041274404	0.002956278857	CD300A/CCL3/C	4
GO:1900017	positive regulatio	4/338	23/18866	0.000684563322	0.0041274404	0.002956278857	CLEC7A/GBP5/C	4
GO:1904996	positive regulatio	4/338	23/18866	0.000684563322	0.0041274404	0.002956278857	CCR2/ITGB2/PT	4
GO:0046636	negative regulatio	5/338	40/18866	0.000704641003	0.004240727938	0.003037421047	TBX21/LILRB1/T	5
GO:0006816	calcium ion trans	18/338	426/18866	0.000721386469	0.004333584414	0.00310392949	FASLG/LIME1/LI	18
GO:0099024	plasma membrar	9/338	135/18866	0.000740222195	0.004438636552	0.003179173076	RAC2/ITGB2/FC	9
GO:0002381	immunoglobulin	6/338	61/18866	0.000766647803	0.004580407568	0.003280716555	BATF/TBX21/HL	6
GO:1903902	positive regulatio	6/338	61/18866	0.000766647803	0.004580407568	0.003280716555	TRIM21/CD74/C	6
GO:0030890	positive regulatio	5/338	41/18866	0.000790868070	0.004716553784	0.003378231271	CD38/CD74/TNF	5
GO:0051235	maintenance of k	15/338	324/18866	0.000793625124	0.004724437451	0.003383877946	SP100/FASLG/LI	15
GO:0002719	negative regulatio	4/338	24/18866	0.000809965526	0.004804336059	0.003441105318	TBX21/HLA-F/LI	4
GO:0034123	positive regulatio	4/338	24/18866	0.000809965526	0.004804336059	0.003441105318	RSAD2/TLR2/PT	4
GO:0010518	positive regulatio	6/338	62/18866	0.000836193385	0.004950986736	0.003546143854	S1PR4/CD86/GN	6
GO:0033632	regulation of cell	3/338	11/18866	0.000845186794	0.004964457415	0.003555792226	FERMT3/CD3E/C	3
GO:0045657	positive regulatio	3/338	11/18866	0.000845186794	0.004964457415	0.003555792226	CD74/CD4/HLA-	3
GO:0051712	positive regulatio	3/338	11/18866	0.000845186794	0.004964457415	0.003555792226	IFNG/CLEC7A/P	3
GO:1903265	positive regulatio	3/338	11/18866	0.000845186794	0.004964457415	0.003555792226	CASP4/CASP1/T	3
GO:0010959	regulation of met	17/338	396/18866	0.000846008690	0.004964457415	0.003555792226	B2M/LIME1/IFNC	17
GO:0046006	regulation of activ	5/338	42/18866	0.000884726795	0.005173216005	0.00370531555	LGALS9/IL18/PD	5
GO:0048246	macrophage che	5/338	42/18866	0.000884726795	0.005173216005	0.00370531555	SLAMF8/C3AR1,	5
GO:0001776	leukocyte homeo	7/338	86/18866	0.000890884791	0.005199987117	0.003724490357	CCR2/CD74/LG/A	7
GO:0052548	regulation of end	18/338	434/18866	0.000892524931	0.005200339956	0.003724743078	PSME1/PSMB8/I	18
GO:0060218	hematopoietic ste	7/338	87/18866	0.000954229751	0.005550043005	0.003975217858	BATF/TP73/PSM	7
GO:0009308	amine metabolic	9/338	140/18866	0.000959604807	0.005561653214	0.00398353367	PSME1/PSMB8/I	9
GO:0097553	calcium ion trans	9/338	140/18866	0.000959604807	0.005561653214	0.00398353367	FASLG/LIME1/C	9
GO:0050850	positive regulatio	5/338	43/18866	0.000986630231	0.005708236769	0.00408852413	CD4/P2RY6/CCL	5
GO:0010952	positive regulatio	11/338	201/18866	0.001038963155	0.006000467907	0.004297834659	PSME1/FASLG/F	11
GO:1905521	regulation of mac	5/338	44/18866	0.001096997614	0.006324546667	0.004529956045	SLAMF8/C3AR1,	5

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0002244	hematopoietic pr	10/338	172/18866	0.001103762393	0.0063334533	0.00453633542	BATF/SPI1/TP73	10
GO:1905523	positive regulatio	4/338	26/18866	0.001107879046	0.0063334533	0.00453633542	C3AR1/CSF1R/C	4
GO:0002468	dendritic cell anti	3/338	12/18866	0.001112009723	0.0063334533	0.00453633542	CD74/CLEC4A/C	3
GO:0002517	T cell tolerance ir	3/338	12/18866	0.001112009723	0.0063334533	0.00453633542	HLA-B/LILRB2/C	3
GO:0032490	detection of mole	3/338	12/18866	0.001112009723	0.0063334533	0.00453633542	TLR2/LY96/TLR4	3
GO:0036005	response to macr	3/338	12/18866	0.001112009723	0.0063334533	0.00453633542	CSF1R/TLR2/TL	3
GO:0036006	cellular response	3/338	12/18866	0.001112009723	0.0063334533	0.00453633542	CSF1R/TLR2/TL	3
GO:0010324	membrane invag	9/338	143/18866	0.001114757913	0.006338139982	0.004539692255	RAC2/ITGB2/FC	9
GO:0048660	regulation of smc	10/338	173/18866	0.001153301894	0.006545982472	0.004688559422	STAT1/IFNG/IL15	10
GO:1903829	positive regulatio	15/338	338/18866	0.001213308981	0.006874721454	0.004924018692	TP73/PARP9/DT	15
GO:0048659	smooth muscle c	10/338	175/18866	0.001257834615	0.007113505954	0.005095048071	STAT1/IFNG/IL15	10
GO:0045123	cellular extravasa	6/338	67/18866	0.001259773381	0.007113505954	0.005095048071	CCR2/ITGAL/ITC	6
GO:0032897	negative regulatio	4/338	27/18866	0.001282363276	0.007216307528	0.00516867969	TRIM21/CCL3/C	4
GO:0072539	T-helper 17 cell c	4/338	27/18866	0.001282363276	0.007216307528	0.00516867969	BATF/IRF4/TBX2	4
GO:2000116	regulation of cyst	12/338	239/18866	0.001314879641	0.007386661739	0.00529069588	PSMB9/FASLG/C	12
GO:0010863	positive regulatio	5/338	46/18866	0.001344828978	0.007542039177	0.005401984958	S1PR4/CD86/GN	5
GO:0002532	production of mo	7/338	93/18866	0.001412398831	0.00790751182	0.005663754709	CLEC7A/GBP5/S	7
GO:0002430	complement rece	3/338	13/18866	0.001426508108	0.007932541711	0.005681682367	C3AR1/FPR2/FP	3
GO:0032823	regulation of natu	3/338	13/18866	0.001426508108	0.007932541711	0.005681682367	PRDM1/FLT3LG	3
GO:0060340	positive regulatio	3/338	13/18866	0.001426508108	0.007932541711	0.005681682367	IRF7/NLRC5/ZBI	3
GO:0072683	T cell extravasati	3/338	13/18866	0.001426508108	0.007932541711	0.005681682367	CCR2/ITGAL/RIF	3
GO:0060401	cytosolic calcium	10/338	178/18866	0.001429009956	0.007933053586	0.005682048997	FASLG/LIME1/C	10
GO:0002360	T cell lineage cor	4/338	28/18866	0.00147517789	0.008175565004	0.005855747781	BATF/IRF4/TBX2	4
GO:0034599	cellular response	14/338	310/18866	0.001485636657	0.008219690546	0.005887352696	TRPM2/NCF4/AI	14
GO:0051928	positive regulatio	8/338	122/18866	0.001604359831	0.008861665376	0.006347167117	CXCL10/CXCL11	8
GO:0007599	hemostasis	15/338	348/18866	0.001616276951	0.008912535551	0.006383602876	FLI1/IRF1/LCP2/	15
GO:0050871	positive regulatio	9/338	151/18866	0.001629659902	0.008937581663	0.006401542152	TBX21/CD38/CD	9
GO:2001056	positive regulatio	9/338	151/18866	0.001629659902	0.008937581663	0.006401542152	FASLG/CLEC7A/	9
GO:1900271	regulation of long	5/338	48/18866	0.001631678791	0.008937581663	0.006401542152	TYROBP/LILRB2	5
GO:1900274	regulation of pho	5/338	48/18866	0.001631678791	0.008937581663	0.006401542152	S1PR4/CD86/GN	5

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
GO:0019835	cytolysis	4/338	29/18866	0.001687301396	0.009211602313	0.00659780942	GZMB/GZMA/GZ	4
GO:2000108	positive regulatio	4/338	29/18866	0.001687301396	0.009211602313	0.00659780942	LGALS9/CCL5/IL	4
GO:0010935	regulation of mac	3/338	14/18866	0.001791583618	0.009716463378	0.006959416118	LILRB1/CD74/TL	3
GO:0043922	negative regulatio	3/338	14/18866	0.001791583618	0.009716463378	0.006959416118	CCL3/CCL4/CCL	3
GO:0051709	regulation of killir	3/338	14/18866	0.001791583618	0.009716463378	0.006959416118	IFNG/CLEC7A/P	3
GO:0070234	positive regulatio	3/338	14/18866	0.001791583618	0.009716463378	0.006959416118	LGALS9/CCL5/P	3

Mixture	B cells naive	B cells memory	Plasma cells	T cells CD8	T cells CD4 naiv	T cells CD4 men	T cells CD4 men	T cells follicular	T cells regulator	T cells gamma c	NK cells resting	NK cells activat	Monocytes	Macrophages M	Macrophages M	Macrophages M	Macrophages M	Dendritic cells r	Dendritic cells a	Mast cells restr	Mast cells activi	Eosinophils	Neutrophils	P-value	Correlation	RMSE
PABLKN	0.006419275703	0.0172754444	0.0970226594	0.1530803843	0	0.1255996661	0.0469938118	0.03140340212	0.0379041949	0.0284016006	0	0.0468798531	0.08926522386	0.0241895751	0.0622500262	0.2078605327	3.60E-05	0	0.00207300295	0	0.004883960846	0	0.018	0.228834594	0.990062291	
PADWRZ	0.01676781004	0.03615803264	0.1227680447	0.06712333957	0	0.2037158706	0.0306509383	0.0317666524	0.01980639879	0	0.06267054513	0	0.0570523276	0.03209466556	0.03352627483	0.185396867	0.0290648406	0.01383934323	0.01648614075	0.009349207854	0.02001639627	0.006523205752	0	0.0163083131	0.865108062	
PADYCE	0.03954474384	0.02434741727	0.1686265338	0.07923624228	0	0.06583020874	0.0241356461	0	0.03570660213	0.04320703072	0.005442367793	0.01361859745	0.00223305092	0.1492015567	0.0211395301	0.2735987704	0.01931022167	0.000450396596	0.01137906052	0.01705179058	0	0.008663168921	0	0.5003726279	0.867126893	
PADYZI	0.0170056167	0.05308093994	0.1589697853	0.05309001375	0	0.1338915865	0.0341656517	0.009201391426	0.007875572548	0	0.05401337952	0	0.05401337952	0.00586625181	0	0.01652342451	0.3147711271	0.0237329741	0.02360442843	0.03324439966	0	0.009457160624	0	0.672966589	0.874519369	
PAEHP	0.005746794113	0.0033685747	0.1260717594	0.1048578823	0	0.08709015849	0.00211072117	0.04401100627	0.00303697515	0.1107145672	0	0.0382729588	0.01624460849	0.01733637282	0.025845371652	0.2366555552	0.005643835694	0.00742806470	0.004831874329	0.004357665652	0.00878851166	0.003734991485	0	0.774465554	0.72243842	
PAJLRA	0.03191214098	0.02396029864	0.05396650246	0	0.01202402188	0.1635050288	0.01845399464	0	0.02930420366	0	0.1054988877	0	0.06917971479	0.04645375764	0.02848131159	0.2664278009	0.03430781538	0.008825827749	0.05699544522	0	0.007573143934	0.02508878616	0.072	0.153250175	0.112900115	
PAJLWM	0.02527323569	0.02964470017	0.06925667255	0.04125274425	0	0.1461394916	0.01935466172	0.03530918515	0.0418883315	0.010537426696	0.0610275963	0.05178744262	0.0117744404	0.034883315	0.01362110794	0.3691748943	0.01750615773	0.0187932965	0	0.04037822332	0.0106052192	0	0.04037822332	0.848874821		
PAJMBW	0	0.01995541099	0.027396154	0.20958292927	0	0.06135780249	0.02089200726	0.03603379718	0.04541641381	0.207374454	0	0.05520292817	0.06247010102	0	0.0263472236	0.1442309292	0.02323340022	0.00376036931	0.06767118272	0	0.001678697134	0	0	0.7426794567	0.9107263409	
PAJMBR	0	0.04099781176	0.01712766847	0.301974358	0	0.01528763329	0.08771301066	0.05805031913	0.03187354551	0.0775173969	0	0.001913645696	0.0127701049	0	0.0312664402	0.1435479022	0.03284313982	0.009472853013	0.03107778977	0	0.005460230823	0.01072883802	0	0.398977113	0.7179296201	
PAJNER	0	0.0586431058	0.0486646602	0.03968929643	0	0.1819640985	0.01355615833	0.0052153066	0.0309325468	0.0219191219	0	0.03418372332	0.06847810169	0	0.03896069382	0.3892018994	0.02496026411	0.02682459156	0.03804618088	0	0.002518412806	0.030644700627	0	0.6978557777	0.7729843307	
PAJNFP	0.02560793992	0.0213358887	0.1412709743	0	0.1797126589	0.01906158922	0.03565291941	0.01677466537	0.07978852807	0	0.02831557913	0.02264912278	0	0.03970988137	0.2665280539	0.01332336268	0	0.00179268137	0.2665280539	0	0.002298195158	0	0.002298195158	0.821939803		
PAJNFZ	0.003842664773	0.0128550209	0.2312387877	0.2268973234	0	0.01828799249	0.05880613306	0.04690594309	0.03724138507	0.04295049059	0	0.01765384261	0.005622972364	0.02192630016	0.03523860597	0.1792646935	0.01059526527	0.00010661873	0	0.02741896562	0	0.006716534069	0	0.4126744377	0.910390349	
PAJPHJ	0.07626751652	0	0.01586054394	0	0	0.178521576	0	0.02076900306	0.08983355292	0.04967759518	0.0256053531	0	0.0216724309	0.1332004844	0.0159748396	0.1475290026	0.02228318009	0.0062660184080	0.02585171172	0.02444510967	0	0.1697033653	0	0.4331481871	0.9004702569	
PAKHTL	0	0.09808932275	0.1105980785	0	0	0.1605521828	0	0.02091443382	0.03905883488	0.04840566011	0.009492230439	0.006681358497	0.05451595105	0.0222662323	0.0754924148	0.3225875978	0.01961604153	0.009875079583	0	0.04013262979	0.01473292102	0.00803631665	0.002	0.3925537773	0.910899934	
PAKLYZ	0.06001908994	0	0.1300720065	0.07094684307	0.01267739055	0.1884364282	0.02815912221	0	0.07281765153	0	0.05363227249	0.08196384176	0.01329889338	0.0258971052	0.008566510833	0.02066345625	0.02279939276	0.005443928585	0.01871406219	0	0.004	0.3419792479	0.9405957023			
PAKPEW	0	0.08025238979	0.1963877028	0.02815420678	0.0182185534	0.1725844925	0.03120871439	0	0.002491341572	0.005774991482	0.0144403707	0.01851929481	0.04986371475	0	0.006112968408	0.2910224078	0	0.0309815079	0.03371199402	0	0.01090633994	0.04798303839	0	0.5716025116	0.834286469	
PAKTKT	0.01302284636	0.0514704247	0.0770593504	0.0898974559	0	0.1182449435	0.005070194562	0.01278932299	0.019169295316	0.03984088802	0	0.03322280562	0.0296024811	0.01817077455	0.3696614191	0.009675352665	0.03004168883	0.023210696118	0.0319735422	0.02186637313	0.0080487639	0	0.4947230663	0.785651609		
PARCDB	0.01535949775	0.02250472264	0.1087263431	0.120293592	0	0.1781699922	0.06554481901	0.0262055552	0.02404557552	0.03795163703	0.00713331158	0	0.0307160622	0	0.0745363612	0.34622720563	0.01523921444	0.003254880945	0.00296454542	0.00264124801	0	0.002079970682	0	0.7602147161	0.765508064	
PAREWI	0.02988244165	0.05635452771	0.07059694196	0.0633636843	0	0.09985318135	0.02147075011	0.01733725188	0.00589305529	0.01780181069	0.0521991440	0	0.1397095063	0.04641275346	0.04182324784	0.2162852333	0.02841166143	0.00619858949	0.01967050589	0	0.032856548046	0.01497050589	0	0.5688365847	0.8413191929	
PARGRN	0	0.04591853748	0.0362989827	0.09386306167	0	0.09444407767	0.01382650752	0.0256909809	0.0438251129	0	0.09444407767	0.01382650752	0.0256909809	0.0438251129	0	0.09444407767	0.01382650752	0.0256909809	0.0438251129	0	0.09444407767	0.01382650752	0	0.09444407767	0.01382650752	
PARIRN	0.00825842096	0.018273909	0.2544407282	0.0102825944	0	0.1158574805	0.0172004262	0.0055972022	0.01614136597	0.00939673102	0.01907052857	0	0.04811028835	0	0.01884546056	0.3737689866	0.06747027875	0.002725880202	0.07121766198	0.01074269743	0	0.003226625106	0	0.3535738751	0.840645214	
PARKKN	0.131552446	0.1152242065	0.1152242065	0.1327145628	0	0.01962103133	0.0491682293	0.0999016293	0.0153118047	0	0	0	0.111131441	0.0605737347	0.04710932819	0	0	0.008833900815	0	0.00884585027	0	0.7114350173	0.7388596987			
PARFPY	0.1297870212	0	0.1872319875	0.0808738302	0	0.1079407201	0	0.02708003302	0.0587178084	0	0.01604085060	0.01914681684	0.1031938837	0.0425478763	0.2203050601	0.003680988493	0	0.002180545833	0.0107733852	0	0	0.4889955138	0.8720600602			
PARRCL	0	0.03988476257	0.0273405238	0.06461695779	0	0.08451608315	0.01604676497	0.0179087938	0.0258621803	0.07166803032	0	0.03376121182	0.1211717934	0.118953844	0.044051127	0.2394202858	0.04284559223	0	0.002210418046	0.00298258396	0	0	0.7095611108	0.7677637224		
PARTKH	0	0.0415873222	0.06210043486	0.1796288996	0	0.02407195733	0.05896028934	0.1056441621	0.05255750347	0.15380036	0	0.004398840716	0.00464023847	0.05149207485	0.04501597535	0.1636114592	0.02223899002	0	0.01613696756	0	0.005384533129	0	0.473252438	0.8802846622		
PARUJK	0	0.02460311892	0.07259128693	0.218559378	0	0.0181360735	0.05898020695	0.0434239894	0.0323678283	0.01614523549	0	0.02277588792	0.00363989036	0	0.00415932768	0.1962491901	0.0310363835	0	0.00202032717	0.00462570588	0.031639869614	0	0.4905116166	0.7158188694		
PARZBI	0	0.03700604796	0.1907326148	0.219993587	0	0.1352964624	0.02892900627	0.0405404578	0.037381300243	0.1037121427	0	0.07274577699	0.0323343753	0.0186092251	0.04522965448	0.131881754	0.01301371766	0	0.00130479068	0	0.0023128795	0.8064231579				
PARZRH	0.02063444384	0.0386888125	0.0386888125	0.0386888125	0	0.1179743306	0.00958190001	0.04032041501	0.0332851823	0	0.01208895952	0.02587895348	0.02589003612	0.01713469537	0.272219405	0.02185667149	0.000481406331	0.006140827218	0.01989867122	0	0.001059078993	0	0.4869215695	0.8208774916		
PASABD	0.009221582705	0.004294259992	0.1330282144	0.3149255325	0	0.07179773881	0.0071761851	0.0040173674	0.03279631111	0	0.0230032556	0.03671657992	0.0118741959	0.0269479904	0.1748653282	0.01049089005	0	0.01212133877	0	0	0.4783836046	0.8982901715				
PASADZ	0	0.08721620437	0.08719635206	0.18149948072	0	0.1334804488	0.00940514805	0.04652640002	0.00306260125	0.03760993216	0.003750521002	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.0540768442	0.006	0.2632994128	0.8650776995	
PASAMZ	0.006715333489	0.0289653905	0.0771765985	0.0326919947	0	0.163437793	0.01204661226	0.04243330576	0.02744224212	0.0741535214	0	0.0419037829	0.05713281338	0.008330559564	0.3079469232	0.01016484974	0.01016484974	0.01016484974	0.01016484974	0.01016484974	0.01016484974	0.01016484974	0	0.537600148	0.8553851967	
PASCDH	0	0.07288071181	0.1063574292	0.1473763832	0	0.0613770899	0.0416945536	0.06938608791	0.01017367203	0.1379184745	0															

Mixture	HSC	MPP	LMPP	CMP	GMP	MEP	Mono	Ery	CLP	Bcell	CD4Tcell	CD8Tcell	NKcell	P-value	Correlation	RMSE
PAREWI	0.4148229098	0	0.08986990899	0.1658515476	0.002945018242	0.101030761	0.1549570091	0	0.04568393786	0	0	0.02483890736	0	0	0.2287899921	1.02204067
PAWFWK	0.13445707	0	0.1385133774	0.252736998	0	0.04599184128	0.1375496105	0.02524996671	0.04712728185	0	0	0.2183738543	0	0.02	0.1124756821	1.022531293
PASGGN	0.0954801966	0	0	0.1524649928	0.4509182104	0	0.2780281985	0	0	0	0.02310840168	0	0	0	0.1752800542	1.015443467
PASILR	0.04473693994	0	0	0	0.3026533126	0.02536859996	0.5361765547	0	0.03906931763	0	0.02777945737	0	0.02421581776	0	0.3506193953	0.9457071755
PAUDPV	0.4355695998	0	0.06264503808	0.1499284878	0.07309829004	0.1194166817	0.04866189861	0.0213961697	0.02213731134	0.000757223045	0.02560931376	0.0263068562	0.01447312987	0.01	0.1365402418	1.077004527
PAVDPR	0.1580161274	0	0	0.10911326	0.2551159479	0	0.3715444577	0.000919245195	0.001251325581	0	0	0.1040396362	0	0	0.2554211262	0.9779112083
PAUGYZ	0.07124423118	0	0	0.02499233465	0.1074590513	0.01612603149	0.2207048369	0.05264446653	0	0.05524838578	0	0.4515806621	0	0	0.1613067674	1.015885066
PASRHU	0.04836151379	0	0	0.1652852367	0.3560090423	0	0.1519778394	0.02984927056	0	0	0	0.2485170972	0	0	0.1457234152	1.00630328
PARIRN	0.4293513513	0	0	0.1187647882	0.131622942	0.03071529682	0.2392468275	0.04342081633	0	0	0	0.00687797789	0	0.13	0.06358986708	1.092069056
PAUHAZ	0.3009286973	0	0	0.2706170961	0.2453120523	0.03452701691	0	0.01335326434	0.01224592272	0.02258508121	0	0.100430869	0	0.03	0.08423754409	1.076256145
PASNED	0	0	0	0.1063678017	0.4594519639	0	0.0965476221	0.105284186	0	0	0	0.2323484262	0	0.67	0.0118691715	1.04738593
PAUNPA	0.1491899434	0	0	0.129910152	0.101366832	0.001980263579	0.3227485901	0.0483770717	0	0	0	0.2464271472	0	0.02	0.09144729943	1.026979351
PATDVL	0.1406416311	0	0	0.1415207474	0.1871569163	0	0.190988387	0	0	0	0	0.3203383983	0.01935391986	0	0.1685369213	1.005725981
PAVVIT	0.1372669557	0	0	0.2579180653	0.2334182339	0	0.1320210185	0.01551723853	0.002378555774	0.01840153207	0	0.2030784002	0	0.24	0.04976319905	1.042607798
PAVITI	0.1469799227	0	0	0.1236355432	0.149699983	0	0.1403224738	0.02211262468	0	0.002477252784	0	0.4147721997	0	0.07	0.06829565217	1.050685033
PAUFVP	0.0844065169	0	0	0.129143984	0.196097254	0.002003906529	0.4177157496	0	0	0.01936394816	0	0.1512686408	0	0	0.2396528252	0.9819293078
PAUCGJ	0	0.1301853304	0	0	0.2213551253	0.06836038034	0.4035304268	0	0	0	0.1683781797	0.008190557426	0	0.3153139627	0.9516117439	
PATXKA	0.2416027169	0	0	0.09744115055	0.295456222	0	0.1460790943	0.05061144114	0	0	0	0.1688093751	0	0.62	0.01639795767	1.059131678
PASAMZ	0.2753144179	0	0	0.05324895458	0.2834891933	0.06735087469	0.1352218621	0.02977903992	0	0.004880571349	0	0.1507150862	0	0.86	-0.00769336144	1.072446215
PATAFT	0.07734821517	0	0	0.2945552138	0.1446493102	0.006133795319	0.2031098052	0.008779745598	0	0	0	0.2654239148	0	0.01	0.1165081141	1.020045539
PASADZ	0.07634040248	0	0	0.1994296549	0.1687093739	0	0.3487908212	0.1062426992	0	0	0	0.04045526023	0.06003178806	0	0.153666219	1.006382397
PASCDH	0	0	0.2523283108	0	0.0875623573	0.07113852114	0.4055159166	0	0	0	0	0.1834548942	0	0.01	0.1341213262	1.023624506
PADWRZ	0.2228437465	0	0	0.04519527223	0.3822761512	0.04907425558	0.254828959	0	0.0296840628	0	0	0.01609755272	0	0	0.221149117	0.9956322984
PADYZI	0.2474446466	0	0.003277419897	0.4431756237	0.06884941154	0	0.09729171542	0.01010620031	0	0	0	0.1298549825	0	0	0.1447332286	1.047627951
PAJMRB	0.04762242788	0	0	0.02588638394	0.2484664723	0	0.3768495337	0	0	0.04834911177	0	0.2520605451	0.000765525291	0	0.2952925153	0.9600040932
PAUEKW	0.2666479418	0	0	0.2493971704	0.251667124	0	0.1996241953	0.002476685079	0	0	0	0.0296004772	0.000586406134	0.08	0.06683111943	1.074010481
PAWFLB	0.296151068	0	0	0.1434495267	0.4343067286	0.03443912555	0.06997015746	0	0	0	0	0.02168339363	0	0.01	0.1373689982	1.05670113
PARRCL	0.03345344785	0	0	0.03589112357	0.213722797	0.01349120907	0.5646509235	0.05260314556	0	0.01884196113	0	0.04947932927	0.01786606307	0	0.2882153292	0.9742825598
PARZBI	0.05756804371	0	0	0	0.2479766593	0	0.4112140283	0.04003975771	0	0	0	0.2172546829	0.02594682799	0	0.2175136589	0.9907109706
PARUGK	0.1204934362	0	0	0.1429497331	0.1314871226	0	0.2438935954	0.02192014471	0	0	0	0.339255968	0	0	0.2042539656	0.991335555
PARZRH	0.2013831028	0	0	0	0.419125336	0.07041839649	0.2016395549	0.002868931916	0.04086609508	0	0	0.06369858283	0	0	0.215302384	0.9910873212
PASVDP	0	0	0	0.1069091797	0.2195112312	0	0.26010487	0.03951026513	0	0	0	0.3739644539	0	0	0.152263019	1.012357918
PASXGF	0.1331704654	0	0	0.1065766683	0.5180508112	0.09286135448	0	0.01635349937	0	0	0	0.1329872013	0	0.1	0.06581355782	1.057215937
PASXNA	0.005487996556	0.01674031226	0	0	0.2406549197	0.000559359512	0.6189331148	0	0	0	0	0.1176242972	0	0	0.4133541017	0.9199581864
PASWZZ	0.3330141707	0	0	0.2502308065	0.2747852807	0	0.0177199986	0.01409403819	0	0	0	0.1101557053	0	0.36	0.03687847998	1.104060158
PASABD	0.1534588336	0	0	0.1209575698	0.2326800318	0	0.1916631491	0.01704136694	0	0.01309718613	0	0.2711018626	0	0.01	0.1314613967	1.01294755
PASDLA	0.3063516297	0	0	0.1348780747	0.4218921645	0	0.03531174998	0.02289803512	0	0	0	0.07866834601	0	0.01	0.1137568014	1.06019087
PATFZZ	0.163342083	0	0	0.3026535441	0.2203778292	0	0.1360774325	0.02814765408	0	0	0	0.1494014572	0	0.02	0.1018418735	1.033350727
PASZYE	0.1498037424	0	0	0.1356436499	0.1148422576	0	0.3693182492	0.01656920518	0	0.005425702177	0	0.2083971935	0	0	0.301896687	0.9563064738
PATBLF	0	0.09618284143	0	0.04485356262	0.4443118821	0.02205305071	0.2633653836	0	0	0	0	0.1292332796	0	0	0.1682614805	1.006434719
PAJNFP	0.1118815465	0	0	0.1823356552	0.2683048486	0	0.04804597456	0.09283042186	0	0	0	0.2966015533	0	0.68	0.009750562889	1.054978726
PATFXW	0.3992318836	0	0	0.09653893019	0.4140078849	0.006090770034	0.01852399839	0.05587292166	0	0	0	0.009733611185	0	0.02	0.09651102612	1.092687464

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000001685	12.9202293	5.92357942	25.47300663	2.94E-05	0.02814626175	ENSG000001685	MYL1
ENSG000000770	10.81452299	2.995048592	24.99618147	3.33E-05	0.02814626175	ENSG000000770	NMRK2
ENSG000001644	10.40565507	0.8036492397	22.22095206	7.09E-05	0.03292920106	ENSG000001644	ASB5
ENSG000001110	9.924878408	2.608215809	25.19013439	3.16E-05	0.02814626175	ENSG000001110	MYF6
ENSG000001227	9.885884486	2.05098138	19.086981	0.000176427150	0.04596503993	ENSG000001227	MYOG
ENSG000002357	9.760631148	-0.12908301	25.10682128	3.23E-05	0.02814626175	ENSG000002357	RP11-342M3.2
ENSG000001644	9.694470877	1.150300841	29.61195541	1.04E-05	0.02130991503	ENSG000001644	FAM26D
ENSG000002285	9.365279363	-0.7033626354	22.79864874	6.03E-05	0.03169731579	ENSG000002285	HOMER2P1
ENSG000001337	-9.324232736	3.630122081	30.49413488	8.41E-06	0.02130991503	ENSG000001337	RXFP2
ENSG000002054	9.23878242	-1.927783012	21.29899837	0.000147732657	0.04397061381	ENSG000002054	RP4-529N6.1
ENSG000002602	9.210811915	-1.781533865	22.71000966	6.18E-05	0.03169731579	ENSG000002602	RP11-166N6.3
ENSG000001736	9.030176704	3.028804455	35.64717389	2.61E-06	0.01777543677	ENSG000001736	TRAPPC3L
ENSG000002150	8.885829412	2.768381971	21.77972118	8.03E-05	0.03492437711	ENSG000002150	COL28A1
ENSG000001704	8.707912256	5.369658925	20.65525166	0.000110863244	0.03980484005	ENSG000001704	KISS1
ENSG000002274	8.629072499	-0.08892049477	18.18612182	0.000232255995	0.0495557575	ENSG000002274	AKR1B15
ENSG000002147	8.624817484	-2.49469366	23.51085264	4.96E-05	0.02995855726	ENSG000002147	HMG2N2P31
ENSG000002511	8.559891149	-1.11911287	25.49043926	2.92E-05	0.02814626175	ENSG000002511	RP11-734I18.1
ENSG000001836	8.539954346	-0.8204885844	24.45328628	3.85E-05	0.02903270234	ENSG000001836	PSG9
ENSG000002243	8.257345331	-1.703774951	22.40943905	6.72E-05	0.03248120768	ENSG000002243	AP000357.4
ENSG000001364	8.233152497	1.057487115	20.41138935	0.000119035194	0.04091229939	ENSG000001364	CSH1
ENSG000001795	8.061957576	0.7254817794	25.12816151	3.21E-05	0.02814626175	ENSG000001795	SLC17A8
ENSG000001027	7.989220853	-0.4303215992	20.17163628	0.000127707010	0.04120299969	ENSG000001027	GPR50
ENSG000001876	7.862650786	0.6948876549	19.72886796	0.000145569127	0.04397061381	ENSG000001876	TMEM8C
ENSG000002058	7.824564192	-3.156924122	19.85783442	0.000140103026	0.04349031723	ENSG000002058	FAM99A
ENSG000000914	7.727284786	1.767939368	21.25548796	9.32E-05	0.03615401661	ENSG000000914	SMPX
ENSG000002413	7.544067391	-3.362197472	22.98941476	5.72E-05	0.03142395704	ENSG000002413	RP11-342M3.1
ENSG000001802	7.49638641	4.776993284	21.0285829	9.95E-05	0.03788834937	ENSG000001802	MYLPF
ENSG000001597	7.389997882	3.070017408	19.89499193	0.000138569589	0.0433928103	ENSG000001597	TNNI1
ENSG000001436	7.32565832	4.380248477	18.17907658	0.000232761538	0.0495557575	ENSG000001436	ACTA1
ENSG000001490	7.247362504	-0.3741381408	23.80016802	4.59E-05	0.02918928107	ENSG000001490	SYT8
ENSG000001725	7.21155612	0.3661779152	18.41383743	0.000216538263	0.04946274454	ENSG000001725	ARPP21

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000001487	7.161953563	-0.3577854247	18.94436266	0.000184201559	0.04691036697	ENSG000001487	VAX1
ENSG000001808	7.150332131	4.217378829	23.53854129	4.92E-05	0.02995855726	ENSG000001808	GREM2
ENSG000002325	-7.035635297	-3.23607295	18.36391137	0.000219883255	0.0495557575	ENSG000002325	RP5-1031D4.2
ENSG000001677	6.902072015	1.570844164	20.64775684	0.0001111051715	0.03980484005	ENSG000001677	KLK11
ENSG000002157	6.884703489	1.331802073	28.65489087	1.31E-05	0.02130991503	ENSG000002157	MSMP
ENSG000001643	6.665185527	3.443192689	24.11523728	4.21E-05	0.02918928107	ENSG000001643	KLKB1
ENSG000002045	6.638645704	-3.156716413	20.92066265	0.000102652245	0.03840374945	ENSG000002045	PSG5
ENSG000002218	6.573603149	-4.269736944	23.79611794	4.59E-05	0.02918928107	ENSG000002218	PSG7
ENSG000001682	6.532777931	-3.560818385	19.42661561	0.000159303645	0.0447421802	ENSG000001682	FOXI1
ENSG000002258	6.302681113	-2.545664064	18.51509859	0.000209921505	0.04946274454	ENSG000002258	FRG2B
ENSG000000097	6.181508733	1.56745851	19.03009787	0.000179484618	0.04626653809	ENSG000000097	PAX7
ENSG000002142	6.105691854	-4.442467165	19.08291117	0.000176644024	0.04596503993	ENSG000002142	NPS
ENSG000001200	6.09998005	4.726458435	22.38952391	6.76E-05	0.03248120768	ENSG000001200	SFRP5
ENSG000001695	6.070507947	2.077714302	29.5392688	1.06E-05	0.02130991503	ENSG000001695	MYO7B
ENSG000001014	5.957650906	3.077250183	18.73696481	0.000196175159	0.04776553385	ENSG000001014	TNNC2
ENSG000001374	5.86726434	3.176310468	25.0925502	3.25E-05	0.02814626175	ENSG000001374	FGFBP2
ENSG000002597	5.837298782	-4.018688623	18.16605671	0.000233698931	0.0495557575	ENSG000002597	ADAMTS7P1
ENSG000001297	5.71067608	-0.8829065094	19.28405926	0.000166261771	0.04564101553	ENSG000001297	MYOD1
ENSG000002488	5.705291806	-4.704985994	18.74524299	0.000195681453	0.04776553385	ENSG000002488	KRTAP9-12P
ENSG000001556	5.656465556	2.194182459	40.91644318	8.76E-07	0.01777543677	ENSG000001556	TTN
ENSG000001343	5.630355678	2.385229258	18.48826448	0.000211653393	0.04946274454	ENSG000001343	MYCN
ENSG000001965	5.51082995	-5.03143158	18.74177104	0.000195888354	0.04776553385	ENSG000001965	PFN3
ENSG000001078	5.377092036	4.385794435	20.78973176	0.000106617607	0.03931921027	ENSG000001078	PITX3
ENSG000001486	5.376125312	-2.288827065	18.16456288	0.000233806743	0.0495557575	ENSG000001486	RGR
ENSG000001485	5.269208847	3.580375556	20.34981166	0.000121200018	0.04098984639	ENSG000001485	GAS2
ENSG000001815	5.232723865	-4.79345959	18.40724928	0.000216976495	0.04946274454	ENSG000001815	NEUROG1
ENSG000002235	5.231113311	-1.832945997	22.53389603	6.49E-05	0.03229929967	ENSG000002235	AC002456.2
ENSG000002117	5.183138664	-0.8539327256	29.99134102	9.48E-06	0.02130991503	ENSG000002117	TRBV4-1
ENSG000002118	5.099490326	-3.968695341	24.07008188	4.26E-05	0.02918928107	ENSG000002118	TRAV24
ENSG000002597	5.008270279	-5.016518416	20.03641804	0.000132896832	0.041926967	ENSG000002597	LINC00593

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000001674	4.968055809	1.891757795	18.4861008	0.000211793709	0.04946274454	ENSG000001674	JSRP1
ENSG000001562	4.784881913	3.21687095	33.39016687	4.30E-06	0.02130991503	ENSG000001562	CXCL13
ENSG000001987	4.750191173	5.706315541	20.46864391	0.000117059779	0.04058368837	ENSG000001987	SVIP
ENSG000001133	4.721523256	-3.354346264	18.86606804	0.000188626275	0.04774955559	ENSG000001133	BTNL8
ENSG000001837	4.639074763	5.033197641	19.50483691	0.000155619877	0.0447421802	ENSG000001837	EMILIN3
ENSG000001964	4.580316341	-0.2686261338	25.26296621	3.10E-05	0.02814626175	ENSG000001964	NOXO1
ENSG000002494	4.572700864	-5.084877283	18.3240424	0.000222594531	0.0495557575	ENSG000002494	GZMAP1
ENSG000002117	4.490756806	-2.108924061	22.43813495	6.67E-05	0.03248120768	ENSG000002117	TRBV28
ENSG000002117	4.452355111	-3.029052624	21.27091511	9.28E-05	0.03615401661	ENSG000002117	TRBV5-6
ENSG000001970	4.427306678	-1.001493141	23.63073974	4.80E-05	0.02984857848	ENSG000001970	CDTHD1
ENSG000002118	4.421086155	-4.475308478	19.83777496	0.000140938461	0.04349031723	ENSG000002118	TRAV38-1
ENSG000002292	4.214053849	-3.21435816	22.61067001	6.36E-05	0.03199247754	ENSG000002292	TRBV7-8
ENSG000002117	4.206459146	-2.28081034	19.09403179	0.000176052107	0.04596503993	ENSG000002117	TRAV14DV4
ENSG000002117	4.200458982	-1.754620591	24.6573286	3.64E-05	0.02848355262	ENSG000002117	TRBV19
ENSG000001115	4.189449862	-1.118957192	25.0152873	3.31E-05	0.02814626175	ENSG000001115	IFNG
ENSG000002117	4.18914327	-2.080745456	18.22687078	0.000229355170	0.0495557575	ENSG000002117	TRBV4-2
ENSG000000793	4.167446546	4.24215693	29.08119145	1.18E-05	0.02130991503	ENSG000000793	CEACAM1
ENSG000001005	-4.152570007	6.19441511	22.72424551	6.16E-05	0.03169731579	ENSG000001005	DAAM1
ENSG000002328	4.145436778	-2.205414373	20.23912127	0.000125199109	0.04102945268	ENSG000002328	TRBV29-1
ENSG000001721	4.117926525	1.429424757	27.9339853	1.57E-05	0.02452726427	ENSG000001721	CD8B
ENSG000000747	4.106524471	2.092663824	37.29743711	1.84E-06	0.01777543677	ENSG000000747	IPCEF1
ENSG000001130	4.0804978	4.203167028	25.82506635	2.68E-05	0.02814626175	ENSG000001130	GZMK
ENSG000002118	4.080267993	-5.398217121	21.86480579	7.84E-05	0.03487231801	ENSG000002118	TRAJ20
ENSG000002596	4.036783605	-3.818263486	21.74978029	8.10E-05	0.03492437711	ENSG000002596	RP11-279F6.3
ENSG000002117	4.019266023	-1.677972584	21.35117303	9.07E-05	0.03598376864	ENSG000002117	TRBV27
ENSG000001776	3.955459431	1.732918305	28.84592196	1.25E-05	0.02130991503	ENSG000001776	PGBD5
ENSG000001234	-3.927946363	2.360097904	18.28431837	0.000225331914	0.0495557575	ENSG000001234	NFE2
ENSG000001004	3.908192258	1.565734939	24.8288357	3.48E-05	0.02848355262	ENSG000001004	GZMH
ENSG000001707	3.868767826	2.598632024	18.41055314	0.000216756609	0.04946274454	ENSG000001707	KCNS3
ENSG000000648	3.867365142	0.3623851483	31.20267518	7.11E-06	0.02130991503	ENSG000000648	CHI3L2

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000001175	3.844946676	0.1847409221	27.30667625	1.83E-05	0.02672448951	ENSG000001175	FASLG
ENSG000001535	3.814211192	3.955158408	36.09652842	2.37E-06	0.01777543677	ENSG000001535	CD8A
ENSG000002242	3.755669888	-1.974923905	21.57814202	8.50E-05	0.03523203714	ENSG000002242	AC069363.1
ENSG000001444	-3.682546189	5.542661513	20.23911674	0.000125199276	0.04102945268	ENSG000001444	ACKR3
ENSG000001726	3.64517312	0.4734844505	19.54358617	0.000153829185	0.0447421802	ENSG000001726	THEMIS
ENSG000001168	3.623772547	3.457825423	26.19890777	2.43E-05	0.02778477225	ENSG000001168	CD2
ENSG000001582	3.595107592	3.058508537	21.14268465	9.63E-05	0.03700498431	ENSG000001582	FAM46B
ENSG000001635	3.584306857	-0.4163101873	18.95605507	0.000183550458	0.04691036697	ENSG000001635	TRAT1
ENSG000001606	3.571435002	1.808369527	29.63677978	1.03E-05	0.02130991503	ENSG000001606	CD3G
ENSG000000775	3.553693883	4.194747445	31.14018274	7.22E-06	0.02130991503	ENSG000000775	CST7
ENSG000000304	3.535711025	2.410933346	35.10313575	2.94E-06	0.01777543677	ENSG000000304	IKZF2
ENSG000002117	3.525897318	-1.639958554	19.65652931	0.000148735606	0.04397061381	ENSG000002117	TRBV5-1
ENSG000002054	3.502265955	-0.3083996658	26.56434091	2.21E-05	0.02704585393	ENSG000002054	EXOC3L4
ENSG000002510	3.498017238	-1.823941016	23.21859371	5.37E-05	0.03142395704	ENSG000002510	U66061.31
ENSG000001212	-3.497719932	2.234367792	22.73624516	6.14E-05	0.03169731579	ENSG000001212	TRIM6
ENSG000000543	-3.488123794	4.196140147	20.10771322	0.000130132633	0.04136358706	ENSG000000543	PTPRN
ENSG000001456	3.450436868	3.513592212	24.59229524	3.71E-05	0.02848355262	ENSG000001456	GZMA
ENSG000001672	3.443934806	2.813291983	22.80640439	6.02E-05	0.03169731579	ENSG000001672	CD3D
ENSG000001073	3.404931512	5.208667527	18.27266021	0.000226142166	0.0495557575	ENSG000001073	PTGDS
ENSG000001868	3.402352383	1.971539173	21.44232209	8.84E-05	0.03585621507	ENSG000001868	CXCR3
ENSG000001127	3.400969994	5.540119153	24.01197842	4.33E-05	0.02918928107	ENSG000001127	FAM46A
ENSG000002271	3.386338153	1.924387654	21.79115047	8.00E-05	0.03492437711	ENSG000002271	TRGC2
ENSG000001608	3.377812024	1.681535246	24.24477122	4.07E-05	0.02918928107	ENSG000001608	FCRL3
ENSG000001722	3.370029664	1.619804311	20.67459357	0.000110241524	0.03980484005	ENSG000001722	CXCR6
ENSG000001053	3.346303676	4.987057347	21.6147775	8.41E-05	0.03523203714	ENSG000001053	NKG7
ENSG000001397	3.33498388	3.388572365	23.08624779	5.57E-05	0.03142395704	ENSG000001397	CD27
ENSG000001355	3.332269974	4.753045782	20.99823081	0.000100378359	0.03788834937	ENSG000001355	DOCK10
ENSG000001988	3.296855376	4.118145866	26.51993646	2.24E-05	0.02704585393	ENSG000001988	CD3E
ENSG000000890	3.281850211	2.211777242	18.61289461	0.000203738124	0.04866118196	ENSG000000890	SIRPG
ENSG000001607	3.269858065	-0.1945916887	25.22741922	3.13E-05	0.02814626175	ENSG000001607	UBASH3A

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000001370	3.241448351	1.061142799	24.23995751	4.07E-05	0.02918928107	ENSG000001370	SIT1
ENSG000001644	3.232832918	1.121752744	31.77702877	6.22E-06	0.02130991503	ENSG000001644	SAMD3
ENSG000001818	3.227186277	1.875049363	24.71486284	3.59E-05	0.02848355262	ENSG000001818	TIGIT
ENSG000001635	3.222888924	1.182687698	23.1929087	5.41E-05	0.03142395704	ENSG000001635	PYHIN1
ENSG000001835	3.221249142	1.851505193	21.68135699	8.25E-05	0.03523203714	ENSG000001835	SH2D1A
ENSG000002644	3.211462827	2.694935725	29.09235362	1.18E-05	0.02130991503	ENSG000002644	RP11-94L15.2
ENSG000001375	3.209518448	5.153720899	30.97410067	7.51E-06	0.02130991503	ENSG000001375	IFI44L
ENSG000002457	3.207672141	-0.5577958026	23.08011585	5.58E-05	0.03142395704	ENSG000002457	LINC00861
ENSG000002134	3.198383848	1.503884605	32.38956856	5.40E-06	0.02130991503	ENSG000002134	PVRIG
ENSG000001104	3.187127994	1.334738092	19.80494719	0.000142317299	0.04359756413	ENSG000001104	CD5
ENSG000001878	3.170011874	-2.4316517	20.46690942	0.000117119100	0.04058368837	ENSG000001878	TTC24
ENSG000001806	3.159683746	3.139416938	26.84311226	2.06E-05	0.02704585393	ENSG000001806	PRF1
ENSG000001828	3.126413413	2.536168646	27.65680774	1.68E-05	0.02534702617	ENSG000001828	LCK
ENSG000001634	3.113969678	-1.140324497	29.5651465	1.05E-05	0.02130991503	ENSG000001634	CCDC141
ENSG000001375	3.107954893	4.501792037	30.39213217	8.61E-06	0.02130991503	ENSG000001375	IFI44
ENSG000001725	3.104433413	2.522846596	26.24951871	2.40E-05	0.02778477225	ENSG000001725	RASGRP1
ENSG000000493	3.079607971	6.366440027	19.42115984	0.000159564071	0.0447421802	ENSG000000493	LTBP1
ENSG000001627	3.068304617	1.96184381	24.77927082	3.53E-05	0.02848355262	ENSG000001627	SLAMF6
ENSG000000785	3.026891199	0.06454475809	21.59490902	8.46E-05	0.03523203714	ENSG000000785	P2RY10
ENSG000001115	3.01411223	2.80367366	18.3975357	0.000217624375	0.04946274454	ENSG000001115	FAM65B
ENSG000000137	2.986579409	1.148042248	18.24145081	0.000228326782	0.0495557575	ENSG000000137	CD6
ENSG000001010	2.969746964	1.307546864	26.64540764	2.17E-05	0.02704585393	ENSG000001010	SLA2
ENSG000001615	2.963386033	5.712972089	26.59125282	2.20E-05	0.02704585393	ENSG000001615	CCL5
ENSG000001745	2.962346714	1.160190515	20.55914606	0.000114009086	0.04050196746	ENSG000001745	GPR171
ENSG000001202	2.9622838	1.972576668	18.33295531	0.000221985291	0.0495557575	ENSG000001202	CD274
ENSG000001132	2.932908953	1.338346457	18.15573806	0.000234444742	0.0495557575	ENSG000001132	ITK
ENSG000001715	2.928627745	3.181598729	22.68709108	6.22E-05	0.03169731579	ENSG000001715	PTGER4
ENSG000001632	2.888916998	2.711066821	19.72427975	0.000145767788	0.04397061381	ENSG000001632	TGFA
ENSG000001277	2.876405488	2.212892032	18.28287004	0.000225432403	0.0495557575	ENSG000001277	BCL11B
ENSG000002387	2.853130575	-1.590876024	18.70412337	0.000198147102	0.04786667872	ENSG000002387	LINC00426

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000002134	2.847925393	3.52818041	20.15926199	0.000128172726	0.04120299969	ENSG000002134	PTPRCAP
ENSG000002436	2.809174264	5.114090401	18.77100644	0.000194153509	0.04776553385	ENSG000002436	CFB
ENSG000001532	2.792764952	1.938526484	21.41496188	8.91E-05	0.03585621507	ENSG000001532	CD96
ENSG000001252	2.776948574	-1.145549296	20.29851687	0.000123035806	0.04102945268	ENSG000001252	GPR18
ENSG000002442	2.767540381	5.093488314	18.42039803	0.000216102814	0.04946274454	ENSG000002442	XXbac-BPG116N
ENSG000001859	2.730150529	0.4404704072	23.90559823	4.46E-05	0.02918928107	ENSG000001859	C16orf54
ENSG000001704	2.716923705	3.118703647	27.16546122	1.90E-05	0.02677176896	ENSG000001704	METTL7B
ENSG000001987	2.698324916	2.630301214	28.96068482	1.22E-05	0.02130991503	ENSG000001987	TMEM229B
ENSG000001607	2.621000358	1.849480281	23.79371307	4.59E-05	0.02918928107	ENSG000001607	CCR5
ENSG000001388	2.53958247	5.744628306	20.27078049	0.000124040952	0.04102945268	ENSG000001388	RGS3
ENSG000002063	2.523752317	2.364453002	18.54869179	0.000207774933	0.04934654668	ENSG000002063	HLA-H
ENSG000001718	2.523439536	5.276017927	41.86677713	7.26E-07	0.01777543677	ENSG000001718	PRNP
ENSG000001754	2.508924299	1.089815121	20.77869283	0.000106959412	0.03931921027	ENSG000001754	TBC1D10C
ENSG000001359	-2.498666606	5.391136334	19.38649293	0.000161229646	0.04484199531	ENSG000001359	ARMC9
ENSG000001387	2.481215931	1.431030832	19.41596646	0.0001598124	0.0447421802	ENSG000001387	STAMBPL1
ENSG000001679	2.470240062	0.5931269527	23.11666103	5.53E-05	0.03142395704	ENSG000001679	NLRC3
ENSG000000896	2.445147912	4.525480104	28.6633418	1.31E-05	0.02130991503	ENSG000000896	LAG3
ENSG000000993	2.43225889	2.293549689	25.08444435	3.25E-05	0.02814626175	ENSG000000993	STX1B
ENSG000002046	2.431845586	4.703560406	19.67766043	0.000147803011	0.04397061381	ENSG000002046	HLA-F
ENSG000000487	2.402572876	4.182441451	20.3670411	0.000120590049	0.04098984639	ENSG000000487	CELF2
ENSG000000097	2.400828234	1.136630225	21.89256024	7.78E-05	0.03487231801	ENSG000000097	TRAF3IP3
ENSG000001408	2.386815831	3.709783797	36.61530342	2.12E-06	0.01777543677	ENSG000001408	NLRC5
ENSG000001184	2.337208092	3.995095108	23.76746616	4.63E-05	0.02918928107	ENSG000001184	ELOVL4
ENSG000001247	2.268070623	2.376023828	19.15465806	0.000172862611	0.04596503993	ENSG000001247	TOX2
ENSG000001183	2.247590527	1.991870065	20.51216695	0.000115581822	0.04058368837	ENSG000001183	LRMP
ENSG000000058	2.238121833	3.268312949	19.33386276	0.00016379427	0.04525753442	ENSG000000058	ITGAL
ENSG000002157	2.195846823	1.596373381	19.60685615	0.000150952994	0.04431623492	ENSG000002157	TNFRSF25
ENSG000001397	2.183531635	3.050142553	21.9018869	7.75E-05	0.03487231801	ENSG000001397	TAPBPL
ENSG000000792	2.147891217	1.19644119	18.72988386	0.000196598530	0.04776553385	ENSG000000792	SP140
ENSG000002347	2.1178069	8.94094437	22.28632241	6.96E-05	0.03269025172	ENSG000002347	HLA-B

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG00000178	2.08251922	0.01239325272	19.15811897	0.000172682428	0.04596503993	ENSG00000178	ZC3H12D
ENSG00000137	2.072511075	2.715310249	21.9956188	7.55E-05	0.03470311992	ENSG00000137	CD72
ENSG00000104	2.065499891	1.786771931	24.11548675	4.21E-05	0.02918928107	ENSG00000104	MAP4K1
ENSG00000160	2.060329783	3.454239354	19.42997864	0.000159143343	0.0447421802	ENSG00000160	ABCG1
ENSG00000213	2.021973619	1.870827053	25.46145022	2.95E-05	0.02814626175	ENSG00000213	LAT
ENSG00000105	1.98065934	2.10479428	21.4354823	8.85E-05	0.03585621507	ENSG00000105	RASAL3
ENSG00000206	1.971581573	3.209137543	19.12929289	0.000174189391	0.04596503993	ENSG00000206	HCP5
ENSG00000136	1.902383859	3.111654921	20.14655765	0.000128652772	0.04120299969	ENSG00000136	RASSF5
ENSG00000108	1.863379399	8.30388218	19.07198452	0.000177227711	0.04596503993	ENSG00000108	LGALS3BP
ENSG00000169	1.826036523	4.748948214	19.50861713	0.000155444198	0.0447421802	ENSG00000169	PLEKHA2
ENSG00000235	1.79570066	0.9751138332	18.1639647	0.00023384993	0.0495557575	ENSG00000235	BHLHE40-AS1
ENSG00000071	1.684646221	4.098313069	21.33658379	9.11E-05	0.03598376864	ENSG00000071	MGAT4A
ENSG00000125	1.311697041	2.261223129	19.09308177	0.000176102590	0.04596503993	ENSG00000125	PSD4
ENSG00000115	1.30306778	5.716407114	22.99608136	5.71E-05	0.03142395704	ENSG00000115	WIPF1
ENSG00000174	-1.245472709	2.609933755	22.30963505	6.91E-05	0.03269025172	ENSG00000174	CEP19
ENSG00000084	-1.225358253	3.45554989	18.78461143	0.000193351846	0.04776553385	ENSG00000084	MAPRE3
ENSG00000056	1.19780176	2.817369859	18.63175855	0.000202568205	0.04865665281	ENSG00000056	TRAF1
ENSG00000187	1.161485465	3.495834376	19.20795222	0.000170110374	0.04596503993	ENSG00000187	SEMA4D

ONTOLOGY	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
BP	GO:0042110	T cell activation	31/152	483/18866	1.98E-19	4.39E-16	3.79E-16	CD8A/PRNP/CEACAM1/CD3G/LAG3/CD8B/LCK/CD3E/SLA2/CCL5/CD2/RASGRP1/IFNG/LAT/TIGIT/SLAMF6/SIT1/CD27/NLRC3/CD3D/PTGER4/IR	31
BP	GO:0050852	T cell receptor signaling pathway	15/152	206/18866	1.21E-10	1.02E-07	8.82E-08	PRNP/CEACAM1/CD3G/PVRIG/LCK/CD3E/SLA2/UBASH3A/LAT/CD3D/SH2D1A/THEMIS/TRAT1/BTNL8/ITK	15
BP	GO:0002683	negative regulation of immune system process	21/152	463/18866	1.53E-10	1.02E-07	8.82E-08	PRNP/NLRC5/CEACAM1/CST7/PVRIG/LAG3/SLA2/UBASH3A/TIGIT/FCRL3/NLRC3/PTGER4/HLA-B/TAPBPL/SH2D1A/CD96/TBC1D10C/GPR171/	21
BP	GO:0050863	regulation of T cell activation	18/152	332/18866	2.01E-10	1.02E-07	8.82E-08	PRNP/CEACAM1/LAG3/LCK/CD3E/CCL5/CD2/RASGRP1/IFNG/LAT/TIGIT/SIT1/CD27/RASAL3/CD5/SIRPG/CD6/CD274	18
BP	GO:0030217	T cell differentiation	16/152	253/18866	2.30E-10	1.02E-07	8.82E-08	CD8A/CD3G/LAG3/LCK/CD3E/CD2/RASGRP1/IFNG/SLAMF6/CD27/CD3D/PTGER4/GPR18/THEMIS/ITK/BCL11B	16
BP	GO:0030098	lymphocyte differentiation	18/152	368/18866	1.05E-09	3.89E-07	3.36E-07	CD8A/CD3G/LAG3/LCK/CD3E/CD2/RASGRP1/IFNG/SLAMF6/FCRL3/CD27/CD3D/PTGER4/DOCK10/GPR18/THEMIS/ITK/BCL11B	18
BP	GO:0031343	positive regulation of cell killing	9/152	61/18866	1.37E-09	4.33E-07	3.75E-07	LAG3/PRF1/RASGRP1/IFNG/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	9
BP	GO:0050856	regulation of T cell receptor signaling pathway	8/152	43/18866	1.68E-09	4.67E-07	4.04E-07	PRNP/CEACAM1/PVRIG/LCK/SLA2/UBASH3A/SH2D1A/TRAT1	8
BP	GO:0002715	regulation of natural killer cell mediated immunity	8/152	45/18866	2.47E-09	6.09E-07	5.26E-07	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/CD96/HLA-F	8
BP	GO:0031341	regulation of cell killing	10/152	92/18866	3.51E-09	7.77E-07	6.72E-07	CEACAM1/LAG3/PRF1/RASGRP1/IFNG/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	10
BP	GO:0050854	regulation of antigen receptor-mediated signaling pa	9/152	69/18866	4.23E-09	7.92E-07	6.85E-07	PRNP/CEACAM1/PVRIG/LCK/SLA2/UBASH3A/FCRL3/SH2D1A/TRAT1	9
BP	GO:0050858	negative regulation of antigen receptor-mediated sig	7/152	31/18866	4.29E-09	7.92E-07	6.85E-07	PRNP/CEACAM1/PVRIG/SLA2/UBASH3A/FCRL3/SH2D1A	7
BP	GO:0007159	leukocyte cell-cell adhesion	17/152	364/18866	6.30E-09	1.08E-06	9.30E-07	PRNP/CEACAM1/LAG3/LCK/CD3E/CCL5/RASGRP1/IFNG/TIGIT/CD27/RASAL3/CD5/ITGAL/SEMA4D/SIRPG/CD6/CD274	17
BP	GO:0050851	antigen receptor-mediated signaling pathway	16/152	325/18866	8.61E-09	1.36E-06	1.18E-06	PRNP/CEACAM1/CD3G/PVRIG/LCK/CD3E/SLA2/UBASH3A/LAT/FCRL3/CD3D/SH2D1A/THEMIS/TRAT1/BTNL8/ITK	16
BP	GO:0050860	negative regulation of T cell receptor signaling pathw	6/152	23/18866	2.23E-08	3.30E-06	2.86E-06	PRNP/CEACAM1/PVRIG/SLA2/UBASH3A/SH2D1A	6
BP	GO:0042269	regulation of natural killer cell mediated cytotoxicity	7/152	41/18866	3.43E-08	4.75E-06	4.11E-06	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F	7
BP	GO:0002228	natural killer cell mediated immunity	8/152	66/18866	5.71E-08	7.44E-06	6.44E-06	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/CD96/HLA-F	8
BP	GO:1903037	regulation of leukocyte cell-cell adhesion	15/152	329/18866	7.08E-08	8.73E-06	7.55E-06	PRNP/CEACAM1/LAG3/LCK/CD3E/CCL5/RASGRP1/IFNG/TIGIT/CD27/RASAL3/CD5/SIRPG/CD6/CD274	15
BP	GO:0001910	regulation of leukocyte mediated cytotoxicity	8/152	75/18866	1.58E-07	1.84E-05	1.59E-05	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	8
BP	GO:0001912	positive regulation of leukocyte mediated cytotoxicity	7/152	52/18866	1.89E-07	2.10E-05	1.82E-05	LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	7
BP	GO:0001909	leukocyte mediated cytotoxicity	9/152	108/18866	2.24E-07	2.36E-05	2.04E-05	CEACAM1/LAG3/PRF1/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	9
BP	GO:0002429	immune response-activating cell surface receptor sig	17/152	481/18866	3.54E-07	3.42E-05	2.96E-05	PRNP/CEACAM1/CD3G/PVRIG/LCK/CD3E/SLA2/UBASH3A/LAT/FCRL3/WIPF1/CD3D/SH2D1A/THEMIS/TRAT1/BTNL8/ITK	17
BP	GO:0002757	immune response-activating signal transduction	17/152	481/18866	3.54E-07	3.42E-05	2.96E-05	PRNP/CEACAM1/CD3G/PVRIG/LCK/CD3E/SLA2/UBASH3A/LAT/FCRL3/WIPF1/CD3D/SH2D1A/THEMIS/TRAT1/BTNL8/ITK	17
BP	GO:0043368	positive T cell selection	6/152	36/18866	3.95E-07	3.65E-05	3.16E-05	CD3G/CD3E/SLAMF6/CD3D/THEMIS/BCL11B	6
BP	GO:0022407	regulation of cell-cell adhesion	16/152	439/18866	5.33E-07	4.73E-05	4.09E-05	PRNP/CXCL13/CEACAM1/LAG3/LCK/CD3E/CCL5/RASGRP1/IFNG/TIGIT/CD27/RASAL3/CD5/SIRPG/CD6/CD274	16
BP	GO:0042267	natural killer cell mediated cytotoxicity	7/152	61/18866	5.81E-07	4.96E-05	4.29E-05	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F	7
BP	GO:0045954	positive regulation of natural killer cell mediated cyto	5/152	24/18866	1.19E-06	9.80E-05	8.48E-05	LAG3/RASGRP1/SLAMF6/SH2D1A/HLA-F	5
BP	GO:0045088	regulation of innate immune response	13/152	307/18866	1.26E-06	9.93E-05	8.59E-05	NLRC5/CEACAM1/LAG3/CCL5/RASGRP1/IFNG/SLAMF6/PYHIN1/NLRC3/HLA-B/SH2D1A/CD96/HLA-F	13
BP	GO:0050870	positive regulation of T cell activation	11/152	214/18866	1.32E-06	9.93E-05	8.59E-05	LCK/CD3E/CCL5/RASGRP1/IFNG/CD27/RASAL3/CD5/SIRPG/CD6/CD274	11
BP	GO:0001906	cell killing	10/152	172/18866	1.34E-06	9.93E-05	8.59E-05	CEACAM1/LAG3/PRF1/RASGRP1/IFNG/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	10
BP	GO:0045058	T cell selection	6/152	49/18866	2.60E-06	0.000186164825	0.000161048506	CD3G/CD3E/SLAMF6/CD3D/THEMIS/BCL11B	6
BP	GO:0022409	positive regulation of cell-cell adhesion	12/152	279/18866	2.80E-06	0.000191486592	0.00016565229	CXCL13/LCK/CD3E/CCL5/RASGRP1/IFNG/CD27/RASAL3/CD5/SIRPG/CD6/CD274	12
BP	GO:0046631	alpha-beta T cell activation	9/152	146/18866	2.85E-06	0.000191486592	0.00016565229	CD3E/IFNG/SLAMF6/PTGER4/RASAL3/GPR18/CD274/ITK/BCL11B	9
BP	GO:0002717	positive regulation of natural killer cell mediated imm	5/152	29/18866	3.23E-06	0.000208147455	0.000180065363	LAG3/RASGRP1/SLAMF6/SH2D1A/HLA-F	5
BP	GO:1903039	positive regulation of leukocyte cell-cell adhesion	11/152	235/18866	3.29E-06	0.000208147455	0.000180065363	LCK/CD3E/CCL5/RASGRP1/IFNG/CD27/RASAL3/CD5/SIRPG/CD6/CD274	11
BP	GO:0032609	interferon-gamma production	8/152	115/18866	4.21E-06	0.000259551867	0.000224534578	PRNP/CD3E/CD2/RASGRP1/SLAMF6/CD96/CD274/ITK	8
BP	GO:0002706	regulation of lymphocyte mediated immunity	9/152	154/18866	4.42E-06	0.000264875857	0.000229140285	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/CD96/HLA-F/HLA-H	9
BP	GO:0006968	cellular defense response	6/152	54/18866	4.65E-06	0.000271352479	0.000234743117	PRF1/CCR5/SH2D1A/LGALS3BP/TRAT1/ITK	6
BP	GO:0002696	positive regulation of leukocyte activation	14/152	406/18866	5.37E-06	0.000305480699	0.000264266948	LCK/CD3E/CCL5/CD2/RASGRP1/IFNG/FCRL3/CD27/RASAL3/CD5/HLA-F/SIRPG/CD6/CD274	14
BP	GO:0002831	regulation of response to biotic stimulus	14/152	409/18866	5.85E-06	0.000323969140	0.000280261032	NLRC5/CEACAM1/LAG3/CCL5/RASGRP1/IFNG/SLAMF6/PYHIN1/NLRC3/HLA-B/SH2D1A/CD96/HLA-F/CD274	14
BP	GO:0051251	positive regulation of lymphocyte activation	13/152	357/18866	6.59E-06	0.000356449076	0.000308358957	LCK/CD3E/CCL5/RASGRP1/IFNG/FCRL3/CD27/RASAL3/CD5/HLA-F/SIRPG/CD6/CD274	13
BP	GO:0050867	positive regulation of cell activation	14/152	421/18866	8.12E-06	0.000428592413	0.000370769117	LCK/CD3E/CCL5/CD2/RASGRP1/IFNG/FCRL3/CD27/RASAL3/CD5/HLA-F/SIRPG/CD6/CD274	14
BP	GO:0002449	lymphocyte mediated immunity	13/152	366/18866	8.61E-06	0.00043964432	0.00038406723	CD8A/CEACAM1/LAG3/PRF1/SLA2/RASGRP1/SLAMF6/CD27/HLA-B/SH2D1A/CD96/HLA-F/HLA-H	13
BP	GO:0002716	negative regulation of natural killer cell mediated imm	4/152	17/18866	8.88E-06	0.000447612823	0.000387223400	CEACAM1/HLA-B/CD96/HLA-F	4
BP	GO:0045824	negative regulation of innate immune response	6/152	62/18866	1.05E-05	0.000517261370	0.000447475353	NLRC5/CEACAM1/NLRC3/HLA-B/CD96/HLA-F	6
BP	GO:0007204	positive regulation of cytosolic calcium ion concentr	12/152	322/18866	1.20E-05	0.000578548281	0.000500493777	PRNP/CXCL13/LCK/FASLG/CCR5/PTGER4/P2RY10/CXCR3/KISS1/CXCR6/GPR18/JSRP1	12
BP	GO:0019722	calcium-mediated signaling	10/152	222/18866	1.30E-05	0.000613596428	0.000530813424	PRNP/CD3E/SLA2/LAT/CCR5/CXCR3/TBC1D10C/CXCR6/TRAT1/JSRP1	10
BP	GO:0030049	muscle filament sliding	5/152	39/18866	1.47E-05	0.000663763609	0.000574212328	TTN/MYL1/TNNI1/TNNC2/ACTA1	5
BP	GO:0033275	actin-myosin filament sliding	5/152	39/18866	1.47E-05	0.000663763609	0.000574212328	TTN/MYL1/TNNI1/TNNC2/ACTA1	5
BP	GO:0032649	regulation of interferon-gamma production	7/152	104/18866	2.12E-05	0.000940373653	0.000813503690	PRNP/CD3E/CD2/RASGRP1/SLAMF6/CD96/CD274	7
BP	GO:0002708	positive regulation of lymphocyte mediated immunity	7/152	106/18866	2.40E-05	0.001043541891	0.000902753044	LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	7
BP	GO:0001913	T cell mediated cytotoxicity	5/152	44/18866	2.68E-05	0.001142155814	0.00098062527	CEACAM1/PRF1/HLA-B/HLA-F/HLA-H	5
BP	GO:0051480	regulation of cytosolic calcium ion concentration	12/152	357/18866	3.32E-05	0.001389771136	0.001202270973	PRNP/CXCL13/LCK/FASLG/CCR5/PTGER4/P2RY10/CXCR3/KISS1/CXCR6/GPR18/JSRP1	12
BP	GO:0045785	positive regulation of cell adhesion	13/152	428/18866	4.43E-05	0.001820514555	0.001574900895	CXCL13/LCK/CD3E/CCL5/RASGRP1/IFNG/CD27/RASAL3/CD5/PLEKHA2/SIRPG/CD6/CD274	13
BP	GO:0043501	skeletal muscle adaptation	4/152	26/18866	5.27E-05	0.002125874033	0.001839062977	TNNI1/MYOD1/MYOG/ACTA1	4
BP	GO:0002703	regulation of leukocyte mediated immunity	9/152	211/18866	5.44E-05	0.00215561367	0.001864790308	CEACAM1/LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/CD96/HLA-F/HLA-H	9
BP	GO:0031349	positive regulation of defense response	12/152	385/18866	6.88E-05	0.002674227131	0.002313435336	NLRC5/LAG3/CCL5/RASGRP1/IFNG/SLAMF6/KLKB1/PYHIN1/PTGER4/SH2D1A/HLA-F/CD6	12
BP	GO:0033632	regulation of cell-cell adhesion mediated by integrin	3/152	11/18866	8.07E-05	0.003031939144	0.002622886841	CXCL13/CD3E/CCL5	3
BP	GO:0048742	regulation of skeletal muscle fiber development	3/152	11/18866	8.07E-05	0.003031939144	0.002622886841	MYF6/MYOD1/MYOG	3
BP	GO:0006874	cellular calcium ion homeostasis	13/152	456/18866	8.43E-05	0.003114800637	0.002694569124	PRNP/CXCL13/LCK/FASLG/CCL5/CCR5/PTGER4/P2RY10/CXCR3/KISS1/CXCR6/GPR18/JSRP1	13
BP	GO:0050574	calcium ion homeostasis	13/152	468/18866	0.000109278515	0.003971574358	0.003435751718	PRNP/CXCL13/LCK/FASLG/CCL5/CCR5/PTGER4/P2RY10/CXCR3/KISS1/CXCR6/GPR18/JSRP1	13
BP	GO:0048747	muscle fiber development	5/152	60/18866	0.000121472323	0.004299521116	0.00371945373	TNNMYF6/MYOD1/MYOG/ACTA1	5
BP	GO:0048741	skeletal muscle fiber development	4/152	32/18866	0.000122178543	0.004299521116	0.00371945373	MYF6/MYOD1/MYOG/ACTA1	4
BP	GO:0002695	negative regulation of leukocyte activation	8/152	184/18866	0.0001247601950	0.004321771133	0.003738701899	PRNP/CEACAM1/CST7/LAG3/TIGIT/TBC1D10C/HLA-F/CD274	8
BP	GO:0002705	positive regulation of leukocyte mediated immunity	7/152	138/18866	0.000128814718	0.004393527773	0.003800816463	LAG3/RASGRP1/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	7
BP	GO:0002832	negative regulation of response to biotic stimulus	6/152	98/18866	0.000141715598	0.004760355799	0.00411811571	NLRC5/CEACAM1/NLRC3/HLA-B/CD96/HLA-F	6
BP	GO:0050848	regulation of calcium-mediated signaling	6/152	100/18866	0.000158385140	0.005240893386	0.004533821309	PRNP/CD3E/SLA2/TBC1D10C/TRAT1/JSRP1	6

ONTOLOGY	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
BP	GO:0001818	negative regulation of cytokine production	11/152	360/18866	0.000165150225	0.005384383089	0.004657952182	PRNP/NLRC5/CEACAM1/IFNG/TIGIT/NLRC3/PTGER4/CD96/GPR18/HLA-F/CD274	11
BP	GO:0001914	regulation of T cell mediated cytotoxicity	4/152	35/18866	0.000174592014	0.005460280301	0.004723609766	CEACAM1/HLA-B/HLA-F/HLA-H	4
BP	GO:0014904	myotube cell development	4/152	35/18866	0.000174592014	0.005460280301	0.004723609766	MYF6/MYOD1/MYOG/ACTA1	4
BP	GO:0045059	positive thymic T cell selection	3/152	14/18866	0.000174866892	0.005460280301	0.004723609766	CD3G/CD3E/CD3D	3
BP	GO:0072503	cellular divalent inorganic cation homeostasis	13/152	492/18866	0.000178943291	0.005509962193	0.004766588855	PRNP/CXCL13/LCK/FASLG/CCL5/CCR5/PTGER4/P2RY10/CXCR3/KISS1/CXCR6/GPR18/JSRP1	13
BP	GO:0002456	T cell mediated immunity	6/152	104/18866	0.000196364330	0.00596355783	0.0051589879	CD8A/CEACAM1/PRF1/HLA-B/HLA-F/HLA-H	6
BP	GO:0002833	positive regulation of response to biotic stimulus	9/152	251/18866	0.000203465224	0.006095708138	0.005273309227	NLRC5/LAG3/CCL5/RASGRP1/SLAMF6/PYHIN1/SH2D1A/HLA-F/CD274	9
BP	GO:0032102	negative regulation of response to external stimulus	12/152	433/18866	0.000206426469	0.006101966424	0.00527872318	NLRC5/CXCL13/CEACAM1/CST7/KLB1/NLRC3/PTGER4/HLA-B/CD96/GPR18/HLA-F/SEMA4D	12
BP	GO:0002460	adaptive immune response based on somatic recomb	11/152	370/18866	0.000209330881	0.00610640215	0.005282560462	CD8A/CXCL13/CEACAM1/PRF1/SLA2/SLAMF6/CD27/HLA-B/HLA-F/HLA-H/CD274	11
BP	GO:0046632	alpha-beta T cell differentiation	6/152	106/18866	0.000217870737	0.006272979537	0.005426664158	IFNG/SLAMF6/PTGER4/GPR18/ITK/BCL11B	6
BP	GO:0035914	skeletal muscle cell differentiation	5/152	69/18866	0.000235846913	0.006703494961	0.005799096844	MYF6/MYOD1/MYOG/PAX7/VAX1	5
BP	GO:0071887	leukocyte apoptotic process	6/152	108/18866	0.000241191804	0.006752531768	0.005841517879	CD3G/FASLG/CCL5/CCR5/CD27/CD274	6
BP	GO:0030048	actin filament-based movement	7/152	153/18866	0.000243663753	0.006752531768	0.005841517879	TTN/MYO7B/MYL1/WIPF1/TNNI1/TNNC2/ACTA1	7
BP	GO:0051250	negative regulation of lymphocyte activation	7/152	154/18866	0.000253567497	0.006940236318	0.006003898379	PRNP/CEACAM1/LAG3/TIGIT/TBC1D10C/HLA-F/CD274	7
BP	GO:0045953	negative regulation of natural killer cell mediated cytotoxicity	3/152	16/18866	0.0002658609030	0.007187971011	0.00621821009	CEACAM1/HLA-B/HLA-F	3
BP	GO:0050866	negative regulation of cell activation	8/152	207/18866	0.000278887135	0.007449310580	0.006444291188	PRNP/CEACAM1/CST7/LAG3/TIGIT/TBC1D10C/HLA-F/CD274	8
BP	GO:0043403	skeletal muscle tissue regeneration	4/152	40/18866	0.000295360176	0.007732799661	0.006689533501	MYF6/MYOD1/MYOG/PAX7	4
BP	GO:0007519	skeletal muscle tissue development	7/152	158/18866	0.000296476306	0.007732799661	0.006689533501	MYF6/MYLPF/MYOD1/MYOG/PAX7/VAX1/ACTA1	7
BP	GO:0070227	lymphocyte apoptotic process	5/152	73/18866	0.000307180436	0.007818639479	0.00676379229	CD3G/FASLG/CCL5/CD27/CD274	5
BP	GO:1903555	regulation of tumor necrosis factor superfamily cytok	6/152	113/18866	0.000308142532	0.007818639479	0.00676379229	CD2/RASGRP1/IFNG/NLRC3/GPR18/CD274	6
BP	GO:0002483	antigen processing and presentation of endogenous	3/152	17/18866	0.000320927466	0.007818639479	0.00676379229	HLA-B/HLA-F/HLA-H	3
BP	GO:0002643	regulation of tolerance induction	3/152	17/18866	0.000320927466	0.007818639479	0.00676379229	CD3E/HLA-B/CD274	3
BP	GO:0019885	antigen processing and presentation of endogenous	3/152	17/18866	0.000320927466	0.007818639479	0.00676379229	HLA-B/HLA-F/HLA-H	3
BP	GO:0033631	cell-cell adhesion mediated by integrin	3/152	17/18866	0.000320927466	0.007818639479	0.00676379229	CXCL13/CD3E/CCL5	3
BP	GO:0045089	positive regulation of innate immune response	8/152	213/18866	0.000337932527	0.008143439274	0.007044771909	NLRC5/LAG3/CCL5/RASGRP1/SLAMF6/PYHIN1/SH2D1A/HLA-F	8
BP	GO:0002707	negative regulation of lymphocyte mediated immun	4/152	42/18866	0.000357252810	0.008516446035	0.007367454681	CEACAM1/HLA-B/CD96/HLA-F	4
BP	GO:0033077	T cell differentiation in thymus	5/152	76/18866	0.000370590189	0.008740409053	0.007561201859	CD3G/CD3E/RASGRP1/CD3D/BCL11B	5
BP	GO:0071706	tumor necrosis factor superfamily cytokine productio	6/152	119/18866	0.000406832697	0.009494190429	0.008213287259	CD2/RASGRP1/IFNG/NLRC3/GPR18/CD274	6
BP	GO:0060538	skeletal muscle organ development	7/152	168/18866	0.000429637294	0.009908461933	0.008571667565	MYF6/MYLPF/MYOD1/MYOG/PAX7/VAX1/ACTA1	7
BP	GO:0002697	regulation of immune effector process	12/152	470/18866	0.000433523142	0.009908461933	0.008571667565	CEACAM1/LAG3/RASGRP1/IFNG/SLAMF6/FCRL3/HLA-B/SH2D1A/CD96/HLA-F/CFB/HLA-H	12
BP	GO:0042693	muscle cell fate commitment	3/152	19/18866	0.000451947118	0.01022415062	0.00884765298	MYF6/MYOD1/MYOG	3
BP	GO:0002699	positive regulation of immune effector process	8/152	223/18866	0.000458762580	0.01027350143	0.008887457967	LAG3/RASGRP1/IFNG/SLAMF6/HLA-B/SH2D1A/HLA-F/HLA-H	8
BP	GO:0001911	negative regulation of leukocyte mediated cytotoxici	3/152	20/18866	0.000528570648	0.01148863851	0.00993865554	CEACAM1/HLA-B/HLA-F	3
BP	GO:0002418	immune response to tumor cell	3/152	20/18866	0.000528570648	0.01148863851	0.00993865554	CEACAM1/PRF1/CD274	3
BP	GO:1901741	positive regulation of myoblast fusion	3/152	20/18866	0.000528570648	0.01148863851	0.00993865554	MYF6/MYOD1/MYOG	3
BP	GO:0033630	positive regulation of cell adhesion mediated by inte	3/152	21/18866	0.000613034793	0.01319512755	0.01141491461	CXCL13/CD3E/CCL5	3
BP	GO:0070231	T cell apoptotic process	4/152	49/18866	0.000647361492	0.01380000411	0.0119381846	FASLG/CCL5/CD27/CD274	4
BP	GO:2000106	regulation of leukocyte apoptotic process	5/152	86/18866	0.000655010444	0.01383007767	0.0119642008	CD3G/CCL5/CCR5/CD27/CD274	5
BP	GO:0071346	cellular response to interferon-gamma	7/152	182/18866	0.000692126307	0.01422209086	0.01230332576	NLRC5/FASLG/CCL5/IFNG/HLA-B/HLA-F/HLA-H	7
BP	GO:0006925	inflammatory cell apoptotic process	3/152	22/18866	0.000705651779	0.01422209086	0.01230332576	FASLG/CCL5/CCR5	3
BP	GO:0045061	thymic T cell selection	3/152	22/18866	0.000705651779	0.01422209086	0.01230332576	CD3G/CD3E/CD3D	3
BP	GO:0045663	positive regulation of myoblast differentiation	3/152	22/18866	0.000705651779	0.01422209086	0.01230332576	MYF6/MYOD1/MYOG	3
BP	GO:1901739	regulation of myoblast fusion	3/152	22/18866	0.000705651779	0.01422209086	0.01230332576	MYF6/MYOD1/MYOG	3
BP	GO:0070098	chemokine-mediated signaling pathway	5/152	88/18866	0.000727393364	0.01452820801	0.0125681433	CXCL13/CCL5/CCR5/CXCR3/CXCR6	5
BP	GO:0002704	negative regulation of leukocyte mediated immunity	4/152	52/18866	0.000811849935	0.01592840923	0.01377943718	CEACAM1/HLA-B/CD96/HLA-F	4
BP	GO:0002285	lymphocyte activation involved in immune response	7/152	187/18866	0.000811867497	0.01592840923	0.01377943718	CEACAM1/IFNG/SLAMF6/PTGER4/DOCK10/HLA-F/ITGAL	7
BP	GO:0050671	positive regulation of lymphocyte proliferation	6/152	136/18866	0.000823935236	0.01602337209	0.01386158818	CD3E/CCL5/FCRL3/RASAL3/CD6/CD274	6
BP	GO:0060333	interferon-gamma-mediated signaling pathway	5/152	91/18866	0.000846967628	0.01632806289	0.0141251718	NLRC5/IFNG/HLA-B/HLA-F/HLA-H	5
BP	GO:0032946	positive regulation of mononuclear cell proliferation	6/152	137/18866	0.000856034504	0.01636059049	0.01415331095	CD3E/CCL5/FCRL3/RASAL3/CD6/CD274	6
BP	GO:0045661	regulation of myoblast differentiation	4/152	53/18866	0.000872671835	0.01653601248	0.01430506599	NMRK2/MYF6/MYOD1/MYOG	4
BP	GO:0019883	antigen processing and presentation of endogenous	3/152	24/18866	0.000916548697	0.01705010624	0.01474980109	HLA-B/HLA-F/HLA-H	3
BP	GO:0031342	negative regulation of cell killing	3/152	24/18866	0.000916548697	0.01705010624	0.01474980109	CEACAM1/HLA-B/HLA-F	3
BP	GO:0018108	peptidyl-tyrosine phosphorylation	10/152	374/18866	0.000922874492	0.01705010624	0.01474980109	TTN/PRNP/LCK/CD3E/CCL5/IFNG/CSH1/TGFA/SEMA4D/ITK	10
BP	GO:0018212	peptidyl-tyrosine modification	10/152	377/18866	0.000980366616	0.01796258502	0.01553917333	TTN/PRNP/LCK/CD3E/CCL5/IFNG/CSH1/TGFA/SEMA4D/ITK	10
BP	GO:0014888	striated muscle adaptation	4/152	55/18866	0.001003829649	0.01824172403	0.01578065246	TNNI1/MYOD1/MYOG/ACTA1	4
BP	GO:0001819	positive regulation of cytokine production	11/152	447/18866	0.001014778052	0.01829075562	0.01582306898	CD3E/CD2/RASGRP1/IFNG/TIGIT/SLAMF6/PYHIN1/PTGER4/HLA-F/CD6/CD274	11
BP	GO:0042098	T cell proliferation	7/152	195/18866	0.001036943881	0.01839123667	0.0159099369	PRNP/CD3E/CCL5/RASGRP1/RASAL3/CD6/CD274	7
BP	GO:0050731	positive regulation of peptidyl-tyrosine phosphorylati	7/152	195/18866	0.001036943881	0.01839123667	0.0159099369	PRNP/CD3E/CCL5/IFNG/CSH1/TGFA/SEMA4D	7
BP	GO:0031295	T cell costimulation	4/152	56/18866	0.001074340838	0.0187544381	0.01622419401	LCK/CD3E/CD5/CD274	4
BP	GO:0070228	regulation of lymphocyte apoptotic process	4/152	56/18866	0.001074340838	0.0187544381	0.01622419401	CD3G/CCL5/CD27/CD274	4
BP	GO:1990868	response to chemokine	5/152	97/18866	0.001129331999	0.01940875226	0.01679023176	CXCL13/CCL5/CCR5/CXCR3/CXCR6	5
BP	GO:1990869	cellular response to chemokine	5/152	97/18866	0.001129331999	0.01940875226	0.01679023176	CXCL13/CCL5/CCR5/CXCR3/CXCR6	5
BP	GO:0002347	response to tumor cell	3/152	26/18866	0.001163583358	0.01954291141	0.0169062909	CEACAM1/PRF1/CD274	3
BP	GO:0002507	tolerance induction	3/152	26/18866	0.001163583358	0.01954291141	0.0169062909	CD3E/HLA-B/CD274	3
BP	GO:0048643	positive regulation of skeletal muscle tissue develop	3/152	26/18866	0.001163583358	0.01954291141	0.0169062909	MYF6/MYOD1/MYOG	3
BP	GO:0019932	second-messenger-mediated signaling	11/152	456/18866	0.00119109378	0.0198545482	0.0171758834	PRNP/CD3E/SLA2/LAT/CCR5/PTGER4/CXCR3/TBC1D10C/CXCR6/TRAT1/JSRP1	11
BP	GO:0031294	lymphocyte costimulation	4/152	58/18866	0.001225665752	0.02027836547	0.01754252161	LCK/CD3E/CD5/CD274	4

ONTOLOGY	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
BP	GO:0034341	response to interferon-gamma	7/152	202/18866	0.001271763756	0.02088518701	0.01806747417	NLRC5/FASLG/CCL5/IFNG/HLA-B/HLA-F/HLA-H	7
BP	GO:0042102	positive regulation of T cell proliferation	5/152	101/18866	0.001352831573	0.0220531441	0.01907785702	CD3E/CCL5/RASAL3/CD6/CD274	5
BP	GO:0070665	positive regulation of leukocyte proliferation	6/152	150/18866	0.001367486624	0.02212883565	0.01914333668	CD3E/CCL5/FCRL3/RASAL3/CD6/CD274	6
BP	GO:0003012	muscle system process	11/152	467/18866	0.001440174936	0.02278229951	0.01970863885	TTN/MYL1/SMPX/MYLPF/TNNI1/MYOD1/MYOG/TNNC2/NEUROG1/JSRP1/ACTA1	11
BP	GO:0001916	positive regulation of T cell mediated cytotoxicity	3/152	28/18866	0.001448941918	0.02278229951	0.01970863885	HLA-B/HLA-F/HLA-H	3
BP	GO:0010818	T cell chemotaxis	3/152	28/18866	0.001448941918	0.02278229951	0.01970863885	CXCL13/CCL5/CXCR3	3
BP	GO:0060143	positive regulation of syncytium formation by plasma	3/152	28/18866	0.001448941918	0.02278229951	0.01970863885	MYF6/MYOD1/MYOG	3
BP	GO:0031348	negative regulation of defense response	8/152	269/18866	0.001542866242	0.02408827083	0.02083841581	NLRC5/CEACAM1/CS77/NLRC3/PTGER4/HLA-B/CD96/HLA-F	8
BP	GO:0019835	cytolysis	3/152	29/18866	0.001606639816	0.02490853477	0.02154801432	PRF1/GZMH/GZMA	3
BP	GO:0007517	muscle organ development	10/152	407/18866	0.001734276928	0.02670063853	0.02309833744	TTN/MYF6/MYLPF/TNNI1/MYOD1/MYOG/PAX7/VAX1/NEUROG1/ACTA1	10
BP	GO:0060142	regulation of syncytium formation by plasma membra	3/152	30/18866	0.001774679257	0.02713423388	0.02347343453	MYF6/MYOD1/MYOG	3
BP	GO:0050777	negative regulation of immune response	6/152	159/18866	0.001839353981	0.02793046421	0.02416224191	NLRC5/CEACAM1/NLRC3/HLA-B/CD96/HLA-F	6
BP	GO:0032729	positive regulation of interferon-gamma production	4/152	65/18866	0.001872636989	0.02805159598	0.02426703125	CD3E/CD2/RASGRP1/SLAMF6	4
BP	GO:0048247	lymphocyte chemotaxis	4/152	65/18866	0.001872636989	0.02805159598	0.02426703125	MSMP/CXCL13/CCL5/CXCR3	4
BP	GO:0002286	T cell activation involved in immune response	5/152	109/18866	0.00189553571	0.02820404476	0.02439891249	CEACAM1/IFNG/SLAMF6/PTGER4/ITGAL	5
BP	GO:0050670	regulation of lymphocyte proliferation	7/152	219/18866	0.002016403609	0.02980244535	0.0257816658	PRNP/CD3E/CCL5/FCRL3/RASAL3/CD6/CD274	7
BP	GO:0072678	T cell migration	4/152	67/18866	0.002093865794	0.03074238719	0.02659479594	CXCL13/CCL5/CXCR3/ITGAL	4
BP	GO:0046651	lymphocyte proliferation	8/152	283/18866	0.002118729233	0.03075439968	0.02660518777	PRNP/CD3E/CCL5/RASGRP1/FCRL3/RASAL3/CD6/CD274	8
BP	GO:0032944	regulation of mononuclear cell proliferation	7/152	221/18866	0.002122428124	0.03075439968	0.02660518777	PRNP/CD3E/CCL5/FCRL3/RASAL3/CD6/CD274	7
BP	GO:0050849	negative regulation of calcium-mediated signaling	3/152	32/18866	0.002142723391	0.03084686856	0.02668518126	PRNP/SLA2/TBC1D10C	3
BP	GO:0032943	mononuclear cell proliferation	8/152	286/18866	0.002261689584	0.03234945682	0.0279850487	PRNP/CD3E/CCL5/RASGRP1/FCRL3/RASAL3/CD6/CD274	8
BP	GO:0046640	regulation of alpha-beta T cell proliferation	3/152	33/18866	0.002343179378	0.03303437492	0.02857756148	CD3E/RASAL3/CD274	3
BP	GO:1902003	regulation of amyloid-beta formation	3/152	33/18866	0.002343179378	0.03303437492	0.02857756148	PRNP/IFNG/ABCG1	3
BP	GO:0042129	regulation of T cell proliferation	6/152	167/18866	0.002354276607	0.03303437492	0.02857756148	PRNP/CD3E/CCL5/RASAL3/CD6/CD274	6
BP	GO:1902105	regulation of leukocyte differentiation	8/152	290/18866	0.002463984433	0.03435631125	0.02972114954	CEACAM1/LAG3/CD2/RASGRP1/IFNG/FCRL3/CD27/HLA-B	8
BP	GO:0051482	positive regulation of cytosolic calcium ion concentr	3/152	34/18866	0.002554879753	0.03518117027	0.03043472318	P2RY10/KISS1/GPR18	3
BP	GO:0070232	regulation of T cell apoptotic process	3/152	34/18866	0.002554879753	0.03518117027	0.03043472318	CCL5/CD27/CD274	3
BP	GO:0072676	lymphocyte migration	5/152	117/18866	0.002582691629	0.03534461322	0.03057611532	MSMP/CXCL13/CCL5/CXCR3/ITGAL	5
BP	GO:0050868	negative regulation of T cell activation	5/152	118/18866	0.002679763375	0.03644806995	0.03153069983	PRNP/CEACAM1/LAG3/TIGIT/CD274	5
BP	GO:0006936	muscle contraction	9/152	362/18866	0.002708129571	0.03660928817	0.03167016738	TTN/MYL1/SMPX/MYLPF/TNNI1/TNNC2/NEUROG1/JSRP1/ACTA1	9
BP	GO:0002664	regulation of T cell tolerance induction	2/152	10/18866	0.002781443296	0.0369249089	0.03194320634	CD3E/HLA-B	2
BP	GO:0035581	sequestering of extracellular ligand from receptor	2/152	10/18866	0.002781443296	0.0369249089	0.03194320634	GREM2/LTBP1	2
BP	GO:2000109	regulation of macrophage apoptotic process	2/152	10/18866	0.002781443296	0.0369249089	0.03194320634	CCL5/CCR5	2
BP	GO:0002709	regulation of T cell mediated immunity	4/152	73/18866	0.002864777846	0.03780483622	0.03270441877	CEACAM1/HLA-B/HLA-F/HLA-H	4
BP	GO:0002701	negative regulation of production of molecular medic	3/152	36/18866	0.003012835369	0.03929091772	0.03399000645	FCRL3/CD96/HLA-F	3
BP	GO:0046633	alpha-beta T cell proliferation	3/152	36/18866	0.003012835369	0.03929091772	0.03399000645	CD3E/RASAL3/CD274	3
BP	GO:0070252	actin-mediated cell contraction	5/152	123/18866	0.003205203103	0.04155517707	0.03594878457	TTN/MYL1/TNNI1/TNNC2/ACTA1	5
BP	GO:0006941	striated muscle contraction	6/152	178/18866	0.00323090832	0.04164490549	0.03602640734	TTN/MYL1/SMPX/TNNI1/TNNC2/JSRP1	6
BP	GO:0060415	muscle tissue morphogenesis	4/152	76/18866	0.003314660279	0.04228341504	0.03657877274	TTN/MYF6/TNNI1/PAX7	4
BP	GO:0002698	negative regulation of immune effector process	5/152	124/18866	0.003318590085	0.04228341504	0.03657877274	CEACAM1/FCRL3/HLA-B/CD96/HLA-F	5
BP	GO:0070663	regulation of leukocyte proliferation	7/152	240/18866	0.003358735553	0.04255038126	0.03680972137	PRNP/CD3E/CCL5/FCRL3/RASAL3/CD6/CD274	7
BP	GO:0051712	positive regulation of killing of cells of other organis	2/152	11/18866	0.003381611228	0.04259677326	0.03684985441	PRF1/IFNG	2
BP	GO:0045619	regulation of lymphocyte differentiation	6/152	181/18866	0.00350743428	0.04381891673	0.03790711311	LAG3/CD2/RASGRP1/IFNG/FCRL3/CD27	6
BP	GO:0032689	negative regulation of interferon-gamma production	3/152	38/18866	0.003518162913	0.04381891673	0.03790711311	PRNP/CD96/CD274	3
BP	GO:0014066	regulation of phosphatidylinositol 3-kinase signaling	5/152	127/18866	0.003676075905	0.0455299457	0.03938729961	CEACAM1/CCL5/RASGRP1/NLRC3/SEMA4D	5
BP	GO:0010831	positive regulation of myotube differentiation	3/152	39/18866	0.003789052327	0.04615565389	0.03992859074	MYF6/MYOD1/MYOG	3
BP	GO:0032660	regulation of interleukin-17 production	3/152	39/18866	0.003789052327	0.04615565389	0.03992859074	PRNP/IFNG/SLAMF6	3
BP	GO:0034205	amyloid-beta formation	3/152	39/18866	0.003789052327	0.04615565389	0.03992859074	PRNP/IFNG/ABCG1	3
BP	GO:0042246	tissue regeneration	4/152	79/18866	0.003810413909	0.04616222607	0.03993427623	MYF6/MYOD1/MYOG/PAX7	4
BP	GO:0070661	leukocyte proliferation	8/152	313/18866	0.003917773192	0.04710009368	0.04074561199	PRNP/CD3E/CCL5/RASGRP1/FCRL3/RASAL3/CD6/CD274	8
BP	GO:0002517	T cell tolerance induction	2/152	12/18866	0.004036543888	0.04710009368	0.04074561199	CD3E/HLA-B	2
BP	GO:0043301	negative regulation of leukocyte degranulation	2/152	12/18866	0.004036543888	0.04710009368	0.04074561199	CEACAM1/HLA-F	2
BP	GO:0043383	negative T cell selection	2/152	12/18866	0.004036543888	0.04710009368	0.04074561199	CD3E/THEMIS	2
BP	GO:0071888	macrophage apoptotic process	2/152	12/18866	0.004036543888	0.04710009368	0.04074561199	CCL5/CCR5	2
BP	GO:1900115	extracellular regulation of signal transduction	2/152	12/18866	0.004036543888	0.04710009368	0.04074561199	GREM2/LTBP1	2
BP	GO:1900116	extracellular negative regulation of signal transducti	2/152	12/18866	0.004036543888	0.04710009368	0.04074561199	GREM2/LTBP1	2
BP	GO:1902991	regulation of amyloid precursor protein catabolic pro	3/152	40/18866	0.004072324661	0.04726881559	0.04089157088	PRNP/IFNG/ABCG1	3
CC	GO:0042101	T cell receptor complex	21/156	140/19559	4.59E-21	9.13E-19	7.92E-19	CD8A/TRBV4-1/CEACAM1/CD3G/CD8B/CD3E/TRBV19/TRAV24/CD3D/TRBV7-8/TRBV28/TRGC2/TRBV27/TRBV5-6/TRBV29-1/TRAV38-1/TRBV5-	21
CC	GO:0098802	plasma membrane signaling receptor complex	23/156	307/19559	4.16E-16	4.14E-14	3.59E-14	CD8A/TRBV4-1/CEACAM1/CD3G/CD8B/CD3E/TRBV19/TRAV24/CD3D/TRBV7-8/TRBV28/TRGC2/TRBV27/TRBV5-6/TRBV29-1/TRAV38-1/TRBV5-	23
CC	GO:0009897	external side of plasma membrane	20/156	417/19559	1.41E-10	9.34E-09	8.10E-09	CD8A/PRNP/CD3G/LAG3/FASLG/CD3E/CD2/CCR5/CD27/CD3D/TRGC2/CXCR3/CXCR6/CD5/HLA-F/ABCG1/BTNL8/HLA-H/CD6/CD274	20
CC	GO:0001772	immunological synapse	5/156	39/19559	1.40E-05	0.000696517381	0.000604225604	LCK/CD3E/LAT/GZMA/CD6	5
CC	GO:0043292	contractile fiber	8/156	238/19559	0.000661243296	0.02274161313	0.01972824414	TTN/MYL1/SMPX/MYLPF/TNNI1/MYOD1/TNNC2/ACTA1	8
CC	GO:0005865	striated muscle thin filament	3/156	22/19559	0.000885676777	0.02274161313	0.01972824414	TNNI1/TNNC2/ACTA1	3
CC	GO:0042611	MHC protein complex	3/156	25/19559	0.001006269091	0.02589941072	0.02246761893	HLA-B/HLA-F/HLA-H	3
CC	GO:0036379	myofilament	3/156	26/19559	0.001130899574	0.02589941072	0.02246761893	TNNI1/TNNC2/ACTA1	3
CC	GO:0030658	transport vesicle membrane	7/156	209/19559	0.001463564542	0.02589941072	0.02246761893	CEACAM1/SLC17A8/SYT8/HLA-B/TGFA/HLA-F/HLA-H	7
CC	GO:0012507	ER to Golgi transport vesicle membrane	4/156	62/19559	0.001516418565	0.02589941072	0.02246761893	HLA-B/TGFA/HLA-F/HLA-H	4

ONTOLOGY	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
CC	GO:0071556	integral component of luminal side of endoplasmic	3/156	29/19559	0.001561773511	0.02589941072	0.02246761893	HLA-B/HLA-F/HLA-H	3
CC	GO:0098553	luminal side of endoplasmic reticulum membrane	3/156	29/19559	0.001561773511	0.02589941072	0.02246761893	HLA-B/HLA-F/HLA-H	3
CC	GO:0030016	myofibril	7/156	227/19559	0.002337000113	0.03577407865	0.03103384765	TTN/MYL1/SMPX/TNNI1/MYOD1/TNNC2/ACTA1	7
CC	GO:0098576	luminal side of membrane	3/156	36/19559	0.002929845171	0.04164565635	0.03612741413	HLA-B/HLA-F/HLA-H	3
CC	GO:0030662	coated vesicle membrane	6/156	183/19559	0.003529772426	0.04682831419	0.04062334582	CD3G/CD3D/HLA-B/TGFA/HLA-F/HLA-H	6
MF	GO:0035591	signaling adaptor activity	5/138	68/18352	0.000159342889	0.03250566289	0.02886667817	CD3G/CD3E/SLA2/LAT/TRAT1	5
MF	GO:0030159	signaling receptor complex adaptor activity	4/138	41/18352	0.000249774704	0.03250566289	0.02886667817	CD3G/CD3E/LAT/TRAT1	4
MF	GO:0015026	coreceptor activity	4/138	48/18352	0.000460786324	0.03250566289	0.02886667817	CD8A/CD8B/CCR5/CXCR6	4
MF	GO:0070888	E-box binding	4/138	50/18352	0.000539079417	0.03250566289	0.02886667817	MYF6/MYOD1/MYOG/NEUROG1	4
MF	GO:0016493	C-C chemokine receptor activity	3/138	23/18352	0.000659883470	0.03250566289	0.02886667817	CCR5/CXCR3/CXCR6	3
MF	GO:0019957	C-C chemokine binding	3/138	24/18352	0.000750018701	0.03250566289	0.02886667817	CCR5/CXCR3/CXCR6	3
MF	GO:0043621	protein self-association	4/138	57/18352	0.000887841273	0.03250566289	0.02886667817	TTN/CL5/CD2/SVIP	4
MF	GO:0001637	G protein-coupled chemoattractant receptor activity	3/138	26/18352	0.000952934742	0.03250566289	0.02886667817	CCR5/CXCR3/CXCR6	3
MF	GO:0004950	chemokine receptor activity	3/138	26/18352	0.000952934742	0.03250566289	0.02886667817	CCR5/CXCR3/CXCR6	3
MF	GO:0042605	peptide antigen binding	3/138	31/18352	0.001602892373	0.04917905924	0.04367350023	HLA-B/HLA-F/HLA-H	3
MF	GO:0004252	serine-type endopeptidase activity	6/138	169/18352	0.001762116129	0.04917905924	0.04367350023	GZMK/GZMH/GZMA/KLKB1/KLK11/CFB	6
MF	GO:0019956	chemokine binding	3/138	33/18352	0.001924370581	0.04923181403	0.04372034917	CCR5/CXCR3/CXCR6	3

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000001648	11.64904911	-1.025592576	34.29818612	0.000426509557	0.03570433971	ENSG000001648	SPAG11B
ENSG000001636	11.40720056	0.474246181	76.48194895	2.50E-09	7.56E-06	ENSG000001636	CLRN1
ENSG000002274	10.62426437	-0.08911407205	168.5438158	4.61E-13	1.95E-08	ENSG000002274	AKR1B15
ENSG000001110	10.30802792	5.133920113	65.39368021	1.17E-08	2.35E-05	ENSG000001110	MYF5
ENSG000002602	9.900488529	-1.781803936	70.7063396	5.46E-09	1.21E-05	ENSG000002602	RP11-166N6.3
ENSG000002357	9.580481501	-0.1292065745	92.06409255	3.74E-10	2.26E-06	ENSG000002357	RP11-342M3.2
ENSG000002510	8.660456146	-3.778674546	40.71989713	0.000242971295	0.02500440228	ENSG000002510	CTC-254B4.1
ENSG000001772	8.646173218	1.22793533	57.23440607	4.11E-08	6.21E-05	ENSG000001772	TRIM72
ENSG000002286	8.579598896	-3.83972888	41.90715754	0.000220812656	0.02359846342	ENSG000002286	RP5-968D22.1
ENSG000001227	8.53562136	2.050939326	36.23498206	2.08E-06	0.000868827473	ENSG000001227	MYOG
ENSG000001155	8.475780171	3.076092845	40.61178068	8.31E-07	0.000487636905	ENSG000001155	SMYD1
ENSG000001685	8.375589311	5.923577211	22.68799148	5.88E-05	0.009629495674	ENSG000001685	MYL1
ENSG000002673	8.273106503	-2.882124763	42.49521916	5.70E-07	0.000394844975	ENSG000002673	AC131056.5
ENSG000001110	8.221697538	2.608195371	34.16263269	3.30E-06	0.00120211594	ENSG000001110	MYF6
ENSG000002142	8.119600511	-3.697563971	56.2431124	4.83E-08	6.59E-05	ENSG000002142	FAM188B2
ENSG000001968	8.107355856	2.492299252	39.15067831	1.12E-06	0.000585071774	ENSG000001968	CHRNA3
ENSG000002413	7.926591858	-3.363117166	93.25560529	3.27E-10	2.26E-06	ENSG000002413	RP11-342M3.1
ENSG000001782	7.714917395	-2.10855134	34.15983659	3.30E-06	0.00120211594	ENSG000001782	SPAG11A
ENSG000001825	7.664616305	-1.479094932	41.48352524	6.97E-07	0.000439560487	ENSG000001825	CAV3
ENSG000002278	7.635274407	-0.7913770671	43.29965891	4.87E-07	0.000354664974	ENSG000002278	LINC00948
ENSG000002511	7.577904903	-1.119356147	35.93802701	2.22E-06	0.000903524129	ENSG000002511	RP11-734I18.1
ENSG000002619	7.576390956	0.9600725823	44.57293924	3.81E-07	0.000309346798	ENSG000002619	RP11-388M20.9
ENSG000001967	7.535153118	-0.2439443747	30.89843934	7.03E-06	0.002137204732	ENSG000001967	POU3F4
ENSG000002335	7.400562996	-4.731784885	37.98112559	0.000305818745	0.02897702255	ENSG000002335	AC005162.5
ENSG000001444	7.351226141	0.7945605618	43.31784919	4.85E-07	0.000354664974	ENSG000001444	NYAP2
ENSG000002172	7.241383986	-4.844771166	36.96997448	0.000334122418	0.03077347545	ENSG000002172	RP1-319M7.2
ENSG000001888	7.116800583	4.366538889	34.57219477	3.01E-06	0.001155571861	ENSG000001888	SHISA6
ENSG000001750	7.092319203	-1.359059501	29.31304381	1.03E-05	0.00287193442	ENSG000001750	DSG4
ENSG000001487	7.083050405	-0.357943044	38.37142396	1.32E-06	0.000657227585	ENSG000001487	VAX1
ENSG000001513	7.066014967	-0.4353474005	28.41144105	1.29E-05	0.003305397999	ENSG000001513	MSGN1
ENSG000001744	7.061477941	-4.948770169	52.43569992	0.000103443928	0.01424459958	ENSG000001744	AC005017.2

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ENSG000002546	7.012555472	3.787578126	34.2390251	3.24E-06	0.00120211594	ENSG000002546	RP11-678P16.1
ENSG000002545	6.95443405	-2.330861786	36.08055617	2.15E-06	0.000884330920	ENSG000002545	RP11-698N11.2
ENSG000001867	6.929259492	-4.691689787	54.90473481	6.03E-08	7.96E-05	ENSG000001867	U66059.29
ENSG000001876	6.830115204	0.6947921033	32.85945684	4.44E-06	0.00152476713	ENSG000001876	TMEM8C
ENSG000002547	6.694403264	-5.178117359	31.53925544	0.000558372345	0.04177909895	ENSG000002547	RP11-958J22.1
ENSG000001802	6.631694675	4.776987923	36.3611774	2.03E-06	0.000856887544	ENSG000001802	MYLPF
ENSG000002595	6.630292548	-4.662032098	80.09488968	1.57E-09	6.04E-06	ENSG000002595	RP11-467N20.1
ENSG000001153	6.55870384	0.9432500123	29.97335991	8.78E-06	0.002559828202	ENSG000001153	ACADL
ENSG000001470	6.548667224	-4.930012324	63.41181809	1.57E-08	2.88E-05	ENSG000001470	AKAP4
ENSG000001633	6.489993466	-0.6296385696	34.02827978	3.40E-06	0.001227744976	ENSG000001633	CCKAR
ENSG000002608	6.48900345	1.299254859	52.23976804	9.46E-08	0.000114315072	ENSG000002608	LINC00890
ENSG000001027	6.477745656	-0.4304631927	23.76529969	4.36E-05	0.007835973699	ENSG000001027	GPR50
ENSG000001753	6.474279694	-3.809621187	36.78125193	1.85E-06	0.000806620322	ENSG000001753	PROP1
ENSG000002394	6.469803661	4.172559256	85.35387703	8.21E-10	4.12E-06	ENSG000002394	KLHL41
ENSG000001736	6.430573664	3.028783629	32.89611422	4.40E-06	0.00152476713	ENSG000001736	TRAPPC3L
ENSG000001885	6.422180457	3.210363436	50.712791	1.23E-07	0.000137338350	ENSG000001885	COL25A1
ENSG000000097	6.408229598	1.567387001	41.27615125	7.26E-07	0.000451493787	ENSG000000097	PAX7
ENSG000002543	6.403824335	-4.35801619	41.83162403	6.50E-07	0.000429252582	ENSG000002543	LINC01111
ENSG000001647	6.392618494	0.8035751886	15.9011421	0.000463180951	0.03764236342	ENSG000001647	ASB5
ENSG000001384	6.371746879	5.247977238	45.86076175	2.98E-07	0.000262525007	ENSG000001384	CHRNA1
ENSG000002047	6.353830486	0.03924588419	24.91696391	3.19E-05	0.006325712815	ENSG000002047	FAM196B
ENSG000002542	6.338090428	-4.798034505	37.23950936	1.68E-06	0.000750297984	ENSG000002542	RP11-120I21.2
ENSG000002657	6.309918023	-2.690514709	28.89014137	1.15E-05	0.003071682359	ENSG000002657	MIR133A1
ENSG000001882	6.30916987	-2.869368057	27.17150039	1.77E-05	0.004169907687	ENSG000001882	FAM230A
ENSG000002617	6.307764699	-3.622785886	39.49483892	1.04E-06	0.000573128965	ENSG000002617	RNF126P1
ENSG000001860	6.235590149	-4.840803994	56.99692087	4.27E-08	6.23E-05	ENSG000001860	KRT18P14
ENSG000002035	6.178426444	-4.776732725	47.22520623	2.31E-07	0.000217242580	ENSG000002035	RP13-259N13.2
ENSG000002586	6.164474116	-3.335019393	28.88017826	1.15E-05	0.003071682359	ENSG000002586	RP11-299L17.3
ENSG000002282	6.120451508	-4.167840958	44.23063269	4.06E-07	0.000324001036	ENSG000002282	AC016717.1
ENSG000001078	6.117508703	4.385787724	114.4194136	3.65E-11	3.86E-07	ENSG000001078	PITX3

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ENSG000002562	6.108466163	-4.969496445	40.22941289	8.98E-07	0.000513705615	ENSG000002562	RP11-495K9.9
ENSG000001848	6.096618085	-5.483776653	33.41667874	0.000463907069	0.03764236342	ENSG000001848	SRY
ENSG000002608	6.084910435	-4.954011548	44.6907818	3.72E-07	0.000308385677	ENSG000002608	RP11-558A11.1
ENSG000001359	6.054767388	3.632085406	25.56015234	2.69E-05	0.005676564759	ENSG000001359	CHRND
ENSG000002590	6.044817566	-4.834543124	51.08445945	1.16E-07	0.000132151109	ENSG000002590	TPRX1P1
ENSG000001014	6.031391665	3.077232452	47.34363113	2.26E-07	0.000217242580	ENSG000001014	TNNC2
ENSG000002422	5.992521951	-5.520575371	33.4908524	0.000460605136	0.03759089215	ENSG000002422	CT45A5
ENSG000001746	5.967975614	-1.73748821	39.49586302	1.04E-06	0.000573128965	ENSG000001746	KY
ENSG000000723	5.957782584	-3.704995447	27.82646866	1.49E-05	0.003652105042	ENSG000000723	TRPC5
ENSG000001334	5.952870928	-0.6520901739	39.87448943	9.65E-07	0.000544166296	ENSG000001334	MYO18B
ENSG000001823	5.906519443	-1.17192681	29.30945789	1.03E-05	0.00287193442	ENSG000001823	ZNF804B
ENSG000002039	5.885311737	-1.186626301	26.3660301	2.17E-05	0.004862163599	ENSG000002039	LINC00632
ENSG000002243	5.859221343	-4.987095531	42.63895899	5.54E-07	0.000394844975	ENSG000002243	AC011239.1
ENSG000002040	5.854014877	-3.145849249	29.88281182	8.98E-06	0.00259885342	ENSG000002040	AL359195.1
ENSG000001411	5.848296306	-0.479494323	39.35128072	1.08E-06	0.000579188702	ENSG000001411	UNC45B
ENSG000002614	5.82474469	-3.888105455	26.80158489	1.94E-05	0.004437159128	ENSG000002614	RP11-268G13.1
ENSG000002138	5.821702408	-5.06730836	40.97342506	7.72E-07	0.000472921195	ENSG000002138	CEACAM16
ENSG000002588	5.820245644	-5.130809262	34.71722301	2.91E-06	0.001139434014	ENSG000002588	RP11-214N1.1
ENSG000002064	5.813766954	-2.995009298	22.12049746	6.90E-05	0.01056519334	ENSG000002064	LRRC30
ENSG000001750	5.790535674	2.919584791	73.31738005	3.82E-09	9.49E-06	ENSG000001750	SPSB4
ENSG000002447	5.76843423	-4.773064885	46.39275828	2.70E-07	0.000242702565	ENSG000002447	RP1-93H18.6
ENSG000002296	5.756517943	-4.874838283	28.70488291	1.20E-05	0.003148512833	ENSG000002296	AC018742.1
ENSG000002347	5.753558856	-4.973208727	40.80922176	7.98E-07	0.000481895298	ENSG000002347	AC114877.3
ENSG000001784	5.73000233	0.361563891	18.54413954	0.000199097477	0.02180530014	ENSG000001784	UCN3
ENSG000001644	5.701166413	1.150242702	16.96099781	0.000327905982	0.03046642948	ENSG000001644	FAM26D
ENSG000002152	5.684897881	-3.177230945	29.58400362	9.65E-06	0.00273903091	ENSG000002152	TMCO5B
ENSG000001967	5.680225753	-5.236098098	30.7601246	7.26E-06	0.002193258153	ENSG000001967	OR8A1
ENSG000002353	5.679223165	-2.886096574	32.04299111	5.36E-06	0.001770991686	ENSG000002353	AC016723.4
ENSG000002679	5.658772882	-3.465635797	22.44045912	6.30E-05	0.0100117807	ENSG000002679	RP11-87G24.3
ENSG000002053	5.637188844	-2.673890675	25.01193816	3.11E-05	0.006225333577	ENSG000002053	AC022596.2

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ENSG000001398	5.613828633	3.994088938	25.29230869	2.88E-05	0.005916989451	ENSG000001398	SSTR1
ENSG000002424	5.595781778	-5.483043505	52.77454173	8.63E-08	0.000107353473	ENSG000002424	KIR2DP1
ENSG000002647	5.565567243	-0.1298587398	19.32510447	0.000156758692	0.01872026471	ENSG000002647	RP11-680C21.1
ENSG000002327	5.545663692	-4.762813148	35.33466314	2.54E-06	0.001021829876	ENSG000002327	AC067961.1
ENSG000002537	5.502553948	-3.43884108	19.09599396	0.000168070658	0.01966994923	ENSG000002537	LINC00967
ENSG000001988	5.488332709	1.345643804	26.95004241	1.87E-05	0.004365039727	ENSG000001988	RYSR3
ENSG000002654	5.483340334	-5.536116126	62.38982256	1.83E-08	3.22E-05	ENSG000002654	RP11-793A3.1
ENSG000001299	5.481479297	2.53371317	139.5184231	4.02E-12	7.10E-08	ENSG000001299	CDH15
ENSG000001767	5.451459165	6.62239889	38.25282662	1.35E-06	0.000657227585	ENSG000001767	TRIL
ENSG000002556	5.451309003	6.623806727	38.26001035	1.35E-06	0.000657227585	ENSG000002556	AC005013.1
ENSG000002656	5.433308217	-5.122656829	23.89190707	4.21E-05	0.007633592576	ENSG000002656	RP11-465I4.2
ENSG000002482	5.431558691	-5.761446632	29.52197878	0.000688566331	0.04687462428	ENSG000002482	RP11-24I21.1
ENSG000002347	5.424792317	-5.361592682	37.15813472	1.71E-06	0.000751582274	ENSG000002347	HDAC1P1
ENSG000001592	5.396449053	4.353169089	18.03586455	0.000233188763	0.02428092356	ENSG000001592	ACTC1
ENSG000002579	5.387424765	-5.774973842	29.17943975	0.000714338872	0.04763198082	ENSG000002579	RP11-541G9.2
ENSG000002612	5.368992394	-4.101514901	31.03635015	6.80E-06	0.002098270012	ENSG000002612	CLEC19A
ENSG000002344	5.364703742	-5.408308977	31.34348639	6.32E-06	0.001979593391	ENSG000002344	RP11-501J20.2
ENSG000002412	5.341917968	-5.403275375	36.2064699	2.10E-06	0.000868827473	ENSG000002412	RP11-446H18.1
ENSG000001194	5.335559444	1.654116384	36.49764825	1.97E-06	0.000848869508	ENSG000001194	BSPRY
ENSG000002158	5.322846113	-5.790117472	31.30924016	0.000571552947	0.04247461271	ENSG000002158	QRSL1P1
ENSG000002163	5.309787441	-2.500764283	15.68954967	0.00049681913	0.0386796109	ENSG000002163	RPL37P15
ENSG000002336	5.30385988	-0.9558589728	21.24708413	8.86E-05	0.01274697216	ENSG000002336	PIRT
ENSG000002536	5.296455699	-5.073708848	30.40179042	7.92E-06	0.002373353855	ENSG000002536	RP11-317N12.1
ENSG000001988	5.2585155	-4.823882603	21.76728308	7.63E-05	0.01127800919	ENSG000001988	LRR10
ENSG000000082	5.240254566	3.729887434	39.31998521	1.08E-06	0.000579188702	ENSG000000082	ADAM22
ENSG000001884	5.235809794	-3.213183652	29.0657442	1.10E-05	0.002971473646	ENSG000001884	AC003003.5
ENSG000002292	5.23111652	-5.827863753	34.8579757	0.000404719241	0.03468290117	ENSG000002292	RP11-397O4.1
ENSG000001964	5.220123897	-2.133727599	18.17716396	0.000223120476	0.02364014575	ENSG000001964	FGF16
ENSG000002287	5.219247457	-5.46286269	37.90871495	1.45E-06	0.000683209633	ENSG000002287	AC097713.3
ENSG000002149	5.211825232	-2.534450549	21.18678789	9.02E-05	0.01277260905	ENSG000002149	AKAP17BP

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ENSG000001843	-5.206489898	-3.348907022	14.5310789	0.000734518901	0.04864168098	ENSG000001843	GDF3
ENSG000001807	5.20222547	-1.794611214	17.47346143	0.000278400314	0.02730713061	ENSG000001807	AGTR2
ENSG000002336	5.201720123	-5.836302558	29.35348901	0.000701094485	0.04719549261	ENSG000002336	OR52T1P
ENSG000002629	5.199236973	-4.160411128	24.26730546	3.80E-05	0.007104137926	ENSG000002629	RP11-708H21.4
ENSG000001650	5.184212089	-0.7618476328	40.22138993	8.99E-07	0.000513705615	ENSG000001650	CPA6
ENSG000002235	5.174139626	-5.839181756	29.93518724	0.000659014241	0.04597331199	ENSG000002235	AC011718.2
ENSG000001347	5.169957148	3.227607878	41.53016723	6.90E-07	0.000439560487	ENSG000001347	HOOKE1
ENSG000000962	5.15996274	-3.603459715	16.1124823	0.000432024714	0.0359524504	ENSG000000962	NCR2
ENSG000001426	5.143244936	-1.081313613	20.2319605	0.000119412654	0.01542089862	ENSG000001426	C1orf94
ENSG000001640	5.128764178	-2.025763408	17.3646302	0.000288196019	0.02768974253	ENSG000001640	ETNPPL
ENSG000002044	5.110841636	-0.7809183367	22.16426106	6.81E-05	0.0104724741	ENSG000002044	DGKK
ENSG000002488	5.108608767	-4.706218554	26.8266192	1.93E-05	0.004437159128	ENSG000002488	KRTAP9-12P
ENSG000002370	5.105972669	-4.57128829	22.64741356	5.94E-05	0.009629495674	ENSG000002370	NANOGP4
ENSG000002268	5.102645975	-5.193243966	21.96180689	7.22E-05	0.01092584525	ENSG000002268	SLC6A6P1
ENSG000001259	5.101971487	2.404702813	44.13521463	4.14E-07	0.000324001036	ENSG000001259	GDF5
ENSG000002247	5.096370452	-4.296937484	25.1598795	2.99E-05	0.006070458383	ENSG000002247	RP11-433C9.2
ENSG000001886	5.095150092	2.30615658	21.11237939	9.22E-05	0.01294745784	ENSG000001886	IDO2
ENSG000001987	5.088653809	-1.978424397	20.69036266	0.000104292693	0.01431484934	ENSG000001987	MUC2
ENSG000001490	5.084985752	-0.3742594201	18.13290646	0.000226222648	0.02390890617	ENSG000001490	SYT8
ENSG000002044	5.083630215	-3.362421391	19.11832892	0.000166930110	0.01966994923	ENSG000002044	CSHL1
ENSG000001726	5.073519426	-5.873524888	29.86306696	0.000664055466	0.04602122107	ENSG000001726	MOS
ENSG000002374	5.063212328	-5.526176263	31.5737847	5.99E-06	0.001888736433	ENSG000002374	RP11-183M13.1
ENSG000002537	5.042051409	-3.807654409	15.85456467	0.000470368725	0.03766742475	ENSG000002537	OC90
ENSG000002429	5.036782992	-5.616701091	44.01173342	4.24E-07	0.000325771859	ENSG000002429	RP11-1110J8.1
ENSG000002584	5.035698365	-3.812340932	15.8166101	0.000476314910	0.03766742475	ENSG000002584	RP11-240B13.2
ENSG000002252	5.034195285	-3.01074577	17.43161002	0.000282124097	0.02743989368	ENSG000002252	AC007250.4
ENSG000001694	5.030317307	-0.5815801324	38.30115434	1.34E-06	0.000657227585	ENSG000001694	KCNK9
ENSG000002205	5.02340863	-5.40094467	25.10276206	3.03E-05	0.00613419551	ENSG000002205	DDX18P6
ENSG000002126	5.022478454	-2.137007219	14.78924445	0.000672507159	0.04615298731	ENSG000002126	KRTAP9-6
ENSG000001427	5.00551875	-3.897028531	16.73697732	0.000352462881	0.03177050817	ENSG000001427	CELA3A

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ENSG000001682	4.999437098	-3.561732041	19.70579997	0.000139737451	0.0173237559	ENSG000001682	FOXI1
ENSG000002256	4.982283815	-5.543961379	39.21369294	1.11E-06	0.000584688615	ENSG000002256	RPL14P5
ENSG000002547	4.964698447	-5.731062904	64.61291267	1.31E-08	2.52E-05	ENSG000002547	RP11-334E6.3
ENSG000002537	4.956216237	-5.546521005	31.85932522	5.60E-06	0.001828906396	ENSG000002537	RP11-863K10.2
ENSG000002548	4.955741872	-5.638076371	45.0467244	3.48E-07	0.000299926369	ENSG000002548	RP11-142C4.4
ENSG000002272	4.939326404	-5.774168271	38.19266809	1.37E-06	0.000658047892	ENSG000002272	RP11-136C24.2
ENSG000002270	4.922843839	-5.664020719	34.72337687	2.91E-06	0.001139434014	ENSG000002270	CTD-2021A8.3
ENSG000001052	4.915575786	3.413124976	19.68102574	0.000140782191	0.01740224309	ENSG000001052	SHD
ENSG000000706	4.866689468	1.323842388	32.18477656	5.19E-06	0.001740036334	ENSG000000706	FRMPD1
ENSG000002527	4.847675497	-5.305887849	19.87896127	0.000132664491	0.01669164104	ENSG000002527	RN7SKP60
ENSG000001677	4.845464626	1.570816441	15.01935185	0.000621988006	0.04386117512	ENSG000001677	KLK11
ENSG000002226	4.836712516	-5.56829822	29.53676599	9.77E-06	0.002752398591	ENSG000002226	RNU2-52P
ENSG000001809	4.836259696	1.911720496	29.81593927	9.12E-06	0.002623523106	ENSG000001809	C1orf105
ENSG000001822	4.834005774	-2.126912277	22.91941105	5.51E-05	0.009311017974	ENSG000001822	KCNA4
ENSG000002582	4.819082866	-4.341990918	16.00207432	0.000448008907	0.03684742523	ENSG000002582	PRSS58
ENSG000002358	4.790038724	-4.520115909	28.27178467	1.34E-05	0.003382027328	ENSG000002358	ARHGEF7-AS2
ENSG000001857	4.780580412	-5.639742483	33.30464051	4.01E-06	0.001411036614	ENSG000001857	MYADML2
ENSG000002287	4.763100396	-4.957090321	28.27653689	1.33E-05	0.003382027328	ENSG000002287	AC003991.3
ENSG000002542	4.744422495	-3.71393077	22.81449836	5.67E-05	0.009437478619	ENSG000002542	RP11-150O12.3
ENSG000001048	4.73299584	2.288710224	21.88161492	7.38E-05	0.01106636062	ENSG000001048	CKM
ENSG000000787	4.725228265	2.731213461	22.26450592	6.62E-05	0.01036712188	ENSG000000787	BRINP1
ENSG000002337	4.724672271	-3.40340863	17.65106817	0.000263177384	0.02629030225	ENSG000002337	MYCNOS
ENSG000001877	4.705681998	-0.7488617749	20.48046715	0.000110942737	0.01496016561	ENSG000001877	FOXD3
ENSG000001710	4.69502079	3.569090406	31.83944486	5.62E-06	0.001828906396	ENSG000001710	PKIA
ENSG000002337	4.691819356	-5.000837002	17.37168507	0.000287549878	0.02768974253	ENSG000002337	RP11-301L8.2
ENSG000001708	4.689411666	2.461952306	15.57904454	0.000515427794	0.03961765453	ENSG000001708	CYTL1
ENSG000002607	4.667939062	-3.05702237	16.39600744	0.000393730446	0.0341785516	ENSG000002607	RP11-483E23.4
ENSG000002607	4.649375734	-5.577070149	25.06573921	3.06E-05	0.006165654207	ENSG000002607	RP11-439I14.1
ENSG000002239	4.64819759	-1.833310463	26.76514823	1.96E-05	0.00445500208	ENSG000002239	AC002456.2
ENSG000002264	4.640202405	-5.078866153	28.04396581	1.41E-05	0.00347716373	ENSG000002264	RP11-776H12.1

label	logFC	logCPM	F	PValue	FDR	ensembl_id	gene_symbol
ENSG000002511	4.635169563	-5.354982248	22.62648255	5.98E-05	0.009645288021	ENSG000002511	RP11-454E7.1
ENSG000002040	4.635015511	-5.842463201	44.76621867	3.67E-07	0.000308385677	ENSG000002040	AL391421.1
ENSG000002345	4.629184257	-5.758279662	31.66674696	5.86E-06	0.001873953323	ENSG000002345	RP11-41L14.1
ENSG000001707	4.627257763	2.598606944	75.16334278	2.98E-09	8.40E-06	ENSG000001707	KCNS3
ENSG000002325	4.619853545	-4.594890075	25.66059383	2.62E-05	0.005604521081	ENSG000002325	RP11-74C1.4
ENSG000001316	4.61945384	-4.50033503	21.84287237	7.47E-05	0.01111412591	ENSG000001316	CA6
ENSG000002077	4.615673287	-5.844774507	32.86372089	4.43E-06	0.00152476713	ENSG000002077	MIR133A1
ENSG000001343	4.612752231	2.385208429	19.44693285	0.000151080327	0.01824834525	ENSG000001343	MYCN
ENSG000002677	4.607096042	-3.373317185	18.57721661	0.000197073482	0.02180530014	ENSG000002677	AC024592.9
ENSG000001836	4.600682437	-5.236621914	23.13411369	5.19E-05	0.008985441711	ENSG000001836	GOLGA8G
ENSG000000160	4.598945818	-0.2178081212	18.54432741	0.000199085918	0.02180530014	ENSG000000160	ISL1
ENSG000002504	4.598188045	-4.333218122	16.30744113	0.000405283339	0.03468290117	ENSG000002504	AACSP1
ENSG000001837	4.593998928	5.033194516	37.38902731	1.62E-06	0.000746458426	ENSG000001837	EMILIN3
ENSG000002604	4.590286255	-1.862710661	16.9420908	0.000329905448	0.03058498429	ENSG000002604	RP11-438B23.2
ENSG000002515	4.579706577	-5.638361348	37.21498979	1.69E-06	0.000750297984	ENSG000002515	RP11-46A10.6
ENSG000001968	4.568146614	-5.621342707	19.02099126	0.000171962629	0.01990857174	ENSG000001968	AC090286.4
ENSG000001662	4.554354539	1.980156899	38.91509485	1.18E-06	0.000599651998	ENSG000001662	SCN3B
ENSG000001297	4.54845701	-0.8830989821	17.94875959	0.000239638883	0.02483022994	ENSG000001297	MYOD1
ENSG000002188	4.533206255	-5.749511815	29.17049235	1.07E-05	0.002933273811	ENSG000002188	RP1-229K20.5
ENSG000001200	4.528933828	4.726454437	17.90313146	0.000243094248	0.02500440228	ENSG000001200	SFRP5
ENSG000002062	4.525565823	-5.816328497	29.63573677	9.53E-06	0.002722886225	ENSG000002062	CTD-2308N23.2
ENSG000001516	4.522585603	2.53947115	36.36643383	2.02E-06	0.000856887544	ENSG000001516	NR3C2
ENSG000002617	4.52183761	2.79246708	29.98040702	8.77E-06	0.002559828202	ENSG000002617	RP11-13L2.4
ENSG000002644	4.512379209	-5.91267257	42.34449453	5.87E-07	0.000398689973	ENSG000002644	RP11-349A8.3
ENSG000001636	4.508317121	-1.441264354	17.22362925	0.000301444128	0.02883156228	ENSG000001636	SYNPR
ENSG000002589	4.507567445	-5.652266262	22.89112826	5.55E-05	0.009338188351	ENSG000002589	RP11-97N10.1
ENSG000001880	4.50450994	-4.340034017	19.4331941	0.000151709444	0.01827212751	ENSG000001880	SCGB1C1
ENSG000002543	4.503797963	-5.292870844	17.01780312	0.000321976945	0.0300476277	ENSG000002543	RP11-238K6.2
ENSG000001017	4.495363824	-1.46767315	21.34535713	8.62E-05	0.01243138507	ENSG000001017	NOL4
ENSG000002556	4.481672305	-3.243103489	21.62907625	7.94E-05	0.01165313279	ENSG000002556	RP11-766N7.3

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ENSG000002395	4.474501154	-5.904193903	27.77497111	1.51E-05	0.0036787349	ENSG000002395	RPS17P15
ENSG000001985	4.474062344	-1.103962016	20.60038327	0.000107089313	0.01465113504	ENSG000001985	DCAF12L2
ENSG000002590	4.469226492	-4.539645716	15.73936749	0.000488668424	0.03825640301	ENSG000002590	CTD-2058B24.2
ENSG000001515	4.464175862	-3.268331536	18.75472387	0.000186584171	0.02097831338	ENSG000001515	TMEM132D
ENSG000001670	4.462208068	-3.669579655	15.22121869	0.000581036980	0.04247476284	ENSG000001670	B4GALNT2
ENSG000002516	4.449662138	-5.739816136	29.10199176	1.09E-05	0.002964002452	ENSG000002516	RP11-213G21.2
ENSG000002326	4.447789236	-5.902385823	26.90092706	1.89E-05	0.004396278489	ENSG000002326	RP11-561I11.3
ENSG000001088	4.444626011	1.765991661	28.10796248	1.39E-05	0.003461865772	ENSG000001088	SGCA
ENSG000002227	4.444504425	-5.926547627	28.58326818	1.24E-05	0.003205469381	ENSG000002227	NA
ENSG000002344	4.443897306	-5.664174124	28.22870006	1.35E-05	0.00339842295	ENSG000002344	AC019118.2
ENSG000002665	4.430829438	-1.662014887	18.19541829	0.000221854358	0.02359846342	ENSG000002665	RP11-693J15.4
ENSG000002427	4.426808008	-5.577914337	21.07642345	9.32E-05	0.01304036163	ENSG000002427	RP11-556G22.1
ENSG000002288	4.424103579	-4.64876811	18.11622985	0.000227403616	0.02397378524	ENSG000002288	AC090954.5
ENSG000002542	4.406723434	-5.751733795	22.75133614	5.77E-05	0.009539992998	ENSG000002542	RP11-662G23.1
ENSG000002547	4.403546746	-5.785170496	25.94647316	2.43E-05	0.005258673062	ENSG000002547	RP11-35J10.4
ENSG000002523	4.401802023	-5.516980873	17.17267435	0.000306392172	0.02897702255	ENSG000002523	RNU2-34P
ENSG000002534	4.40105264	-5.943966006	33.40654176	3.91E-06	0.001390145924	ENSG000002534	CTB-79E8.2
ENSG000002562	4.393421436	-5.790960007	20.26373101	0.000118291966	0.01542089862	ENSG000002562	RP11-1038A11.2
ENSG000002587	4.39288404	-5.948423963	37.95033601	1.44E-06	0.000683209633	ENSG000002587	RP11-84C10.3
ENSG000001003	4.385840613	4.40085789	41.75328794	6.60E-07	0.000429301127	ENSG000001003	RASD2
ENSG000001995	4.384016266	-5.398454281	25.7660006	2.54E-05	0.005486081623	ENSG000001995	RNU6-247P
ENSG000002136	4.3787881	-5.480309259	20.47513577	0.0001111174927	0.01496016561	ENSG000002136	RSU1P3
ENSG000002486	4.369895784	-5.481733478	16.77104995	0.000348603250	0.0315040971	ENSG000002486	RP11-255I10.2
ENSG000001330	4.36670179	2.137229701	21.99993987	7.14E-05	0.01085567707	ENSG000001330	CHRM3
ENSG000002405	4.364514655	-5.820312057	22.92773966	5.49E-05	0.009311017974	ENSG000002405	RP11-515C16.1
ENSG000002275	4.362066519	-5.640595273	22.32194262	6.51E-05	0.01027584629	ENSG000002275	RP5-837I24.6
ENSG000002498	4.354139699	0.7331590488	14.68970482	0.000695719436	0.04701559037	ENSG000002498	HS3ST5
ENSG000001355	4.352426118	3.063440881	19.85706016	0.000133537348	0.01675160658	ENSG000001355	MRAP2
ENSG000002595	4.344192505	-5.560244153	22.52142442	6.16E-05	0.009823711444	ENSG000002595	RP11-349G13.2
ENSG000001655	4.337657733	2.620369041	14.66760098	0.000700990562	0.04719549261	ENSG000001655	PDZRN4

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ENSG000001395	4.33446188	0.2370706259	69.39872597	6.56E-09	1.39E-05	ENSG000001395	FITM1
ENSG000002262	4.332786545	-5.64516864	19.60779547	0.000143919890	0.0174833718	ENSG000002262	ARHGAP26-AS1
ENSG000001383	4.31637322	3.523007531	17.61357774	0.000266314321	0.02649044218	ENSG000001383	MSTN
ENSG000002516	4.314986872	-4.718726092	15.63954396	0.000505148430	0.03911199614	ENSG000002516	RP11-79P5.7
ENSG000002050	4.31063679	-0.9217200303	21.22043245	8.93E-05	0.01275913935	ENSG000002050	RP11-693J15.5
ENSG000001486	4.306330996	-2.28934282	17.48781959	0.000277135026	0.02724624006	ENSG000001486	RGR
ENSG000000089	4.297412747	2.628061545	20.82134634	0.000100361413	0.01391074995	ENSG000000089	RPH3A
ENSG000001744	4.297376133	-1.161299209	21.87024974	7.41E-05	0.01106636062	ENSG000001744	LINGO2
ENSG000002597	4.293556505	-5.44240361	22.6580789	5.92E-05	0.009629495674	ENSG000002597	RP11-219E7.3
ENSG000002240	4.288943954	-5.139741383	17.72257065	0.000257304531	0.02601228593	ENSG000002240	RP11-445P17.8
ENSG000001558	4.285322949	-5.948055942	28.47313597	1.27E-05	0.003274675165	ENSG000001558	CYLC2
ENSG000002553	4.280739762	-5.8322192	24.80746368	3.28E-05	0.006423849473	ENSG000002553	CTD-2140G10.1
ENSG000001879	4.2796167	-4.457756139	16.6965846	0.000357098285	0.03191613113	ENSG000001879	OVCH1
ENSG000002053	4.276450368	-5.846731244	19.80069567	0.000135812327	0.01693647826	ENSG000002053	SLCO6A1
ENSG000002673	4.274884226	-5.792289307	28.8148344	1.17E-05	0.003084046636	ENSG000002673	RP11-686D22.6
ENSG000001983	4.272366259	2.209875069	14.64068136	0.000707468473	0.04732314826	ENSG000001983	MYL4
ENSG000001033	4.269284588	-2.323193751	15.20401802	0.000584410190	0.04247476284	ENSG000001033	SLC6A2
ENSG000002348	4.267462117	-5.861682796	26.25565146	2.24E-05	0.004951617355	ENSG000002348	AC092687.5
ENSG000002547	4.261500443	-5.689355308	19.6102386	0.000143814002	0.0174833718	ENSG000002547	CTD-2140G10.2
ENSG000002594	4.260125697	-3.973827499	18.36483025	0.000210466927	0.02269767689	ENSG000002594	RP11-489D6.2
ENSG000001442	4.258458747	1.346219086	19.37089103	0.000154598057	0.0185145407	ENSG000001442	THSD7B
ENSG000001776	4.253534857	1.732889249	80.73488631	1.45E-09	6.04E-06	ENSG000001776	PGBD5
ENSG000001090	4.246023893	2.660162841	47.42234404	2.23E-07	0.000217242580	ENSG000001090	MYH3
ENSG000001852	4.244351381	5.296121545	23.11575736	5.21E-05	0.008994604155	ENSG000001852	CD24P4
ENSG000002507	4.244180778	-5.670330326	17.65673416	0.000262706772	0.02629030225	ENSG000002507	RP11-313L6.1
ENSG000001864	4.242505672	-5.503510165	16.92581826	0.000331636850	0.03067822284	ENSG000001864	KLK12
ENSG000002502	4.239848592	-5.838401455	24.58466972	3.49E-05	0.006667428023	ENSG000002502	Z95704.3
ENSG000001122	4.223508881	2.999227955	37.23780811	1.68E-06	0.000750297984	ENSG000001122	BVES
ENSG000002253	4.221103367	-5.945845071	28.04591793	1.41E-05	0.00347716373	ENSG000002253	AC099754.1
ENSG000002583	4.217229462	-4.446604696	17.70872323	0.000258430753	0.02601228593	ENSG000002583	RP11-536G4.2

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ENSG000001078	4.212885988	3.209849077	17.7856959	0.000252237175	0.0255715266	ENSG000001078	FGF8
ENSG000002133	4.202432756	-5.665591201	17.60604327	0.000266949608	0.02649130211	ENSG000002133	RP11-281O15.2
ENSG000002496	4.191028269	-5.971274449	32.70317803	4.60E-06	0.001555476125	ENSG000002496	CTC-441N14.1
ENSG000002468	4.171949402	-5.865043313	19.08892494	0.000168433391	0.01966994923	ENSG000002468	RP11-519M16.1
ENSG000002603	4.167464931	-1.988975889	17.42186062	0.000282999258	0.02743989368	ENSG000002603	RP11-594N15.3
ENSG000002669	4.164164352	-5.55759249	16.36308213	0.000397983276	0.03440642739	ENSG000002669	RP11-799D4.2
ENSG000002424	4.156864372	-5.752333001	24.22929105	3.84E-05	0.007132312288	ENSG000002424	RP11-320N7.1
ENSG000002598	4.154809026	-5.665253594	27.7181948	1.54E-05	0.003710689666	ENSG000002598	RP11-467L24.1
ENSG000002515	4.150957327	3.38929983	77.88968802	2.08E-09	7.30E-06	ENSG000002515	RP11-724O16.1
ENSG000001562	4.150828486	-2.047622443	15.59093974	0.000513388993	0.03953282278	ENSG000001562	ART3
ENSG000000413	4.141322983	1.617940053	19.98545236	0.000128507125	0.01631423045	ENSG000000413	RAB27B
ENSG000002497	4.137623867	-5.983058289	24.41147089	3.65E-05	0.006892688249	ENSG000002497	RP11-772C9.1
ENSG000002495	4.127689632	-2.107491557	14.88843226	0.000650207156	0.04543389676	ENSG000002495	CTD-2195M15.1
ENSG000001324	4.127456754	1.64746458	16.89019843	0.000335461136	0.0307777621	ENSG000001324	POPDC3
ENSG000002314	4.124458829	-5.872037394	20.16486707	0.000121817130	0.01565294587	ENSG000002314	AC099344.3
ENSG000001856	4.121079079	-5.36613683	19.01292364	0.000172387020	0.01990857174	ENSG000001856	ACTBP7
ENSG000002127	4.113321767	-5.777836773	18.30649026	0.000214315554	0.02305391872	ENSG000002127	U8
ENSG000002489	4.107645476	3.004815367	92.7141019	3.47E-10	2.26E-06	ENSG000002489	FMN1
ENSG000001110	4.105868277	2.821236547	25.646513	2.62E-05	0.005604521081	ENSG000001110	ACSS3
ENSG000001875	4.105670238	-5.298117466	19.06653695	0.000169587767	0.01969594191	ENSG000001875	FOXD4L3
ENSG000002289	4.105538989	-5.644227331	17.79297234	0.000251660019	0.0255715266	ENSG000002289	UBE3AP2
ENSG000002337	4.088145592	-5.749788155	18.00744705	0.000235272250	0.0244376766	ENSG000002337	RP4-799D16.1
ENSG000002327	4.042159376	-5.932355262	25.3728904	2.82E-05	0.005819884264	ENSG000002327	RP11-13J8.1
ENSG000002502	4.039277246	-5.776463882	18.47675339	0.000203290563	0.02212474697	ENSG000002502	CTB-49A3.4
ENSG000002259	4.025945696	-5.307335874	14.64664408	0.000706028052	0.04730164173	ENSG000002259	HMGB1P26
ENSG000002248	4.025350714	-5.888075001	19.28582788	0.000158638081	0.01889133777	ENSG000002248	LINC00502
ENSG000002280	4.024913897	-6.004996013	28.66054146	1.21E-05	0.00316378238	ENSG000002280	Z83001.1
ENSG000002602	4.024063438	-5.618382463	15.42530115	0.000542580748	0.04110681207	ENSG000002602	CTD-2026K11.2
ENSG000002627	4.006383685	-0.8397930975	72.37995742	4.34E-09	1.02E-05	ENSG000002627	RP11-462G12.1
ENSG000002355	4.004570779	-6.12933361	34.40918206	0.000422073709	0.03554415551	ENSG000002355	AC011247.3

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ENSG000001693	3.997852092	-5.841602954	19.61782014	0.000143485944	0.0174833718	ENSG000001693	GP2
ENSG000002032	3.996407153	-5.789596363	16.71175716	0.000355349435	0.0319111668	ENSG000002032	RP11-47J17.2
ENSG000002224	3.995132678	-6.041278187	34.17539845	3.29E-06	0.00120211594	ENSG000002224	NA
ENSG000002589	3.994978131	-5.959961696	22.52259063	6.16E-05	0.009823711444	ENSG000002589	RP11-219E7.4
ENSG000001013	3.991537205	0.3331916628	56.23981269	4.83E-08	6.59E-05	ENSG000001013	MYLK2
ENSG000002314	3.988178606	-3.266152844	18.64691042	0.000192881171	0.02156281014	ENSG000002314	LINC00689
ENSG000001267	3.982981718	-5.759415193	22.17652435	6.79E-05	0.0104724741	ENSG000001267	SSX1
ENSG000001457	3.981639286	4.332822649	15.94389032	0.000456688402	0.03735674971	ENSG000001457	MEGF10
ENSG000002387	3.978371386	-6.021009224	25.62193769	2.64E-05	0.005612669113	ENSG000002387	RP11-160C18.4
ENSG000002330	3.969521959	-5.930325216	20.58562711	0.000107555610	0.01466746269	ENSG000002330	AL023583.1
ENSG000002397	3.956754932	-5.874377724	20.22780243	0.000119560173	0.01542089862	ENSG000002397	CEACAMP3
ENSG000002496	3.941234452	-6.009218936	23.38867324	4.83E-05	0.008547727214	ENSG000002496	RP11-197O8.1
ENSG000002587	3.929557549	-5.914098683	21.51921963	8.19E-05	0.01194472498	ENSG000002587	RP11-356K23.1
ENSG000002515	3.921899017	-6.010872289	23.65809524	4.49E-05	0.008018685898	ENSG000002515	CTD-2089N3.2
ENSG000002540	3.919038087	-5.940707678	18.77134675	0.000185633178	0.02092704699	ENSG000002540	RP11-566H8.2
ENSG000002506	3.881753161	-6.018442437	22.97118699	5.43E-05	0.009251296528	ENSG000002506	RP11-136I13.1
ENSG000001250	3.881736563	-3.500807849	16.54017453	0.000375678222	0.03288156702	ENSG000001250	WNT1
ENSG000001664	3.870576086	-0.8852091067	15.21313253	0.000582620124	0.04247476284	ENSG000001664	PKD1L2
ENSG000002336	3.858326423	-5.928721054	19.0892279	0.000168417828	0.01966994923	ENSG000002336	ARHGEF7-IT1
ENSG000002503	3.852892374	-5.906058257	16.70409482	0.000356231469	0.0319111668	ENSG000002503	CTD-2089N3.1
ENSG000002123	3.850963537	-6.046788324	22.24035665	6.67E-05	0.01039986612	ENSG000002123	RNU6-401P
ENSG000002575	3.84732147	-5.942378905	22.64590261	5.95E-05	0.009629495674	ENSG000002575	RP4-601P9.1
ENSG000002362	3.842605587	-6.054770535	22.83870334	5.63E-05	0.009410753517	ENSG000002362	PEBP1P3
ENSG000002602	3.822055243	-5.931537576	17.64502435	0.000263680382	0.02629030225	ENSG000002602	CTA-481E9.3
ENSG000002130	3.818447345	-5.955838349	18.06850304	0.000230820336	0.02421322509	ENSG000002130	CGB8
ENSG000002619	3.815375698	-3.449648225	16.3199674	0.000403627381	0.03468290117	ENSG000002619	RP11-342L8.2
ENSG000002359	3.813728993	-6.002227899	18.55945306	0.000198157665	0.02180530014	ENSG000002359	AP000431.1
ENSG000001359	3.806224925	4.753041991	74.49708865	3.26E-09	8.60E-06	ENSG000001359	DOCK10
ENSG000002537	3.800099133	-6.080750435	24.11437443	3.96E-05	0.007277193732	ENSG000002537	RP11-509P12.1
ENSG000001409	3.789849277	2.246786254	24.98806373	3.13E-05	0.006235674025	ENSG000001409	ST8SIA2

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ENSG000001437	3.777464127	-2.532625028	14.69351668	0.000694814754	0.04701559037	ENSG000001437	FNDC7
ENSG000002288	3.777176683	-5.872611171	14.65409034	0.000704233700	0.047256317	ENSG000002288	AC073072.6
ENSG000001887	3.765762932	-2.053915957	16.02169665	0.000445122083	0.03674052468	ENSG000001887	HEPACAM2
ENSG000001448	3.764723907	1.820008998	25.45101136	2.76E-05	0.005785848786	ENSG000001448	TMEM108
ENSG000001415	3.755348765	0.2878526122	16.27110077	0.000410129137	0.03496162505	ENSG000001415	ZNF750
ENSG000001582	3.747874438	2.342814024	26.71513826	1.99E-05	0.004488793049	ENSG000001582	CLSTN2
ENSG000001987	3.746868142	1.68967685	15.08282413	0.000608785603	0.04354722736	ENSG000001987	ALPK2
ENSG000002658	3.745867856	-6.090054822	27.53745459	1.61E-05	0.003862832999	ENSG000002658	RN7SL53P
ENSG000002489	3.744789279	-3.239697607	15.84237417	0.000472269775	0.03766742475	ENSG000002489	CTD-2334D19.1
ENSG000002307	3.743059315	-2.049543018	15.11795578	0.000601608545	0.04317996817	ENSG000002307	RP4-792G4.2
ENSG000002557	3.735730535	-5.166614067	15.61489595	0.000509309357	0.03936207145	ENSG000002557	RP11-699F16.2
ENSG000002638	3.732566073	-6.173313637	31.2630334	0.000574247823	0.04247461271	ENSG000002638	MIR4439
ENSG000001327	3.729708409	-0.8636380402	18.8618266	0.000180547676	0.02068469648	ENSG000001327	FCRLA
ENSG000001697	3.724093093	4.236556239	34.5261768	3.04E-06	0.001157019042	ENSG000001697	PARM1
ENSG000002299	3.706804454	-6.084341925	21.64038106	7.91E-05	0.01165313279	ENSG000002299	IQCF3
ENSG000002552	3.706781041	-2.329411024	15.65731082	0.000502171913	0.03895287637	ENSG000002552	RP11-142C4.6
ENSG000002576	3.701697125	-6.015538237	19.53453106	0.000147134642	0.01782268485	ENSG000002576	RP11-185N2.1
ENSG000002033	3.686240369	-5.852945217	17.50685532	0.000275467093	0.0271453878	ENSG000002033	AC018696.2
ENSG000001387	3.684650782	3.69822945	58.2792791	3.48E-08	5.65E-05	ENSG000001387	PLCE1
ENSG000002582	3.68318846	-6.06297643	27.39633629	1.67E-05	0.003981547801	ENSG000002582	RP11-167N24.6
ENSG000002257	3.672978743	0.2706267665	16.80498976	0.000344803980	0.03141506095	ENSG000002257	RP11-75C9.1
ENSG000002628	3.655657293	-2.196927311	51.57098862	1.06E-07	0.000124775450	ENSG000002628	RP11-462G12.2
ENSG000001797	3.649078638	-0.614580916	31.63891209	5.90E-06	0.001873953323	ENSG000001797	LRRRC3B
ENSG000002507	3.647374604	-6.016393174	19.19993703	0.000162833181	0.01931309381	ENSG000002507	RP11-386B13.3
ENSG000001279	3.646425061	4.170025592	30.3124599	8.09E-06	0.002407942734	ENSG000001279	STEAP4
ENSG000002537	3.635113611	-5.336062335	15.94280178	0.000456852503	0.03735674971	ENSG000002537	RP11-6I2.4
ENSG000002363	3.634592654	-6.059750542	18.52370521	0.000200359055	0.02188676762	ENSG000002363	RP11-15K3.1
ENSG000001964	3.633997389	-0.268704702	20.30156368	0.000116972209	0.01542089862	ENSG000001964	NOXO1
ENSG000000772	3.62446365	2.868804572	25.38586177	2.81E-05	0.005819884264	ENSG000000772	CAPN6
ENSG000002190	3.622423384	-5.833871579	14.4232796	0.000762217774	0.04992548439	ENSG000002190	CELA3B

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ENSG000002270	3.619196562	-3.515816798	26.81211075	1.94E-05	0.004437159128	ENSG000002270	RP11-533F5.2
ENSG000002334	3.618708722	-6.110591703	21.88482889	7.38E-05	0.01106636062	ENSG000002334	BTBD18
ENSG000002628	3.614909866	-6.090389101	20.28788632	0.000117447489	0.01542089862	ENSG000002628	RP11-565F19.4
ENSG000001777	3.614475105	2.027396271	33.91956827	3.48E-06	0.001247628682	ENSG000001777	MYOZ1
ENSG000002008	3.608015577	-5.993757387	22.65898918	5.92E-05	0.009629495674	ENSG000002008	NA
ENSG000001416	3.597659342	-0.7544424777	15.17988972	0.000589177673	0.04257689942	ENSG000001416	MAPK4
ENSG000001355	3.595713481	-0.532835713	15.13708837	0.000597738432	0.04304836834	ENSG000001355	HTR1B
ENSG000002514	3.595452734	-5.982855729	15.40250803	0.000546736112	0.04112681345	ENSG000002514	RP11-166D18.1
ENSG000002155	3.589461861	-5.880434426	14.65983161	0.000702853570	0.0472386879	ENSG000002155	SLC25A5P1
ENSG000002536	3.586182537	-5.449108312	16.18722659	0.000421553802	0.03554415551	ENSG000002536	RP11-346I3.2
ENSG000002317	3.585565924	-5.375720751	14.43833085	0.000758283472	0.04985448493	ENSG000002317	AF064860.7
ENSG000002382	3.582902509	-6.034230087	21.36854183	8.56E-05	0.01239054997	ENSG000002382	GABARAPL3
ENSG000002528	3.581526643	-6.010698754	17.9382965	0.000240426532	0.0248509332	ENSG000002528	AC005215.2
ENSG000001857	3.57898575	-0.9671121087	24.03873642	4.04E-05	0.007364842484	ENSG000001857	SRL
ENSG000002534	3.576065878	-5.912029697	17.36493958	0.000288167650	0.02768974253	ENSG000002534	RP11-13N12.1
ENSG000002672	3.575374591	-6.04087114	16.30850667	0.000405142191	0.03468290117	ENSG000002672	RP11-794M8.1
ENSG000002067	3.568676207	-6.053222721	16.91482237	0.000332812367	0.03071974413	ENSG000002067	RNU6-211P
ENSG000001636	3.567346066	-5.968335683	14.79832649	0.000670431307	0.04615298731	ENSG000001636	C3orf49
ENSG000002673	3.562202538	-6.118555164	21.53074261	8.17E-05	0.01194472498	ENSG000002673	RP11-749H17.2
ENSG000001219	3.559421204	2.385029133	16.7924712	0.000346200097	0.03147442821	ENSG000001219	CSMD2
ENSG000001707	3.557533864	4.293841903	136.7551322	5.04E-12	7.10E-08	ENSG000001707	CHRNA1
ENSG000001435	3.556794902	2.729361156	15.59464349	0.000512755961	0.03953282278	ENSG000001435	SUSD4
ENSG000002245	3.553172364	1.503928825	42.50854618	5.68E-07	0.000394844975	ENSG000002245	PRRT4
ENSG000001005	3.538787264	-6.121825516	24.45477771	3.61E-05	0.00684781592	ENSG000001005	C14orf166B
ENSG000002507	3.525037629	-5.987571186	15.37724308	0.000551382314	0.04140264179	ENSG000002507	RP11-143A12.3
ENSG000002524	3.521258126	-6.081061322	20.08807389	0.000124633457	0.01588161623	ENSG000002524	RNU6-719P
ENSG000002134	3.5186594	-6.058490095	19.00449971	0.000172831362	0.01990857174	ENSG000002134	KRTAP2-4
ENSG000001127	3.517453654	-2.356571448	16.07304001	0.000437663084	0.03627883708	ENSG000001127	TREML2
ENSG000001286	3.516382661	-6.036461294	20.52425603	0.000109518559	0.01483941382	ENSG000001286	OPN1SW
ENSG000002257	3.507586554	-6.026746547	16.41532192	0.000391258525	0.03403385632	ENSG000002257	LINC00237

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ENSG000002574	3.507029221	-5.999245745	15.29869563	0.000566101624	0.04228259038	ENSG000002574	RP11-778J16.3
ENSG000002258	3.501003894	-6.114205529	19.73481532	0.000138524479	0.01722388927	ENSG000002258	RP11-288L9.4
ENSG000001255	3.500265154	2.263816877	16.76963969	0.000348762092	0.0315040971	ENSG000001255	TMEM255A
ENSG000002226	3.49872965	-6.035784385	22.88050333	5.57E-05	0.009338188351	ENSG000002226	NA
ENSG000002496	3.490355968	-5.793101134	15.23817677	0.000577731927	0.04247461271	ENSG000002496	OR52V1P
ENSG000002397	3.483302454	-2.678452189	15.11816393	0.000601566297	0.04317996817	ENSG000002397	RP5-1050K3.3
ENSG000001368	3.481274533	1.052878335	38.91548351	1.18E-06	0.000599651998	ENSG000001368	TMOD1
ENSG000001336	3.478440573	4.134493436	30.98735258	6.88E-06	0.002107520744	ENSG000001336	TMTC1
ENSG000002040	-3.473797166	1.643998765	15.06441865	0.000612582542	0.04367104047	ENSG000002040	LRRC73
ENSG000002316	3.467589629	-6.053514722	17.791324	0.000251790638	0.0255715266	ENSG000002316	RP4-700A9.1
ENSG000001177	3.464059207	3.65679241	28.81325319	1.17E-05	0.003084046636	ENSG000001177	IGSF21
ENSG000002177	3.458129687	-6.135852227	25.43193988	2.78E-05	0.005785848786	ENSG000002177	ANKRD18EP
ENSG000002349	3.457231167	-1.909348903	23.05384959	5.30E-05	0.009113869637	ENSG000002349	AC007879.2
ENSG000002577	3.457075191	-5.945836963	17.08324132	0.000315289911	0.02959289156	ENSG000002577	RP11-630C16.1
ENSG000000910	3.452078661	-2.317174631	17.88861274	0.000244204977	0.02505768303	ENSG000000910	POU4F3
ENSG000002268	3.449482242	-6.075323625	16.12204816	0.000430669101	0.03591032795	ENSG000002268	RP11-298J20.3
ENSG000002597	3.448198233	-6.102348558	21.37363244	8.55E-05	0.01239054997	ENSG000002597	RP11-208K4.1
ENSG000000707	3.425664201	1.491714234	23.85490423	4.25E-05	0.007678405136	ENSG000000707	SPTB
ENSG000002509	3.421836587	-5.947161654	16.68333171	0.000358633469	0.03191948914	ENSG000002509	KB-1639H6.4
ENSG000002293	3.411823596	-6.081163532	17.43332924	0.000281970073	0.02743989368	ENSG000002293	AC092635.1
ENSG000002067	3.411000514	-6.147663226	20.94682014	9.67E-05	0.01345359459	ENSG000002067	NA
ENSG000001962	3.405387406	2.708359848	54.01576626	6.99E-08	8.96E-05	ENSG000001962	RYSR1
ENSG000002360	3.397792339	-6.041817531	15.26652022	0.000572253164	0.04247461271	ENSG000002360	RP11-281B1.2
ENSG000002077	3.395059571	-5.418919802	15.51175875	0.000527126239	0.04032054654	ENSG000002077	NA
ENSG000000909	3.389939547	3.465527538	20.98985208	9.55E-05	0.0133294914	ENSG000000909	CHRD
ENSG000001509	3.386433096	3.609685251	14.78087097	0.000674427215	0.04617743105	ENSG000001509	LYPD1
ENSG000002366	3.385846671	-6.104429505	16.77543656	0.000348109675	0.0315040971	ENSG000002366	MTND5P17
ENSG000002374	3.374610702	-6.148062974	22.99306515	5.39E-05	0.009232186649	ENSG000002374	CDC27P2
ENSG000001060	3.371777453	0.9291172711	24.04243562	4.04E-05	0.007364842484	ENSG000001060	COBL
ENSG000001034	3.364340365	4.34232567	16.87529036	0.000337075831	0.03084389783	ENSG000001034	XYLT1

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ENSG0000002304	3.358645295	-6.051108328	14.927272	0.000641693792	0.0449132534	ENSG0000002304	CTF2P
ENSG0000000911	3.35338524	0.4069842205	24.21157548	3.86E-05	0.007132312288	ENSG0000000911	SLC26A4
ENSG0000002311	3.349638079	-6.139566648	22.27565468	6.60E-05	0.01036712188	ENSG0000002311	RP11-162K11.4
ENSG0000002442	3.347680982	-6.083817592	14.75595971	0.000680174524	0.04645295322	ENSG0000002442	RP11-88I21.2
ENSG0000002674	3.330261276	-6.147838002	23.28546632	4.97E-05	0.008650895559	ENSG0000002674	RP11-49I11.3
ENSG0000002293	3.324803562	-6.140193263	23.63532271	4.51E-05	0.008018685898	ENSG0000002293	BX322557.13
ENSG0000001038	3.316669375	1.856564728	14.73267334	0.000685594834	0.04674761554	ENSG0000001038	KIAA1199
ENSG0000001012	3.307026549	1.675270662	15.71970821	0.000491867502	0.03843567224	ENSG0000001012	ISM1
ENSG0000001438	3.302617379	-1.249758134	30.11088072	8.49E-06	0.002510501148	ENSG0000001438	ATP6V1C2
ENSG0000002257	3.298115984	-6.132285985	17.07914404	0.000315704177	0.02959289156	ENSG0000002257	AC025918.2
ENSG0000002585	3.2957226	-6.079564339	14.80159059	0.000669686932	0.04615298731	ENSG0000002585	RP11-998D10.2
ENSG0000002365	3.284925581	-6.102560009	15.07591426	0.000610208078	0.04357524751	ENSG0000002365	STARD13-AS
ENSG0000001562	3.267483208	2.051901102	15.3497569	0.000556485485	0.04171174452	ENSG0000001562	ADAMTSL3
ENSG0000002074	3.265125751	-6.065619839	18.20528254	0.000221173402	0.02359846342	ENSG0000002074	RNU6-606P
ENSG0000002310	3.257419061	-6.062612105	14.5660862	0.000725759389	0.04816558586	ENSG0000002310	CECR9
ENSG0000002305	3.236194546	-6.151201984	22.74799862	5.78E-05	0.009539992998	ENSG0000002305	RP11-464C19.2
ENSG0000001148	3.231210123	1.350487517	15.01193993	0.000623549763	0.04386117512	ENSG0000001148	PLCH1
ENSG0000002358	3.231072105	-6.101463322	18.04538944	0.000232494887	0.02427406161	ENSG0000002358	RP11-308B5.2
ENSG0000002374	3.228672431	-6.169029927	18.91335674	0.000177718696	0.02041591816	ENSG0000002374	RPS7P12
ENSG0000002493	3.226338936	-6.083064695	15.0554597	0.000614439971	0.04372971347	ENSG0000002493	RP11-650J17.2
ENSG0000002592	3.21706914	-6.142718065	19.6462899	0.000142261223	0.01748282915	ENSG0000002592	HMG2N2P47
ENSG0000002636	3.214002856	-6.096369175	15.71110785	0.000493274111	0.03847447063	ENSG0000002636	MIR4632
ENSG0000002635	3.202437316	-6.158826311	22.16539462	6.81E-05	0.0104724741	ENSG0000002635	MIR378G
ENSG0000001668	3.193151888	-0.3732867485	14.46693616	0.000750866590	0.04944374629	ENSG0000001668	SCNN1G
ENSG0000001857	3.185661942	0.8228172914	16.58833803	0.000369848082	0.03250587878	ENSG0000001857	KCNIP4
ENSG0000002550	3.181276787	-6.095452671	14.43147802	0.00076007203	0.04989447992	ENSG0000002550	RP11-680E19.2
ENSG0000001847	3.175447646	-1.519805045	17.71149935	0.000258204543	0.02601228593	ENSG0000001847	CNTN2
ENSG0000002503	3.173420525	2.05680361	18.79800914	0.000184118726	0.02081181596	ENSG0000002503	RP5-972B16.2
ENSG0000001358	3.153148337	4.223811231	59.0156843	3.09E-08	5.23E-05	ENSG0000001358	FAM129A
ENSG0000000926	3.15015878	4.704948137	14.56850524	0.000725158283	0.04816558586	ENSG0000000926	TBX15

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ENSG000001755	3.142982863	2.023110457	26.17461316	2.28E-05	0.004979268999	ENSG000001755	LONRF3
ENSG000002324	3.139456757	-6.069788905	14.79532529	0.000671116514	0.04615298731	ENSG000002324	IL9RP2
ENSG000002636	3.113029221	-6.190343876	20.74698274	0.000118784336	0.01542089862	ENSG000002636	RN7SL750P
ENSG000002521	3.092838669	-6.188111975	19.91738544	0.000131147944	0.0165500876	ENSG000002521	AC005513.1
ENSG000002605	3.085261164	-6.150598793	14.68769164	0.000696197742	0.04701559037	ENSG000002605	AP000220.1
ENSG000002505	3.075729307	-6.189941268	20.22958697	0.000119496838	0.01542089862	ENSG000002505	KNOP1P5
ENSG000002072	3.066128319	-6.183403075	19.19468764	0.000163093423	0.01931309381	ENSG000002072	RNU6-831P
ENSG000002350	3.059636402	-6.184092051	18.63111171	0.000193823012	0.02156281014	ENSG000002350	LINC00330
ENSG000001978	3.056160273	2.903588207	40.6126823	8.30E-07	0.000487636905	ENSG000001978	FAM212B
ENSG000001433	3.055907232	3.541168072	29.24967973	1.05E-05	0.002895423649	ENSG000001433	TUFT1
ENSG000002641	3.042882155	-6.185886483	16.56931241	0.000372139358	0.03263940121	ENSG000002641	RN7SL599P
ENSG000001615	3.041877986	-0.1261230783	25.27097244	2.90E-05	0.005921921147	ENSG000001615	GRIN2C
ENSG000001996	3.036965637	-6.126757064	16.32468457	0.000403005673	0.03468290117	ENSG000001996	RNU6-1272P
ENSG000002311	3.024887206	-6.19988663	20.15277325	0.000122256071	0.01566174366	ENSG000002311	AC002429.4
ENSG000002278	3.022096998	0.406487087	19.41509253	0.000152542657	0.01832028652	ENSG000002278	FAM212B-AS1
ENSG000002424	3.011184395	-1.546179824	22.16517659	6.81E-05	0.0104724741	ENSG000002424	UPK3BP1
ENSG000002144	2.996063007	-6.182186695	15.4161337	0.000544247930	0.04111641682	ENSG000002144	KRT18P13
ENSG000001447	2.977818874	6.304790118	18.19087352	0.000222168857	0.02359846342	ENSG000001447	IL17RD
ENSG000001295	-2.976986073	3.837658742	18.80863945	0.000183518633	0.02079959852	ENSG000001295	SYT5
ENSG000001562	2.972435104	3.483505903	25.43325531	2.78E-05	0.005785848786	ENSG000001562	TSPAN7
ENSG000002297	2.960558381	-6.209906768	17.08253671	0.000478472077	0.03766742475	ENSG000002297	RP4-738P11.4
ENSG000001714	2.935364485	-6.208181562	16.39371726	0.000478472072	0.03766742475	ENSG000001714	OR1B1
ENSG000002593	2.915058222	-6.196243928	20.31043827	0.000118784328	0.01542089862	ENSG000002593	RP11-20G13.1
ENSG000001848	2.913125592	2.114111209	24.20423531	3.86E-05	0.007132312288	ENSG000001848	PRR16
ENSG000002014	2.876245183	-6.217994007	16.57625214	0.000478472072	0.03766742475	ENSG000002014	NA
ENSG000001457	2.865268832	0.1504430028	16.68322426	0.000358645945	0.03191948914	ENSG000001457	LIX1
ENSG000002318	2.862492312	-6.157919191	14.6348075	0.000708890534	0.04734336075	ENSG000002318	C18orf42
ENSG000001645	2.862142438	4.469605523	26.47212769	2.11E-05	0.004755046625	ENSG000001645	CTHRC1
ENSG000001867	2.860134423	2.046736858	32.15204915	5.23E-06	0.001740036334	ENSG000001867	DTX2P1
ENSG000002296	2.85964339	-6.2154509	17.93948409	0.000478472067	0.03766742475	ENSG000002296	LINC01079

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ENSG000002352	2.858120705	-6.202323742	14.49003828	0.000744933821	0.04912960579	ENSG000002352	RP11-70C1.3
ENSG000001199	2.856574899	1.028938273	24.73720986	3.34E-05	0.006516152888	ENSG000001199	ELOVL3
ENSG000002654	2.855895873	1.112982569	32.74261345	4.56E-06	0.001553798789	ENSG000002654	DTX2P1-UPK3B
ENSG000002596	2.855646054	-6.205798527	20.22537243	0.000119646475	0.01542089862	ENSG000002596	RP11-96O20.2
ENSG000002242	2.851044116	-6.216262177	15.89501624	0.000478472066	0.03766742475	ENSG000002242	LINC00466
ENSG000002077	2.851044116	-6.216262177	15.89501624	0.000478472066	0.03766742475	ENSG000002077	MIR222
ENSG000002383	2.85067143	-6.137085277	14.68800528	0.000696123203	0.04701559037	ENSG000002383	snoU13
ENSG000002624	2.841605329	-6.117478013	14.52823939	0.000735234397	0.04864168098	ENSG000002624	RP11-670E13.3
ENSG000002242	2.840793647	-6.210119355	15.01635164	0.000622619666	0.04386117512	ENSG000002242	AC012671.2
ENSG000002217	2.840793647	-6.210119355	15.01635164	0.000622619666	0.04386117512	ENSG000002217	Z95152.1
ENSG000002649	2.829097454	-6.189480339	17.17740829	0.000305928804	0.02897702255	ENSG000002649	MIR3616
ENSG000001289	2.828070311	0.2833608274	15.44561407	0.000538906283	0.04094814146	ENSG000001289	CPA4
ENSG000002019	2.824666669	-6.208312092	16.29090895	0.000478472052	0.03766742475	ENSG000002019	SNORD114-17
ENSG000000646	2.814513709	2.548979865	16.70360535	0.000356287894	0.0319111668	ENSG000000646	EYA2
ENSG000002510	2.808804315	-6.21315773	14.83224872	0.000662738819	0.04600539177	ENSG000002510	RP11-414H23.3
ENSG000002550	2.804494589	-6.168690429	15.45092352	0.00053795028	0.04094814146	ENSG000002550	RP11-677N16.1
ENSG000002658	2.802660013	-6.208969141	16.28226709	0.000478472048	0.03766742475	ENSG000002658	MIR4422
ENSG000001130	2.798633296	5.807118159	16.26446029	0.000411021351	0.03496162505	ENSG000001130	LOX
ENSG000002457	2.788174506	-2.077697451	15.22728287	0.000579852758	0.04247476284	ENSG000002457	RP11-279F6.1
ENSG000001649	2.782458677	5.719302759	84.81007304	8.76E-10	4.12E-06	ENSG000001649	GALNT10
ENSG000002022	2.776332323	-6.204300057	15.0186278	0.000622140383	0.04386117512	ENSG000002022	SNORD51
ENSG000002237	2.739328813	-2.804016087	19.61160237	0.000143754932	0.0174833718	ENSG000002237	AC007879.5
ENSG000002648	2.737942499	0.5605450931	17.3903138	0.000285851215	0.02765299799	ENSG000002648	CTB-167B5.2
ENSG000001133	2.734145714	2.419917835	34.43640867	3.10E-06	0.001169991652	ENSG000001133	RASGRF2
ENSG000001099	2.725171787	4.503657923	20.42858642	0.000112655981	0.01511914805	ENSG000001099	GALNT7
ENSG000001677	-2.721455724	5.355629218	21.79092616	7.58E-05	0.01124113708	ENSG000001677	PRRX2
ENSG000000686	2.720841468	1.025930969	28.19628715	1.36E-05	0.003405910589	ENSG000000686	REEP1
ENSG000001984	2.668217593	3.859198927	19.10749544	0.000167482283	0.01966994923	ENSG000001984	SH3BGRL2
ENSG000000733	2.66802859	2.448413157	14.95098069	0.000636556287	0.04470168949	ENSG000000733	LLGL2
ENSG000001127	2.663615818	5.599668752	17.0644857	0.000317191061	0.02966648703	ENSG000001127	MDGA1

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ENSG000001822	2.66160318	4.060499751	26.20222346	2.27E-05	0.004969106472	ENSG000001822	RGMA
ENSG000002132	2.650935002	-6.228179941	15.98606354	0.000478472046	0.03766742475	ENSG000002132	NCLP1
ENSG000001842	2.645537222	-6.232907872	15.02180669	0.000621471683	0.04386117512	ENSG000001842	CTC-512J14.7
ENSG000000064	2.640242521	2.339519653	15.41357773	0.000544713742	0.04111641682	ENSG000000064	MAP3K9
ENSG000002596	2.63820838	-6.220682089	15.19069719	0.000587037063	0.04256773902	ENSG000002596	CTD-2054N24.1
ENSG000001538	2.630556105	3.721234765	21.18207304	9.03E-05	0.01277260905	ENSG000001538	JAZF1
ENSG000001467	2.621019191	3.702661358	18.82818734	0.000182420633	0.02073073193	ENSG000001467	SCUBE3
ENSG000000095	2.619087523	1.974883111	31.17455105	6.58E-06	0.002045360343	ENSG000000095	TLL2
ENSG000001317	2.618670649	-0.7170966161	14.94035167	0.000638854003	0.04478864513	ENSG000001317	CCL25
ENSG000000111	2.617954005	5.118405811	57.5481899	3.91E-08	6.12E-05	ENSG000000111	TSPAN9
ENSG000001528	2.613646399	3.742113721	20.54755175	0.000108768938	0.01478523104	ENSG000001528	PTPRK
ENSG000001114	2.607961075	3.305854106	34.58176027	3.00E-06	0.001155571861	ENSG000001114	TBC1D30
ENSG000000057	2.602521711	3.480081397	22.52099027	6.16E-05	0.009823711444	ENSG000000057	TMCC3
ENSG000002615	2.588436175	-6.233764403	15.51001181	0.000527433760	0.04032054654	ENSG000002615	AC002400.1
ENSG000001685	2.577441372	4.254375858	23.64753583	4.50E-05	0.008018685898	ENSG000001685	SERINC2
ENSG000001155	2.561593801	3.284445534	16.80730051	0.000344546941	0.03141506095	ENSG000001155	PLCD4
ENSG000001630	2.53397383	4.042038184	48.36025484	1.88E-07	0.000193748043	ENSG000001630	BBS5
ENSG000001663	2.528313881	4.907459986	47.93940904	2.03E-07	0.000204186815	ENSG000001663	USP54
ENSG000002270	2.512514411	-1.086517391	24.87442891	3.22E-05	0.006338752254	ENSG000002270	AL592494.5
ENSG000001835	2.46684626	4.312500419	18.22069403	0.000220114015	0.02359846342	ENSG000001835	AC099522.1
ENSG000001645	2.452673177	0.7995762101	15.4981386	0.000529528989	0.04040764986	ENSG000001645	BAALC
ENSG000001578	2.44067268	2.528906566	16.59457884	0.000369099816	0.03250587878	ENSG000001578	MEGF11
ENSG000002514	2.438703083	4.339980967	18.0446501	0.000232548668	0.02427406161	ENSG000002514	FOXD1
ENSG000001632	2.433110198	2.711057313	14.79876773	0.000670330631	0.04615298731	ENSG000001632	TGFA
ENSG000001417	2.42269294	2.655177542	14.79393653	0.000671433841	0.04615298731	ENSG000001417	STAC2
ENSG000000127	2.404822218	2.949961172	23.34460823	4.89E-05	0.008585994281	ENSG000000127	ALOX5
ENSG000001357	2.404314462	3.663796286	17.24538131	0.000299358189	0.02869697837	ENSG000001357	TBX3
ENSG000001588	2.40320264	1.118502326	20.35560005	0.000115114651	0.01534721032	ENSG000001588	EDA
ENSG000001185	2.398435241	6.028737495	20.3744396	0.000114474519	0.01531458962	ENSG000001185	SGK1
ENSG000001582	2.392486858	3.681494479	15.84069922	0.000472531623	0.03766742475	ENSG000001582	SLC13A3

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ENSG000000366	2.378919076	2.691370003	35.22473686	2.60E-06	0.001037093472	ENSG000000366	USP2
ENSG000000166	2.369845659	1.521567696	31.66313976	5.86E-06	0.001873953323	ENSG000000166	MSS51
ENSG000000166	2.340021211	2.911617532	14.69534956	0.000694380203	0.04701559037	ENSG000000166	GPR176
ENSG000000174	-2.33664906	6.746531441	19.94515674	0.000130063490	0.01646237748	ENSG000000174	SEZ6L2
ENSG000000135	2.321725786	3.215183759	27.07051844	1.81E-05	0.004255501117	ENSG000000135	ITGA7
ENSG000000127	2.271374418	-2.467911366	17.10051877	0.000313549472	0.02952183508	ENSG000000127	ATP13A4
ENSG000000135	2.262740077	3.251643794	16.26991825	0.000410287867	0.03496162505	ENSG000000135	LCA5
ENSG000000179	2.254048571	2.425212047	17.15331839	0.000308294671	0.02909186879	ENSG000000179	WSCD1
ENSG000000171	2.250717519	5.142317068	46.61527164	2.59E-07	0.000237916640	ENSG000000171	TLN2
ENSG000000154	2.24863086	1.859302347	22.37343652	6.42E-05	0.01016507527	ENSG000000154	SLFN13
ENSG000000064	2.242171893	5.847952636	16.6378804	0.000363952793	0.03221949443	ENSG000000064	CDON
ENSG000000135	2.224007366	2.45516207	24.67870737	3.40E-05	0.006589213631	ENSG000000135	CCDC146
ENSG000000196	-2.212830649	3.890422127	19.66564284	0.000141435130	0.01743198297	ENSG000000196	CD55
ENSG000000168	2.212150954	-0.1142290241	16.47792133	0.000383361344	0.03341567179	ENSG000000168	DEGS2
ENSG000000079	2.199254808	3.283114774	18.55745709	0.000198279888	0.02180530014	ENSG000000079	OPHN1
ENSG000000185	-2.189694706	2.371032673	15.16382017	0.000592376136	0.04273498494	ENSG000000185	MAPK11
ENSG000000115	2.173490527	5.557851722	26.30144153	2.21E-05	0.004918610822	ENSG000000115	SLC1A4
ENSG000000105	-2.147644695	7.88999282	17.59044608	0.000268269925	0.0265599792	ENSG000000105	APLP1
ENSG000000100	2.121869115	4.338725307	21.22372511	8.93E-05	0.01275913935	ENSG000000100	SIX4
ENSG000000163	2.106064045	3.642407041	16.17668532	0.000423013781	0.03555250023	ENSG000000163	NFASC
ENSG000000130	-2.099451239	4.150426097	15.28726494	0.000568278810	0.04237034691	ENSG000000130	CNN1
ENSG000000048	2.084720435	4.182438291	15.67925326	0.000498521968	0.03874083859	ENSG000000048	CELF2
ENSG000000088	2.049603079	3.815436243	23.34244602	4.89E-05	0.008585994281	ENSG000000088	DOCK9
ENSG000000146	2.048752301	5.071860628	15.97506969	0.000452014917	0.03710471969	ENSG000000146	TNFRSF21
ENSG000000262	2.027191107	4.492993713	24.45212301	3.61E-05	0.00684781592	ENSG000000262	RP11-104H15.7
ENSG000000142	-2.022908721	5.523424815	20.29452452	0.000117216556	0.01542089862	ENSG000000142	EVA1B
ENSG000000134	1.978418354	7.741603864	20.77993807	0.000101586668	0.01403456344	ENSG000000134	NOTCH2
ENSG000000170	1.974770035	1.913277635	16.36658339	0.000397528685	0.03440642739	ENSG000000170	NPAS2
ENSG000000145	1.909255027	3.829716468	24.62221947	3.45E-05	0.006659742286	ENSG000000145	ARHGAP26
ENSG000000139	1.885835563	2.555944019	15.24508119	0.000576392109	0.04247461271	ENSG000000139	FGD4

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ENSG000002056	1.877963938	-1.25149639	15.7786801	0.000482338425	0.03783090345	ENSG000002056	DPF3
ENSG000001285	1.867686045	6.460680777	15.25339791	0.000574782685	0.04247461271	ENSG000001285	FLNC
ENSG000001358	1.860134673	2.080683142	17.4276923	0.000282475421	0.02743989368	ENSG000001358	KIAA1614
ENSG000001626	1.832193861	5.10838816	19.84275869	0.000134110666	0.01677375277	ENSG000001626	FAM102B
ENSG000001962	1.8081165	2.612530338	15.4422232	0.000539517795	0.04094814146	ENSG000001962	ATP2A1
ENSG000001083	1.803679598	2.96914362	24.89127489	3.21E-05	0.006338752254	ENSG000001083	SEPT4
ENSG000001807	-1.762290067	4.119155363	14.60493801	0.000716169884	0.04767886907	ENSG000001807	TDRP
ENSG000000846	1.733174414	6.410596592	77.32111483	2.24E-09	7.30E-06	ENSG000000846	NCOA1
ENSG000001619	1.730383516	5.525640409	27.31347773	1.70E-05	0.004043791803	ENSG000001619	FGF11
ENSG000000710	1.718590874	4.09831127	24.35953376	3.70E-05	0.006959316773	ENSG000000710	MGAT4A
ENSG000001115	1.704967939	3.708415765	18.42792869	0.000206388144	0.02231472843	ENSG000001115	MDM1
ENSG000001630	1.654299217	5.761478142	49.90595736	1.42E-07	0.000154324336	ENSG000001630	SMC6
ENSG000001386	1.652304013	4.615026133	15.88842629	0.000465131394	0.03766742475	ENSG000001386	GLCE
ENSG000000765	1.644660635	5.999769914	18.63770214	0.000193429522	0.02156281014	ENSG000000765	TPD52
ENSG000000092	1.631371276	6.377423403	15.0393786	0.000617789293	0.04386117512	ENSG000000092	NRP1
ENSG000000900	-1.579309389	6.604327772	16.09726483	0.000434190741	0.03606171627	ENSG000000900	BLVRB
ENSG000001696	-1.574194095	4.490389753	20.34593875	0.000115444420	0.01534721032	ENSG000001696	AGPAT2
ENSG000001830	-1.555676923	5.315456936	15.20940892	0.000583350715	0.04247476284	ENSG000001830	GAS6
ENSG000000765	1.540867067	4.911727795	48.36824934	1.88E-07	0.000193748043	ENSG000000765	ANKRD13A
ENSG000001353	1.520658772	3.486642027	22.06454984	7.01E-05	0.01069605348	ENSG000001353	KIAA1009
ENSG000001587	-1.478912397	3.794427266	17.86722971	0.000245850830	0.02516548148	ENSG000001587	SPATA2L
ENSG000001690	1.454498063	5.718535287	43.33238608	4.83E-07	0.000354664974	ENSG000001690	MAP2K1
ENSG000001553	-1.45422095	5.639900488	16.88868167	0.000335625034	0.0307777621	ENSG000001553	USP25
ENSG000001257	1.43754036	5.328228807	16.59053903	0.000369583998	0.03250587878	ENSG000001257	GPCPD1
ENSG000001000	-1.413485208	6.333273196	15.83293651	0.00047374723	0.03766742475	ENSG000001000	SH3BP1
ENSG000000689	1.408796481	5.959893511	42.28289786	5.94E-07	0.000398689973	ENSG000000689	SIRT2
ENSG000001705	1.389686626	5.764390513	20.08564286	0.000124723751	0.01588161623	ENSG000001705	ELOVL6
ENSG000001199	1.369312853	5.718109984	16.50670252	0.000379788370	0.03317263094	ENSG000001199	FAM178A
ENSG000001529	1.367895694	6.51810683	21.95224784	7.24E-05	0.01092584525	ENSG000001529	GPR125
ENSG000001495	1.364732268	3.955093917	21.123428	9.19E-05	0.01294745784	ENSG000001495	TMEM25

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ENSG000001887	1.35727952	5.833574129	26.21002127	2.26E-05	0.004969106472	ENSG000001887	ZDHHC9
ENSG000001656	1.357031414	3.358931225	21.20413294	8.98E-05	0.01277260905	ENSG000001656	ENOX2
ENSG000001456	1.304145926	5.862101426	23.32129601	4.92E-05	0.008600773559	ENSG000001456	SKP2
ENSG000001293	1.303920878	6.673493031	18.10564293	0.000228156787	0.0239933537	ENSG000001293	SLC44A2
ENSG000001157	1.283099292	4.779709396	15.79534546	0.000479681793	0.0376924681	ENSG000001157	ACVR1
ENSG000001512	1.277514616	5.834161981	18.82928131	0.000182359395	0.02073073193	ENSG000001512	DLG5
ENSG000001116	-1.272233282	4.787423119	17.55405838	0.000271377655	0.02680488406	ENSG000001116	CHPT1
ENSG000000650	-1.271777938	4.01411203	18.82975495	0.000182332888	0.02073073193	ENSG000000650	NTHL1
ENSG000001836	-1.246526568	4.68161276	16.19098435	0.000421034662	0.03554415551	ENSG000001836	HMCS
ENSG000001174	-1.202397582	8.786399815	16.24802046	0.000413239234	0.03507969603	ENSG000001174	PRDX1
ENSG000002132	1.179806497	3.784214025	18.69118921	0.000190267693	0.02133572083	ENSG000002132	NOTCH2NL
ENSG000001038	1.179325075	6.94682659	16.63491143	0.000364303213	0.03221949443	ENSG000001038	CD276
ENSG000001193	-1.178705944	5.709358018	17.18283731	0.000305398330	0.02897702255	ENSG000001193	WDR34
ENSG000001707	1.172696307	6.226074974	15.1821967	0.000588720028	0.04257689942	ENSG000001707	AKAP13
ENSG000001037	-1.166012246	3.425998464	16.64332387	0.000363311259	0.03221949443	ENSG000001037	MTFMT
ENSG000000832	1.161123886	4.740950614	15.20229052	0.000584750135	0.04247476284	ENSG000000832	ZCCHC6
ENSG000001765	1.160152088	2.680113076	14.77816939	0.000675047957	0.04617743105	ENSG000001765	CTD-2368P22.1
ENSG000001078	1.144681948	6.718796384	18.46260229	0.000204183156	0.02213293061	ENSG000001078	GBF1
ENSG000001402	1.142898113	7.24023608	24.58424415	3.49E-05	0.006667428023	ENSG000001402	TCF12
ENSG000001662	1.130287698	5.415474676	19.07587776	0.0001691051	0.01969398926	ENSG000001662	WBP1L
ENSG000001533	1.129839675	5.762286049	15.23512729	0.000578324756	0.04247461271	ENSG000001533	FAM49B
ENSG000001273	1.114031118	4.824241655	18.47208901	0.000203584306	0.02212474697	ENSG000001273	DYRK2
ENSG000001017	-1.10427346	4.448669065	16.15335454	0.000426264576	0.03570433971	ENSG000001017	MRGBP
ENSG000001669	1.100914065	5.027589765	15.86822434	0.000468248380	0.03766742475	ENSG000001669	SMAD3
ENSG000001672	1.083894438	4.435402602	17.65620069	0.000262751043	0.02629030225	ENSG000001672	ZNF91
ENSG000001375	1.077202016	4.302631771	15.40858268	0.000545625306	0.04111641682	ENSG000001375	RAB30
ENSG000000054	-1.053016685	7.013134654	17.00192084	0.000323622911	0.03013471055	ENSG000000054	PHPT1
ENSG000001394	1.035856513	5.795414325	37.81205343	1.48E-06	0.000689687124	ENSG000001394	GIT2
ENSG000001192	1.024141687	4.883433652	16.2190211	0.000417183074	0.03534351597	ENSG000001192	C1orf198

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_505605	4.591479659	3.359569239	147.5337788	8.85E-13	5.65E-09	chr6	116874999	116875498
MRT_106262	4.5689726	2.868055869	81.11873412	7.94E-10	5.48E-07	chr1	239779809	239780308
MRT_374157	4.519593606	3.3522193	279.0211375	3.04E-16	2.95E-11	chr4	173961291	173961790
MRT_880029	4.462691148	3.52966866	210.1222873	1.14E-14	3.61E-10	chr12	81110393	81110892
MRT_690685	4.445130082	3.74083167	101.9256005	6.53E-11	9.73E-08	chr9	89164136	89164635
MRT_962536	4.434551764	3.219763672	234.7238705	2.80E-15	1.19E-10	chr14	61669708	61670207
MRT_281896	4.384517806	3.477127057	173.5387049	1.23E-13	1.42E-09	chr3	140732210	140732709
MRT_252850	4.380081569	3.772945736	145.9533223	1.01E-12	6.08E-09	chr3	66743741	66744240
MRT_766804	4.26996139	3.978410046	270.0126555	4.65E-16	2.95E-11	chr10	104040295	104040794
MRT_836889	4.262855903	3.111811428	85.31265006	4.63E-10	3.85E-07	chr11	121110637	121111136
MRT_209976	4.237724552	3.248240905	169.4126383	1.65E-13	1.62E-09	chr2	225984848	225985347
MRT_858224	4.226605022	3.118865755	205.7991488	1.48E-14	3.76E-10	chr12	29700693	29701192
MRT_119961	4.202009063	3.025190437	131.3196955	3.53E-12	1.32E-08	chr2	17974569	17975068
MRT_55377	4.190551293	3.324467789	142.5840675	1.33E-12	7.22E-09	chr1	109228122	109228621
MRT_210117	4.179630993	3.142404373	181.411727	7.13E-14	9.04E-10	chr2	226350881	226351380
MRT_836886	4.174710393	3.334556115	84.75013177	4.97E-10	4.03E-07	chr11	121108538	121109037
MRT_343205	4.164307739	3.418322011	71.78313853	2.86E-09	1.33E-06	chr4	91985459	91985958
MRT_64453	4.155975246	3.172906237	199.5606776	2.18E-14	4.60E-10	chr1	151557981	151558480
MRT_931631	4.132130488	2.793104184	66.75350511	6.01E-09	2.29E-06	chr13	80211215	80211714
MRT_1023034	-4.100852358	4.615936352	11.70492723	1.91E-03	3.97E-02	chr15	95847671	95848170
MRT_60443	4.093547982	3.154347996	116.0825882	1.49E-11	3.72E-08	chr1	118795687	118796186
MRT_430181	4.091686839	2.724003815	67.53761023	5.34E-09	2.10E-06	chr5	126693995	126694494
MRT_510801	4.060388879	2.896009038	96.4657833	1.21E-10	1.50E-07	chr6	130997206	130997705
MRT_724599	4.045741789	2.885191847	54.6843901	4.26E-08	9.86E-06	chr10	11054246	11054745
MRT_690682	4.016357797	3.147664445	98.72547269	9.33E-11	1.23E-07	chr9	89161550	89162049
MRT_209975	4.002160832	2.602315435	133.6119227	2.88E-12	1.18E-08	chr2	225983845	225984344
MRT_60366	3.989017515	2.939184471	92.16090319	2.00E-10	2.15E-07	chr1	118665992	118666491
MRT_443324	3.976204617	3.067671652	115.1449451	1.63E-11	3.83E-08	chr5	153543152	153543651
MRT_942882	3.973579486	3.660160313	83.80827574	5.60E-10	4.36E-07	chr13	111658787	111659286
MRT_823596	3.96531368	2.788759963	59.10928511	2.01E-08	5.56E-06	chr11	91154765	91155264
MRT_60331	3.948072192	3.40157216	150.4600564	6.99E-13	4.93E-09	chr1	118616676	118617175

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_690686	3.9189868	2.637555203	100.4269438	7.71E-11	1.06E-07	chr9	89165092	89165591
MRT_1269819	3.894826355	2.868367093	106.0249845	4.19E-11	7.58E-08	chrX	131965517	131966016
MRT_745092	3.884747431	2.556467263	75.38684887	1.72E-09	9.02E-07	chr10	61512999	61513498
MRT_504135	3.881020297	2.709344428	67.84164903	5.11E-09	2.04E-06	chr6	113011762	113012261
MRT_60438	3.879965364	2.770349361	90.13151572	2.55E-10	2.65E-07	chr1	118792279	118792778
MRT_419493	3.878629188	2.743790848	55.38546264	3.77E-08	8.98E-06	chr5	98098909	98099408
MRT_209997	3.856858239	2.564303224	89.8372449	2.64E-10	2.71E-07	chr2	226059709	226060208
MRT_856076	3.834075382	3.018293751	80.14737212	9.03E-10	5.93E-07	chr12	25097154	25097653
MRT_932178	3.81795152	2.857058239	110.0419665	2.74E-11	5.52E-08	chr13	81207247	81207746
MRT_766842	3.808702192	3.469248929	195.6711132	2.78E-14	5.05E-10	chr10	104086757	104087256
MRT_60444	3.806458864	2.841805483	92.64277382	1.89E-10	2.08E-07	chr1	118796242	118796741
MRT_690690	3.801582094	2.828757533	89.29189214	2.82E-10	2.79E-07	chr9	89170515	89171014
MRT_419340	3.800355113	2.534760577	66.21893537	6.52E-09	2.43E-06	chr5	97541270	97541769
MRT_872689	3.798412057	3.745979267	78.41659603	1.14E-09	6.94E-07	chr12	65100510	65101009
MRT_106263	3.793709471	2.660587805	64.5710789	8.40E-09	2.94E-06	chr1	239780943	239781442
MRT_880024	3.793367096	2.749316062	128.6730195	4.49E-12	1.58E-08	chr12	81104740	81105239
MRT_61286	3.777439475	3.663459353	86.66486945	3.90E-10	3.57E-07	chr1	120601868	120602367
MRT_374165	3.76191608	2.671720826	106.0686577	4.17E-11	7.58E-08	chr4	173978594	173979093
MRT_613493	3.753909073	2.752864921	78.14320672	1.18E-09	7.06E-07	chr8	23837033	23837532
MRT_1009081	3.749477934	2.968065984	59.26943045	1.96E-08	5.45E-06	chr15	69832869	69833368
MRT_60365	3.744663417	2.807900225	77.28783967	1.33E-09	7.68E-07	chr1	118665205	118665704
MRT_690691	3.742943999	3.308021484	111.2220754	2.43E-11	5.18E-08	chr9	89172018	89172517
MRT_209971	3.739137732	2.781868066	142.2836315	1.37E-12	7.22E-09	chr2	225979073	225979572
MRT_74706	3.731081958	3.401141661	101.8965231	6.55E-11	9.73E-08	chr1	172054483	172054982
MRT_354514	3.727338152	3.10752885	62.56494761	1.15E-08	3.68E-06	chr4	124753750	124754249
MRT_821466	3.723076369	2.437270859	61.8431154	1.29E-08	3.98E-06	chr11	85096580	85097079
MRT_210200	3.721822613	2.802678479	110.5736774	2.60E-11	5.34E-08	chr2	226525794	226526293
MRT_72882	3.713078273	2.87134391	73.18134854	2.35E-09	1.14E-06	chr1	168437979	168438478
MRT_836885	3.710368045	3.018747057	68.99196596	4.30E-09	1.81E-06	chr11	121107036	121107535
MRT_326958	3.703243773	2.719795148	47.93702957	1.45E-07	2.58E-05	chr4	45339497	45339996

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_512779	3.702582391	3.27550873	108.0560832	3.38E-11	6.30E-08	chr6	134673078	134673577
MRT_89352	3.695423629	2.976131113	57.84362567	2.48E-08	6.58E-06	chr1	204893190	204893689
MRT_476296	3.686673908	2.90497356	76.59850496	1.46E-09	8.21E-07	chr6	38471620	38472119
MRT_119959	3.676384916	3.074489547	109.3742236	2.94E-11	5.65E-08	chr2	17972844	17973343
MRT_119967	3.675201742	2.968778134	90.28169756	2.50E-10	2.62E-07	chr2	17980913	17981412
MRT_527403	3.670944354	2.732659017	71.19773487	3.12E-09	1.41E-06	chr6	164201966	164202465
MRT_265315	3.666690087	3.418323986	76.93640197	1.39E-09	7.92E-07	chr3	106703437	106703936
MRT_72879	3.663412084	3.08913658	89.78511534	2.66E-10	2.71E-07	chr1	168435428	168435927
MRT_636419	3.662040887	3.410024393	122.9960522	7.61E-12	2.30E-08	chr8	81279094	81279593
MRT_499811	3.653592378	2.838598433	45.22571248	2.45E-07	3.83E-05	chr6	105612194	105612693
MRT_209970	3.652263362	2.651819377	94.56509532	1.50E-10	1.72E-07	chr2	225978078	225978577
MRT_880028	3.646440298	2.752076479	123.6454487	7.16E-12	2.21E-08	chr12	81109767	81110266
MRT_210116	3.644255936	2.719268941	134.3538021	2.70E-12	1.14E-08	chr2	226350315	226350814
MRT_636315	3.642234688	2.872696218	118.2275632	1.20E-11	3.18E-08	chr8	81119509	81120008
MRT_419433	3.641900004	2.905839179	51.62463676	7.33E-08	1.51E-05	chr5	97845675	97846174
MRT_690689	3.640149576	2.647466103	75.56494938	1.68E-09	8.89E-07	chr9	89169339	89169838
MRT_545513	3.637908021	3.047540467	62.65661222	1.13E-08	3.64E-06	chr7	29082225	29082724
MRT_443325	3.637349687	2.587379852	103.0687336	5.76E-11	9.30E-08	chr5	153543684	153544183
MRT_443323	3.635333012	3.062193508	96.69500097	1.18E-10	1.48E-07	chr5	153541975	153542474
MRT_1007181	3.633294841	3.376546717	184.6679586	5.72E-14	8.06E-10	chr15	66662557	66663056
MRT_873285	3.632534884	3.838436177	103.0120034	5.79E-11	9.30E-08	chr12	65985503	65986002
MRT_281895	3.630003285	2.521421564	102.8480899	5.90E-11	9.35E-08	chr3	140731321	140731820
MRT_512851	3.624587321	3.039246567	111.6950933	2.31E-11	5.15E-08	chr6	134789758	134790257
MRT_1129795	3.614072213	2.886422719	72.46569295	2.60E-09	1.23E-06	chr18	44519468	44519967
MRT_931679	3.613989624	4.019874461	30.02832031	7.10E-06	5.12E-04	chr13	80298485	80298984
MRT_572702	3.6120603	3.194719515	89.23380961	2.84E-10	2.79E-07	chr7	95102437	95102936
MRT_438140	3.606268939	3.316363093	116.0219388	1.50E-11	3.72E-08	chr5	141901320	141901819
MRT_296129	3.60210109	2.881957923	71.4525958	3.00E-09	1.37E-06	chr3	174867407	174867906
MRT_565274	3.601716654	2.654205413	121.3738725	8.88E-12	2.60E-08	chr7	76499080	76499579
MRT_337273	3.597829598	3.043270323	78.471454	1.13E-09	6.92E-07	chr4	78098317	78098816

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_879939	3.595561086	3.200919357	82.80529178	6.38E-10	4.81E-07	chr12	80945668	80946167
MRT_178980	3.593542328	3.091302637	101.922505	6.53E-11	9.73E-08	chr2	158694245	158694744
MRT_800217	3.592176535	2.816861002	71.99684092	2.78E-09	1.30E-06	chr11	35940036	35940535
MRT_884695	3.587077822	2.458916175	97.15290974	1.12E-10	1.43E-07	chr12	93537965	93538464
MRT_438122	3.581670306	3.267136753	124.9012362	6.36E-12	2.02E-08	chr5	141878994	141879493
MRT_45028	3.576025058	2.564146277	57.21262327	2.76E-08	7.17E-06	chr1	83448446	83448945
MRT_510417	3.575671559	2.801285242	101.8243943	6.60E-11	9.73E-08	chr6	130106892	130107391
MRT_72881	3.573521157	2.708382286	75.00209309	1.82E-09	9.27E-07	chr1	168437048	168437547
MRT_636339	3.572936167	3.383989724	101.2795357	7.01E-11	1.02E-07	chr8	81159720	81160219
MRT_931716	3.567394422	3.039497762	85.26100841	4.66E-10	3.85E-07	chr13	80376876	80377375
MRT_60355	3.565791629	2.800629528	111.1453709	2.45E-11	5.18E-08	chr1	118653201	118653700
MRT_394479	3.561522117	3.192167615	78.19623444	1.17E-09	7.06E-07	chr5	36156122	36156621
MRT_873265	3.55902216	2.880925802	88.48415915	3.12E-10	2.97E-07	chr12	65962265	65962764
MRT_210068	3.558767357	2.519546593	94.59293918	1.50E-10	1.72E-07	chr2	226264840	226265339
MRT_872688	3.555312114	3.563028025	115.6709481	1.55E-11	3.78E-08	chr12	65099981	65100480
MRT_863611	3.555015448	3.070552086	56.68233948	3.02E-08	7.57E-06	chr12	46554242	46554741
MRT_572516	3.549367003	2.853983778	61.88174094	1.28E-08	3.97E-06	chr7	94721571	94722070
MRT_508728	3.545849631	2.804964512	47.94072427	1.45E-07	2.58E-05	chr6	125323137	125323636
MRT_905058	3.538569662	3.160479648	135.8676292	2.36E-12	1.11E-08	chr12	132109521	132110020
MRT_516269	3.533461486	2.77196181	59.74063175	1.81E-08	5.18E-06	chr6	143141688	143142187
MRT_430187	3.517965872	2.952917953	81.48576637	7.57E-10	5.25E-07	chr5	126705441	126705940
MRT_690683	3.517023035	2.756689027	77.01581748	1.38E-09	7.90E-07	chr9	89162210	89162709
MRT_209972	3.515206922	2.666738874	126.8678321	5.30E-12	1.79E-08	chr2	225980126	225980625
MRT_656829	-3.513299629	3.527138618	12.4782211	1.43E-03	3.16E-02	chr8	129878986	129879485
MRT_752180	3.512755044	3.116214155	137.4616229	2.06E-12	1.04E-08	chr10	75312993	75313492
MRT_430182	3.509289849	2.705126821	58.57492951	2.20E-08	5.92E-06	chr5	126694559	126695058
MRT_504136	3.504424157	2.634481626	56.9222975	2.90E-08	7.45E-06	chr6	113012375	113012874
MRT_873278	3.503505155	3.472233212	80.5812771	8.53E-10	5.72E-07	chr12	65979439	65979938
MRT_752181	3.501090556	2.629096605	119.8517704	1.03E-11	2.83E-08	chr10	75313551	75314050
MRT_880027	3.49940423	2.610450411	126.4413676	5.51E-12	1.79E-08	chr12	81108666	81109165

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_258982	3.497591606	2.52227676	64.94723024	7.93E-09	2.81E-06	chr3	82134205	82134704
MRT_202980	3.496441749	2.497336648	36.07577503	1.69E-06	1.69E-04	chr2	211179669	211180168
MRT_343053	3.496240522	2.634345609	38.91927464	9.00E-07	1.05E-04	chr4	91465552	91466051
MRT_738068	3.495344577	2.879552536	57.51811522	2.62E-08	6.88E-06	chr10	36229355	36229854
MRT_1139684	3.494984473	3.225260467	68.66088038	4.52E-09	1.87E-06	chr18	67888521	67889020
MRT_670981	3.490157571	3.460650755	104.6607281	4.85E-11	8.30E-08	chr9	13181646	13182145
MRT_36199	3.488790658	2.679726898	61.57517351	1.35E-08	4.08E-06	chr1	60155380	60155879
MRT_823542	3.486151789	2.782264774	43.22185924	3.66E-07	5.17E-05	chr11	90896770	90897269
MRT_252876	3.486045671	2.939468188	73.70268927	2.18E-09	1.09E-06	chr3	66788357	66788856
MRT_84864	3.483641583	3.375001713	54.50521786	4.40E-08	1.01E-05	chr1	196619447	196619946
MRT_670970	3.4819165	3.551862548	79.84730931	9.40E-10	6.11E-07	chr9	13165583	13166082
MRT_210096	3.480600493	2.663666403	89.14775321	2.87E-10	2.79E-07	chr2	226317322	226317821
MRT_942881	3.478870083	3.156143142	81.58681779	7.47E-10	5.21E-07	chr13	111658125	111658624
MRT_1213930	3.478536935	2.828510341	83.88854972	5.55E-10	4.34E-07	chr21	30517729	30518228
MRT_1165565	3.476678145	2.679255612	83.21506944	6.05E-10	4.59E-07	chr19	40293523	40294022
MRT_875534	3.474513377	2.472599848	75.76405805	1.63E-09	8.79E-07	chr12	70078113	70078612
MRT_748446	3.473600334	2.382551706	63.53591629	9.88E-09	3.32E-06	chr10	69869744	69870243
MRT_72883	3.471747031	3.053164538	81.70423129	7.36E-10	5.19E-07	chr1	168438875	168439374
MRT_836891	3.470986854	3.110598558	73.40079205	2.27E-09	1.11E-06	chr11	121112405	121112904
MRT_962496	3.468242424	3.106467505	134.5275633	2.66E-12	1.14E-08	chr14	61614559	61615058
MRT_1023021	-3.465418967	3.841104752	11.15523213	2.35E-03	4.68E-02	chr15	95833667	95834166
MRT_990468	3.46455509	2.491377981	101.1150104	7.14E-11	1.02E-07	chr15	33418987	33419486
MRT_62229	3.460427145	3.474050187	79.22834703	1.02E-09	6.38E-07	chr1	145219048	145219547
MRT_990414	3.458330555	2.64180848	134.840614	2.59E-12	1.14E-08	chr15	33319851	33320350
MRT_142485	3.458069563	2.86669574	69.66132702	3.90E-09	1.67E-06	chr2	64906775	64907274
MRT_60439	3.457461539	2.646902156	82.54387094	6.60E-10	4.92E-07	chr1	118792820	118793319
MRT_501203	3.453698794	3.18158859	56.09943771	3.34E-08	8.15E-06	chr6	108108036	108108535
MRT_880023	3.451767241	2.654513265	92.33906534	1.96E-10	2.12E-07	chr12	81104117	81104616
MRT_119968	3.451718264	2.826326347	95.86158081	1.29E-10	1.55E-07	chr2	17981908	17982407
MRT_932027	3.450919593	2.499762926	75.13053308	1.78E-09	9.17E-07	chr13	80962593	80963092

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_320665	3.448771943	3.441779483	53.3434148	5.39E-08	1.18E-05	chr4	26240205	26240704
MRT_962528	3.445050827	2.704757395	101.1294052	7.13E-11	1.02E-07	chr14	61660264	61660763
MRT_917481	3.44451512	2.858802139	57.4161046	2.67E-08	6.97E-06	chr13	41164545	41165044
MRT_210657	3.44055285	2.869206768	41.20003417	5.54E-07	7.15E-05	chr2	227604710	227605209
MRT_55320	3.435974124	2.827878189	132.0527608	3.31E-12	1.27E-08	chr1	109139573	109140072
MRT_800218	3.435765727	3.134898403	60.63591514	1.57E-08	4.59E-06	chr11	35940598	35941097
MRT_467727	3.432365403	2.960556504	69.0900066	4.24E-09	1.79E-06	chr6	22873906	22874405
MRT_464882	3.432085971	2.758473134	70.52549534	3.43E-09	1.51E-06	chr6	17430012	17430511
MRT_354276	3.430024579	3.27057555	79.46482637	9.89E-10	6.27E-07	chr4	124334105	124334604
MRT_505606	3.428493804	2.45930434	80.01001909	9.19E-10	6.01E-07	chr6	116876934	116877433
MRT_330688	3.424865314	2.887843491	66.51351028	6.24E-09	2.35E-06	chr4	57565725	57566224
MRT_660284	3.422347834	3.118456207	63.92228262	9.30E-09	3.15E-06	chr8	136676949	136677448
MRT_210094	3.417210313	2.147042515	77.615059	1.27E-09	7.41E-07	chr2	226315670	226316169
MRT_853946	3.417049561	3.782917703	86.11465196	4.18E-10	3.65E-07	chr12	19522642	19523141
MRT_330815	3.415470418	3.17237104	168.4743285	1.77E-13	1.62E-09	chr4	57737503	57738002
MRT_424076	3.413757863	2.741390008	121.2217873	9.01E-12	2.60E-08	chr5	112293670	112294169
MRT_1213931	3.410226573	2.910554951	78.75253089	1.09E-09	6.76E-07	chr21	30518269	30518768
MRT_962357	3.405879938	3.202800643	154.4768686	5.09E-13	3.80E-09	chr14	61397837	61398336
MRT_656832	-3.405320683	3.991563705	16.3833135	3.61E-04	1.07E-02	chr8	129881853	129882352
MRT_248274	3.403878541	3.235567996	75.81045738	1.62E-09	8.79E-07	chr3	57185002	57185501
MRT_354268	3.397869187	3.05368039	65.58133394	7.19E-09	2.62E-06	chr4	124326331	124326830
MRT_326962	3.395191398	2.527549048	42.43316581	4.30E-07	5.83E-05	chr4	45349021	45349520
MRT_409109	3.392387379	2.566077206	71.50872945	2.98E-09	1.37E-06	chr5	73961748	73962247
MRT_863610	3.392134914	2.711322848	46.55689935	1.89E-07	3.13E-05	chr12	46553723	46554222
MRT_932353	3.391898046	2.498845207	67.44755277	5.42E-09	2.11E-06	chr13	81519376	81519875
MRT_582795	3.391134137	3.09652581	89.15009133	2.87E-10	2.79E-07	chr7	116753732	116754231
MRT_844396	3.385810924	3.417045696	119.3530889	1.08E-11	2.91E-08	chr12	771640	772139
MRT_265235	3.379431454	3.325697661	50.41080558	9.14E-08	1.79E-05	chr3	106545801	106546300
MRT_504807	3.378649364	3.017633346	58.08534993	2.39E-08	6.36E-06	chr6	114316792	114317291
MRT_44029	3.376878799	2.526168188	46.95183836	1.75E-07	2.96E-05	chr1	80182045	80182544

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_657529	3.372389226	3.156580963	105.8837788	4.25E-11	7.59E-08	chr8	130896016	130896515
MRT_505609	3.367972441	2.769783511	80.94300746	8.13E-10	5.54E-07	chr6	116878885	116879384
MRT_861271	3.366400061	2.484272678	44.39431072	2.89E-07	4.33E-05	chr12	41915480	41915979
MRT_60379	3.363929042	2.59824756	86.33097236	4.07E-10	3.61E-07	chr1	118687109	118687608
MRT_349544	3.363710146	2.753559148	96.18901708	1.25E-10	1.52E-07	chr4	111008504	111009003
MRT_1223841	3.3616201	3.91472978	111.5271252	2.35E-11	5.15E-08	chr22	17739015	17739514
MRT_53054	3.359277403	3.082094673	61.02544603	1.47E-08	4.37E-06	chr1	100654028	100654527
MRT_879783	3.358842609	2.881570706	38.07572315	1.08E-06	1.21E-04	chr12	80623785	80624284
MRT_407921	3.354423195	2.720661488	50.91733615	8.34E-08	1.68E-05	chr5	71723577	71724076
MRT_407894	3.353233374	2.797560646	68.69837635	4.49E-09	1.86E-06	chr5	71673612	71674111
MRT_690684	3.353135496	2.799886412	60.32846373	1.65E-08	4.80E-06	chr9	89162912	89163411
MRT_900174	3.349956812	3.729310592	159.6951881	3.40E-13	2.70E-09	chr12	122116465	122116964
MRT_880001	3.3469459	2.629159602	45.22551517	2.45E-07	3.83E-05	chr12	81073083	81073582
MRT_171201	3.346270826	3.025892316	65.60613151	7.16E-09	2.62E-06	chr2	136763459	136763958
MRT_368143	3.345850277	2.809924151	35.01740691	2.15E-06	2.04E-04	chr4	156888205	156888704
MRT_438060	3.344086121	3.109102077	75.52119371	1.69E-09	8.89E-07	chr5	141808087	141808586
MRT_1114171	3.342912294	2.718561657	88.65887841	3.05E-10	2.93E-07	chr18	6642333	6642832
MRT_142739	3.334197764	3.413719127	126.6980226	5.38E-12	1.79E-08	chr2	65258430	65258929
MRT_192507	3.333111716	2.799235553	53.4764063	5.27E-08	1.16E-05	chr2	188482583	188483082
MRT_43016	3.332441593	3.107624249	111.8367054	2.28E-11	5.15E-08	chr1	77980436	77980935
MRT_265317	3.328220387	3.217445896	50.08331594	9.71E-08	1.88E-05	chr3	106705058	106705557
MRT_44805	3.327515993	2.517975582	82.48172974	6.65E-10	4.92E-07	chr1	82628056	82628555
MRT_178982	3.326799601	3.232832824	87.65117781	3.45E-10	3.24E-07	chr2	158695499	158695998
MRT_544900	3.32673417	2.968745454	61.974558	1.26E-08	3.93E-06	chr7	27962933	27963432
MRT_267228	3.325173231	2.288606739	49.80833468	1.02E-07	1.95E-05	chr3	111468612	111469111
MRT_36195	3.320675523	2.589611798	61.50966599	1.36E-08	4.11E-06	chr1	60151801	60152300
MRT_60384	3.319282437	2.599845381	66.68836098	6.07E-09	2.30E-06	chr1	118692344	118692843
MRT_875535	3.317623715	2.505330399	54.80911987	4.17E-08	9.74E-06	chr12	70078780	70079279
MRT_512850	3.315589095	2.827614574	80.82118972	8.26E-10	5.57E-07	chr6	134788784	134789283
MRT_487390	3.312172123	2.40832433	33.17244888	3.30E-06	2.85E-04	chr6	70667839	70668338

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_879940	3.311652086	2.71067262	56.79223768	2.97E-08	7.53E-06	chr12	80947185	80947684
MRT_1023033	-3.311074317	3.988476879	12.12520856	1.63E-03	3.50E-02	chr15	95846993	95847492
MRT_252849	3.310379735	2.705733501	94.71401141	1.48E-10	1.72E-07	chr3	66742979	66743478
MRT_476160	3.309138271	2.804575497	60.25076388	1.67E-08	4.85E-06	chr6	38229745	38230244
MRT_1016256	3.30757096	2.364969789	45.67224367	2.25E-07	3.58E-05	chr15	81999233	81999732
MRT_163463	3.303243557	2.897279632	63.25517456	1.03E-08	3.44E-06	chr2	120135207	120135706
MRT_745110	3.301952424	2.945768435	66.97434844	5.82E-09	2.24E-06	chr10	61539481	61539980
MRT_264791	3.301782485	3.126545333	94.68698087	1.48E-10	1.72E-07	chr3	105656904	105657403
MRT_252881	3.299200038	2.955165435	78.0689384	1.19E-09	7.07E-07	chr3	66798974	66799473
MRT_545134	3.297780522	2.750897322	69.68830996	3.88E-09	1.67E-06	chr7	28394132	28394631
MRT_1237707	3.295445686	3.544476389	100.6033523	7.56E-11	1.05E-07	chr22	41110522	41111021
MRT_841196	3.294724144	2.859337542	49.81337624	1.02E-07	1.95E-05	chr11	129613163	129613662
MRT_89650	3.293787165	2.988866244	61.25784728	1.42E-08	4.26E-06	chr1	205329266	205329765
MRT_1165058	3.292457078	3.44649643	147.4584211	8.91E-13	5.65E-09	chr19	39353142	39353641
MRT_766843	3.286555835	3.049897355	136.0074847	2.34E-12	1.11E-08	chr10	104087350	104087849
MRT_1133397	3.286207313	2.576305986	59.35051008	1.93E-08	5.41E-06	chr18	52442087	52442586
MRT_874711	3.284601787	2.734180627	60.83020439	1.52E-08	4.46E-06	chr12	68736489	68736988
MRT_476295	3.283159564	3.127905517	44.8549656	2.64E-07	4.07E-05	chr6	38471100	38471599
MRT_875536	3.283131909	2.787340778	65.01128453	7.85E-09	2.80E-06	chr12	70079548	70080047
MRT_1004461	3.282925711	2.749165928	61.77439531	1.31E-08	4.01E-06	chr15	62745439	62745938
MRT_569590	3.282772734	2.462812799	79.71162398	9.57E-10	6.17E-07	chr7	87721685	87722184
MRT_1208540	3.281086778	2.532846182	56.45319414	3.14E-08	7.78E-06	chr21	16510693	16511192
MRT_620641	3.280579781	2.718788468	45.65983535	2.25E-07	3.58E-05	chr8	39791947	39792446
MRT_419341	3.279867294	2.346115877	47.30447082	1.64E-07	2.81E-05	chr5	97541779	97542278
MRT_512776	3.276733801	3.082761638	67.35874032	5.49E-09	2.13E-06	chr6	134669165	134669664
MRT_545089	3.275201617	2.473478652	62.1225589	1.24E-08	3.86E-06	chr7	28320163	28320662
MRT_565241	3.275020094	2.66890311	79.70159282	9.58E-10	6.17E-07	chr7	76342209	76342708
MRT_60360	3.271038751	2.738804154	81.71337762	7.35E-10	5.19E-07	chr1	118658915	118659414
MRT_1269186	3.270340753	2.649900789	65.60918566	7.16E-09	2.62E-06	chrX	128965374	128965873
MRT_210118	3.267670378	2.718761115	83.98931756	5.48E-10	4.31E-07	chr2	226351659	226352158

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_438139	3.265529838	2.961032302	120.9832609	9.22E-12	2.60E-08	chr5	141900457	141900956
MRT_879938	3.265324181	2.703425199	66.70434744	6.06E-09	2.30E-06	chr12	80944979	80945478
MRT_886068	3.264935383	3.64022647	59.72915612	1.82E-08	5.18E-06	chr12	95779035	95779534
MRT_505607	3.262452083	2.608524609	85.60702525	4.46E-10	3.77E-07	chr6	116877438	116877937
MRT_875546	3.258575735	2.50077971	65.76725936	6.99E-09	2.57E-06	chr12	70092909	70093408
MRT_565307	3.258080452	2.469106677	96.09220643	1.26E-10	1.52E-07	chr7	76573981	76574480
MRT_354513	3.254395991	3.001553502	47.07168702	1.71E-07	2.91E-05	chr4	124753250	124753749
MRT_545511	3.251795745	2.96993862	36.2114356	1.64E-06	1.65E-04	chr7	29079807	29080306
MRT_951378	3.247563141	3.176004357	50.03537066	9.80E-08	1.89E-05	chr14	35176904	35177403
MRT_409108	3.24701364	2.949765931	64.1744729	8.94E-09	3.06E-06	chr5	73961128	73961627
MRT_635443	3.242254703	2.545302124	53.85413005	4.93E-08	1.12E-05	chr8	78551815	78552314
MRT_320701	3.24019952	2.718748862	46.10471519	2.06E-07	3.33E-05	chr4	26297370	26297869
MRT_263056	3.239314353	3.164532742	78.07748352	1.19E-09	7.07E-07	chr3	100478895	100479394
MRT_853982	3.237723235	2.889024432	64.59469387	8.37E-09	2.93E-06	chr12	19562356	19562855
MRT_990463	3.237400588	2.482963044	88.06990453	3.28E-10	3.10E-07	chr15	33411375	33411874
MRT_873264	3.236852039	3.342786078	56.77207475	2.98E-08	7.54E-06	chr12	65961574	65962073
MRT_726888	3.236669176	2.506808881	86.17576025	4.15E-10	3.65E-07	chr10	14508208	14508707
MRT_106259	3.234860256	2.751624166	40.51215109	6.40E-07	8.00E-05	chr1	239775854	239776353
MRT_565239	3.233721857	2.333332977	109.7512681	2.83E-11	5.54E-08	chr7	76340893	76341392
MRT_577141	3.231946323	2.71493831	72.58953351	2.55E-09	1.22E-06	chr7	103766941	103767440
MRT_258972	3.231084897	2.684876801	75.7807097	1.63E-09	8.79E-07	chr3	82120794	82121293
MRT_60359	3.230646597	2.554139944	69.0787648	4.25E-09	1.79E-06	chr1	118658085	118658584
MRT_931710	3.229453186	2.710561791	59.06112153	2.03E-08	5.57E-06	chr13	80370204	80370703
MRT_953039	3.228260037	2.637442858	31.56316551	4.86E-06	0.000383270909	chr14	38875038	38875537
MRT_487377	3.228191246	2.759875829	30.14584434	6.90E-06	5.00E-04	chr6	70623918	70624417
MRT_438052	3.227842936	3.22973788	132.4911617	3.18E-12	1.26E-08	chr5	141800801	141801300
MRT_97845	3.22604001	2.72508962	83.49680063	5.83E-10	4.48E-07	chr1	223380977	223381476
MRT_122984	3.223643344	2.775461568	75.28895705	1.74E-09	9.07E-07	chr2	24631939	24632438
MRT_290385	3.223058201	3.412943428	37.60363195	1.20E-06	1.31E-04	chr3	159719500	159719999
MRT_210594	3.218065727	2.512701465	44.32368032	2.93E-07	4.37E-05	chr2	227488185	227488684

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_343015	3.217737191	2.410734006	29.93128992	7.28E-06	5.22E-04	chr4	91352212	91352711
MRT_349071	3.215362786	2.577684382	55.5363326	3.68E-08	8.81E-06	chr4	109975849	109976348
MRT_656830	-3.214637675	3.610452721	11.12144789	2.38E-03	4.73E-02	chr8	129879499	129879998
MRT_97806	3.208410674	3.103512615	84.11223792	5.39E-10	4.29E-07	chr1	223313936	223314435
MRT_409107	3.208055631	2.702432707	69.41774658	4.04E-09	1.72E-06	chr5	73960443	73960942
MRT_22148	3.206942884	2.425935028	46.30512545	1.98E-07	3.24E-05	chr1	35149595	35150094
MRT_932175	3.20539842	2.596023691	79.50054663	9.84E-10	6.27E-07	chr13	81205278	81205777
MRT_258928	3.204320691	2.657224011	68.16022504	4.87E-09	1.97E-06	chr3	82051506	82052005
MRT_268933	3.20387087	2.848552551	78.605012	1.11E-09	6.83E-07	chr3	114618322	114618821
MRT_374164	3.202696876	2.423134605	63.96798397	9.23E-09	3.14E-06	chr4	173977924	173978423
MRT_854996	3.201597859	2.419127765	40.55627896	6.35E-07	7.95E-05	chr12	21704770	21705269
MRT_743170	3.188695497	2.519158075	38.98434127	8.87E-07	1.04E-04	chr10	53746216	53746715
MRT_510799	3.186614068	2.699613945	52.35170902	6.43E-08	1.36E-05	chr6	130992537	130993036
MRT_422697	3.185923354	2.688846323	43.12733515	3.73E-07	5.23E-05	chr5	108981506	108982005
MRT_967742	3.185780976	2.80452697	43.46802621	3.48E-07	4.99E-05	chr14	71255522	71256021
MRT_504209	3.180913396	2.721636721	43.21388747	3.66E-07	5.17E-05	chr6	113203017	113203516
MRT_294133	3.180400923	2.456370006	32.7779879	3.63E-06	0.000307110264	chr3	171041779	171042278
MRT_752099	3.175692032	2.9112681	60.41998673	1.62E-08	4.74E-06	chr10	75193189	75193688
MRT_258683	3.17481432	2.554884951	52.56171043	6.19E-08	1.32E-05	chr3	81443742	81444241
MRT_252842	3.17312815	2.371890802	75.76578006	1.63E-09	8.79E-07	chr3	66725676	66726175
MRT_476218	3.170757236	2.948738133	50.71906153	8.64E-08	1.72E-05	chr6	38325791	38326290
MRT_544997	3.169057281	2.741600773	53.12233814	5.61E-08	1.22E-05	chr7	28125844	28126343
MRT_319034	3.167967071	3.246837967	43.12056628	3.73E-07	5.23E-05	chr4	22681171	22681670
MRT_213718	3.166314442	3.983666257	97.62503107	1.06E-10	1.38E-07	chr2	233390331	233390830
MRT_44988	3.166084846	2.476128431	63.23983911	1.03E-08	3.44E-06	chr1	83310949	83311448
MRT_879949	3.165747137	3.056345678	28.39923283	1.07E-05	7.00E-04	chr12	80958911	80959410
MRT_579077	3.165163239	2.624077158	66.42846094	6.32E-09	2.38E-06	chr7	107334730	107335229
MRT_512743	3.163971339	3.388431755	101.9901341	6.48E-11	9.73E-08	chr6	134609822	134610321
MRT_932174	3.162708616	2.907412349	82.45091271	6.68E-10	4.92E-07	chr13	81204648	81205147
MRT_921976	3.159459888	2.262120394	42.40600553	4.32E-07	5.85E-05	chr13	49520284	49520783

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1179805	3.15879077	2.786107542	52.20481793	6.60E-08	1.39E-05	chr20	5716573	5717072
MRT_1016369	3.154380581	2.794756118	38.74735281	9.34E-07	1.08E-04	chr15	82207288	82207787
MRT_1050594	3.151409268	2.618932209	36.20578197	1.64E-06	0.000164994292	chr16	64898025	64898524
MRT_1268899	3.151279967	2.420333572	48.07855623	1.41E-07	2.54E-05	chrX	128242865	128243364
MRT_435089	3.149888132	2.919942236	29.51686641	8.08E-06	0.000563413706	chr5	137170295	137170794
MRT_96188	3.146397113	2.543879343	27.90362633	1.22E-05	7.68E-04	chr1	219617753	219618252
MRT_570111	3.144980329	2.501484781	80.53262594	8.58E-10	5.73E-07	chr7	89866126	89866625
MRT_318956	3.14229252	2.968050643	37.48406871	1.23E-06	0.000133702946	chr4	22532762	22533261
MRT_187243	3.138686428	3.51178364	75.29234197	1.74E-09	9.07E-07	chr2	175629008	175629507
MRT_438051	3.138356453	3.248975752	105.0843451	4.63E-11	8.07E-08	chr5	141800115	141800614
MRT_776453	3.138242961	3.093350379	100.834584	7.36E-11	1.04E-07	chr10	123803594	123804093
MRT_854376	3.137448398	3.171204196	34.5411381	2.40E-06	0.000222178569	chr12	20098642	20099141
MRT_565265	3.137185028	2.086559339	88.48036874	1.00E-09	6.32E-07	chr7	76483686	76484185
MRT_929519	3.136968823	2.279733807	47.60733819	1.55E-07	2.70E-05	chr13	75012851	75013350
MRT_438113	3.136775197	3.224750501	159.8850491	3.35E-13	2.70E-09	chr5	141870742	141871241
MRT_145294	3.136600785	2.937402652	33.64956538	2.95E-06	2.61E-04	chr2	69480982	69481481
MRT_738063	3.136301354	2.76572464	46.39602351	1.95E-07	3.20E-05	chr10	36223470	36223969
MRT_884267	3.136293311	3.070779056	68.74976195	4.46E-09	1.85E-06	chr12	92859977	92860476
MRT_354269	3.13542902	3.199370731	62.37630191	1.19E-08	3.75E-06	chr4	124327990	124328489
MRT_294174	3.135312432	2.600459943	59.48216099	1.89E-08	5.31E-06	chr3	171110695	171111194
MRT_354424	3.134721376	2.838803363	62.8349867	1.10E-08	3.60E-06	chr4	124572235	124572734
MRT_510416	3.134226523	2.683260596	85.4441271	4.55E-10	3.82E-07	chr6	130106221	130106720
MRT_1213929	3.133911317	2.509047434	63.986257	9.20E-09	3.14E-06	chr21	30516982	30517481
MRT_191084	3.133726547	2.403356798	32.46098134	3.91E-06	3.24E-04	chr2	184530061	184530560
MRT_379307	3.131946509	2.695129855	39.47834943	7.98E-07	9.55E-05	chr4	186488407	186488906
MRT_171219	3.130839396	2.651117646	36.54872463	1.52E-06	1.57E-04	chr2	136789228	136789727
MRT_505600	3.130335917	2.363911002	67.67150283	5.24E-09	2.07E-06	chr6	116864253	116864752
MRT_512760	3.129474384	2.682997336	91.11598586	2.26E-10	2.39E-07	chr6	134638085	134638584
MRT_473707	3.129426325	2.874431027	85.23480055	4.67E-10	3.85E-07	chr6	34697579	34698078
MRT_374269	3.128667894	2.755011449	75.52698	1.69E-09	8.89E-07	chr4	174185776	174186275

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_45205	3.127903776	2.742447817	51.69208018	7.24E-08	1.50E-05	chr1	83998286	83998785
MRT_636318	3.127338885	2.458768507	68.81423522	4.42E-09	1.84E-06	chr8	81121895	81122394
MRT_487452	3.126147284	2.647931031	29.00833335	9.19E-06	6.19E-04	chr6	70820232	70820731
MRT_119985	3.12515685	2.84971906	61.21024733	1.43E-08	4.29E-06	chr2	18003314	18003813
MRT_209999	3.124173696	2.52845265	71.04622132	3.18E-09	1.43E-06	chr2	226060859	226061358
MRT_1043598	3.123449374	2.625688437	51.54239784	7.44E-08	1.53E-05	chr16	48037067	48037566
MRT_565272	3.121932014	1.9713826	71.5195591	3.34E-08	8.15E-06	chr7	76496498	76496997
MRT_478046	3.121268884	2.643240044	76.76564386	1.42E-09	8.06E-07	chr6	41975423	41975922
MRT_1029214	3.121205235	3.062850846	74.26895831	2.01E-09	1.01E-06	chr16	4000285	4000784
MRT_748442	3.11969803	2.520235709	45.56414807	2.29E-07	3.64E-05	chr10	69865526	69866025
MRT_271579	3.119038213	2.888159085	62.67824798	1.13E-08	3.64E-06	chr3	121475856	121476355
MRT_192183	3.118651998	2.519946851	43.45080689	3.49E-07	4.99E-05	chr2	187944855	187945354
MRT_354551	3.118499093	2.151559659	73.52463183	2.23E-09	1.10E-06	chr4	124834419	124834918
MRT_326867	3.116962673	2.492611387	31.17324928	5.35E-06	4.11E-04	chr4	45065782	45066281
MRT_374156	3.11541907	2.356001662	89.70769244	2.68E-10	2.71E-07	chr4	173960335	173960834
MRT_157346	3.111641678	2.413331972	64.9714272	7.90E-09	2.81E-06	chr2	103509248	103509747
MRT_873287	3.11066817	2.871151986	109.7104059	2.84E-11	5.54E-08	chr12	65987328	65987827
MRT_873286	3.109169021	2.812556796	77.9158432	1.22E-09	7.18E-07	chr12	65986473	65986972
MRT_1269820	3.10860157	2.219220416	54.17774742	4.65E-08	1.07E-05	chrX	131967233	131967732
MRT_476229	3.108167142	2.954861801	40.84744623	5.97E-07	7.59E-05	chr6	38338974	38339473
MRT_260027	3.106790124	2.54122645	23.08001267	4.56E-05	2.12E-03	chr3	86904418	86904917
MRT_258945	3.104671433	2.807607626	35.73191292	1.82E-06	1.80E-04	chr3	82079953	82080452
MRT_688790	3.104161311	2.467852543	39.72259961	7.57E-07	9.12E-05	chr9	84977966	84978465
MRT_43015	3.103830216	3.041804545	56.73783617	2.99E-08	7.55E-06	chr1	77979795	77980294
MRT_149194	3.102958615	2.337750679	33.98639923	2.73E-06	2.45E-04	chr2	76705709	76706208
MRT_859791	3.101263768	2.959760196	59.30609369	1.95E-08	5.43E-06	chr12	32654795	32655294
MRT_21624	3.098305081	2.653030697	81.6536873	7.41E-10	5.19E-07	chr1	33854868	33855367
MRT_354553	3.093658679	2.266343742	74.55782438	1.93E-09	9.72E-07	chr4	124836809	124837308
MRT_512756	3.093424902	2.781371277	103.0616892	5.76E-11	9.30E-08	chr6	134630461	134630960
MRT_568692	3.092206643	2.571335028	28.60354323	1.02E-05	0.000670230894	chr7	84916425	84916924

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_354538	3.091036496	2.63079369	45.50751047	2.32E-07	3.67E-05	chr4	124797734	124798233
MRT_880014	3.089459706	2.693667373	34.46248242	2.44E-06	2.25E-04	chr12	81092682	81093181
MRT_726890	3.089336526	2.613410655	80.86722725	8.21E-10	5.57E-07	chr10	14509955	14510454
MRT_1047172	3.088057351	2.225997102	66.83383427	5.94E-09	2.27E-06	chr16	54924243	54924742
MRT_873282	3.087220894	3.457284163	38.73798671	9.36E-07	1.08E-04	chr12	65983637	65984136
MRT_836890	3.086130058	2.873703284	60.15766444	1.70E-08	4.90E-06	chr11	121111470	121111969
MRT_203011	3.084022504	2.422441814	35.92332079	1.75E-06	1.74E-04	chr2	211257040	211257539
MRT_141947	3.082178384	2.66538154	52.08069986	6.75E-08	1.41E-05	chr2	63969646	63970145
MRT_893276	3.081689861	3.237342164	72.66881485	2.52E-09	1.21E-06	chr12	110386761	110387260
MRT_1001995	3.078990461	2.937280221	75.7747086	1.63E-09	8.79E-07	chr15	57537223	57537722
MRT_60311	3.078833126	2.545687503	73.63960893	2.20E-09	1.09E-06	chr1	118565769	118566268
MRT_351402	3.077087769	2.170460724	46.89707417	1.77E-07	2.99E-05	chr4	115239248	115239747
MRT_45650	3.073427246	3.562597526	68.12297388	4.89E-09	1.98E-06	chr1	84766912	84767411
MRT_326819	3.072390279	2.926476075	36.92772391	1.39E-06	1.47E-04	chr4	44930140	44930639
MRT_880018	3.071842461	3.254258502	32.89091085	3.53E-06	3.01E-04	chr12	81096729	81097228
MRT_44109	3.069638732	2.363521671	29.26682475	8.61E-06	0.000588676064	chr1	80435489	80435988
MRT_209974	3.065554754	2.730623849	69.63876462	3.91E-09	1.67E-06	chr2	225982023	225982522
MRT_290277	3.065467151	3.302703309	59.26361154	1.96E-08	5.45E-06	chr3	159557469	159557968
MRT_119980	3.064461013	2.767746176	86.72868414	3.87E-10	3.57E-07	chr2	17996823	17997322
MRT_202623	3.064174325	3.075057457	31.31710718	5.16E-06	0.000401237512	chr2	210336924	210337423
MRT_123004	3.063273496	2.876862368	93.44014853	1.72E-10	1.91E-07	chr2	24658692	24659191
MRT_929229	3.062806217	3.216410991	42.76012194	4.02E-07	5.53E-05	chr13	74340031	74340530
MRT_319033	3.062269551	3.180501983	28.05246021	1.18E-05	7.45E-04	chr4	22680610	22681109
MRT_503471	3.059978972	3.000837964	113.8994438	1.85E-11	4.27E-08	chr6	111862161	111862660
MRT_932073	3.058487408	2.559580322	84.71291859	4.99E-10	4.03E-07	chr13	81043245	81043744
MRT_407925	3.052361183	2.392157368	38.12697809	1.07E-06	1.20E-04	chr5	71729699	71730198
MRT_152353	3.051257916	2.627149684	40.0499588	7.06E-07	8.63E-05	chr2	88366698	88367197
MRT_1198765	3.050633252	3.014030446	78.67661917	1.10E-09	6.80E-07	chr20	47961493	47961992
MRT_1119644	3.050299249	2.581136468	45.60521254	2.28E-07	3.62E-05	chr18	20500950	20501449
MRT_620726	3.049960619	2.840521956	36.24891633	1.62E-06	1.64E-04	chr8	39939090	39939589

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_505601	3.049768013	2.376733115	78.17413731	1.18E-09	7.06E-07	chr6	116865315	116865814
MRT_938342	3.049693232	2.996842114	67.20395499	5.62E-09	2.17E-06	chr13	99591802	99592301
MRT_141941	3.047990944	2.705224065	62.82017827	1.11E-08	3.60E-06	chr2	63962976	63963475
MRT_908775	3.047316426	2.422004842	53.68477935	5.08E-08	1.14E-05	chr13	24024360	24024859
MRT_265421	3.046285735	3.749451505	38.96077726	8.92E-07	1.04E-04	chr3	106861508	106862007
MRT_545512	3.044638944	2.535137111	62.39601482	1.18E-08	3.75E-06	chr7	29081502	29082001
MRT_503509	3.04413847	3.223699967	110.5265198	2.61E-11	5.34E-08	chr6	111914121	111914620
MRT_44916	3.043803256	2.449250103	52.56328856	6.19E-08	1.32E-05	chr1	83030802	83031301
MRT_726780	3.043399562	2.579330649	61.75426577	1.31E-08	4.01E-06	chr10	14302168	14302667
MRT_504206	3.041484732	4.043031724	39.36052165	8.18E-07	9.74E-05	chr6	113201004	113201503
MRT_374148	3.04105369	2.49244175	57.16790395	2.78E-08	7.21E-06	chr4	173951304	173951803
MRT_1197007	3.040886306	2.440612385	64.75361255	8.17E-09	2.87E-06	chr20	45249603	45250102
MRT_330708	3.039937064	2.760841647	72.99536897	2.41E-09	1.17E-06	chr4	57591918	57592417
MRT_766839	3.039314515	3.088130457	168.3836145	1.78E-13	1.62E-09	chr10	104083702	104084201
MRT_320128	3.039128437	3.350101984	66.22866414	6.51E-09	2.43E-06	chr4	25502306	25502805
MRT_252323	3.038614392	2.993947365	76.92684058	1.39E-09	7.92E-07	chr3	65857352	65857851
MRT_1139685	3.038472064	2.467749841	45.55976055	2.30E-07	3.64E-05	chr18	67889099	67889598
MRT_990473	3.03729546	2.58396786	82.30714476	6.80E-10	4.99E-07	chr15	33430203	33430702
MRT_490859	3.036833111	2.235542133	51.9305602	6.94E-08	1.44E-05	chr6	80274429	80274928
MRT_617335	3.036716678	2.667360043	36.53499719	1.52E-06	0.000157215551	chr8	31805772	31806271
MRT_548886	3.035847056	3.370263333	26.85738285	1.61E-05	9.45E-04	chr7	35756010	35756509
MRT_187242	3.035671363	2.81047453	64.43412378	8.58E-09	2.97E-06	chr2	175628088	175628587
MRT_880021	3.034312029	2.592847367	50.6289989	8.79E-08	1.74E-05	chr12	81101830	81102329
MRT_613481	3.033794586	2.209599368	56.37028496	3.19E-08	7.86E-06	chr8	23824607	23825106
MRT_92061	3.033594388	2.666323523	27.73254616	1.28E-05	7.95E-04	chr1	210612105	210612604
MRT_318957	3.032744354	2.611458818	35.20888738	2.05E-06	1.97E-04	chr4	22533700	22534199
MRT_853983	3.031715031	3.53888333	47.72000164	1.51E-07	2.65E-05	chr12	19563091	19563590
MRT_60347	3.031447166	2.584115023	86.69267426	3.89E-10	3.57E-07	chr1	118642231	118642730
MRT_296130	3.030668829	2.496019795	50.97401966	8.25E-08	1.67E-05	chr3	174867967	174868466
MRT_652453	3.03040055	2.45644471	47.20045791	1.67E-07	2.85E-05	chr8	120921066	120921565

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_258953	3.030158631	2.288043992	65.04376821	7.81E-09	2.79E-06	chr3	82092905	82093404
MRT_325012	3.030042143	2.733628161	62.75196422	1.12E-08	3.63E-06	chr4	40187602	40188101
MRT_879800	3.029416556	2.171635733	48.04827508	1.42E-07	2.55E-05	chr12	80656068	80656567
MRT_1016238	3.028824429	2.289086611	44.70724098	2.72E-07	4.16E-05	chr15	81953325	81953824
MRT_210069	3.026429839	2.375989729	66.07021825	6.67E-09	2.47E-06	chr2	226265353	226265852
MRT_265242	3.026126484	3.18851492	43.24543754	3.64E-07	5.16E-05	chr3	106558659	106559158
MRT_361469	3.023274583	2.78198819	64.39251601	8.64E-09	2.99E-06	chr4	143300238	143300737
MRT_688829	3.021786882	2.74372877	36.05742771	1.69E-06	1.70E-04	chr9	85103912	85104411
MRT_60310	3.019923981	2.409571489	67.91273754	5.05E-09	2.03E-06	chr1	118565087	118565586
MRT_476332	3.01906627	2.482291321	80.22454821	8.94E-10	5.90E-07	chr6	38535122	38535621
MRT_354280	3.018737028	3.009513351	45.66049237	2.25E-07	3.58E-05	chr4	124338922	124339421
MRT_260969	3.018504385	2.664053148	28.87796692	9.51E-06	6.35E-04	chr3	90082053	90082552
MRT_942901	3.018216502	2.646150517	70.48062605	3.46E-09	1.51E-06	chr13	111689836	111690335
MRT_680884	3.014708308	3.970738611	77.13283343	1.35E-09	7.81E-07	chr9	36163460	36163959
MRT_45029	3.014462231	2.337278937	41.70446771	4.99E-07	6.61E-05	chr1	83449224	83449723
MRT_260926	3.010766279	2.234900597	46.11072264	2.06E-07	3.33E-05	chr3	89908677	89909176
MRT_508782	3.010072828	2.497859347	36.26827235	1.61E-06	1.64E-04	chr6	125425486	125425985
MRT_44067	3.009329377	2.513037628	46.22157012	2.02E-07	3.29E-05	chr1	80313337	80313836
MRT_932238	3.00850241	3.317360412	39.52743959	7.90E-07	9.46E-05	chr13	81328388	81328887
MRT_1094109	3.008097136	2.268394828	48.53930216	1.30E-07	2.36E-05	chr17	54003903	54004402
MRT_354438	3.007661802	2.634750635	53.19379754	5.54E-08	1.21E-05	chr4	124597961	124598460
MRT_957900	3.007056003	2.590575835	43.99786678	3.13E-07	4.58E-05	chr14	53301196	53301695
MRT_885547	3.006660883	2.890579898	46.78554345	1.81E-07	3.04E-05	chr12	95008110	95008609
MRT_669756	3.003973996	2.290075288	33.34356333	3.17E-06	0.000275679787	chr9	9112068	9112567
MRT_704412	3.003657291	3.094819321	51.60728531	7.35E-08	1.52E-05	chr9	116384223	116384722
MRT_932052	3.003199644	3.747145074	25.71266046	2.19E-05	0.001207797174	chr13	81010564	81011063
MRT_844437	3.003105332	3.066515219	51.10492634	8.05E-08	1.64E-05	chr12	831463	831962
MRT_106165	3.000858062	3.086243232	52.86299495	5.87E-08	1.26E-05	chr1	239549633	239550132
MRT_748443	2.99929011	2.426571753	41.13534173	5.62E-07	7.21E-05	chr10	69866349	69866848
MRT_505602	2.998982987	2.450393941	56.59735481	3.07E-08	7.61E-06	chr6	116866652	116867151

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_841197	2.998546388	2.778039174	43.80593756	3.25E-07	4.73E-05	chr11	129613670	129614169
MRT_738625	2.997768933	2.391763952	59.64658617	1.84E-08	5.21E-06	chr10	37297219	37297718
MRT_620728	2.997644604	2.313457305	41.21344583	5.53E-07	7.15E-05	chr8	39941491	39941990
MRT_1050595	2.997423225	2.509491907	38.63297697	9.57E-07	0.000109693023	chr16	64898899	64899398
MRT_669779	2.997123822	2.32418637	30.53892084	6.26E-06	4.63E-04	chr9	9170701	9171200
MRT_1168190	2.997112	2.941267409	68.44649037	4.66E-09	1.91E-06	chr19	45276103	45276602
MRT_376909	2.996623967	2.496071925	38.56928736	9.71E-07	1.11E-04	chr4	182156249	182156748
MRT_740782	2.996575941	3.355511167	185.1594767	5.53E-14	8.06E-10	chr10	45915807	45916306
MRT_116062	2.996425285	2.815628195	98.75988388	9.29E-11	1.23E-07	chr2	10342902	10343401
MRT_748459	2.996135611	2.707062605	35.26875844	2.03E-06	0.000194119007	chr10	69895840	69896339
MRT_209916	2.996109837	2.730133357	63.86206637	9.38E-09	3.17E-06	chr2	225848704	225849203
MRT_1154420	2.993969022	2.880390413	108.1097137	3.36E-11	6.30E-08	chr19	15813395	15813894
MRT_748471	2.993803028	3.065385855	43.39098774	3.53E-07	5.03E-05	chr10	69913245	69913744
MRT_265422	2.993475508	4.038979746	27.56272609	1.34E-05	8.22E-04	chr3	106862021	106862520
MRT_265468	2.991846291	3.426615795	36.83462478	1.42E-06	1.49E-04	chr3	106931061	106931560
MRT_60348	2.991278145	2.77269154	65.55924188	7.22E-09	2.62E-06	chr1	118643604	118644103
MRT_487391	2.99110547	2.332933583	24.09062756	3.43E-05	1.69E-03	chr6	70670686	70671185
MRT_541834	2.990862599	2.874331808	84.99645054	4.82E-10	3.94E-07	chr7	22485010	22485509
MRT_536148	2.988087509	2.546550589	47.04877072	1.72E-07	2.92E-05	chr7	7772605	7773104
MRT_343177	2.987333862	2.765539253	35.11467745	2.10E-06	0.000200341393	chr4	91879540	91880039
MRT_861166	2.987107677	2.984481608	21.73672192	6.74E-05	2.89E-03	chr12	41681837	41682336
MRT_290271	2.986483511	2.640896314	52.89042468	5.84E-08	1.26E-05	chr3	159546784	159547283
MRT_419434	2.986470112	2.316735519	38.71933649	9.40E-07	1.08E-04	chr5	97846276	97846775
MRT_36200	2.985540263	2.760624883	55.05523412	3.99E-08	9.43E-06	chr1	60155961	60156460
MRT_210177	2.985107472	2.352548403	84.50864918	5.12E-10	4.11E-07	chr2	226479635	226480134
MRT_873283	2.98439563	3.601318961	34.36738337	2.49E-06	2.28E-04	chr12	65984179	65984678
MRT_106318	2.982656203	2.496749645	37.17820047	1.32E-06	0.000141379638	chr1	239927591	239928090
MRT_1094208	2.982586294	2.956274443	49.80716111	1.02E-07	1.95E-05	chr17	54249997	54250496
MRT_1176536	-2.980836311	3.433542213	12.81302915	1.26E-03	2.86E-02	chr20	259593	260092
MRT_260963	2.977321451	2.400078912	28.28177482	1.11E-05	7.15E-04	chr3	90065018	90065517

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_836959	2.97621745	2.783884001	37.96024251	1.11E-06	1.23E-04	chr11	121237625	121238124
MRT_36182	2.975752501	3.022250962	32.92818081	3.50E-06	0.000298103943	chr1	60135405	60135904
MRT_60357	2.975537001	2.407198066	70.06917732	3.67E-09	1.59E-06	chr1	118655820	118656319
MRT_36192	2.975195783	2.718992572	61.65094432	1.33E-08	4.06E-06	chr1	60148138	60148637
MRT_368142	2.973862936	2.577476243	27.28711383	1.44E-05	0.000868936645	chr4	156887275	156887774
MRT_565289	2.972564386	2.288421632	62.65080875	1.14E-08	3.64E-06	chr7	76541216	76541715
MRT_931783	2.969900269	2.472869005	33.185358	3.29E-06	2.85E-04	chr13	80492825	80493324
MRT_43017	2.969052055	3.126068985	70.58640152	3.40E-09	1.50E-06	chr1	77981045	77981544
MRT_760278	2.966448786	2.884333657	30.71886749	5.98E-06	4.48E-04	chr10	92690093	92690592
MRT_962575	2.965794225	2.677645228	62.43093284	1.18E-08	3.74E-06	chr14	61725770	61726269
MRT_135443	2.964400649	2.446932345	50.85474197	8.43E-08	1.70E-05	chr2	47359239	47359738
MRT_1007180	2.96365218	3.121932045	129.7825941	4.06E-12	1.47E-08	chr15	66661980	66662479
MRT_290272	2.96303745	2.612765002	44.32751897	2.93E-07	4.37E-05	chr3	159547369	159547868
MRT_464815	2.962928158	2.941431877	36.9567519	1.38E-06	0.000146411344	chr6	17289829	17290328
MRT_209913	2.960104867	2.623304257	65.09073873	7.75E-09	2.78E-06	chr2	225846916	225847415
MRT_264792	2.960022187	2.539686506	61.88786718	1.28E-08	3.97E-06	chr3	105657669	105658168
MRT_487449	2.960006697	2.470156999	43.53241203	3.44E-07	4.94E-05	chr6	70817519	70818018
MRT_1134336	2.958902461	2.288620982	64.2139196	8.88E-09	3.06E-06	chr18	54057518	54058017
MRT_46486	2.958870128	2.560240603	50.74772078	8.60E-08	1.72E-05	chr1	86650012	86650511
MRT_464824	2.958276331	2.863515185	40.73209121	6.11E-07	7.73E-05	chr6	17305394	17305893
MRT_119958	2.952653986	2.906961721	72.38430409	2.63E-09	1.24E-06	chr2	17972297	17972796
MRT_476428	2.952421176	2.651178048	57.78855265	2.51E-08	6.63E-06	chr6	38697890	38698389
MRT_1079883	2.952009631	2.785510047	65.49448332	7.29E-09	2.63E-06	chr17	28053822	28054321
MRT_659906	2.952006669	2.922180871	39.9051546	7.28E-07	8.86E-05	chr8	135746841	135747340
MRT_669620	2.949226257	2.301636819	46.56751208	1.89E-07	3.13E-05	chr9	8733529	8734028
MRT_690763	2.945641273	2.559680468	44.42024663	2.88E-07	4.31E-05	chr9	89284263	89284762
MRT_679432	2.944696939	2.626713655	25.11740194	2.58E-05	0.001367042174	chr9	33633558	33634057
MRT_839583	2.941312528	2.940145143	59.55964544	1.87E-08	5.27E-06	chr11	126004353	126004852
MRT_544941	2.940980749	2.517305785	37.13020257	1.33E-06	0.000142533090	chr7	28034303	28034802
MRT_706731	2.940071345	2.448335137	43.43592465	3.50E-07	5.00E-05	chr9	122099512	122100011

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_565292	2.939333815	2.13459083	50.38326308	9.19E-08	1.80E-05	chr7	76543392	76543891
MRT_252879	2.939065054	2.517285921	42.86351187	3.93E-07	5.47E-05	chr3	66797453	66797952
MRT_361455	2.939012835	3.047134278	71.17126896	3.13E-09	1.41E-06	chr4	143271994	143272493
MRT_854998	2.937150246	2.321446284	29.94164087	7.26E-06	5.21E-04	chr12	21706054	21706553
MRT_510797	2.935493466	2.528771121	38.79386349	9.25E-07	0.000106802097	chr6	130991249	130991748
MRT_881833	2.935335694	2.015241033	43.80266907	3.25E-07	4.73E-05	chr12	87923049	87923548
MRT_326961	2.933409203	2.171664646	33.20581533	3.28E-06	2.84E-04	chr4	45348423	45348922
MRT_962527	2.933268748	2.420151396	115.1777137	1.63E-11	3.83E-08	chr14	61659440	61659939
MRT_919101	2.931757525	2.61850916	20.70048642	9.18E-05	3.67E-03	chr13	43874894	43875393
MRT_881937	2.930526531	2.241359829	44.54458496	2.80E-07	4.25E-05	chr12	88316361	88316860
MRT_504220	2.930453043	3.217404422	26.71429541	1.67E-05	0.000975985527	chr6	113233089	113233588
MRT_796231	2.930372429	3.462741968	34.05872927	2.68E-06	2.42E-04	chr11	27217908	27218407
MRT_582796	2.92995782	2.775502687	70.72440358	3.34E-09	1.48E-06	chr7	116754360	116754859
MRT_917732	2.929417811	3.253930749	99.84216664	8.23E-11	1.12E-07	chr13	41560422	41560921
MRT_544939	2.927297833	2.023123892	40.71980072	6.13E-07	7.74E-05	chr7	28031652	28032151
MRT_343116	2.926034946	2.450934473	30.02617705	7.11E-06	5.12E-04	chr4	91640088	91640587
MRT_141943	2.925138195	3.14371891	51.44102205	7.58E-08	1.56E-05	chr2	63964135	63964634
MRT_704411	2.923074519	3.585341338	39.41846	8.08E-07	9.65E-05	chr9	116383647	116384146
MRT_171218	2.922490132	2.537993742	32.11227171	4.26E-06	3.47E-04	chr2	136788393	136788892
MRT_183930	2.920572073	3.206785071	31.55125061	4.88E-06	3.84E-04	chr2	169769426	169769925
MRT_408022	2.919330616	2.25755785	43.94118899	3.16E-07	4.62E-05	chr5	71900580	71901079
MRT_119962	2.918957263	2.680364911	63.29999953	1.02E-08	3.44E-06	chr2	17975343	17975842
MRT_326934	2.918721155	2.655665589	24.68107749	2.91E-05	0.001490905152	chr4	45282068	45282567
MRT_881942	2.91753559	2.216654452	35.81252899	1.79E-06	0.000177881404	chr12	88324005	88324504
MRT_1050479	2.917292397	2.502751875	32.52726739	3.85E-06	3.21E-04	chr16	64509841	64510340
MRT_374146	2.916820642	2.466391388	75.75491701	1.64E-09	8.79E-07	chr4	173945202	173945701
MRT_858306	2.91600993	2.430038377	66.21234613	6.53E-09	2.43E-06	chr12	29862866	29863365
MRT_636004	2.913407904	3.057068051	47.65910343	1.53E-07	2.68E-05	chr8	80675102	80675601
MRT_85760	2.912358267	2.380440287	52.90265042	5.83E-08	1.26E-05	chr1	198818126	198818625
MRT_354437	2.910630571	2.666122285	42.85967452	3.94E-07	5.47E-05	chr4	124596694	124597193

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_354281	2.909902768	3.883078831	27.95017148	1.21E-05	0.000760154803	chr4	124339562	124340061
MRT_354436	2.909492829	2.608226837	38.84438586	9.15E-07	1.06E-04	chr4	124596157	124596656
MRT_106682	2.908883706	2.729000516	27.0240599	1.54E-05	0.000913180706	chr1	240824004	240824503
MRT_958016	2.908778835	2.168552212	32.61866853	3.77E-06	3.15E-04	chr14	53444486	53444985
MRT_372447	2.908678018	2.831693373	56.04368231	3.37E-08	8.20E-06	chr4	169453095	169453594
MRT_326866	2.908630942	2.451253003	29.5788039	7.95E-06	5.57E-04	chr4	45064995	45065494
MRT_294018	2.908279697	3.140465323	28.36324141	1.09E-05	7.05E-04	chr3	170833437	170833936
MRT_487376	2.907627524	2.461543288	20.33556192	1.03E-04	0.00399442422	chr6	70617922	70618421
MRT_853965	2.906619123	3.114017153	71.49235047	2.99E-09	1.37E-06	chr12	19540984	19541483
MRT_880051	2.901606725	2.439493992	36.89924588	1.40E-06	1.48E-04	chr12	81143341	81143840
MRT_447693	2.90140697	2.467118909	31.8690896	4.51E-06	0.000362560654	chr5	163788941	163789440
MRT_89705	2.90137253	3.630706221	68.54050522	4.60E-09	1.89E-06	chr1	205414139	205414638
MRT_836870	2.900995184	2.188950402	36.81493237	1.43E-06	0.000149495852	chr11	121077356	121077855
MRT_538877	2.900925858	2.844487882	42.78207755	4.00E-07	5.53E-05	chr7	15376875	15377374
MRT_816343	2.898770199	2.701899277	41.68528773	5.01E-07	6.62E-05	chr11	74155446	74155945
MRT_861193	2.893972684	2.527331345	29.23095253	8.69E-06	5.93E-04	chr12	41738811	41739310
MRT_794655	2.893612114	2.550798304	31.10175304	5.44E-06	4.17E-04	chr11	22577551	22578050
MRT_931678	2.892504143	3.528523166	16.85223069	3.09E-04	9.49E-03	chr13	80297811	80298310
MRT_990518	2.891578683	2.511796295	59.64469679	1.84E-08	5.21E-06	chr15	33518649	33519148
MRT_635429	2.890777904	2.350466225	43.63441087	3.37E-07	4.86E-05	chr8	78521458	78521957
MRT_46749	2.889772908	2.951449444	31.6511604	4.76E-06	0.000377489932	chr1	87258880	87259379
MRT_512721	2.887886517	2.583565099	50.70972999	8.66E-08	1.72E-05	chr6	134570389	134570888
MRT_932311	2.886255074	2.813942427	29.75521808	7.61E-06	5.38E-04	chr13	81448522	81449021
MRT_296613	2.885304902	2.667722988	45.65998965	2.25E-07	3.58E-05	chr3	176376416	176376915
MRT_227566	2.884788473	3.159272144	41.13719232	5.62E-07	7.21E-05	chr3	15676782	15677281
MRT_1029215	2.884154301	2.719657399	56.82914238	2.95E-08	7.52E-06	chr16	4001671	4002170
MRT_656892	2.88014304	2.709745564	53.51152871	5.23E-08	1.16E-05	chr8	129970141	129970640
MRT_351050	2.880055291	2.687589968	48.4874855	1.31E-07	2.38E-05	chr4	114366281	114366780
MRT_55378	2.879545376	2.705356949	70.14499515	3.63E-09	1.58E-06	chr1	109228953	109229452
MRT_1197008	2.87744343	2.560756436	57.13458802	2.80E-08	7.23E-06	chr20	45250676	45251175

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_617176	2.876855193	2.367674886	56.18844787	3.29E-08	8.05E-06	chr8	31451306	31451805
MRT_343206	2.87561255	2.34221309	39.0029788	8.84E-07	0.000103496438	chr4	91986025	91986524
MRT_419367	2.87456734	2.449677874	34.85621007	2.23E-06	0.000209616251	chr5	97637270	97637769
MRT_36201	2.874366909	2.457305384	56.67569926	3.03E-08	7.57E-06	chr1	60156866	60157365
MRT_620727	2.873857285	2.362874857	45.71528553	2.23E-07	3.56E-05	chr8	39940734	39941233
MRT_1139456	2.873190165	3.24805642	25.34004668	2.42E-05	1.30E-03	chr18	67513288	67513787
MRT_1010401	2.873054732	3.007484701	82.45801701	6.67E-10	4.92E-07	chr15	72044885	72045384
MRT_1060280	2.872089449	3.566369422	32.47413558	3.90E-06	0.000323972155	chr16	81272174	81272673
MRT_367023	2.871198382	2.661677714	34.23448299	2.57E-06	2.34E-04	chr4	154082529	154083028
MRT_795624	2.870820786	2.692177027	34.38163345	2.49E-06	2.28E-04	chr11	26292302	26292801
MRT_464878	2.870074122	2.497672681	44.76516502	2.68E-07	4.13E-05	chr6	17419030	17419529
MRT_368138	2.869534886	2.402227241	24.49899079	3.06E-05	0.001547735871	chr4	156881763	156882262
MRT_252848	2.868305109	2.407874948	96.33256994	1.23E-10	1.51E-07	chr3	66742407	66742906
MRT_628826	2.868200613	2.712942366	62.75840063	1.12E-08	3.63E-06	chr8	61705387	61705886
MRT_931632	2.868065856	2.158321607	49.53983455	1.07E-07	2.03E-05	chr13	80212746	80213245
MRT_210656	2.867934178	2.817584546	33.71436581	2.91E-06	2.58E-04	chr2	227603843	227604342
MRT_816342	2.867554675	2.428475047	40.35748854	6.62E-07	8.20E-05	chr11	74154783	74155282
MRT_504404	2.867269049	2.172046345	30.78909208	5.88E-06	0.000441505732	chr6	113613176	113613675
MRT_1017985	2.867012482	2.67750854	86.39522808	4.04E-10	3.61E-07	chr15	85987796	85988295
MRT_119981	2.866910409	2.64267602	61.1473999	1.44E-08	4.32E-06	chr2	17998017	17998516
MRT_290384	2.866527085	3.014378356	35.53664243	1.91E-06	0.000185254186	chr3	159718899	159719398
MRT_950274	2.866137969	3.036086759	41.36671196	5.35E-07	6.97E-05	chr14	32941644	32942143
MRT_690722	2.863923205	3.061582912	34.98739983	2.16E-06	2.05E-04	chr9	89215225	89215724
MRT_635555	2.862650307	2.526780452	30.84844134	5.79E-06	0.000436632636	chr8	78921682	78922181
MRT_617177	2.862601127	2.344956432	41.50614108	5.20E-07	6.81E-05	chr8	31452888	31453387
MRT_931643	2.862127951	3.347439521	22.74332622	5.03E-05	2.29E-03	chr13	80232846	80233345
MRT_361470	2.861895651	3.152715489	54.78784394	4.18E-08	9.76E-06	chr4	143300760	143301259
MRT_893275	2.860724414	2.939089227	66.06741382	6.68E-09	2.47E-06	chr12	110386115	110386614
MRT_74710	2.859890624	3.217357142	57.48876778	2.64E-08	6.90E-06	chr1	172057369	172057868
MRT_1172283	2.859286582	2.381180826	45.87985414	2.16E-07	3.46E-05	chr19	51550080	51550579

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_636128	2.859172457	2.829543581	37.20575751	1.31E-06	1.41E-04	chr8	80847164	80847663
MRT_438156	2.85791145	2.945151389	103.2249894	5.66E-11	9.30E-08	chr5	141920675	141921174
MRT_545468	2.85749924	3.263681902	51.05948953	8.12E-08	1.65E-05	chr7	28998008	28998507
MRT_545088	2.85719002	2.303451136	54.7124734	4.24E-08	9.83E-06	chr7	28319619	28320118
MRT_1047173	2.856321091	2.14616173	67.47618154	5.39E-09	2.11E-06	chr16	54925221	54925720
MRT_361432	2.856163296	2.567136663	53.24041342	5.49E-08	1.20E-05	chr4	143229008	143229507
MRT_544906	2.855555731	2.262765966	37.38677357	1.26E-06	1.36E-04	chr7	27973106	27973605
MRT_349543	2.855069228	2.485621731	60.41063143	1.63E-08	4.74E-06	chr4	111007917	111008416
MRT_1254267	2.854992316	2.184054395	40.08899618	7.00E-07	8.57E-05	chrX	41459440	41459939
MRT_192506	2.85484488	2.763974247	37.68927278	1.18E-06	1.29E-04	chr2	188481835	188482334
MRT_376926	2.852785077	2.434469271	36.97810104	1.38E-06	1.46E-04	chr4	182185972	182186471
MRT_1050545	2.852205198	2.16738108	30.62640809	6.12E-06	0.000456131484	chr16	64745869	64746368
MRT_438093	2.85211686	2.92892904	95.54980515	1.34E-10	1.59E-07	chr5	141845683	141846182
MRT_932074	2.85183811	2.942587077	82.18420088	6.91E-10	5.04E-07	chr13	81043950	81044449
MRT_839582	2.851067911	2.918341648	64.89015605	8.00E-09	2.83E-06	chr11	126003833	126004332
MRT_145909	2.849789221	4.049884681	62.69036476	1.13E-08	3.64E-06	chr2	70344049	70344548
MRT_732918	2.84966501	2.182226598	59.54504732	1.87E-08	5.27E-06	chr10	27896384	27896883
MRT_435098	2.84831302	2.942744955	23.03044083	4.63E-05	2.14E-03	chr5	137181106	137181605
MRT_1016257	2.848005428	2.184058626	37.22346938	1.30E-06	1.40E-04	chr15	81999951	82000450
MRT_53041	2.846761291	2.417245581	46.74745626	1.82E-07	3.06E-05	chr1	100629681	100630180
MRT_1009078	2.845991838	2.799960512	38.52076861	9.81E-07	0.000111793393	chr15	69830626	69831125
MRT_1139455	2.845721486	3.256147914	28.70192178	9.94E-06	6.57E-04	chr18	67512749	67513248
MRT_44976	2.845721228	2.401518248	53.12889585	5.60E-08	1.22E-05	chr1	83284916	83285415
MRT_657525	2.844160778	2.744294718	61.41598137	1.38E-08	4.17E-06	chr8	130892381	130892880
MRT_859781	2.844050096	2.285060949	32.97305136	3.46E-06	2.95E-04	chr12	32641935	32642434
MRT_766805	2.842130578	2.405717864	83.64263579	5.72E-10	4.43E-07	chr10	104040826	104041325
MRT_24773	2.841765972	2.958320387	65.10282821	7.74E-09	2.78E-06	chr1	39636370	39636869
MRT_953065	2.841150921	2.192340305	35.34590035	1.99E-06	1.91E-04	chr14	38965283	38965782
MRT_907859	2.841000859	2.530637335	49.30221318	1.12E-07	2.10E-05	chr13	22148033	22148532
MRT_263072	2.84094942	2.358267498	53.47561314	5.27E-08	1.16E-05	chr3	100501201	100501700

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_636135	2.840345042	2.736019034	39.12275244	8.61E-07	0.00010160883	chr8	80855181	80855680
MRT_1195505	2.839968211	3.070735588	53.36773753	5.37E-08	1.18E-05	chr20	42646791	42647290
MRT_1254333	2.83867802	2.470397402	49.83588856	1.02E-07	1.95E-05	chrX	41638316	41638815
MRT_143813	-2.838030863	2.753431948	10.96929783	2.53E-03	4.95E-02	chr2	67033043	67033542
MRT_990459	2.837567405	2.470976897	68.01484597	4.97E-09	2.00E-06	chr15	33406116	33406615
MRT_438059	2.837380433	2.940807839	49.00890175	1.19E-07	2.19E-05	chr5	141807497	141807996
MRT_1139442	2.837074075	2.496985843	28.11113903	1.16E-05	7.36E-04	chr18	67484743	67485242
MRT_645486	2.837048645	2.702617819	40.13518813	6.94E-07	8.52E-05	chr8	102980924	102981423
MRT_55376	2.836249564	2.456383451	72.59902273	2.55E-09	1.22E-06	chr1	109227242	109227741
MRT_174365	2.835700584	2.341777066	27.05827171	1.53E-05	9.07E-04	chr2	146137679	146138178
MRT_354704	2.835531681	2.305854956	56.91046828	2.91E-08	7.45E-06	chr4	125140467	125140966
MRT_504134	2.834535916	2.747000224	44.00973274	3.12E-07	4.57E-05	chr6	113010012	113010511
MRT_1005872	2.834147701	3.517195748	76.41475808	1.49E-09	8.35E-07	chr15	64813848	64814347
MRT_96185	2.833099208	2.786866195	25.05435348	2.62E-05	1.39E-03	chr1	219615801	219616300
MRT_874268	2.832903587	2.551937268	37.55436536	1.21E-06	0.000132095879	chr12	67752742	67753241
MRT_61840	2.832858891	2.493696355	102.2621215	6.29E-11	9.73E-08	chr1	144022426	144022925
MRT_464877	2.832081724	2.643321828	38.17432918	1.06E-06	0.000119170642	chr6	17418052	17418551
MRT_476165	2.832078672	2.635874462	37.37517659	1.26E-06	1.36E-04	chr6	38235988	38236487
MRT_438054	2.830254479	2.906029731	81.67373055	7.39E-10	5.19E-07	chr5	141802022	141802521
MRT_349132	2.82885545	2.489151617	48.91232231	1.21E-07	2.22E-05	chr4	110128193	110128692
MRT_688791	2.828409093	2.181660696	31.87680036	4.51E-06	3.63E-04	chr9	84978565	84979064
MRT_209914	2.827776334	2.459409378	62.17028807	1.23E-08	3.84E-06	chr2	225847516	225848015
MRT_874715	2.827714475	2.554804987	53.19367292	5.54E-08	1.21E-05	chr12	68743101	68743600
MRT_73040	2.826882103	2.35087997	32.72695719	3.67E-06	3.10E-04	chr1	168752613	168753112
MRT_352375	2.826700476	2.939954419	41.43549508	5.28E-07	6.90E-05	chr4	119791190	119791689
MRT_620626	2.825334159	2.754387044	29.60837943	7.90E-06	5.55E-04	chr8	39770626	39771125
MRT_57110	2.82307441	2.776129815	72.85065471	2.46E-09	1.19E-06	chr1	112271740	112272239
MRT_60356	2.821563374	2.415356215	47.47443009	1.58E-07	2.75E-05	chr1	118653770	118654269
MRT_1004460	2.821237411	2.621919713	44.15199018	3.03E-07	4.50E-05	chr15	62744795	62745294
MRT_82618	2.821220438	3.011322504	33.06846325	3.38E-06	0.000289877778	chr1	188791357	188791856

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_64450	2.820887879	2.687287269	81.92843641	7.14E-10	5.12E-07	chr1	151556157	151556656
MRT_55308	2.819405969	2.463903887	53.6843208	5.08E-08	1.14E-05	chr1	109126304	109126803
MRT_516268	2.818348441	2.971997245	49.75877723	1.03E-07	1.96E-05	chr6	143141149	143141648
MRT_962201	2.816563736	2.256873161	53.48020038	5.26E-08	1.16E-05	chr14	61131970	61132469
MRT_265462	2.816452033	3.569092258	42.39338596	4.33E-07	5.86E-05	chr3	106925683	106926182
MRT_570102	2.81567977	2.946573988	64.51452783	8.48E-09	2.95E-06	chr7	89852406	89852905
MRT_772553	2.814781426	2.305114691	46.20723961	2.02E-07	3.29E-05	chr10	116441850	116442349
MRT_248275	2.814737784	3.244362459	44.61683805	2.76E-07	4.20E-05	chr3	57186048	57186547
MRT_190990	2.814201727	2.55630656	31.07677955	5.48E-06	0.000419226742	chr2	184213739	184214238
MRT_79172	2.813959118	3.579223266	67.1649035	5.65E-09	2.18E-06	chr1	180895644	180896143
MRT_157345	2.812825469	2.375503963	60.04998275	1.73E-08	4.97E-06	chr2	103507708	103508207
MRT_689429	2.812753129	2.722496597	40.4482372	6.49E-07	8.10E-05	chr9	86550409	86550908
MRT_155222	2.810583692	3.412876729	42.25294652	4.46E-07	6.01E-05	chr2	99543401	99543900
MRT_361471	2.810427729	2.85688149	41.6009624	5.10E-07	6.72E-05	chr4	143301268	143301767
MRT_1087838	2.810273876	2.921567713	44.09035027	3.07E-07	4.54E-05	chr17	41697847	41698346
MRT_252877	2.809270077	2.504500668	50.19802368	9.51E-08	1.85E-05	chr3	66789005	66789504
MRT_917480	2.80815209	3.27508376	47.38654053	1.61E-07	2.77E-05	chr13	41163750	41164249
MRT_975657	2.8075924	3.255954321	77.29841325	1.32E-09	7.68E-07	chr14	89815712	89816211
MRT_258981	2.807081355	2.249122551	41.76948418	4.93E-07	6.54E-05	chr3	82133517	82134016
MRT_797110	2.806521192	2.172184316	30.18076553	6.84E-06	0.000497058945	chr11	29253272	29253771
MRT_210090	2.806337823	2.273007266	49.12626135	1.16E-07	2.16E-05	chr2	226308773	226309272
MRT_60375	2.806266959	2.211111381	48.46150303	1.31E-07	2.38E-05	chr1	118679527	118680026
MRT_128327	2.80595595	2.859941083	86.02398173	4.23E-10	3.65E-07	chr2	33359312	33359811
MRT_294626	2.804686054	2.990499151	69.95596678	3.73E-09	1.61E-06	chr3	171866463	171866962
MRT_202612	2.803707292	2.526316209	44.45065836	2.86E-07	4.29E-05	chr2	210306254	210306753
MRT_193967	2.803068989	2.613756187	51.71220846	7.22E-08	1.50E-05	chr2	190925293	190925792
MRT_884696	2.802106141	2.251764768	53.09226505	5.64E-08	1.22E-05	chr12	93538645	93539144
MRT_294967	2.800818181	2.55973769	44.53631939	2.81E-07	4.25E-05	chr3	172364296	172364795
MRT_251791	2.800575718	2.507370254	26.0086025	2.02E-05	0.001132986348	chr3	64943233	64943732
MRT_500605	2.800456678	2.341444194	42.27984286	4.43E-07	5.99E-05	chr6	107220493	107220992

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_265250	2.79850837	2.782911131	32.1495664	4.22E-06	3.45E-04	chr3	106569331	106569830
MRT_187386	2.798326964	2.812800635	29.66967656	7.77E-06	0.000547509641	chr2	175831055	175831554
MRT_128119	2.797905644	2.232652375	38.94953943	8.94E-07	1.04E-04	chr2	33008900	33009399
MRT_512848	2.797392445	2.504565594	55.2802381	3.84E-08	9.13E-06	chr6	134785741	134786240
MRT_706647	2.795958888	2.474809547	31.52371595	4.91E-06	3.86E-04	chr9	121771388	121771887
MRT_438115	2.795049115	2.835473005	144.1648569	1.17E-12	6.73E-09	chr5	141872091	141872590
MRT_252829	2.793406205	2.357615599	54.08937275	4.73E-08	1.08E-05	chr3	66707000	66707499
MRT_821601	2.792976928	3.626716514	28.23111694	1.12E-05	0.000721374521	chr11	85430011	85430510
MRT_201400	2.792755309	2.849978265	50.01820713	9.83E-08	1.90E-05	chr2	207666186	207666685
MRT_468023	2.791494508	2.269885019	24.34495529	3.19E-05	1.60E-03	chr6	23466088	23466587
MRT_90139	2.79146591	2.174461196	50.51831439	8.97E-08	1.76E-05	chr1	206485152	206485651
MRT_171202	2.791132197	2.38690585	38.20213007	1.05E-06	0.000118659635	chr2	136764205	136764704
MRT_492705	2.789296318	2.536568589	52.19844294	6.61E-08	1.39E-05	chr6	84988016	84988515
MRT_1203536	2.788775967	2.689456915	31.70274165	4.70E-06	0.000374186801	chr20	56687281	56687780
MRT_893405	2.788117995	2.869452602	59.06709022	2.03E-08	5.57E-06	chr12	110555766	110556265
MRT_73949	2.78810119	2.348423585	36.18238891	1.65E-06	1.66E-04	chr1	170745987	170746486
MRT_260972	2.788100604	2.565891915	22.70522464	5.08E-05	2.31E-03	chr3	90084623	90085122
MRT_1050556	2.786412175	2.086232478	28.0121511	1.19E-05	7.51E-04	chr16	64779767	64780266
MRT_613494	2.785516797	2.474609149	58.80933205	2.12E-08	5.78E-06	chr8	23837631	23838130
MRT_326868	2.782771808	2.660730814	27.02040366	1.54E-05	9.14E-04	chr4	45066706	45067205
MRT_438123	2.782237485	2.686874756	105.0576882	4.64E-11	8.07E-08	chr5	141879559	141880058
MRT_681929	2.779883415	2.675517462	44.46570038	2.85E-07	4.29E-05	chr9	37676399	37676898
MRT_932237	2.779879889	3.224224267	26.45099097	1.79E-05	1.03E-03	chr13	81327761	81328260
MRT_336793	2.779401869	3.010067568	30.93023344	5.68E-06	0.000430909141	chr4	77380326	77380825
MRT_248273	2.778577777	3.158104868	63.22339094	1.04E-08	3.44E-06	chr3	57184194	57184693
MRT_296341	2.778354797	2.501502908	50.98424062	8.23E-08	1.67E-05	chr3	175367170	175367669
MRT_202618	2.77817951	2.783358134	36.34386199	1.59E-06	0.000161480900	chr2	210322155	210322654
MRT_669773	2.776644794	2.23782206	28.34068978	1.09E-05	7.08E-04	chr9	9153778	9154277
MRT_821465	2.776582293	2.313604661	47.15000104	1.69E-07	2.87E-05	chr11	85095895	85096394
MRT_239303	2.776576892	2.44609819	44.81082779	2.66E-07	4.10E-05	chr3	41835480	41835979

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_60460	2.776423626	2.344708787	61.61004394	1.34E-08	4.08E-06	chr1	118841006	118841505
MRT_732926	2.775601286	2.976905456	28.92184275	9.40E-06	6.30E-04	chr10	27909352	27909851
MRT_669683	2.775402692	2.433167868	27.31436861	1.43E-05	0.000863955723	chr9	8871961	8872460
MRT_120027	2.773497303	2.297431584	37.64142885	1.19E-06	0.000130480381	chr2	18075780	18076279
MRT_60282	2.772803989	3.128466185	62.68005165	1.13E-08	3.64E-06	chr1	118510068	118510567
MRT_853964	2.772609313	2.779431607	46.47364351	1.92E-07	3.17E-05	chr12	19540249	19540748
MRT_512192	2.772596288	3.082262957	44.32864713	2.93E-07	4.37E-05	chr6	133753065	133753564
MRT_55379	2.770218479	2.591424718	56.33809585	3.20E-08	7.88E-06	chr1	109229490	109229989
MRT_491005	2.769187846	2.718915599	34.12345693	2.64E-06	2.40E-04	chr6	80520043	80520542
MRT_950297	2.768867873	2.974707095	33.11485073	3.35E-06	0.000287674090	chr14	32977345	32977844
MRT_1213390	2.768579698	2.401388794	25.17551146	2.54E-05	1.35E-03	chr21	29472784	29473283
MRT_326933	2.767209809	2.264103324	24.00734162	3.51E-05	1.72E-03	chr4	45281033	45281532
MRT_251792	2.765898515	2.616468492	25.82555124	2.12E-05	1.18E-03	chr3	64943787	64944286
MRT_343016	2.765249112	2.340387799	25.63751836	2.23E-05	1.23E-03	chr4	91352768	91353267
MRT_258927	2.764917123	2.7049545	32.6136982	3.77E-06	0.000314994250	chr3	82050447	82050946
MRT_931638	2.763769469	2.460953545	33.31865371	3.19E-06	0.000276928685	chr13	80221715	80222214
MRT_875541	2.763209355	3.098955388	65.55032992	7.23E-09	2.62E-06	chr12	70082839	70083338
MRT_932177	2.762814796	2.343547187	54.01901808	4.79E-08	1.09E-05	chr13	81206701	81207200
MRT_325167	2.761945891	2.834280578	49.42330126	1.10E-07	2.06E-05	chr4	40397740	40398239
MRT_538970	2.76089352	2.927660215	41.54536361	5.16E-07	6.77E-05	chr7	15517957	15518456
MRT_1134054	2.760369166	2.89994293	32.73649817	3.66E-06	0.000309547862	chr18	53530959	53531458
MRT_504186	2.759071955	2.537323385	34.21177307	2.59E-06	0.000235178556	chr6	113154976	113155475
MRT_44069	2.757440518	2.336994138	50.80464652	8.51E-08	1.71E-05	chr1	80315974	80316473
MRT_155637	2.757055917	3.107035348	39.21228102	8.45E-07	1.00E-04	chr2	100327220	100327719
MRT_510237	2.755428293	2.675657469	44.01402325	3.12E-07	4.57E-05	chr6	129807998	129808497
MRT_636148	2.75536465	2.49091993	32.39746228	3.97E-06	0.000328300852	chr8	80873071	80873570
MRT_1262904	2.754046412	2.089843587	26.13698696	1.95E-05	0.001099767253	chrX	94988287	94988786
MRT_467726	2.753785399	2.365769884	36.2700862	1.61E-06	1.64E-04	chr6	22872882	22873381
MRT_613486	2.753525064	2.519079776	42.2601635	4.45E-07	6.01E-05	chr8	23831942	23832441
MRT_258925	2.753165838	2.506189331	42.51204586	4.23E-07	5.76E-05	chr3	82047375	82047874

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_861157	2.75314132	2.585745702	34.8270837	2.24E-06	2.11E-04	chr12	41668641	41669140
MRT_210659	2.752843079	2.658934372	33.63608442	2.96E-06	0.000261293957	chr2	227607021	227607520
MRT_670984	2.752095988	2.482299923	55.19540365	3.90E-08	9.24E-06	chr9	13186043	13186542
MRT_466449	2.752001183	2.473734747	40.42767607	6.52E-07	8.11E-05	chr6	20509327	20509826
MRT_326820	2.751817738	2.325087648	29.44694192	8.22E-06	5.70E-04	chr4	44930775	44931274
MRT_688828	2.750591416	2.70709625	27.27814785	1.44E-05	0.000870162390	chr9	85103295	85103794
MRT_932131	2.749417753	2.826469561	38.38615178	1.01E-06	0.000114469095	chr13	81137575	81138074
MRT_1248229	2.749318891	2.646715014	30.08448014	7.01E-06	5.07E-04	chrX	16610125	16610624
MRT_858327	2.749106663	2.401714867	56.78714559	2.97E-08	7.53E-06	chr12	29896738	29897237
MRT_690619	2.748591013	3.412909075	21.09864815	8.15E-05	3.36E-03	chr9	89075371	89075870
MRT_250004	2.748469725	2.251030921	31.76726979	4.63E-06	0.000370101264	chr3	60622461	60622960
MRT_929561	2.747457746	2.400097069	34.59028889	2.37E-06	2.21E-04	chr13	75128976	75129475
MRT_932357	2.746651908	2.311932411	50.59827534	8.84E-08	1.75E-05	chr13	81529286	81529785
MRT_512759	2.745854567	2.646855413	99.00983882	9.03E-11	1.22E-07	chr6	134637034	134637533
MRT_620627	2.745721273	2.990044968	28.62870364	1.01E-05	0.000666601322	chr8	39771153	39771652
MRT_703351	2.745348425	3.302378002	116.2632133	1.46E-11	3.72E-08	chr9	114720428	114720927
MRT_202619	2.745062006	3.143584295	28.065982	1.17E-05	0.000742771551	chr2	210322738	210323237
MRT_670969	2.744534871	2.634963829	50.57257579	8.88E-08	1.75E-05	chr9	13164826	13165325
MRT_929520	2.74338582	2.187874174	29.17564124	8.81E-06	0.000598866875	chr13	75013521	75014020
MRT_1016364	2.742274478	2.576443622	31.25428071	5.24E-06	0.000405513719	chr15	82201666	82202165
MRT_1043599	2.74204604	2.317803664	35.78068629	1.80E-06	0.000178672233	chr16	48037995	48038494
MRT_1266138	2.741951219	2.769137954	47.95196894	1.45E-07	2.58E-05	chrX	114601176	114601675
MRT_931820	2.741077218	2.48754411	36.50431237	1.53E-06	0.000157915507	chr13	80584694	80585193
MRT_1257727	2.740311485	2.014983586	31.16306953	5.36E-06	4.12E-04	chrX	55978118	55978617
MRT_300011	2.740306017	2.719722389	46.11887869	2.06E-07	3.33E-05	chr3	183172886	183173385
MRT_1154419	2.740125344	2.824102519	86.32140062	4.08E-10	3.61E-07	chr19	15812723	15813222
MRT_206707	2.73996251	2.800819216	64.86380282	8.03E-09	2.83E-06	chr2	219470184	219470683
MRT_264884	2.738815494	2.69194282	60.15538592	1.70E-08	4.90E-06	chr3	105844142	105844641
MRT_774791	2.738363082	2.93637891	85.6843629	4.42E-10	3.76E-07	chr10	121137336	121137835
MRT_210198	2.738158961	2.553643252	82.11629951	6.97E-10	5.05E-07	chr2	226524501	226525000

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1246684	2.737596422	2.548904916	34.59269248	2.37E-06	2.21E-04	chrX	11147624	11148123
MRT_363179	2.736945596	3.194209367	74.66099611	1.90E-09	9.62E-07	chr4	146651997	146652496
MRT_258955	2.736873883	2.352820161	58.66787556	2.17E-08	5.88E-06	chr3	82094094	82094593
MRT_179016	2.736636617	2.378281202	44.13303466	3.04E-07	4.51E-05	chr2	158751522	158752021
MRT_776454	2.73626304	2.707773617	73.60948065	2.21E-09	1.09E-06	chr10	123804245	123804744
MRT_178981	2.735589359	3.137097894	73.56677654	2.22E-09	1.10E-06	chr2	158694940	158695439
MRT_354275	2.734386664	2.866392741	61.07435435	1.46E-08	4.36E-06	chr4	124333120	124333619
MRT_43013	2.733803144	3.0515203	30.88581097	5.74E-06	4.34E-04	chr1	77977223	77977722
MRT_874716	2.733484408	2.502410148	49.26911111	1.13E-07	2.11E-05	chr12	68743738	68744237
MRT_44108	2.733182573	2.457866297	33.73240048	2.89E-06	0.000257185313	chr1	80434694	80435193
MRT_361483	2.732372964	3.104450814	51.06077804	8.12E-08	1.65E-05	chr4	143323947	143324446
MRT_64452	2.732200999	2.562765303	76.24246382	1.53E-09	8.51E-07	chr1	151557254	151557753
MRT_499867	2.732166175	2.680252169	29.05178412	9.09E-06	0.000613782676	chr6	105708351	105708850
MRT_435096	2.731296194	2.619442025	34.43056577	2.46E-06	2.26E-04	chr5	137179571	137180070
MRT_734154	2.730847994	2.669490464	45.95908847	2.12E-07	3.42E-05	chr10	29987645	29988144
MRT_45201	2.730536845	2.631843082	24.62264698	2.95E-05	0.001508561062	chr1	83994298	83994797
MRT_932181	2.73052841	2.481979999	48.4709661	1.31E-07	2.38E-05	chr13	81216023	81216522
MRT_487454	2.730212639	2.835729056	29.90480648	7.33E-06	5.23E-04	chr6	70822723	70823222
MRT_249704	2.730128387	2.459285363	32.86817641	3.55E-06	3.02E-04	chr3	59834584	59835083
MRT_1168191	2.72998987	3.329266988	30.28345969	6.67E-06	0.000487344383	chr19	45277364	45277863
MRT_690642	2.729813419	2.555345458	26.26141239	1.89E-05	1.07E-03	chr9	89106745	89107244
MRT_932359	2.729646029	3.188277922	18.32739632	1.92E-04	6.58E-03	chr13	81531284	81531783
MRT_865117	2.729006929	2.919483938	70.9982255	3.21E-09	1.44E-06	chr12	49473575	49474074
MRT_430183	2.728260536	2.274166701	47.53170857	1.57E-07	2.73E-05	chr5	126701025	126701524
MRT_44033	2.726261307	2.482213554	35.96837683	1.73E-06	1.72E-04	chr1	80191923	80192422
MRT_354485	2.726146632	2.734932613	35.55390851	1.90E-06	1.85E-04	chr4	124706659	124707158
MRT_881945	2.725932604	2.316395996	40.98897064	5.79E-07	7.41E-05	chr12	88327028	88327527
MRT_258926	2.724614299	3.018685712	23.69487657	3.83E-05	0.001842588532	chr3	82049721	82050220
MRT_545502	2.724055135	2.384822872	62.47015996	1.17E-08	3.72E-06	chr7	29059465	29059964
MRT_874284	2.723148877	2.530189409	30.94750046	5.65E-06	4.29E-04	chr12	67782659	67783158

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_210201	2.722350065	2.477937444	67.70741933	5.21E-09	2.06E-06	chr2	226526837	226527336
MRT_702637	2.722323068	3.271249105	27.62678511	1.31E-05	0.000810600306	chr9	113430759	113431258
MRT_879890	2.722180568	2.868324817	23.61935424	3.91E-05	0.001869341636	chr12	80836080	80836579
MRT_265305	2.719401403	3.498083647	30.40789893	6.46E-06	4.76E-04	chr3	106684067	106684566
MRT_885549	2.718865817	2.910997076	45.46457891	2.34E-07	3.69E-05	chr12	95009557	95010056
MRT_1179802	2.718267867	2.570485764	33.28701646	3.21E-06	2.78E-04	chr20	5713532	5714031
MRT_119969	2.717909439	2.529343326	54.52564728	4.38E-08	1.01E-05	chr2	17982778	17983277
MRT_319037	2.716934039	2.468860478	49.90535025	1.00E-07	1.93E-05	chr4	22687766	22688265
MRT_74707	2.71621655	2.81444308	58.53260114	2.21E-08	5.95E-06	chr1	172055208	172055707
MRT_297346	2.716152233	2.924456232	43.19991418	3.67E-07	5.18E-05	chr3	177424176	177424675
MRT_754513	2.71495702	3.164212228	49.6389126	1.05E-07	2.00E-05	chr10	79708905	79709404
MRT_951381	2.713261014	3.246937122	33.15749665	3.31E-06	0.000285746332	chr14	35180268	35180767
MRT_620640	2.712722549	2.375017253	29.89324374	7.35E-06	0.000524257353	chr8	39790920	39791419
MRT_60374	2.711483545	2.729899816	59.00113865	2.05E-08	5.61E-06	chr1	118678994	118679493
MRT_648308	2.711410529	2.969018008	31.19088905	5.33E-06	4.10E-04	chr8	109205911	109206410
MRT_407847	2.710800227	2.387651578	70.53259091	3.43E-09	1.51E-06	chr5	71592015	71592514
MRT_1119650	2.710229834	2.400853795	40.63290429	6.24E-07	7.86E-05	chr18	20505927	20506426
MRT_730922	2.709461355	3.064581168	28.05716503	1.17E-05	0.000744102383	chr10	23354307	23354806
MRT_545451	2.708805101	3.078782789	24.83890415	2.78E-05	0.001444100894	chr7	28978942	28979441
MRT_656836	-2.70839335	3.486941208	12.68447735	1.32E-03	0.02973739003	chr8	129886524	129887023
MRT_435092	2.708331405	2.897455807	19.45432901	1.34E-04	0.004953067814	chr5	137173409	137173908
MRT_119979	2.707704283	2.431377535	52.41311875	6.36E-08	1.35E-05	chr2	17995816	17996315
MRT_119984	2.704998658	2.50270926	44.11359222	3.06E-07	4.52E-05	chr2	18002708	18003207
MRT_670978	2.704913286	2.823923694	59.92358028	1.76E-08	5.05E-06	chr9	13174737	13175236
MRT_149505	2.703637141	2.1242164	28.32345191	1.10E-05	7.10E-04	chr2	78345098	78345597
MRT_50942	2.702877266	3.273145833	57.59179692	2.59E-08	6.81E-06	chr1	95268988	95269487
MRT_106340	2.702673479	2.381567459	46.41769763	1.94E-07	3.20E-05	chr1	239977479	239977978
MRT_861263	2.702503036	2.264720207	28.27320506	1.11E-05	7.16E-04	chr12	41903371	41903870
MRT_351030	2.702112081	2.932492373	32.71280283	3.68E-06	3.10E-04	chr4	114326297	114326796
MRT_438116	2.701793452	2.58230382	85.7279504	4.39E-10	3.76E-07	chr5	141872603	141873102

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_620673	2.701076647	3.33943119	30.6492007	6.09E-06	4.54E-04	chr8	39848250	39848749
MRT_507383	2.701041653	2.182473563	24.15238453	3.37E-05	1.67E-03	chr6	121715187	121715686
MRT_825670	2.70037435	2.783453921	74.91204393	1.84E-09	9.33E-07	chr11	95896097	95896596
MRT_1114234	2.700044924	2.984425691	27.85031644	1.24E-05	7.77E-04	chr18	6737724	6738223
MRT_484349	2.699649932	2.322734309	32.2491882	4.12E-06	3.38E-04	chr6	55905476	55905975
MRT_704410	2.699199235	3.571041682	49.49824473	1.08E-07	2.04E-05	chr9	116382797	116383296
MRT_1137421	2.699118021	2.318728287	35.67781118	1.85E-06	1.82E-04	chr18	60427255	60427754
MRT_726779	2.698891044	2.458184839	53.46184078	5.28E-08	1.16E-05	chr10	14301656	14302155
MRT_1046554	2.698623937	2.711606831	55.86918476	3.47E-08	8.40E-06	chr16	53747964	53748463
MRT_610468	2.697084633	2.872252619	36.38819407	1.57E-06	0.000160160808	chr8	17756055	17756554
MRT_1093718	2.694527387	2.191117875	27.49870601	1.36E-05	0.000832624195	chr17	53275987	53276486
MRT_438094	2.694111716	2.558624076	97.35658144	1.09E-10	1.41E-07	chr5	141846331	141846830
MRT_545501	2.694060683	2.455793825	55.97863511	3.41E-08	8.28E-06	chr7	29058820	29059319
MRT_880040	2.693997792	2.279626742	43.7617567	3.28E-07	4.75E-05	chr12	81123337	81123836
MRT_504177	2.693132619	2.566963753	24.64228441	2.94E-05	1.50E-03	chr6	113123291	113123790
MRT_141942	2.69227556	2.571606452	37.14155749	1.33E-06	1.42E-04	chr2	63963569	63964068
MRT_198951	2.692250272	2.768699241	40.79635645	6.03E-07	7.64E-05	chr2	203018460	203018959
MRT_372475	2.692142952	2.901928748	32.69658954	3.70E-06	0.000311174461	chr4	169491668	169492167
MRT_281948	2.691566327	2.866693128	83.26185502	6.01E-10	4.59E-07	chr3	140812790	140813289
MRT_835629	2.690964714	3.573165246	91.47823406	2.17E-10	2.31E-07	chr11	119231874	119232373
MRT_1223840	2.690878754	3.233629498	82.00940189	7.07E-10	5.09E-07	chr22	17738513	17739012
MRT_512852	2.690413226	2.47558837	50.79825376	8.52E-08	1.71E-05	chr6	134790745	134791244
MRT_249600	2.690390326	2.493119497	21.24426661	7.80E-05	3.25E-03	chr3	59641217	59641716
MRT_734104	2.690214755	3.384986769	38.50510755	9.84E-07	1.12E-04	chr10	29923683	29924182
MRT_402420	2.689983759	2.688981834	39.99552523	7.15E-07	8.71E-05	chr5	58839765	58840264
MRT_265417	2.687725883	2.6074916	50.61023334	8.82E-08	1.75E-05	chr3	106856653	106857152
MRT_932313	2.687439445	2.965183275	22.33273565	5.66E-05	0.002509614847	chr13	81451270	81451769
MRT_545452	2.686805935	2.988211851	20.81119669	8.88E-05	3.59E-03	chr7	28979481	28979980
MRT_193966	2.6862269	2.30197622	40.35198567	6.63E-07	8.21E-05	chr2	190924698	190925197
MRT_265364	2.686215565	3.71789197	29.58788842	7.94E-06	0.000556453223	chr3	106784098	106784597

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_690705	2.685725853	3.409819389	22.30390755	5.71E-05	0.002523482903	chr9	89191479	89191978
MRT_587785	2.684522413	4.049385135	47.30180179	1.64E-07	2.81E-05	chr7	130005951	130006450
MRT_932119	2.68398006	2.837615749	23.3730787	4.20E-05	1.98E-03	chr13	81125117	81125616
MRT_568368	2.683704776	2.199311454	26.98362007	1.56E-05	0.000920435718	chr7	84097432	84097931
MRT_351017	2.683682776	2.987500056	28.28526867	1.11E-05	0.000714959412	chr4	114308290	114308789
MRT_93211	2.683043545	2.95936093	37.23134652	1.30E-06	1.40E-04	chr1	212623898	212624397
MRT_106012	2.682941849	2.311393842	45.91060091	2.14E-07	3.45E-05	chr1	238788004	238788503
MRT_478045	2.682746052	2.594312587	63.20562486	1.04E-08	3.44E-06	chr6	41974904	41975403
MRT_1007199	2.68257412	2.664560883	92.41462349	1.94E-10	2.12E-07	chr15	66693867	66694366
MRT_550529	2.681909159	2.373234192	25.94411594	2.06E-05	1.15E-03	chr7	39083023	39083522
MRT_290307	2.681440016	3.022858441	44.70075036	2.72E-07	4.16E-05	chr3	159601018	159601517
MRT_1246686	2.681316045	2.429062198	42.86929163	3.93E-07	5.47E-05	chrX	11148850	11149349
MRT_320565	2.679215837	2.566988473	44.82376828	2.65E-07	4.09E-05	chr4	26089864	26090363
MRT_873279	2.67908943	2.903916499	68.34302346	4.74E-09	1.93E-06	chr12	65980265	65980764
MRT_1169276	2.677511823	3.164204043	54.72358733	4.23E-08	9.83E-06	chr19	46954541	46955040
MRT_84539	2.676713457	2.060950285	29.00217175	9.21E-06	0.000619620207	chr1	195758459	195758958
MRT_1094681	2.67647049	2.957590845	103.5131164	5.49E-11	9.28E-08	chr17	55131456	55131955
MRT_1149248	2.676307182	2.813469574	61.69994817	1.32E-08	4.04E-06	chr19	7179512	7180011
MRT_234822	2.676252932	3.068138613	30.44858129	6.40E-06	4.72E-04	chr3	32010370	32010869
MRT_690644	2.675887053	2.581186443	33.16814104	3.31E-06	2.85E-04	chr9	89109642	89110141
MRT_501227	2.6758247	2.866387646	32.20394583	4.16E-06	3.41E-04	chr6	108141178	108141677
MRT_407922	2.674841782	2.174144955	39.89078207	7.31E-07	8.86E-05	chr5	71724366	71724865
MRT_1165074	2.674641864	3.092949796	84.08097266	5.41E-10	4.29E-07	chr19	39376514	39377013
MRT_260865	2.673392175	2.244232946	31.31252216	5.17E-06	0.000401237512	chr3	89734488	89734987
MRT_938333	2.673290917	2.769791975	68.51441467	4.62E-09	1.90E-06	chr13	99582367	99582866
MRT_726918	2.673121166	2.359299156	33.3651025	3.16E-06	0.000274468005	chr10	14550752	14551251
MRT_361472	2.67285544	2.349990917	36.45751151	1.55E-06	1.59E-04	chr4	143304907	143305406
MRT_844440	2.672582912	2.540206837	61.05937825	1.46E-08	4.36E-06	chr12	835556	836055
MRT_880174	2.672082368	2.152359023	27.13293765	1.50E-05	0.000896471321	chr12	81418569	81419068
MRT_499866	2.67146605	2.61105634	27.98026958	1.20E-05	7.56E-04	chr6	105707764	105708263

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_613501	2.671388196	2.5614315	32.64697326	3.74E-06	0.000313942838	chr8	23848881	23849380
MRT_178983	2.671069111	2.681479673	59.68718807	1.83E-08	5.19E-06	chr2	158696198	158696697
MRT_258983	2.670727366	2.098080296	26.67333976	1.69E-05	0.000984432568	chr3	82135268	82135767
MRT_151568	2.6705351	2.416717586	41.55687118	5.15E-07	6.77E-05	chr2	86183756	86184255
MRT_587506	2.669812799	2.954810829	79.33113899	1.01E-09	6.32E-07	chr7	129652817	129653316
MRT_954153	2.669213018	2.240414225	31.47857517	4.96E-06	3.89E-04	chr14	42419807	42420306
MRT_570106	2.668138041	2.374547012	56.85912982	2.93E-08	7.50E-06	chr7	89858557	89859056
MRT_81231	2.668126828	2.37335065	46.33556482	1.97E-07	3.23E-05	chr1	184806232	184806731
MRT_408667	2.667948728	3.192965143	35.63505126	1.86E-06	1.82E-04	chr5	73213274	73213773
MRT_579075	2.66692124	2.576398876	46.16896638	2.04E-07	3.31E-05	chr7	107332234	107332733
MRT_836961	2.666181182	2.561004844	31.5946838	4.82E-06	0.000381286322	chr11	121239197	121239696
MRT_690639	2.66506686	2.712933307	55.8588568	3.48E-08	8.40E-06	chr9	89102832	89103331
MRT_252880	2.664241661	2.435114456	49.50983132	1.08E-07	2.04E-05	chr3	66798071	66798570
MRT_1134059	2.663921616	2.7043151	33.13495962	3.33E-06	2.87E-04	chr18	53537848	53538347
MRT_570107	2.663057976	2.474037183	59.7175433	1.82E-08	5.18E-06	chr7	89859205	89859704
MRT_504218	2.661907162	2.686050787	33.37002915	3.15E-06	0.000274336819	chr6	113227901	113228400
MRT_931702	2.660716503	3.358196482	20.75340492	9.04E-05	0.003633697119	chr13	80356964	80357463
MRT_1268893	2.6604518	2.296135281	30.91865493	5.69E-06	4.31E-04	chrX	128224183	128224682
MRT_191179	2.660388827	2.078065018	24.03585377	3.48E-05	1.71E-03	chr2	184860877	184861376
MRT_970414	2.660181492	3.251378123	47.78377443	1.49E-07	2.63E-05	chr14	75709147	75709646
MRT_748445	2.659236579	2.587081795	28.77872378	9.75E-06	6.47E-04	chr10	69869044	69869543
MRT_766417	2.659071309	2.86141598	58.19509594	2.34E-08	6.27E-06	chr10	103464098	103464597
MRT_1246690	2.659049418	2.917166672	34.97228847	2.17E-06	0.000204999730	chrX	11154884	11155383
MRT_811672	2.658600079	3.215436953	79.57300187	9.75E-10	6.24E-07	chr11	66878710	66879209
MRT_407940	2.65792618	3.39202406	17.62467198	2.40E-04	7.82E-03	chr5	71748409	71748908
MRT_290306	2.657760516	2.816017092	45.4670658	2.34E-07	3.69E-05	chr3	159600436	159600935
MRT_171217	2.656763446	2.632895036	26.31654984	1.86E-05	0.001063029117	chr2	136787687	136788186
MRT_1029216	2.6561138	2.90598344	75.68241289	1.65E-09	8.81E-07	chr16	4002740	4003239
MRT_1197022	2.656068568	2.770195645	47.85482747	1.47E-07	2.61E-05	chr20	45276091	45276590
MRT_690600	2.655463536	3.88802084	25.38218355	2.40E-05	0.001288570367	chr9	89049318	89049817

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_990416	2.654420084	2.510557556	64.53672459	8.45E-09	2.94E-06	chr15	33323352	33323851
MRT_732917	2.654339664	2.548783069	47.19433189	1.67E-07	2.85E-05	chr10	27895158	27895657
MRT_1252279	2.654017209	2.266524866	16.00062904	4.11E-04	1.19E-02	chrX	33349123	33349622
MRT_510238	2.653721473	2.14126342	30.92609301	5.68E-06	4.31E-04	chr6	129808711	129809210
MRT_884640	2.653195778	2.804824443	66.38210666	6.36E-09	2.39E-06	chr12	93455477	93455976
MRT_962540	2.652111802	2.488304682	75.925759	1.60E-09	8.79E-07	chr14	61678508	61679007
MRT_854377	2.651553089	2.946143641	18.51578717	1.80E-04	6.28E-03	chr12	20099431	20099930
MRT_512720	2.650794154	2.323734725	54.31962989	4.54E-08	1.04E-05	chr6	134569268	134569767
MRT_265234	2.6503403	2.89836582	35.80773595	1.79E-06	0.000177881404	chr3	106544751	106545250
MRT_467617	2.650190395	2.236247057	60.96474108	1.49E-08	4.40E-06	chr6	22631322	22631821
MRT_210149	2.649895823	2.309951604	46.14426234	2.05E-07	3.32E-05	chr2	226423338	226423837
MRT_932075	2.649744624	2.534656646	34.0743444	2.67E-06	2.42E-04	chr13	81045289	81045788
MRT_258901	2.649530299	2.627321135	40.54848106	6.36E-07	7.96E-05	chr3	82004949	82005448
MRT_263073	2.648397622	2.404865745	53.74788913	5.02E-08	1.13E-05	chr3	100501940	100502439
MRT_1269821	2.647015478	2.242208699	36.05252982	1.70E-06	0.000169724457	chrX	131971277	131971776
MRT_636141	2.646891812	3.010811255	25.24585167	2.49E-05	0.00132912761	chr8	80864665	80865164
MRT_351032	2.644957409	3.100221805	20.75395606	9.04E-05	0.003633697119	chr4	114327648	114328147
MRT_565269	2.64473513	2.12968465	38.97958906	8.88E-07	0.000103828462	chr7	76487476	76487975
MRT_594899	2.644647881	2.99396216	52.75771201	5.98E-08	1.29E-05	chr7	143601493	143601992
MRT_657528	2.644281254	3.017579117	71.349983	3.05E-09	1.39E-06	chr8	130895307	130895806
MRT_583910	2.644145912	2.301351487	17.86679559	2.22E-04	0.007339921831	chr7	120382347	120382846
MRT_46737	2.643992596	3.687450074	26.48740402	1.78E-05	0.001025613224	chr1	87239827	87240326
MRT_83496	2.643939678	2.86007267	23.77740557	3.74E-05	0.00180948134	chr1	192417134	192417633
MRT_204786	2.643230997	2.459679978	48.13823568	1.40E-07	2.51E-05	chr2	216703939	216704438
MRT_636119	2.642819109	3.044964772	33.60970904	2.98E-06	0.000261958111	chr8	80835811	80836310
MRT_879955	2.641872245	2.171193825	27.04902134	1.53E-05	0.000908439159	chr12	80974048	80974547
MRT_349067	2.641372176	2.598722488	43.24428312	3.64E-07	5.16E-05	chr4	109967757	109968256
MRT_1094132	2.641002524	2.622529055	38.7041122	9.43E-07	1.08E-04	chr17	54087626	54088125
MRT_171805	2.639803029	2.169369033	20.55835723	9.59E-05	0.003805610289	chr2	138250791	138251290
MRT_365868	2.638561685	2.552658762	47.92108755	1.46E-07	2.58E-05	chr4	152087795	152088294

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_690616	2.638543868	2.976203509	24.53086875	3.03E-05	0.001538854331	chr9	89073294	89073793
MRT_297269	2.637144531	3.369293108	30.95725862	5.64E-06	0.000428894139	chr3	177320697	177321196
MRT_142740	2.636882543	2.900496247	80.24271881	8.92E-10	5.90E-07	chr2	65259236	65259735
MRT_258961	2.636292384	2.345212692	58.71644288	2.15E-08	5.86E-06	chr3	82104843	82105342
MRT_364319	2.636098295	2.896525876	38.13434189	1.07E-06	0.000120003922	chr4	148693478	148693977
MRT_1249759	2.636010215	2.078978605	33.5783525	3.00E-06	2.63E-04	chrX	21799476	21799975
MRT_62262	2.634228494	3.621071623	37.06841065	1.35E-06	0.000143776434	chr1	145263292	145263791
MRT_950296	2.634020942	3.062261307	32.44969092	3.92E-06	0.000324843796	chr14	32976840	32977339
MRT_613490	2.633535643	2.271676831	43.47626583	3.47E-07	4.99E-05	chr8	23834599	23835098
MRT_1036654	2.633216119	2.23187062	29.67953567	7.76E-06	0.000546453972	chr16	20177809	20178308
MRT_492737	2.632538825	2.13750004	39.15036972	8.56E-07	0.000101100396	chr6	85072041	85072540
MRT_46488	2.632062046	2.379891201	38.35001192	1.02E-06	0.000115198982	chr1	86651458	86651957
MRT_187244	2.630940901	3.075465002	55.666392	3.59E-08	8.65E-06	chr2	175629632	175630131
MRT_567949	2.63081309	2.4237207	23.05235765	4.60E-05	0.002132198466	chr7	83075267	83075766
MRT_861302	2.630425476	2.215759551	24.49868914	3.06E-05	1.55E-03	chr12	42020946	42021445
MRT_1269822	2.629899598	2.204825145	43.17348117	3.69E-07	5.21E-05	chrX	131972060	131972559
MRT_263080	2.629591475	2.222059893	50.77682394	8.55E-08	1.71E-05	chr3	100516737	100517236
MRT_60436	2.629476825	2.760571828	68.24256777	4.81E-09	1.95E-06	chr1	118790129	118790628
MRT_504139	2.62915078	2.198713422	33.82742055	2.83E-06	2.52E-04	chr6	113016164	113016663
MRT_290305	2.629084347	3.304307103	45.51318102	2.32E-07	3.67E-05	chr3	159599466	159599965
MRT_343868	2.628643583	2.527079589	35.00197082	2.15E-06	0.000204519331	chr4	95378838	95379337
MRT_658039	2.628530892	2.300581271	24.55699372	3.01E-05	0.001530780713	chr8	131556856	131557355
MRT_36640	2.627089483	3.018415471	30.34928435	6.56E-06	4.81E-04	chr1	61369166	61369665
MRT_861447	2.626611457	2.415836315	31.61370648	4.80E-06	3.80E-04	chr12	42408851	42409350
MRT_44798	2.625180752	2.201400264	36.16369915	1.65E-06	1.66E-04	chr1	82618618	82619117
MRT_11263	2.625067497	3.127648949	27.41905471	1.39E-05	0.000847361878	chr1	18609652	18610151
MRT_724600	2.624907185	2.886140681	32.05424935	4.32E-06	0.000350442041	chr10	11059610	11060109
MRT_209890	2.624398354	2.415238647	43.12687709	3.73E-07	5.23E-05	chr2	225803299	225803798
MRT_163462	2.624263538	2.602319127	33.026709	3.42E-06	2.92E-04	chr2	120133937	120134436
MRT_490862	2.624144805	2.993585397	61.57598122	1.35E-08	4.08E-06	chr6	80280104	80280603

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_330710	2.623762192	2.635984708	60.87917401	1.51E-08	4.44E-06	chr4	57593292	57593791
MRT_853967	2.623201975	2.883367092	40.88256616	5.92E-07	7.54E-05	chr12	19542564	19543063
MRT_567939	2.622754065	2.266211416	47.41521007	1.60E-07	2.77E-05	chr7	83044355	83044854
MRT_438127	2.622481887	2.613124217	53.5968969	5.15E-08	1.15E-05	chr5	141887961	141888460
MRT_354482	2.621094555	2.867587183	17.32253175	2.65E-04	0.008430618788	chr4	124698399	124698898
MRT_691096	2.621063471	3.402025966	14.95544366	5.87E-04	1.58E-02	chr9	89775319	89775818
MRT_954302	2.620873754	2.413830185	29.2664253	8.61E-06	5.89E-04	chr14	42997092	42997591
MRT_1247608	2.620829622	2.540237634	53.82487183	4.95E-08	1.12E-05	chrX	13740240	13740739
MRT_190942	2.620033751	2.514634521	30.97600311	5.61E-06	4.27E-04	chr2	184108416	184108915
MRT_85776	2.618922019	2.363308419	40.43561055	6.51E-07	8.10E-05	chr1	198861190	198861689
MRT_855980	2.61875316	2.295865163	32.44988702	3.92E-06	3.25E-04	chr12	24940658	24941157
MRT_800216	2.61826487	2.315414034	37.16377752	1.32E-06	1.42E-04	chr11	35938867	35939366
MRT_1179780	2.61812185	2.553808783	30.05743053	7.05E-06	5.09E-04	chr20	5684327	5684826
MRT_823592	2.617527679	2.185475313	29.34671194	8.44E-06	5.80E-04	chr11	91127898	91128397
MRT_620625	2.616932945	2.855128488	25.04400547	2.63E-05	1.39E-03	chr8	39770121	39770620
MRT_1223846	2.616862532	3.555050047	60.91200887	1.50E-08	4.42E-06	chr22	17745199	17745698
MRT_932182	2.615992374	3.048773347	27.49198487	1.36E-05	8.34E-04	chr13	81216595	81217094
MRT_610443	2.613935147	2.796959832	32.84112664	3.57E-06	0.000303532292	chr8	17719517	17720016
MRT_569634	2.613653272	2.590802962	57.31951522	2.71E-08	7.05E-06	chr7	87830037	87830536
MRT_409110	2.61355737	2.799314395	51.33480181	7.73E-08	1.58E-05	chr5	73962381	73962880
MRT_760279	2.613147137	2.585705733	27.03568077	1.54E-05	0.000910800601	chr10	92690712	92691211
MRT_258684	2.613037373	2.405189144	49.9231509	1.00E-07	1.93E-05	chr3	81444377	81444876
MRT_330722	2.612754015	2.434960864	64.02547286	9.15E-09	3.13E-06	chr4	57609574	57610073
MRT_882743	2.612203563	2.363643431	28.21905138	1.13E-05	0.000722899065	chr12	90169090	90169589
MRT_155599	2.612112724	2.673331974	30.80865767	5.85E-06	4.40E-04	chr2	100279113	100279612
MRT_349162	2.611994992	2.918871119	45.44906261	2.35E-07	3.70E-05	chr4	110223875	110224374
MRT_17164	2.611602525	3.255537641	86.04829334	4.22E-10	3.65E-07	chr1	27126295	27126794
MRT_45200	2.611536991	3.034397606	19.32275416	1.40E-04	0.005098264229	chr1	83993735	83994234
MRT_505597	2.611524031	3.065495821	78.20083545	1.17E-09	7.06E-07	chr6	116854651	116855150
MRT_504208	2.611430095	2.592617187	31.6907112	4.71E-06	0.000374812564	chr6	113202184	113202683

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_691166	2.611174961	3.168313433	20.47721825	9.83E-05	0.003873855474	chr9	89882538	89883037
MRT_290383	2.610539472	2.539743541	31.40896258	5.05E-06	0.000395025390	chr3	159718030	159718529
MRT_1016368	2.610035819	2.739371963	29.75706974	7.61E-06	0.000538050621	chr15	82206569	82207068
MRT_426798	2.609439753	2.170806678	22.90630634	4.80E-05	2.21E-03	chr5	119343109	119343608
MRT_990415	2.609319211	2.287801563	50.65329036	8.75E-08	1.74E-05	chr15	33321443	33321942
MRT_917736	2.60898724	3.015966227	75.72996931	1.64E-09	8.79E-07	chr13	41567162	41567661
MRT_1024753	2.608259851	2.832693924	89.12510982	2.88E-10	2.79E-07	chr15	99560007	99560506
MRT_670971	2.607974315	2.838313998	44.00873789	3.12E-07	4.57E-05	chr9	13166315	13166814
MRT_930128	2.607850467	2.807416461	30.57512388	6.20E-06	0.000460615008	chr13	76362729	76363228
MRT_545096	2.607505041	2.26365476	31.61640437	4.80E-06	3.80E-04	chr7	28332689	28333188
MRT_967743	2.6070503	2.622332918	32.47045261	3.90E-06	3.24E-04	chr14	71256642	71257141
MRT_743250	2.606572717	2.24486281	26.77699551	1.64E-05	0.000962484401	chr10	54010125	54010624
MRT_106638	2.605716078	2.612728581	31.49673096	4.94E-06	0.000387364929	chr1	240753012	240753511
MRT_163464	2.604624642	2.52641235	46.60069063	1.87E-07	3.12E-05	chr2	120135745	120136244
MRT_880195	2.604473751	2.667315585	20.2247568	1.06E-04	4.11E-03	chr12	81489351	81489850
MRT_7113	2.604285007	3.202547525	28.25713828	1.12E-05	0.000717354146	chr1	11402129	11402628
MRT_863609	2.603654398	2.331932613	36.51462082	1.53E-06	1.58E-04	chr12	46552866	46553365
MRT_326888	2.603369638	2.393166678	24.34962341	3.19E-05	0.00159989473	chr4	45123411	45123910
MRT_512761	2.601909521	2.984656142	65.3663345	7.43E-09	2.68E-06	chr6	134638875	134639374
MRT_706715	2.601838478	2.367473215	29.36189848	8.40E-06	5.79E-04	chr9	122046344	122046843
MRT_544967	2.600170407	2.200019144	23.43590502	4.12E-05	0.001955941615	chr7	28080973	28081472
MRT_252312	2.5994652	2.845709362	49.42537737	1.10E-07	2.06E-05	chr3	65842378	65842877
MRT_572701	2.599349458	2.693966285	52.64766093	6.10E-08	1.30E-05	chr7	95101815	95102314
MRT_198751	2.599247516	2.823808602	38.01681998	1.10E-06	0.000122156539	chr2	202748286	202748785
MRT_435100	2.598144004	2.527657429	25.49269311	2.32E-05	0.001263191579	chr5	137183223	137183722
MRT_796238	2.597703336	2.838069504	40.29685297	6.70E-07	8.28E-05	chr11	27225160	27225659
MRT_1267562	2.5969492	2.074817955	29.00009989	9.21E-06	0.000619620207	chrX	119861304	119861803
MRT_931712	2.595490133	2.196974254	32.12104679	4.25E-06	3.47E-04	chr13	80373159	80373658
MRT_796232	2.594826122	3.058309205	36.46423519	1.55E-06	1.59E-04	chr11	27218426	27218925
MRT_259462	2.594714777	2.127922788	39.52719599	7.90E-07	9.46E-05	chr3	84650456	84650955

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_879875	2.594231816	3.153989429	22.98330216	4.69E-05	0.002166948383	chr12	80813383	80813882
MRT_374155	2.593615312	2.472163767	89.66499507	2.70E-10	2.71E-07	chr4	173959336	173959835
MRT_879878	2.593553148	2.500746057	29.34771057	8.43E-06	0.000580243643	chr12	80816829	80817328
MRT_190943	2.592945707	2.748176558	26.14945867	1.95E-05	1.10E-03	chr2	184109107	184109606
MRT_622267	2.591454321	2.703406214	56.98496028	2.87E-08	7.40E-06	chr8	42402430	42402929
MRT_258883	2.590607405	2.120355361	31.2040921	5.31E-06	4.09E-04	chr3	81979520	81980019
MRT_55318	2.590395152	2.240744297	52.67317226	6.07E-08	1.30E-05	chr1	109138069	109138568
MRT_880013	2.590137499	2.358950377	24.51166694	3.05E-05	0.001544622544	chr12	81092030	81092529
MRT_844397	2.589967032	2.835721766	62.3374221	1.19E-08	3.76E-06	chr12	772198	772697
MRT_1009068	2.58874284	2.361272993	28.33866566	1.09E-05	0.000708043216	chr15	69818584	69819083
MRT_210151	2.588370255	2.42114141	55.04313606	4.00E-08	9.43E-06	chr2	226425979	226426478
MRT_1006301	2.587435708	2.6058619	36.28654313	1.61E-06	0.000163446769	chr15	65407831	65408330
MRT_675698	2.586833489	2.758114982	37.77086841	1.16E-06	1.27E-04	chr9	20700792	20701291
MRT_370456	2.586831406	2.284853768	50.72763645	8.63E-08	1.72E-05	chr4	162487287	162487786
MRT_636338	2.58645713	2.479584366	65.7800883	6.98E-09	2.57E-06	chr8	81159056	81159555
MRT_101659	2.586352836	3.287566548	28.12706881	1.15E-05	0.000733783643	chr1	229828820	229829319
MRT_504187	2.586185276	2.376934194	29.45536932	8.21E-06	0.000570258818	chr6	113156302	113156801
MRT_1022055	2.585411363	2.42307554	42.77736373	4.00E-07	5.53E-05	chr15	94363066	94363565
MRT_1213921	2.584688161	2.737399704	41.74579558	4.95E-07	6.56E-05	chr21	30502886	30503385
MRT_858316	2.584445102	2.198028121	45.36450862	2.39E-07	3.74E-05	chr12	29883444	29883943
MRT_352489	2.584253785	2.976573259	22.88446753	4.83E-05	0.002222916563	chr4	119955258	119955757
MRT_568714	2.583225828	2.35528955	20.62550331	9.39E-05	0.003743427719	chr7	84953760	84954259
MRT_265236	2.582718829	2.665816391	34.35428168	2.50E-06	0.000228819700	chr3	106546356	106546855
MRT_932432	2.582013911	2.140622159	39.18004485	8.51E-07	0.000100738078	chr13	81678090	81678589
MRT_932053	2.581284566	3.216758139	19.692	1.25E-04	0.004682232518	chr13	81011603	81012102
MRT_545474	2.581195958	2.157727897	34.33234021	2.52E-06	2.30E-04	chr7	29007226	29007725
MRT_258963	2.5806682	2.374366752	44.01629956	3.12E-07	4.57E-05	chr3	82108069	82108568
MRT_96180	2.580158313	2.745513642	25.19929392	2.52E-05	1.34E-03	chr1	219608119	219608618
MRT_1123798	2.580113718	2.087735933	28.32238983	1.10E-05	7.10E-04	chr18	31077632	31078131
MRT_267315	2.579807068	2.625643887	43.44911922	3.49E-07	4.99E-05	chr3	111643152	111643651

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1203947	2.579786007	2.838435771	36.39055495	1.57E-06	0.000160160808	chr20	57220795	57221294
MRT_354533	2.579255007	2.403381479	31.04752677	5.52E-06	0.000421744291	chr4	124791302	124791801
MRT_1262871	2.578699225	2.064840148	17.83558459	2.24E-04	0.007402503867	chrX	94766912	94767411
MRT_938340	2.578665276	2.431867753	50.60562204	8.82E-08	1.75E-05	chr13	99590180	99590679
MRT_875102	2.578570943	2.732768866	58.58132067	2.20E-08	5.92E-06	chr12	69400849	69401348
MRT_1252254	2.577992704	2.347617982	22.70565097	5.08E-05	2.31E-03	chrX	33222875	33223374
MRT_90150	2.577560113	2.340764603	78.92816043	1.26E-09	7.37E-07	chr1	206511148	206511647
MRT_800210	2.577447	2.424797813	38.27363148	1.04E-06	0.000116925490	chr11	35927288	35927787
MRT_726773	2.576400119	2.25086774	44.95601186	2.59E-07	4.02E-05	chr10	14289754	14290253
MRT_296131	2.575864825	2.758651372	45.8766617	2.16E-07	3.46E-05	chr3	174868796	174869295
MRT_259660	2.575741218	2.188505074	37.01721371	1.37E-06	0.000145058156	chr3	85609438	85609937
MRT_550540	2.575608313	2.621799447	21.15130046	8.02E-05	0.003321294898	chr7	39112981	39113480
MRT_577799	2.575457498	2.516273657	56.73990144	2.99E-08	7.55E-06	chr7	105094760	105095259
MRT_962415	2.575282491	2.295739606	67.74234999	5.18E-09	2.06E-06	chr14	61501233	61501732
MRT_260050	2.575040847	2.341897259	20.1408074	1.09E-04	0.004193604906	chr3	86949253	86949752
MRT_505596	2.574710452	2.429634981	54.09022639	4.73E-08	1.08E-05	chr6	116854002	116854501
MRT_837317	2.573635821	3.274593407	38.8329936	9.17E-07	0.000106191635	chr11	121762761	121763260
MRT_587784	2.573537542	4.177980246	24.25116118	3.28E-05	0.001631705805	chr7	130005363	130005862
MRT_932256	2.573357349	3.070481265	17.93907904	2.17E-04	0.007222038247	chr13	81356579	81357078
MRT_613548	2.57317421	2.303496158	33.75470621	2.88E-06	0.000256021207	chr8	24010098	24010597
MRT_538705	2.572511611	2.353842603	24.46788667	3.08E-05	1.56E-03	chr7	15071150	15071649
MRT_880009	2.572505381	2.928030574	23.74657591	3.77E-05	0.001822651737	chr12	81085766	81086265
MRT_1139317	2.572154292	2.390016803	26.0147979	2.02E-05	0.001132594251	chr18	67252943	67253442
MRT_759531	2.57199037	3.867411555	25.38895886	2.39E-05	1.29E-03	chr10	90712365	90712864
MRT_823600	2.571925335	2.170638257	36.43159771	1.56E-06	0.000159360840	chr11	91158710	91159209
MRT_1208532	2.571651277	2.45477603	36.6561998	1.48E-06	0.000154072546	chr21	16493838	16494337
MRT_1203946	2.571507243	2.719728615	33.02520371	3.42E-06	0.000292477593	chr20	57220274	57220773
MRT_504221	2.571325656	2.760822115	23.62498592	3.91E-05	0.001869170476	chr6	113233622	113234121
MRT_484438	2.570503609	2.611566479	25.70002893	2.20E-05	1.21E-03	chr6	56097170	56097669
MRT_1113350	2.570362894	2.036647351	37.21918706	1.31E-06	0.000140336843	chr18	4832722	4833221

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_265225	2.570059375	2.801091501	37.12123794	1.33E-06	1.43E-04	chr3	106532982	106533481
MRT_1094233	2.56966875	2.192704597	33.99092376	2.72E-06	0.000244638160	chr17	54305523	54306022
MRT_487466	2.569057403	2.269145708	25.45065857	2.35E-05	0.001273322981	chr6	70841372	70841871
MRT_1021392	2.569044381	2.730206103	38.77142751	9.29E-07	1.07E-04	chr15	93166590	93167089
MRT_141948	2.568306197	2.473270292	35.59215905	1.88E-06	0.000183638626	chr2	63970210	63970709
MRT_766796	2.568121213	2.787276087	61.01496033	1.48E-08	4.37E-06	chr10	104028670	104029169
MRT_1246882	2.567003359	2.4085309	21.49823089	7.24E-05	3.06E-03	chrX	11909009	11909508
MRT_192179	2.566855134	2.587511069	30.89935712	5.72E-06	4.33E-04	chr2	187939733	187940232
MRT_96178	2.565134459	2.821227658	22.83388174	4.90E-05	0.00224574113	chr1	219606244	219606743
MRT_795625	2.565052567	2.272039229	28.83481736	9.61E-06	6.41E-04	chr11	26293418	26293917
MRT_545100	2.564944441	2.628776268	38.66201394	9.51E-07	1.09E-04	chr7	28340741	28341240
MRT_938371	2.564673144	3.011796615	62.31086338	1.20E-08	3.76E-06	chr13	99630091	99630590
MRT_202624	2.564473526	2.494340753	30.97978065	5.61E-06	4.27E-04	chr2	210337504	210338003
MRT_354705	2.564433495	2.268830914	43.70835041	3.32E-07	4.80E-05	chr4	125140998	125141497
MRT_252794	2.564099358	2.497242483	44.47687872	2.84E-07	4.29E-05	chr3	66660466	66660965
MRT_348993	2.56253978	2.333824377	31.5597613	4.87E-06	0.000383350830	chr4	109802306	109802805
MRT_268929	2.561249726	2.432887707	35.64701725	1.86E-06	0.000182406053	chr3	114611282	114611781
MRT_210067	2.560949565	2.092610661	43.24353917	4.15E-07	5.67E-05	chr2	226264147	226264646
MRT_351051	2.560790873	2.556554697	39.04728981	8.75E-07	1.03E-04	chr4	114367120	114367619
MRT_352483	2.559989758	2.565033888	32.62600343	3.76E-06	0.000314689446	chr4	119948879	119949378
MRT_504330	2.559781629	3.377003086	18.62086479	1.75E-04	0.006099264195	chr6	113442052	113442551
MRT_1266912	2.558363275	2.220599101	42.45536619	4.28E-07	5.81E-05	chrX	117998201	117998700
MRT_281894	2.558014842	3.418486603	86.51195767	3.98E-10	3.61E-07	chr3	140730329	140730828
MRT_932315	2.557985788	2.763387051	25.56920118	2.28E-05	1.24E-03	chr13	81452294	81452793
MRT_36516	2.557794812	2.370207569	28.79541522	9.71E-06	0.000645384450	chr1	61030513	61031012
MRT_200026	2.556931363	2.342933107	33.62252273	2.97E-06	2.62E-04	chr2	204596729	204597228
MRT_821880	2.556470974	3.314577634	49.22835565	1.14E-07	2.12E-05	chr11	85862188	85862687
MRT_569697	2.556152962	2.086848439	32.65133987	3.74E-06	3.14E-04	chr7	87977540	87978039
MRT_349559	2.555841235	2.324425279	38.06775443	1.08E-06	0.000121334966	chr4	111030175	111030674
MRT_1006945	2.555487823	2.936425563	66.89882147	5.88E-09	2.25E-06	chr15	66315545	66316044

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_762041	2.555468337	2.410213792	53.10335593	5.62E-08	1.22E-05	chr10	95701274	95701773
MRT_990465	2.555199171	2.257733329	36.49810518	1.53E-06	0.000158007180	chr15	33416437	33416936
MRT_538250	2.555024224	3.855523397	29.5803855	7.95E-06	5.57E-04	chr7	13959714	13960213
MRT_504132	2.554759685	2.07509951	28.66382884	1.00E-05	0.000662338594	chr6	113005022	113005521
MRT_46748	2.554443755	2.968760458	29.37079775	8.38E-06	5.78E-04	chr1	87258338	87258837
MRT_511670	2.554200841	2.282174091	29.53369208	8.05E-06	0.000561949332	chr6	133006601	133007100
MRT_1121235	2.553592393	2.183063021	32.08655292	4.28E-06	0.000348163313	chr18	23096731	23097230
MRT_877089	2.552543471	2.115220626	33.47697598	3.07E-06	0.000268418177	chr12	75374334	75374833
MRT_259745	2.551968237	2.119901917	27.20901729	1.47E-05	0.000883227589	chr3	85891186	85891685
MRT_1050476	2.551333323	2.22134685	29.83966349	7.45E-06	0.000529574611	chr16	64504186	64504685
MRT_642141	2.55118121	2.551790575	28.15034644	1.15E-05	0.000731440925	chr8	97431819	97432318
MRT_1004990	2.550390413	2.53038829	26.25749398	1.89E-05	0.00107373769	chr15	63556986	63557485
MRT_796252	2.550229646	3.523787352	31.59110464	4.83E-06	0.000381381321	chr11	27237768	27238267
MRT_60463	2.548680414	2.445311239	39.57787853	7.81E-07	9.39E-05	chr1	118847467	118847966
MRT_333000	2.547893682	2.213487516	24.14588116	3.37E-05	1.67E-03	chr4	67918496	67918995
MRT_370479	2.547829118	2.27048041	27.73044445	1.28E-05	7.95E-04	chr4	162592758	162593257
MRT_1134442	2.547756916	2.81029311	41.35440698	5.37E-07	6.98E-05	chr18	54265672	54266171
MRT_560780	2.547599361	2.266154079	24.92993378	2.71E-05	1.42E-03	chr7	67590244	67590743
MRT_620643	2.546194594	2.441513331	37.11699398	1.34E-06	0.000142711182	chr8	39793873	39794372
MRT_861200	2.545955561	2.541204096	18.00538713	2.12E-04	7.11E-03	chr12	41755498	41755997
MRT_504405	2.545830334	2.364462174	27.32236173	1.42E-05	8.63E-04	chr6	113614119	113614618
MRT_690723	2.545577856	2.525037614	26.16193822	1.94E-05	1.10E-03	chr9	89215773	89216272
MRT_998185	2.545386845	3.006156321	34.54049365	2.40E-06	0.000222178569	chr15	49181136	49181635
MRT_500604	2.544992501	2.292726153	34.46965481	2.44E-06	0.000224715190	chr6	107219933	107220432
MRT_366723	2.544626927	2.474925924	36.85401714	1.42E-06	0.000148920789	chr4	153566561	153567060
MRT_942883	2.544275921	2.621196766	40.13937041	6.93E-07	8.52E-05	chr13	111659405	111659904
MRT_690654	2.542705607	2.495888838	57.76965666	2.52E-08	6.63E-06	chr9	89126622	89127121
MRT_501226	2.542313407	2.745113718	33.06985803	3.38E-06	0.000289877778	chr6	108140098	108140597
MRT_958591	2.541937521	3.026304526	20.73765871	9.08E-05	3.64E-03	chr14	54317011	54317510
MRT_492070	2.541696167	2.153062392	25.91550718	2.07E-05	0.001155223934	chr6	83322110	83322609

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_620691	2.541371775	2.755033492	37.78108534	1.15E-06	1.27E-04	chr8	39872910	39873409
MRT_636319	2.540363654	2.512700519	68.80933681	4.42E-09	1.84E-06	chr8	81123367	81123866
MRT_856077	2.539995804	2.48201477	41.77031133	4.92E-07	6.54E-05	chr12	25098150	25098649
MRT_740642	2.539524965	2.978491137	14.4937868	0.000689304617	0.01791465979	chr10	45596378	45596877
MRT_950272	2.539234887	2.95677787	25.97892896	2.04E-05	1.14E-03	chr14	32939411	32939910
MRT_690697	2.538368696	2.744660968	32.64101922	3.75E-06	3.14E-04	chr9	89178519	89179018
MRT_193169	2.53760263	2.795093501	34.84717984	2.23E-06	0.000209741863	chr2	189717095	189717594
MRT_895293	2.537513471	2.581535365	33.39632472	3.13E-06	0.000272976833	chr12	113259838	113260337
MRT_508727	2.537393188	2.057508053	26.06461726	1.99E-05	0.001119447251	chr6	125322303	125322802
MRT_52251	2.537385993	2.612059514	17.73055568	0.000232021823	0.007604200503	chr1	98788882	98789381
MRT_722185	2.53685579	2.445325617	24.13436788	3.38E-05	0.001672819882	chr10	4893978	4894477
MRT_336779	2.535185755	2.781253476	25.73768622	2.17E-05	1.20E-03	chr4	77356103	77356602
MRT_688862	2.535151937	2.353654171	22.45904	5.46E-05	2.44E-03	chr9	85170610	85171109
MRT_323393	2.534960746	2.573182339	39.30294247	8.28E-07	9.83E-05	chr4	37663322	37663821
MRT_590250	2.534603989	2.492305187	43.84061442	3.23E-07	4.70E-05	chr7	134212859	134213358
MRT_93274	2.534540526	2.308914276	20.58637897	9.51E-05	0.003784390979	chr1	212702549	212703048
MRT_285627	2.534258623	2.683029955	46.43733186	1.93E-07	3.19E-05	chr3	149191281	149191780
MRT_897376	2.534008842	2.47985814	32.75150401	3.65E-06	0.000308830836	chr12	117156651	117157150
MRT_337264	2.533893017	3.295106031	33.7767192	2.86E-06	0.000254880506	chr4	78090434	78090933
MRT_1135584	2.533713817	2.389948365	47.48030194	1.58E-07	2.75E-05	chr18	56245549	56246048
MRT_1002009	2.533367426	2.770365274	50.33611874	9.27E-08	1.81E-05	chr15	57551709	57552208
MRT_539319	2.532332761	3.258636186	31.15938582	5.37E-06	0.000412208265	chr7	16067118	16067617
MRT_708204	2.530706641	2.528196068	43.77124131	3.27E-07	4.75E-05	chr9	124802197	124802696
MRT_1252284	2.530524493	2.661416344	16.673964	3.28E-04	0.009952746759	chrX	33357339	33357838
MRT_252959	2.530455482	2.306558439	29.94750091	7.25E-06	5.21E-04	chr3	66958024	66958523
MRT_1009079	2.530328173	2.510345883	31.25472947	5.24E-06	0.000405513719	chr15	69831596	69832095
MRT_505317	2.530054645	2.458991975	25.43559704	2.36E-05	0.001277480813	chr6	116330103	116330602
MRT_690692	2.52970238	2.36111375	41.75413793	4.94E-07	6.56E-05	chr9	89172771	89173270
MRT_873281	2.529346566	3.0389341	25.61307305	2.25E-05	0.001232909099	chr12	65982425	65982924
MRT_512742	2.529063606	2.692851187	67.43747614	5.42E-09	2.11E-06	chr6	134609251	134609750

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_932023	2.528963393	2.366434652	41.39193923	5.33E-07	6.95E-05	chr13	80956415	80956914
MRT_825669	2.527319651	2.768303657	47.77739481	1.50E-07	2.63E-05	chr11	95894579	95895078
MRT_438159	2.527248741	2.776960214	75.15818683	1.78E-09	9.17E-07	chr5	141922402	141922901
MRT_508774	2.526483094	2.218552066	25.72037761	2.18E-05	0.001205792312	chr6	125416646	125417145
MRT_372489	2.526136644	3.673129333	17.25129027	2.71E-04	0.008596665025	chr4	169510164	169510663
MRT_260018	2.52592157	3.359383279	14.82445302	6.14E-04	0.01633031367	chr3	86877808	86878307
MRT_957901	2.525249797	3.300425358	19.54705625	1.31E-04	4.85E-03	chr14	53302044	53302543
MRT_748986	2.524442976	2.595369123	48.67005737	1.26E-07	2.31E-05	chr10	70631625	70632124
MRT_990511	2.524352757	2.301090946	37.09595555	1.34E-06	0.000143138907	chr15	33503291	33503790
MRT_209765	2.524121732	2.443766985	20.23567629	1.06E-04	4.09E-03	chr2	225546785	225547284
MRT_1149827	2.524044226	2.534562817	42.7372585	4.04E-07	5.54E-05	chr19	8101341	8101840
MRT_1114142	2.524032884	3.527080585	19.30955575	0.000140641034	0.005109729294	chr18	6607536	6608035
MRT_320561	2.523471281	2.456961604	51.56431021	7.41E-08	1.53E-05	chr4	26085424	26085923
MRT_765835	2.523362374	3.955768505	19.95177237	1.15E-04	0.004394001414	chr10	102650305	102650804
MRT_950299	2.522892357	3.371276042	20.56585709	9.57E-05	3.80E-03	chr14	32978900	32979399
MRT_407957	2.522823767	2.442853089	23.66997424	3.86E-05	0.001851799462	chr5	71774609	71775108
MRT_565262	2.522455753	1.96867192	22.13465941	6.00E-05	2.63E-03	chr7	76475629	76476128
MRT_568690	2.520210146	2.348051281	20.79133497	8.94E-05	0.003607292298	chr7	84914718	84915217
MRT_798626	2.520133132	2.662177013	67.59882777	5.29E-09	2.09E-06	chr11	33131607	33132106
MRT_430021	2.520002165	2.602405868	21.46739043	7.30E-05	3.08E-03	chr5	126337430	126337929
MRT_729937	2.519635114	3.522238795	42.74294811	4.03E-07	5.54E-05	chr10	21607523	21608022
MRT_990519	2.519442088	2.17208116	32.26503254	4.10E-06	0.000337387833	chr15	33519153	33519652
MRT_478063	2.519074423	3.314710032	48.90194489	1.21E-07	2.22E-05	chr6	41998343	41998842
MRT_419432	2.51821747	2.232691545	34.66259359	2.33E-06	2.18E-04	chr5	97844930	97845429
MRT_1208542	2.518155089	2.223733248	35.51014133	1.92E-06	0.000186091709	chr21	16512090	16512589
MRT_637198	2.517687865	2.43966311	18.7908577	0.000165442221	0.005811049216	chr8	82936807	82937306
MRT_732912	2.517188561	2.597961648	76.53725748	1.47E-09	8.24E-07	chr10	27889759	27890258
MRT_743172	2.517123795	2.138325824	24.60114307	2.97E-05	0.001515765061	chr10	53758771	53759270
MRT_958592	2.516548141	3.183237904	18.10650748	2.06E-04	0.006944657999	chr14	54317584	54318083
MRT_1194524	2.516136674	2.214383976	31.71834987	4.68E-06	0.000373003685	chr20	40104665	40105164

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_500582	2.515784828	2.514343884	43.13189312	3.73E-07	5.23E-05	chr6	107178665	107179164
MRT_932461	2.5153167	2.045859965	29.85676539	7.42E-06	0.000527599280	chr13	81747462	81747961
MRT_281892	2.514974102	2.286793034	41.86837629	4.83E-07	6.43E-05	chr3	140728305	140728804
MRT_1266661	2.514683665	2.095833381	26.6151291	1.72E-05	0.000997549885	chrX	117355191	117355690
MRT_119960	2.514565474	2.613773547	42.46135465	4.27E-07	5.81E-05	chr2	17973634	17974133
MRT_932310	2.513874083	2.874317387	37.99460012	1.10E-06	1.23E-04	chr13	81447686	81448185
MRT_1223848	2.513132179	3.528596317	46.98210545	1.74E-07	2.95E-05	chr22	17747419	17747918
MRT_95245	2.512784447	2.024256921	31.17362157	5.35E-06	4.11E-04	chr1	217641363	217641862
MRT_636005	2.512684515	2.72620061	36.65113276	1.48E-06	0.000154072546	chr8	80675771	80676270
MRT_686438	2.510764738	2.824720882	15.61856592	4.67E-04	0.01318991261	chr9	79316297	79316796
MRT_92066	2.510277591	2.499273982	22.84285568	4.88E-05	2.24E-03	chr1	210619715	210620214
MRT_210104	2.510077517	2.351226148	44.53753283	2.81E-07	4.25E-05	chr2	226328302	226328801
MRT_958493	2.509757937	2.845116147	22.5582821	5.30E-05	0.002388670148	chr14	54159575	54160074
MRT_823818	2.509748004	2.000513683	22.5881534	5.26E-05	0.002369776212	chr11	92030984	92031483
MRT_908388	2.509362917	2.391674642	31.68367968	4.72E-06	0.000375218888	chr13	23277939	23278438
MRT_84591	2.509320675	2.253442472	37.54219931	1.22E-06	1.32E-04	chr1	195904359	195904858
MRT_319036	2.508166146	2.375195927	41.39304111	5.33E-07	6.95E-05	chr4	22686957	22687456
MRT_60531	2.507688874	2.699646343	36.6950324	1.47E-06	1.53E-04	chr1	119107040	119107539
MRT_118024	2.507409897	2.707363123	71.33827196	3.05E-09	1.39E-06	chr2	13070513	13071012
MRT_468198	2.506887778	2.3866941	30.37816826	6.51E-06	4.79E-04	chr6	23735377	23735876
MRT_726889	2.50498353	2.442141232	46.8455026	1.79E-07	3.02E-05	chr10	14508958	14509457
MRT_690618	2.50458222	3.510588943	15.83857689	4.34E-04	0.01241763204	chr9	89074511	89075010
MRT_774792	2.504194169	3.163725534	32.31298613	4.05E-06	0.000333949090	chr10	121138188	121138687
MRT_80606	2.503699076	2.614326691	18.42790816	1.86E-04	6.40E-03	chr1	183643387	183643886
MRT_595859	2.503463338	2.431545181	15.79202762	4.41E-04	0.01256675815	chr7	146121220	146121719
MRT_152352	2.502818153	2.304230889	25.61934742	2.25E-05	0.001231870024	chr2	88365994	88366493
MRT_990467	2.502579784	2.600637539	54.71413718	4.24E-08	9.83E-06	chr15	33418291	33418790
MRT_281949	2.502262837	2.788448536	50.03896395	9.79E-08	1.89E-05	chr3	140813921	140814420
MRT_732916	2.501992605	2.757266247	29.14283762	8.88E-06	0.000602273048	chr10	27894279	27894778
MRT_476230	2.501717739	2.355205303	36.38859666	1.57E-06	1.60E-04	chr6	38342549	38343048

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_769790	2.501650755	3.123795583	24.84002466	2.78E-05	1.44E-03	chr10	111717233	111717732
MRT_1210262	2.501151838	2.244264782	43.21591331	3.66E-07	5.17E-05	chr21	19359966	19360465
MRT_796314	2.501094479	2.652153015	53.59750564	5.15E-08	1.15E-05	chr11	27316141	27316640
MRT_468853	2.500456207	2.419995921	41.06694712	5.70E-07	7.30E-05	chr6	24919640	24920139
MRT_139472	2.499155557	2.113906512	25.39822275	2.39E-05	0.001285112047	chr2	58518768	58519267
MRT_1050555	2.498170513	2.090904954	25.94646296	2.05E-05	1.15E-03	chr16	64779160	64779659
MRT_565293	2.497552306	2.22871683	52.94688054	5.78E-08	1.25E-05	chr7	76543932	76544431
MRT_106261	2.496878873	2.096886887	30.01155749	7.13E-06	5.14E-04	chr1	239778930	239779429
MRT_354346	2.496436116	2.478355804	29.22461186	8.70E-06	5.93E-04	chr4	124443725	124444224
MRT_565012	2.496355378	3.767874017	75.97084776	1.59E-09	8.79E-07	chr7	75936060	75936559
MRT_863612	2.495968751	2.532915061	34.07309587	2.67E-06	2.42E-04	chr12	46554772	46555271
MRT_503481	2.495766523	3.281969129	56.6017064	3.06E-08	7.61E-06	chr6	111873576	111874075
MRT_734114	2.495739343	2.88532733	42.29778305	4.42E-07	5.97E-05	chr10	29935112	29935611
MRT_1252247	2.495404957	2.24915279	20.43718748	9.95E-05	0.003902487281	chrX	33201451	33201950
MRT_657527	2.495192627	2.841409326	64.19987899	8.90E-09	3.06E-06	chr8	130894779	130895278
MRT_191180	2.495144112	2.176858871	21.75430719	6.71E-05	0.002880118644	chr2	184861760	184862259
MRT_220079	2.495067662	2.519153447	13.93382603	8.40E-04	0.02096268938	chr3	467767	468266
MRT_544954	2.494801218	2.552411554	34.02363854	2.70E-06	0.000243464032	chr7	28058662	28059161
MRT_669733	2.494584868	2.323737811	19.24939517	1.43E-04	0.00518404852	chr9	9045369	9045868
MRT_538955	2.494551777	2.667977374	24.37857414	3.16E-05	0.001590892708	chr7	15498082	15498581
MRT_669767	2.493872902	2.318055937	30.15648135	6.88E-06	4.99E-04	chr9	9142005	9142504
MRT_1213209	2.493752428	2.123500317	38.85229065	9.13E-07	0.000106027081	chr21	28865768	28866267
MRT_748472	2.493029207	2.662804383	34.42915383	2.46E-06	0.000225851620	chr10	69913782	69914281
MRT_762110	2.492932728	2.34193718	34.62315858	2.35E-06	0.000219495188	chr10	95813116	95813615
MRT_803188	2.492074507	3.588123603	27.1642056	1.48E-05	0.000889936357	chr11	44826580	44827079
MRT_931689	2.490904623	3.173972165	16.53172008	3.44E-04	1.03E-02	chr13	80324304	80324803
MRT_490857	2.490121464	2.73995543	40.60197921	6.28E-07	7.91E-05	chr6	80272892	80273391
MRT_492736	2.488105194	2.104921313	36.38749547	1.57E-06	1.60E-04	chr6	85071519	85072018
MRT_72933	2.487513152	2.083922892	25.78355116	2.15E-05	0.001190470646	chr1	168537752	168538251
MRT_929230	2.487481551	2.16178071	36.4441949	1.55E-06	0.000159155664	chr13	74340557	74341056

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1165573	2.48737545	2.5763664	49.02907861	1.18E-07	2.19E-05	chr19	40304148	40304647
MRT_772544	2.487368142	2.384924124	32.11195252	4.26E-06	0.000346701033	chr10	116420293	116420792
MRT_504133	2.486489145	2.270102257	28.84070719	9.60E-06	0.000639954995	chr6	113006284	113006783
MRT_620628	2.486164515	2.483447727	30.54596148	6.24E-06	0.000462875178	chr8	39772400	39772899
MRT_252958	2.485872112	2.167612409	25.94583179	2.06E-05	0.001148816036	chr3	66957508	66958007
MRT_36202	2.485530567	2.324459582	28.87141473	9.52E-06	6.36E-04	chr1	60158244	60158743
MRT_579076	2.485314589	2.327859763	34.98960924	2.16E-06	2.05E-04	chr7	107333919	107334418
MRT_45649	2.485135673	2.718041115	49.39392672	1.10E-07	2.07E-05	chr1	84766226	84766725
MRT_1250081	2.484656451	2.627153938	28.88578543	9.49E-06	0.000634618364	chrX	23311095	23311594
MRT_863859	2.483859432	2.724324959	20.74533803	9.06E-05	0.003639079171	chr12	46953045	46953544
MRT_320655	2.483835336	2.297209497	27.48197257	1.36E-05	8.35E-04	chr4	26228388	26228887
MRT_1249758	2.483616608	2.183270955	31.72945562	4.67E-06	0.000372466049	chrX	21798351	21798850
MRT_72884	2.482188682	2.653792085	38.50464118	9.84E-07	0.000111984846	chr1	168440276	168440775
MRT_85767	2.481542597	2.011668332	40.11615831	5.37E-06	4.12E-04	chr1	198834421	198834920
MRT_688704	2.48124598	2.251777979	25.58480535	2.27E-05	0.001240291163	chr9	84732332	84732831
MRT_594900	2.48116319	3.078978333	43.60474441	3.39E-07	4.88E-05	chr7	143602053	143602552
MRT_487480	2.481129066	2.137680561	28.90435765	9.44E-06	0.000631944976	chr6	70860325	70860824
MRT_249624	2.479957765	2.246513476	24.99476569	2.66E-05	1.40E-03	chr3	59691018	59691517
MRT_796237	2.479531382	2.895007554	42.08854937	4.61E-07	6.18E-05	chr11	27224657	27225156
MRT_863926	2.479512447	2.262880563	38.81425608	9.21E-07	0.000106428659	chr12	47086412	47086911
MRT_958426	2.47943685	2.877647573	28.22582448	1.12E-05	0.000721997836	chr14	54065784	54066283
MRT_873075	2.478700165	2.995737403	50.19968229	9.51E-08	1.85E-05	chr12	65727088	65727587
MRT_343187	2.478279294	2.218260994	21.71398215	6.79E-05	0.002900821973	chr4	91915950	91916449
MRT_151567	2.477192992	2.459895676	30.68365941	6.03E-06	4.51E-04	chr2	86183005	86183504
MRT_858226	2.477025908	2.185023617	49.88288135	1.84E-07	3.07E-05	chr12	29704650	29705149
MRT_1102833	2.476888077	2.803609405	39.10387216	8.65E-07	0.000101833467	chr17	67729754	67730253
MRT_577142	2.47687435	2.114322323	31.29541966	5.19E-06	4.02E-04	chr7	103767559	103768058
MRT_635554	2.476075263	2.627525608	23.37184165	4.20E-05	0.001981638371	chr8	78920872	78921371
MRT_78531	2.476001251	2.232954861	31.65903381	4.75E-06	0.000377003092	chr1	179906968	179907467
MRT_447724	2.475956857	2.02374039	23.23236573	4.37E-05	2.05E-03	chr5	163866725	163867224

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_419466	2.475788524	2.272659855	26.77855655	1.64E-05	9.62E-04	chr5	97971318	97971817
MRT_343052	2.475269028	2.253869277	22.45303729	5.47E-05	0.002444182249	chr4	91464925	91465424
MRT_689428	2.475209214	2.69716648	37.45520833	1.24E-06	0.000134302673	chr9	86549782	86550281
MRT_772555	2.474338884	2.736457995	48.06240567	1.42E-07	2.54E-05	chr10	116443992	116444491
MRT_45583	2.47414849	3.279306038	17.47452815	2.52E-04	0.008104865245	chr1	84639751	84640250
MRT_973270	2.473935733	2.491581691	33.71517401	2.91E-06	2.58E-04	chr14	81915490	81915989
MRT_417643	2.473462552	2.356431999	23.62148996	3.91E-05	0.001869181784	chr5	93576223	93576722
MRT_492701	2.473409535	2.101816935	20.73434247	9.09E-05	0.003645162419	chr6	84980097	84980596
MRT_139473	2.473230921	2.080452464	24.93558788	2.71E-05	0.001416489706	chr2	58519305	58519804
MRT_349752	2.472918963	2.508266891	46.65174781	1.86E-07	3.10E-05	chr4	111424926	111425425
MRT_435090	2.471941748	2.726189693	16.49089324	3.48E-04	0.01043946133	chr5	137171923	137172422
MRT_19559	2.471886655	2.788894341	49.79977291	1.02E-07	1.95E-05	chr1	30850518	30851017
MRT_863608	2.470963088	2.439524859	33.83574407	2.82E-06	0.000252083582	chr12	46552299	46552798
MRT_408001	2.470769929	2.501361259	71.7877241	2.86E-09	1.33E-06	chr5	71854157	71854656
MRT_823711	2.470398269	2.391698692	29.56739249	7.98E-06	0.000557491794	chr11	91605307	91605806
MRT_690809	2.47038981	2.657895157	38.38637603	1.01E-06	0.000114469095	chr9	89347416	89347915
MRT_326960	2.470342148	2.358299489	24.77399812	2.83E-05	0.001460695377	chr4	45347497	45347996
MRT_1234355	2.469907643	3.621768666	63.84583587	9.41E-09	3.17E-06	chr22	36245969	36246468
MRT_218508	2.469512603	3.11419309	41.27047825	5.46E-07	7.09E-05	chr2	241175944	241176443
MRT_932130	2.469361043	3.950253733	13.61798895	9.41E-04	0.02291869472	chr13	81136470	81136969
MRT_990411	2.469195336	2.589520786	54.9788872	4.05E-08	9.51E-06	chr15	33314728	33315227
MRT_476161	2.469035924	2.271715882	28.63555211	1.01E-05	0.000666120315	chr6	38230336	38230835
MRT_1134421	2.468965089	2.809562727	27.26742162	1.44E-05	0.000871795453	chr18	54232681	54233180
MRT_354524	2.46819891	2.268317185	28.71910054	9.90E-06	0.000654703634	chr4	124770425	124770924
MRT_192505	2.467365923	2.861011553	26.44235916	1.80E-05	0.001036169528	chr2	188479993	188480492
MRT_402438	2.467202252	2.296887683	27.95747506	1.21E-05	0.000759088183	chr5	58874349	58874848
MRT_372452	2.466024831	3.537232944	19.40508308	0.000136525514	0.005008300633	chr4	169461112	169461611
MRT_634381	2.465967433	3.159209003	25.31866396	2.44E-05	0.001307834253	chr8	75148567	75149066
MRT_619326	2.465866991	2.603935103	48.93786251	1.20E-07	2.22E-05	chr8	37469786	37470285
MRT_1112434	2.465109148	2.546343475	55.10176039	3.96E-08	9.38E-06	chr18	3179372	3179871

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_577800	2.464197806	2.320059986	44.45238974	2.86E-07	4.29E-05	chr7	105095304	105095803
MRT_277800	2.463480804	2.122611726	26.59676648	1.73E-05	0.00100107666	chr3	132506582	132507081
MRT_198923	2.463353503	3.195009359	11.50064586	2.06E-03	0.04225336176	chr2	202980079	202980578
MRT_330735	2.462987369	2.563709149	34.57713463	2.38E-06	0.000221116193	chr4	57628626	57629125
MRT_908577	2.462402636	2.255526351	50.99846272	8.21E-08	1.66E-05	chr13	23648576	23649075
MRT_1134348	2.461278664	1.970402309	27.31456662	1.43E-05	0.000863955723	chr18	54075091	54075590
MRT_885548	2.461244912	2.744398809	35.77220491	1.81E-06	0.000178876901	chr12	95008885	95009384
MRT_265405	2.461238133	3.639269429	18.30862463	1.93E-04	0.006612695944	chr3	106843577	106844076
MRT_752182	2.460913921	2.4682484	39.32668673	8.24E-07	9.79E-05	chr10	75314478	75314977
MRT_192455	2.459785221	3.114656156	30.13552114	6.92E-06	0.000500988281	chr2	188412077	188412576
MRT_587768	2.45948432	3.080166928	55.43757104	3.74E-08	8.93E-06	chr7	129984848	129985347
MRT_881941	2.459397675	2.25231397	34.62161762	2.35E-06	2.19E-04	chr12	88323142	88323641
MRT_990504	2.459099744	2.263378202	48.76258732	1.24E-07	2.28E-05	chr15	33493055	33493554
MRT_53053	2.458200589	2.391365967	43.28781978	3.61E-07	5.13E-05	chr1	100653478	100653977
MRT_873288	2.458131865	3.260528241	29.09374727	9.00E-06	0.000608224156	chr12	65988431	65988930
MRT_337283	2.458017291	2.408941134	38.18667179	1.06E-06	0.000118955266	chr4	78109893	78110392
MRT_567940	2.457816907	2.612775619	26.2754634	1.88E-05	0.001070668215	chr7	83044955	83045454
MRT_322155	2.457552018	2.238793741	40.92012126	5.88E-07	7.50E-05	chr4	32149645	32150144
MRT_374163	2.457154551	2.294991261	40.46477723	6.47E-07	8.08E-05	chr4	173977373	173977872
MRT_354516	2.457023901	2.270506539	27.64606721	1.31E-05	0.000808724257	chr4	124759557	124760056
MRT_539448	2.456778992	2.282249299	36.4742157	1.54E-06	0.000158727848	chr7	16274406	16274905
MRT_865910	2.456513541	2.60997571	34.0696535	2.67E-06	2.42E-04	chr12	50589592	50590091
MRT_351059	2.456513285	2.275023555	29.59267467	7.93E-06	0.000556088602	chr4	114375944	114376443
MRT_789653	2.456314726	2.703493245	32.46905395	3.91E-06	0.000323972155	chr11	12264810	12265309
MRT_565381	2.455635732	2.895535209	39.34712406	8.21E-07	9.75E-05	chr7	76736799	76737298
MRT_402439	2.455147452	2.45286337	28.08980037	1.16E-05	0.000739301083	chr5	58875267	58875766
MRT_582835	2.454566999	2.858374346	47.17044292	1.68E-07	2.86E-05	chr7	116802966	116803465
MRT_356728	2.453788752	2.633045213	14.83290607	6.12E-04	0.01629949516	chr4	130243987	130244486
MRT_655785	2.452860609	3.84172936	24.72820468	2.87E-05	1.48E-03	chr8	127846070	127846569
MRT_746050	2.452637929	2.383856308	33.63526052	2.96E-06	0.000261293957	chr10	63514324	63514823

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_500606	2.452450348	2.436115654	37.67657927	1.18E-06	0.000129698114	chr6	107221089	107221588
MRT_975942	2.45230396	2.813045293	44.68353096	2.73E-07	4.16E-05	chr14	90190695	90191194
MRT_760273	2.452266825	2.545989365	25.41306528	2.38E-05	0.001282087703	chr10	92680781	92681280
MRT_1229906	2.451297145	2.496631949	43.60268485	3.39E-07	4.88E-05	chr22	28358587	28359086
MRT_1266913	2.450865727	2.145330668	33.09967518	3.36E-06	0.000288321456	chrX	117998996	117999495
MRT_617327	2.450662012	2.331164868	35.62961275	1.87E-06	0.000182491157	chr8	31789111	31789610
MRT_258896	2.450513221	2.556495262	21.33762511	7.59E-05	3.18E-03	chr3	82001626	82002125
MRT_163466	2.44948877	2.430143679	35.75082504	1.82E-06	0.000179467385	chr2	120140859	120141358
MRT_265401	2.449371853	3.229921784	26.1958981	1.92E-05	0.001088260825	chr3	106838428	106838927
MRT_44779	2.449349915	2.207008631	22.10226826	6.06E-05	0.002645144487	chr1	82539075	82539574
MRT_692518	2.449089937	2.344133673	39.15724972	8.55E-07	0.000101045504	chr9	92292684	92293183
MRT_1262975	2.448258799	1.938863962	25.0355415	2.63E-05	0.001392026135	chrX	95499797	95500296
MRT_870831	2.448225988	2.28992435	27.34300042	1.42E-05	8.62E-04	chr12	59535962	59536461
MRT_818673	2.446466201	3.163416258	52.69097108	6.05E-08	1.30E-05	chr11	77741566	77742065
MRT_836973	2.44643556	2.442124927	26.92963667	1.58E-05	0.000931969321	chr11	121260244	121260743
MRT_1018371	2.446006364	2.191219302	24.85979216	2.77E-05	0.001439323286	chr15	86606174	86606673
MRT_155208	2.445966879	3.088639607	28.49399161	1.05E-05	0.000684430821	chr2	99525937	99526436
MRT_539038	2.445794755	2.299261016	42.16479057	4.54E-07	6.11E-05	chr7	15632961	15633460
MRT_64448	2.445552702	2.829728119	44.92755107	2.60E-07	4.03E-05	chr1	151553857	151554356
MRT_393670	2.445278334	2.032186408	16.29221615	0.000372301397	0.01098150592	chr5	34256763	34257262
MRT_962194	2.445235939	3.354112915	40.58877342	6.30E-07	7.92E-05	chr14	61121749	61122248
MRT_265316	2.44505737	2.489998798	28.59109064	1.02E-05	0.000672032061	chr3	106704283	106704782
MRT_258897	2.444810599	2.569599414	21.32701438	7.61E-05	0.003183453003	chr3	82002192	82002691
MRT_544940	2.44478046	2.316971966	29.25103251	8.64E-06	0.000590345727	chr7	28032676	28033175
MRT_285711	2.444198695	3.365190659	56.59497916	3.07E-08	7.61E-06	chr3	149299386	149299885
MRT_617373	2.443917577	3.065421776	15.33428741	0.000515028502	0.01422851777	chr8	31880939	31881438
MRT_258976	2.443882244	2.323300382	29.34682413	8.44E-06	0.000580243643	chr3	82127472	82127971
MRT_550694	2.443446918	2.325157345	20.20608887	1.07E-04	4.12E-03	chr7	39432947	39433446
MRT_804746	2.443411333	2.603420094	30.61157773	6.14E-06	0.000457542341	chr11	47126103	47126602
MRT_1249756	2.443384485	2.259504902	31.80941489	4.58E-06	0.000366686140	chrX	21796385	21796884

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_571623	2.443363581	2.384079974	25.51005488	2.31E-05	0.001258875003	chr7	92644686	92645185
MRT_567942	2.443351626	2.251378933	31.03451088	5.53E-06	0.000422841971	chr7	83057201	83057700
MRT_767415	2.442828229	2.414722902	37.66361136	1.18E-06	0.000129956553	chr10	104884967	104885466
MRT_330737	2.442562182	2.537331058	34.53275351	2.40E-06	0.000222178569	chr4	57630966	57631465
MRT_145223	2.4423901	2.584931223	32.12499129	4.24E-06	0.000346501618	chr2	69371074	69371573
MRT_346261	2.441876441	1.994196059	22.433932	5.50E-05	2.45E-03	chr4	102632938	102633437
MRT_953283	2.441622903	2.698174721	17.97666137	0.000214341107	0.007163567862	chr14	39463757	39464256
MRT_823543	2.441430104	2.075071723	18.87551506	1.61E-04	0.005691379346	chr11	90897532	90898031
MRT_101708	2.44055011	2.585483508	47.38510184	1.61E-07	2.77E-05	chr1	229917231	229917730
MRT_863936	2.440512292	2.383126051	35.65280443	1.86E-06	0.000182374274	chr12	47116498	47116997
MRT_379310	2.440464179	2.558720099	31.32893863	5.15E-06	0.000400609010	chr4	186491299	186491798
MRT_1264720	2.440450048	2.220062489	27.67824775	1.30E-05	0.000803679886	chrX	106994380	106994879
MRT_468385	2.439989116	3.27953641	18.2168376	1.98E-04	0.006757958744	chr6	24052099	24052598
MRT_435105	2.437669362	2.529270012	26.2996889	1.87E-05	1.07E-03	chr5	137192568	137193067
MRT_364531	2.437439146	2.177246403	39.43243774	8.06E-07	9.63E-05	chr4	148955948	148956447
MRT_351028	2.437061503	2.563612871	25.0138533	2.65E-05	0.001397782787	chr4	114324668	114325167
MRT_962377	2.436554842	2.469517251	56.78742774	2.97E-08	7.53E-06	chr14	61434805	61435304
MRT_962191	2.435972138	3.262732985	56.42451483	3.16E-08	7.81E-06	chr14	61118076	61118575
MRT_874287	2.435825341	2.647437825	32.81007851	3.60E-06	0.000305174997	chr12	67788287	67788786
MRT_60332	2.435515543	2.201322019	37.77121297	1.16E-06	0.000127475926	chr1	118617684	118618183
MRT_932288	2.435006042	3.442115871	13.86276607	0.000861645476	0.02136995352	chr13	81415584	81416083
MRT_640117	2.434859761	2.215969633	28.19715657	1.13E-05	7.26E-04	chr8	93090707	93091206
MRT_36648	2.433819531	2.711087855	29.29012368	8.56E-06	0.000587189636	chr1	61377664	61378163
MRT_1120992	2.43355875	2.987589464	13.95977056	8.32E-04	0.02081097425	chr18	22567501	22568000
MRT_141965	2.433370966	2.445651855	52.14153514	6.68E-08	1.40E-05	chr2	64007270	64007769
MRT_29583	2.433089221	2.53410886	37.4890756	1.23E-06	0.000133669569	chr1	47154906	47155405
MRT_349075	2.432909001	2.249849175	32.82599519	3.59E-06	0.000304425586	chr4	109986051	109986550
MRT_962364	2.43266441	2.323993587	57.9988629	2.42E-08	6.42E-06	chr14	61410874	61411373
MRT_1267044	2.432602917	2.289904252	32.0944581	4.27E-06	0.000347945279	chrX	118383854	118384353
MRT_569589	2.432378598	2.05907757	48.17101284	3.59E-06	0.000304670590	chr7	87720688	87721187

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_424132	2.43233585	2.45043615	47.78384078	1.49E-07	2.63E-05	chr5	112376671	112377170
MRT_219996	2.432051469	2.168745238	18.50699685	1.81E-04	0.006283558729	chr3	319870	320369
MRT_191178	2.43182248	2.237393377	19.96013063	1.15E-04	4.39E-03	chr2	184860364	184860863
MRT_487399	2.431752989	2.187601979	20.42397914	9.99E-05	0.003913541955	chr6	70690442	70690941
MRT_510802	2.431708257	2.261029484	35.38227789	1.97E-06	0.000190437960	chr6	130997840	130998339
MRT_691165	2.431421395	2.897598819	17.74736724	2.31E-04	0.007574932344	chr9	89882023	89882522
MRT_635732	2.431372364	2.114461795	26.14561348	1.95E-05	1.10E-03	chr8	79541371	79541870
MRT_879767	2.430809759	2.500502358	21.08985988	8.17E-05	3.37E-03	chr12	80601978	80602477
MRT_354975	2.430475586	2.612268533	40.17997856	6.87E-07	8.45E-05	chr4	125857670	125858169
MRT_120026	2.430061323	2.38085171	35.55531735	1.90E-06	0.000184668114	chr2	18075265	18075764
MRT_954208	2.429612904	2.068451751	21.05729786	8.25E-05	0.003395377669	chr14	42662277	42662776
MRT_506491	2.42923673	2.310763293	24.85621454	2.77E-05	1.44E-03	chr6	118990148	118990647
MRT_476130	2.429151511	2.512173744	30.02673935	7.11E-06	0.000512253223	chr6	38183281	38183780
MRT_80646	2.428956151	2.588110795	19.70734256	1.24E-04	0.004671119659	chr1	183701950	183702449
MRT_1246879	2.428869937	1.987159263	16.15479183	0.000389854630	0.01141367274	chrX	11895274	11895773
MRT_349546	2.428563697	2.426908857	56.97707664	2.87E-08	7.40E-06	chr4	111009707	111010206
MRT_570268	2.428535046	2.317874312	38.53166007	9.79E-07	1.12E-04	chr7	90234320	90234819
MRT_236468	2.428304125	2.449666753	19.54201606	1.31E-04	0.00485566999	chr3	35705864	35706363
MRT_475350	2.428300049	3.548818361	44.44238261	2.86E-07	4.30E-05	chr6	37098837	37099336
MRT_402441	2.428246087	2.753599352	26.21979559	1.91E-05	1.08E-03	chr5	58879455	58879954
MRT_990505	2.428084955	2.645504436	56.70766975	3.01E-08	7.57E-06	chr15	33494025	33494524
MRT_259531	2.427664498	2.086732865	26.43323271	1.80E-05	0.001038062806	chr3	85029120	85029619
MRT_795626	2.427337571	2.409699214	30.95465409	5.64E-06	0.000428912299	chr11	26294714	26295213
MRT_572211	2.427065282	2.207595507	20.96544287	8.48E-05	0.003464289541	chr7	94074056	94074555
MRT_874709	2.426969522	2.741613636	34.12816293	2.64E-06	2.39E-04	chr12	68734135	68734634
MRT_57111	2.426753661	2.666329055	43.09135007	3.76E-07	5.26E-05	chr1	112272540	112273039
MRT_174134	2.426586496	2.332194876	26.36254896	1.84E-05	0.001051883352	chr2	145338529	145339028
MRT_116356	2.42610451	2.384053396	33.65648432	2.95E-06	0.000260718618	chr2	10719531	10720030
MRT_1123800	2.425997768	2.253902977	22.47545293	5.43E-05	0.002436573964	chr18	31079387	31079886
MRT_480986	2.425497784	2.424589878	38.82850962	9.18E-07	0.000106197720	chr6	47000679	47001178

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_15723	2.425249136	3.30589206	57.40245083	2.68E-08	6.97E-06	chr1	25062198	25062697
MRT_138588	2.424273147	2.266531407	26.73660878	1.66E-05	0.000970648558	chr2	55718439	55718938
MRT_1193479	2.424233969	2.218768575	31.24012058	5.26E-06	4.06E-04	chr20	37394372	37394871
MRT_504643	2.42362399	3.498907673	16.83535445	3.11E-04	0.009538032069	chr6	114053594	114054093
MRT_1203907	2.423445903	3.162373902	20.52770111	9.68E-05	3.83E-03	chr20	57172327	57172826
MRT_504178	2.422643935	2.135334849	30.70129842	6.01E-06	4.49E-04	chr6	113124164	113124663
MRT_932265	2.42242676	2.351859641	42.76721411	4.01E-07	5.53E-05	chr13	81372600	81373099
MRT_544982	2.421278545	2.397717802	31.86945557	4.51E-06	3.63E-04	chr7	28108504	28109003
MRT_44803	2.421141611	2.373949403	31.10010629	5.45E-06	0.000417081649	chr1	82626546	82627045
MRT_634301	2.421118696	2.275803705	41.67660879	5.02E-07	6.63E-05	chr8	75020857	75021356
MRT_7112	2.421115128	3.132559181	31.2433453	5.26E-06	4.06E-04	chr1	11399911	11400410
MRT_419374	2.421094481	2.190055133	27.22714783	1.46E-05	0.000879847832	chr5	97650044	97650543
MRT_198921	2.419646706	3.423417683	13.66783394	0.000923860852	0.02259486452	chr2	202978572	202979071
MRT_730921	2.419608353	3.139267871	11.73951825	1.88E-03	0.03929499485	chr10	23353133	23353632
MRT_141940	2.41891495	2.627627892	58.04536377	2.40E-08	6.39E-06	chr2	63962421	63962920
MRT_931818	2.418729828	2.209069007	32.61515146	3.77E-06	0.000314994250	chr13	80581723	80582222
MRT_330762	2.418249025	2.761679448	61.8667306	1.29E-08	3.97E-06	chr4	57664662	57665161
MRT_587507	2.418203878	3.034189872	70.63849239	3.38E-09	1.50E-06	chr7	129653337	129653836
MRT_636143	2.417974749	2.58478962	28.78824379	9.73E-06	0.000645894254	chr8	80866457	80866956
MRT_1001686	2.41789242	2.585086181	31.0310362	5.54E-06	0.000422948824	chr15	57127830	57128329
MRT_732927	2.417812621	3.049867753	16.82593984	3.12E-04	9.56E-03	chr10	27909893	27910392
MRT_130410	2.417528207	2.712460835	46.39873517	1.95E-07	3.20E-05	chr2	38721483	38721982
MRT_733002	2.416218663	2.487208332	42.56260534	4.18E-07	5.71E-05	chr10	28017231	28017730
MRT_1147329	2.415195222	2.968960013	37.80987677	1.15E-06	0.000126828350	chr19	4278479	4278978
MRT_866450	2.415155511	2.950424734	56.322913	3.21E-08	7.88E-06	chr12	51328026	51328525
MRT_932240	2.413676269	3.202132326	17.40428313	2.58E-04	8.25E-03	chr13	81329940	81330439
MRT_234821	2.413126959	2.338938713	25.05112813	2.62E-05	0.001388126752	chr3	32009806	32010305
MRT_7136	2.41262203	2.688929479	40.92721884	5.87E-07	7.50E-05	chr1	11435628	11436127
MRT_106350	2.412572867	2.3420656	25.13568592	2.56E-05	0.001362469959	chr1	239996813	239997312
MRT_260005	2.412405249	3.368990701	11.87686867	1.79E-03	0.03779745764	chr3	86842857	86843356

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_227565	2.411232215	2.669484382	24.52795645	3.03E-05	1.54E-03	chr3	15675666	15676165
MRT_290279	2.411118294	2.308086625	23.45315509	4.10E-05	1.95E-03	chr3	159559558	159560057
MRT_361475	2.410423628	2.093232478	23.23274148	4.37E-05	0.002046765039	chr4	143307863	143308362
MRT_577796	2.409580972	2.4313521	35.5865221	1.88E-06	1.84E-04	chr7	105092443	105092942
MRT_645446	2.409502524	2.351635793	25.45826241	2.35E-05	0.001271720939	chr8	102897497	102897996
MRT_731496	2.4094466	2.652281758	18.72407228	1.69E-04	0.00592976596	chr10	24633688	24634187
MRT_44987	2.409405052	2.136570166	35.26296489	2.03E-06	0.000194229972	chr1	83310404	83310903
MRT_1022123	2.409394504	2.176283047	23.3295443	4.25E-05	2.00E-03	chr15	94525552	94526051
MRT_89707	2.409327235	3.315906806	46.55799715	1.89E-07	3.13E-05	chr1	205416494	205416993
MRT_886066	2.408453706	2.686565198	49.40355139	1.10E-07	2.07E-05	chr12	95777558	95778057
MRT_407999	2.408331847	3.51491904	93.57344888	1.69E-10	1.90E-07	chr5	71852583	71853082
MRT_969388	2.407923839	3.855261156	71.81084982	2.85E-09	1.33E-06	chr14	74231386	74231885
MRT_510105	2.407666902	2.213279462	46.51636077	2.21E-07	3.54E-05	chr6	129436615	129437114
MRT_258954	2.407210036	2.163632131	37.86475193	1.13E-06	0.000125637228	chr3	82093459	82093958
MRT_541831	2.405140379	2.375791401	41.20846473	5.53E-07	7.15E-05	chr7	22482933	22483432
MRT_424024	2.404823886	2.832607073	40.80498978	6.02E-07	7.64E-05	chr5	112215881	112216380
MRT_73948	2.40457672	2.215965618	28.7326595	9.87E-06	0.000653111587	chr1	170745303	170745802
MRT_354537	2.404558571	2.240835827	26.11043496	1.97E-05	0.0011071731	chr4	124796367	124796866
MRT_273472	2.404556252	2.843803844	17.20614627	0.000275147100	0.008689742869	chr3	124848586	124849085
MRT_1203949	2.404389224	3.420796476	27.19617452	1.47E-05	0.000884831410	chr20	57222553	57223052
MRT_428061	2.403921603	4.098634923	17.42870658	2.56E-04	8.19E-03	chr5	123121291	123121790
MRT_958590	2.403660466	2.771881282	16.23698836	3.79E-04	1.12E-02	chr14	54316174	54316673
MRT_766795	2.402949962	2.660402841	50.35928368	9.23E-08	1.80E-05	chr10	104028037	104028536
MRT_374162	2.402468101	2.015442556	37.84741602	1.10E-05	0.000714127945	chr4	173972803	173973302
MRT_60283	2.402439019	3.066341635	47.93943141	1.45E-07	2.58E-05	chr1	118510924	118511423
MRT_648309	2.401477084	2.498005803	27.83796477	1.24E-05	7.78E-04	chr8	109206960	109207459
MRT_354567	2.401337335	2.224862317	36.64378956	1.48E-06	0.000154182777	chr4	124860717	124861216
MRT_141944	2.401015185	2.533496498	48.19879956	1.38E-07	2.49E-05	chr2	63965014	63965513
MRT_210672	2.400260132	2.238911509	17.68037382	2.36E-04	0.007702668435	chr2	227625553	227626052
MRT_1248075	2.400182573	2.139708528	19.24851187	1.43E-04	0.00518404852	chrX	15954243	15954742

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_60442	2.398807568	2.215575665	36.97261326	1.38E-06	1.46E-04	chr1	118794850	118795349
MRT_861165	2.39858531	2.307791089	16.07407129	4.01E-04	0.01166099503	chr12	41681290	41681789
MRT_190941	2.39789111	2.428686507	21.71626281	6.78E-05	0.00290074655	chr2	184107536	184108035
MRT_60608	2.397614128	2.516873937	36.92370623	1.39E-06	0.000147125434	chr1	119421325	119421824
MRT_767402	2.397449907	2.8804081	29.52352202	8.07E-06	0.000562775931	chr10	104870720	104871219
MRT_1254268	2.396962021	2.160649703	42.06743964	8.65E-07	0.000101833467	chrX	41462029	41462528
MRT_155221	2.396542429	2.83531136	33.5758836	3.00E-06	0.000263321910	chr2	99542794	99543293
MRT_330719	2.395903692	2.413462842	41.54867869	5.16E-07	6.77E-05	chr4	57605486	57605985
MRT_354270	2.395500943	3.523121851	20.21433322	0.000106430819	0.004115835347	chr4	124329513	124330012
MRT_569695	2.39491232	2.471077951	27.86747315	1.23E-05	0.000774015757	chr7	87976373	87976872
MRT_480988	2.394789316	2.970706575	13.7275715	9.04E-04	2.22E-02	chr6	47002488	47002987
MRT_36463	2.394581856	2.225186781	22.64113918	5.18E-05	0.002344548723	chr1	60830540	60831039
MRT_659861	2.393798766	2.498275953	23.32830424	4.25E-05	0.002002649775	chr8	135668771	135669270
MRT_512780	2.393689596	2.534553343	43.0334663	3.80E-07	5.31E-05	chr6	134673910	134674409
MRT_325006	2.393602735	3.4987057	16.4496407	3.53E-04	0.01054159629	chr4	40180191	40180690
MRT_459137	2.39318888	3.346551374	31.86180578	4.52E-06	0.000362971672	chr6	4974181	4974680
MRT_259527	2.392264215	2.232994617	25.74424014	2.17E-05	0.001200452129	chr3	85017251	85017750
MRT_265239	2.392180106	3.11243849	27.75560789	1.27E-05	0.000791849390	chr3	106555796	106556295
MRT_1041113	2.391792015	3.732315761	62.08629868	1.24E-08	3.87E-06	chr16	30072052	30072551
MRT_759530	2.391516049	3.89008031	21.1992126	7.91E-05	0.00327995747	chr10	90711462	90711961
MRT_343199	2.391269207	2.046586213	20.00508252	0.000113459647	0.004338441077	chr4	91954997	91955496
MRT_419336	2.391245053	2.15135902	27.51685002	1.35E-05	0.000830675682	chr5	97535847	97536346
MRT_760735	2.391095063	2.699140833	33.85756632	2.81E-06	0.000251328009	chr10	93623705	93624204
MRT_1099585	2.390906497	3.425535351	34.3332507	2.51E-06	0.000229658661	chr17	62406287	62406786
MRT_133291	2.39051245	2.39828976	40.83277957	5.99E-07	7.60E-05	chr2	43615395	43615894
MRT_258951	2.390213264	2.082634849	34.39651691	2.99E-06	0.000263202003	chr3	82087624	82088123
MRT_716121	2.38981032	3.264818929	46.41002942	1.94E-07	3.20E-05	chr9	136392548	136393047
MRT_545535	2.389195811	2.4355447	27.7375936	1.28E-05	0.000794413495	chr7	29140095	29140594
MRT_861216	2.388430869	2.335517438	24.20318498	3.32E-05	0.001645815665	chr12	41812935	41813434
MRT_351018	2.387855554	3.046138243	21.61581067	6.99E-05	2.97E-03	chr4	114308904	114309403

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_858223	2.387620468	2.246447789	55.81117626	1.53E-07	2.68E-05	chr12	29699858	29700357
MRT_265463	2.387538662	4.317484747	18.97703169	1.56E-04	0.00554991684	chr3	106926867	106927366
MRT_318919	2.387425647	3.261453679	21.5583144	7.11E-05	3.02E-03	chr4	22488322	22488821
MRT_252784	2.386922458	2.108072824	39.85029247	2.32E-06	2.17E-04	chr3	66643416	66643915
MRT_929562	2.386759498	2.216909989	24.90964889	2.73E-05	0.00142260566	chr13	75130096	75130595
MRT_44979	2.386732146	2.143049657	27.62318182	1.32E-05	0.000810600306	chr1	83289522	83290021
MRT_1096277	2.386558114	3.064232816	20.70735044	9.17E-05	0.003668213065	chr17	57573441	57573940
MRT_484442	2.386153702	3.217194552	14.23953589	7.54E-04	0.01921784809	chr6	56105927	56106426
MRT_789700	2.385877431	2.330345564	21.31058747	7.65E-05	3.19E-03	chr11	12340144	12340643
MRT_1216886	2.385690825	2.27162474	34.93705794	2.19E-06	2.06E-04	chr21	36628877	36629376
MRT_1022056	2.385560384	2.43073356	29.41561078	8.29E-06	5.73E-04	chr15	94363690	94364189
MRT_655784	2.384495062	4.354307362	20.28081544	1.04E-04	0.004051566583	chr8	127845523	127846022
MRT_60393	2.383001297	2.492736297	31.93968165	4.44E-06	3.59E-04	chr1	118702220	118702719
MRT_420915	2.382867176	2.364711266	25.91774052	2.07E-05	0.001155209086	chr5	103203726	103204225
MRT_84865	2.382568856	2.607435984	22.79396742	4.95E-05	2.26E-03	chr1	196620171	196620670
MRT_354423	2.382193294	2.997024706	21.13725453	8.06E-05	0.003330297617	chr4	124570925	124571424
MRT_1208536	2.382185078	2.173353884	18.84729014	1.63E-04	5.73E-03	chr21	16502087	16502586
MRT_401643	2.381969482	3.0239688	13.42146222	1.01E-03	0.02427750623	chr5	57137406	57137905
MRT_249683	2.381833467	2.605467702	24.28650807	3.24E-05	0.001620750055	chr3	59794730	59795229
MRT_364539	2.381483431	2.598809138	43.88910477	3.20E-07	4.66E-05	chr4	148965344	148965843
MRT_1004428	2.38007967	2.246530416	29.15310053	8.86E-06	6.01E-04	chr15	62704715	62705214
MRT_617272	2.379691439	2.324357588	21.22913517	7.84E-05	0.003258276964	chr8	31677496	31677995
MRT_106637	2.379617872	2.285082289	26.87752816	1.60E-05	9.41E-04	chr1	240749539	240750038
MRT_572491	2.379302063	2.423099302	27.35068617	1.41E-05	0.000860252807	chr7	94676120	94676619
MRT_210144	2.379208192	1.922005258	33.48544026	5.20E-05	2.35E-03	chr2	226415161	226415660
MRT_953307	2.378497702	2.330894598	35.03252587	2.14E-06	2.04E-04	chr14	39493079	39493578
MRT_1197004	2.3783768	2.456363576	36.50648034	1.53E-06	0.000157915507	chr20	45245120	45245619
MRT_565287	2.377792233	2.226059206	38.86766135	9.10E-07	0.000105784792	chr7	76539782	76540281
MRT_1133398	2.377753547	2.274574377	36.85071525	1.42E-06	0.000148920789	chr18	52442797	52443296
MRT_428060	2.377382488	3.502684384	20.09790982	1.10E-04	0.004240846032	chr5	123120754	123121253

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_645409	2.377176165	2.246485734	21.56630162	7.09E-05	0.003009158994	chr8	102835748	102836247
MRT_597958	2.376986243	2.680719975	23.97077738	3.54E-05	0.0017356413	chr7	150485458	150485957
MRT_932254	2.37693312	2.334878361	42.83487688	3.96E-07	5.48E-05	chr13	81351351	81351850
MRT_873228	2.376914625	2.401742378	41.87814394	4.82E-07	6.42E-05	chr12	65910880	65911379
MRT_816300	2.376850447	2.304309007	22.42946563	5.51E-05	0.002454353832	chr11	74017858	74018357
MRT_873150	2.37663328	2.852018554	34.97647916	2.17E-06	0.000204998565	chr12	65826303	65826802
MRT_1134338	2.376451006	2.23047554	37.54451163	1.21E-06	1.32E-04	chr18	54058975	54059474
MRT_990520	2.375912903	2.328457137	32.99839222	3.44E-06	0.000294149465	chr15	33520098	33520597
MRT_1050557	2.375075205	2.074612924	23.6590851	3.87E-05	0.001854709003	chr16	64780590	64781089
MRT_766831	2.374883773	2.775643733	54.9590628	4.06E-08	9.52E-06	chr10	104073026	104073525
MRT_610466	2.374638462	2.477881236	29.46053869	8.20E-06	0.000569931924	chr8	17754133	17754632
MRT_492756	2.374017396	2.303934202	20.95223537	8.51E-05	0.003472405063	chr6	85120095	85120594
MRT_544987	2.373897014	2.25481651	24.24473164	3.28E-05	0.001633360245	chr7	28115484	28115983
MRT_504806	2.373818483	3.099692289	47.99363095	1.44E-07	2.56E-05	chr6	114316001	114316500
MRT_962495	2.372464716	2.581738883	58.59160778	2.19E-08	5.92E-06	chr14	61612624	61613123
MRT_643447	2.372388569	2.491151493	25.45683305	2.35E-05	0.001271720939	chr8	99530832	99531331
MRT_594898	2.371646866	2.831367371	31.23043331	5.27E-06	4.07E-04	chr7	143600834	143601333
MRT_544957	2.371012302	2.653950886	39.83032461	7.40E-07	8.96E-05	chr7	28061002	28061501
MRT_210064	2.370407504	2.094700031	32.62811158	3.76E-06	0.000314689446	chr2	226255070	226255569
MRT_628965	2.370379462	2.407001178	39.92459984	7.25E-07	8.83E-05	chr8	61920172	61920671
MRT_210063	2.370157516	2.162758237	28.86096543	9.55E-06	0.000637315950	chr2	226254370	226254869
MRT_1266669	2.36978191	2.050629082	26.57626998	1.73E-05	0.001005651779	chrX	117373949	117374448
MRT_490677	2.369501629	2.601371518	38.61735949	9.61E-07	0.000109966137	chr6	79927427	79927926
MRT_932362	2.369068087	2.35370861	24.37280853	3.17E-05	1.59E-03	chr13	81536375	81536874
MRT_1024754	2.368741678	2.55669466	72.18270745	2.70E-09	1.27E-06	chr15	99560546	99561045
MRT_932358	2.368455544	2.640500662	22.41080823	5.54E-05	0.002464661855	chr13	81529928	81530427
MRT_106338	2.368180079	2.20694435	23.17345819	4.44E-05	0.002073924954	chr1	239974492	239974991
MRT_408694	2.367728103	2.852628176	28.51077774	1.04E-05	0.000683235288	chr5	73243757	73244256
MRT_544974	2.367297763	2.506624889	20.57393532	9.54E-05	0.003793760429	chr7	28094714	28095213
MRT_875540	2.366635399	2.382816677	44.73909407	2.70E-07	4.14E-05	chr12	70082258	70082757

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_49801	2.366410022	2.701662812	20.40500701	0.000100432088	0.003929118927	chr1	93342836	93343335
MRT_879922	2.366365885	2.157319301	24.44258381	3.10E-05	0.001568325542	chr12	80903358	80903857
MRT_780569	2.366182667	2.416759237	25.64014944	2.23E-05	0.00122703954	chr10	131754122	131754621
MRT_446244	2.36545912	3.159369395	28.70687443	9.93E-06	0.000656418309	chr5	159586947	159587446
MRT_325017	2.365172518	2.836896493	20.84905752	8.78E-05	0.00355651514	chr4	40191933	40192432
MRT_95247	2.364621397	2.341352766	28.77790205	9.75E-06	6.47E-04	chr1	217643159	217643658
MRT_60440	2.364439145	2.460773197	41.24757947	5.49E-07	7.11E-05	chr1	118793683	118794182
MRT_106372	2.363662717	2.294086788	32.07415297	4.30E-06	0.000348984075	chr1	240060235	240060734
MRT_353845	2.363648438	2.469111813	27.05914132	1.53E-05	0.000907492095	chr4	123631404	123631903
MRT_499816	2.363373768	2.221345981	18.58610246	1.76E-04	0.006159928701	chr6	105616264	105616763
MRT_36191	2.363339565	2.637810437	27.07503545	1.52E-05	0.000906023779	chr1	60144432	60144931
MRT_209977	2.363073898	2.387157167	37.58501431	1.20E-06	0.000131431411	chr2	225986685	225987184
MRT_546094	2.362587087	2.743878485	56.34423948	3.20E-08	7.88E-06	chr7	30212603	30213102
MRT_427371	2.362541043	2.189458459	39.89301214	7.51E-07	9.06E-05	chr5	121636675	121637174
MRT_743071	2.362251322	2.239191841	24.84538786	2.78E-05	0.001442696213	chr10	53389735	53390234
MRT_101660	2.361488114	3.72697185	24.72281745	2.87E-05	0.001476143403	chr1	229829877	229830376
MRT_1208543	2.361045754	2.289508782	35.29791777	2.01E-06	1.93E-04	chr21	16512776	16513275
MRT_209784	2.360721941	2.469827498	17.5269498	2.48E-04	0.008006139773	chr2	225580750	225581249
MRT_364532	2.360489936	2.280284099	38.46972604	9.92E-07	1.13E-04	chr4	148956527	148957026
MRT_613457	2.36021145	2.163852129	27.03795528	1.53E-05	0.000910678188	chr8	23780074	23780573
MRT_259003	2.360165108	2.411126074	26.92205392	1.58E-05	0.000933412029	chr3	82177198	82177697
MRT_492569	2.360100929	2.573722304	24.93955702	2.71E-05	0.001416107391	chr6	84737013	84737512
MRT_990470	2.359868446	2.517799343	54.47622446	4.42E-08	1.02E-05	chr15	33423696	33424195
MRT_645404	2.359511751	2.418350979	23.87948498	3.64E-05	0.001773583874	chr8	102829739	102830238
MRT_249599	2.359153439	2.965589418	13.10585612	1.13E-03	0.02644931276	chr3	59640576	59641075
MRT_836871	2.358912733	2.100558641	30.14654124	6.90E-06	0.000499982648	chr11	121078214	121078713
MRT_1153244	2.358872836	2.231579422	49.92359719	2.62E-07	4.05E-05	chr19	13802939	13803438
MRT_505583	2.358863477	2.411452141	48.28752963	1.36E-07	2.46E-05	chr6	116833875	116834374
MRT_197746	2.358509754	2.446026036	31.40264256	5.06E-06	0.000395354238	chr2	201042783	201043282
MRT_688830	2.357978697	2.477615879	21.36399545	7.53E-05	0.003160097082	chr9	85104826	85105325

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1041901	2.357847366	3.230956494	55.87339382	3.47E-08	8.40E-06	chr16	31451828	31452327
MRT_504845	2.35733897	2.066042499	20.24779431	1.05E-04	0.004085012022	chr6	114389850	114390349
MRT_36641	2.357334296	2.564678213	28.4092871	1.07E-05	0.000698822834	chr1	61369686	61370185
MRT_265456	2.357276281	4.338294129	18.09384238	2.06E-04	0.006964953072	chr3	106917519	106918018
MRT_44804	2.357193976	2.5008723	28.99348224	9.23E-06	0.000620022696	chr1	82627237	82627736
MRT_438155	2.357022609	2.716617924	59.81151453	1.79E-08	5.14E-06	chr5	141920089	141920588
MRT_470128	2.356759357	2.947545958	28.1661685	1.14E-05	0.000729358668	chr6	28180152	28180651
MRT_492758	2.356301797	2.479263898	20.43722085	9.95E-05	3.90E-03	chr6	85122633	85123132
MRT_523862	2.35611313	2.963539505	63.06632876	1.06E-08	3.50E-06	chr6	158090650	158091149
MRT_492564	2.355742659	2.516706043	35.75585223	1.81E-06	0.000179402398	chr6	84728304	84728803
MRT_527408	2.354371999	2.078030132	20.92916654	8.57E-05	0.003486431967	chr6	164211184	164211683
MRT_202984	2.353986178	2.287005853	21.23442974	7.83E-05	0.003254204886	chr2	211189162	211189661
MRT_209969	2.353971288	2.344658971	41.95082564	4.74E-07	6.33E-05	chr2	225977435	225977934
MRT_190936	2.353870559	2.369609834	28.4952437	1.05E-05	0.000684430821	chr2	184095269	184095768
MRT_544978	2.353448042	2.206672038	16.85891016	3.08E-04	0.009484817763	chr7	28100173	28100672
MRT_932460	2.353051453	2.082707895	27.64500651	1.31E-05	0.000808724257	chr13	81746871	81747370
MRT_71987	2.352669601	2.665778488	28.01942544	1.19E-05	0.000749935891	chr1	167013234	167013733
MRT_510409	2.352375398	3.44860993	23.1659284	4.45E-05	0.002076867661	chr6	130088335	130088834
MRT_931677	2.352277507	2.726722576	21.65011406	6.92E-05	0.002949078183	chr13	80297166	80297665
MRT_732913	2.35224869	2.288249785	46.14222996	2.05E-07	3.32E-05	chr10	27890360	27890859
MRT_214049	2.352205477	2.293945733	28.35242948	1.09E-05	0.000706613999	chr2	233839064	233839563
MRT_171275	2.352040598	2.53046876	33.69505385	2.92E-06	2.59E-04	chr2	136869852	136870351
MRT_1018372	2.35189178	2.139498774	27.62674133	1.31E-05	0.000810600306	chr15	86606965	86607464
MRT_141964	2.351017727	2.305203961	43.64038759	3.36E-07	4.86E-05	chr2	64006430	64006929
MRT_748439	2.350708853	2.294323771	24.05148935	3.46E-05	0.001704213387	chr10	69859453	69859952
MRT_295106	2.350227573	2.498475831	18.32721044	1.92E-04	0.006580773304	chr3	172587169	172587668
MRT_290278	2.350097032	2.739869101	21.65309664	6.91E-05	0.002947471776	chr3	159558626	159559125
MRT_44002	2.349965194	2.292440073	23.2298928	4.37E-05	0.002046765039	chr1	80111239	80111738
MRT_861226	2.34902236	2.607898711	24.5007998	3.06E-05	0.001547735871	chr12	41831310	41831809
MRT_617277	2.349008518	2.556353819	24.75749897	2.84E-05	0.001464999377	chr8	31685819	31686318

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_184163	2.348534513	2.400194389	28.34012226	1.09E-05	0.000708043216	chr2	170365954	170366453
MRT_82497	2.347935027	2.066011766	31.77487092	6.70E-06	0.000489253875	chr1	188139629	188140128
MRT_61258	2.347347764	3.188140278	29.46791175	8.18E-06	0.000569362718	chr1	120557636	120558135
MRT_72962	2.346607124	2.463219661	26.65624552	1.70E-05	0.000988023271	chr1	168592419	168592918
MRT_569696	2.346209946	2.344169924	25.27890433	2.46E-05	0.001319364306	chr7	87976897	87977396
MRT_1016277	2.345702394	2.328793124	42.44383024	4.29E-07	5.82E-05	chr15	82044764	82045263
MRT_72931	2.345071333	2.0603573	18.71390617	1.70E-04	5.95E-03	chr1	168535005	168535504
MRT_775989	2.343801272	2.725609338	29.3071934	8.52E-06	0.000585455135	chr10	123208428	123208927
MRT_179085	2.343699405	2.551458955	58.70211692	2.15E-08	5.86E-06	chr2	158870329	158870828
MRT_617374	2.343069313	2.816794016	14.22040407	7.59E-04	0.01931072059	chr8	31881563	31882062
MRT_410591	2.342899515	2.467211993	27.20053469	1.47E-05	0.000884787091	chr5	77291825	77292324
MRT_864027	2.342792654	2.368517433	38.87825467	9.08E-07	0.000105639606	chr12	47336325	47336824
MRT_408663	2.342673669	2.789724126	25.74983236	2.17E-05	0.001199317617	chr5	73207854	73208353
MRT_258971	2.342217755	1.824594115	23.40686335	2.94E-04	9.13E-03	chr3	82120269	82120768
MRT_877011	2.34213929	2.104702839	21.52760423	7.17E-05	0.00303951838	chr12	75131000	75131499
MRT_865911	2.341862301	2.552976349	34.58149337	2.37E-06	2.21E-04	chr12	50590194	50590693
MRT_520719	2.341661197	2.41963679	36.54504999	1.52E-06	0.000156989427	chr6	151596678	151597177
MRT_487424	2.341337986	2.19653441	18.56465999	1.78E-04	0.00619677268	chr6	70757569	70758068
MRT_60476	2.34071212	2.464573843	29.92641889	7.29E-06	0.000521931312	chr1	118876495	118876994
MRT_545534	2.34016543	2.549242378	28.68172655	1.00E-05	0.000659980936	chr7	29139515	29140014
MRT_879998	2.340061288	3.019132209	18.3958208	1.87E-04	0.006461417941	chr12	81069764	81070263
MRT_409980	2.339723178	2.633108387	31.3137339	5.17E-06	0.000401237512	chr5	76033042	76033541
MRT_140934	2.339681134	2.407251858	25.64324635	2.23E-05	0.001226537598	chr2	61949377	61949876
MRT_1213905	2.339403516	2.674095056	46.5725715	1.88E-07	3.13E-05	chr21	30476835	30477334
MRT_249404	2.339135443	2.553698996	17.00209694	2.94E-04	0.009128467928	chr3	59231118	59231617
MRT_617334	2.338056569	2.766134658	17.01173976	2.93E-04	0.009122975181	chr8	31803147	31803646
MRT_1167656	2.338033105	3.066296902	40.04424283	7.07E-07	8.63E-05	chr19	44281779	44282278
MRT_1213906	2.337923123	2.864629125	34.85275808	2.23E-06	0.000209627602	chr21	30477426	30477925
MRT_478048	2.337778439	2.960202825	29.924309	7.29E-06	0.000521931312	chr6	41977955	41978454
MRT_503510	2.337684421	2.702209678	72.94535263	2.43E-09	1.17E-06	chr6	111914679	111915178

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MRT_538875	2.337322844	3.194514307	15.31166914	5.19E-04	0.01432063689	chr7	15374219	15374718
MRT_1023672	-2.337248785	3.362913292	11.52867376	2.04E-03	0.04186477217	chr15	96865563	96866062
MRT_318918	2.336445119	3.652151951	14.14528478	7.79E-04	0.01972619676	chr4	22487765	22488264
MRT_504282	2.336254632	2.217208538	26.86673684	1.61E-05	0.000942836920	chr6	113354024	113354523
MRT_467402	2.336137035	3.57924804	27.97734916	1.20E-05	0.000756058552	chr6	22149917	22150416
MRT_896617	2.335661989	2.358592827	28.31218804	1.10E-05	0.000711812757	chr12	116012612	116013111
MRT_1032226	2.335648402	3.690235194	55.50990909	3.69E-08	8.84E-06	chr16	10922475	10922974
MRT_501116	2.33561984	2.948262911	22.12408005	6.02E-05	0.002635583931	chr6	107988902	107989401
MRT_83500	2.33476891	3.353912676	16.90265603	3.04E-04	0.009383094121	chr1	192422733	192423232
MRT_1247607	2.334754675	2.312966789	36.99381963	1.37E-06	0.000145693580	chrX	13739677	13740176
MRT_567962	2.334740636	2.330917567	22.7077916	5.08E-05	0.002308056712	chr7	83101694	83102193
MRT_1119633	2.333412777	2.345971321	30.0610918	7.05E-06	0.000508950722	chr18	20480853	20481352
MRT_732955	2.333345018	2.428426009	36.44822959	1.55E-06	0.000159140140	chr10	27947623	27948122
MRT_1134420	2.333322179	2.705636495	30.52066392	6.28E-06	0.000465166453	chr18	54232035	54232534
MRT_1252257	2.332833289	2.820310159	11.64651712	1.95E-03	0.04038095068	chrX	33229489	33229988
MRT_354959	2.332232254	2.519691325	26.74458673	1.66E-05	0.000969481351	chr4	125825032	125825531
MRT_583973	2.331016061	2.320832074	13.43789452	1.00E-03	0.02415682301	chr7	120504533	120505032
MRT_745867	2.330676192	2.261710637	26.48072545	1.78E-05	0.001026513445	chr10	63081172	63081671
MRT_376922	2.330166042	2.231741969	16.39513612	3.60E-04	0.01068472444	chr4	182180245	182180744
MRT_417653	2.329501186	2.486578228	18.50506212	1.81E-04	0.006283558729	chr5	93589441	93589940
MRT_690601	2.329411993	2.606745225	20.34820434	0.000102180245	0.003981545076	chr9	89050111	89050610
MRT_490655	2.32927038	2.422930397	25.28821887	2.46E-05	0.001317670137	chr6	79904908	79905407
MRT_156687	2.328936156	3.066580608	17.14459962	2.81E-04	0.008816131635	chr2	102117900	102118399
MRT_294966	2.32871715	2.313422656	31.90845546	4.47E-06	0.000360716945	chr3	172363773	172364272
MRT_135444	2.328697871	2.277953439	28.78984875	9.72E-06	0.000645894254	chr2	47359945	47360444
MRT_370478	2.328475187	2.172185918	27.19495487	1.47E-05	0.000884831410	chr4	162592238	162592737
MRT_1267578	2.32842745	2.274672049	23.03381214	4.62E-05	0.00214278579	chrX	119886300	119886799
MRT_550705	2.327961967	2.42698298	22.63669525	5.18E-05	0.002345889138	chr7	39447302	39447801
MRT_220078	2.327781203	2.877642167	12.13612128	1.62E-03	0.03490402018	chr3	466580	467079
MRT_931709	2.327760547	2.316621895	34.06113149	2.68E-06	0.000241991718	chr13	80369002	80369501

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_316492	2.325731259	2.698827154	33.63717848	2.96E-06	0.000261293957	chr4	16058220	16058719
MRT_297271	2.325726045	3.49515016	18.84186583	0.000162806737	0.005739141122	chr3	177324540	177325039
MRT_477571	2.325247475	2.044380656	35.17417692	8.86E-06	0.000601023111	chr6	41283926	41284425
MRT_318917	2.324910657	3.905024008	13.96923293	0.000829583001	0.0207533196	chr4	22487222	22487721
MRT_1135585	2.324728838	2.525489655	33.72321879	2.90E-06	0.000257560049	chr18	56246576	56247075
MRT_951949	2.324468984	2.306683273	24.6525133	2.93E-05	0.001500337333	chr14	36027795	36028294
MRT_44008	2.324019638	2.487350689	21.47571074	7.28E-05	0.003076655113	chr1	80123930	80124429
MRT_510236	2.323867483	2.501185814	41.07240371	5.69E-07	7.30E-05	chr6	129807462	129807961
MRT_586315	2.323621966	2.778497829	44.76604629	2.68E-07	4.13E-05	chr7	127907082	127907581
MRT_1102799	2.323438136	2.19682428	18.02322094	2.11E-04	0.007083450727	chr17	67669003	67669502
MRT_343573	2.32332182	1.949991	22.6680928	6.42E-05	0.002775227318	chr4	94232088	94232587
MRT_510419	2.323286608	2.117647716	37.95753185	3.00E-06	0.000263321910	chr6	130109862	130110361
MRT_538876	2.323149791	2.837936225	17.80078278	2.27E-04	0.007466583932	chr7	15375054	15375553
MRT_1172282	2.322981037	2.388455689	32.16250429	4.20E-06	0.000344265932	chr19	51548659	51549158
MRT_617316	2.32200431	2.302871044	29.87150887	7.39E-06	0.000526010852	chr8	31769751	31770250
MRT_620688	2.321892683	2.363110399	29.88969251	7.36E-06	0.000524430100	chr8	39870071	39870570
MRT_708203	2.321797912	2.24978569	33.40782166	3.12E-06	0.000272459631	chr9	124801520	124802019
MRT_512757	2.321768265	2.359734737	53.62224416	5.13E-08	1.15E-05	chr6	134631238	134631737
MRT_218509	2.321689979	2.550335586	39.57045443	7.82E-07	9.40E-05	chr2	241176908	241177407
MRT_953310	2.321519105	2.784336765	36.03232413	1.70E-06	0.000170367101	chr14	39495080	39495579
MRT_258913	2.320527526	2.187339618	23.5659861	3.97E-05	0.001895700577	chr3	82031776	82032275
MRT_571126	2.32024612	2.666605418	22.82924473	4.90E-05	0.00224793016	chr7	91806664	91807163
MRT_618219	2.320229901	2.36268081	25.57024554	2.28E-05	0.001243964366	chr8	33661712	33662211
MRT_372474	2.320179171	3.266341464	16.44031365	3.54E-04	0.01057193826	chr4	169490912	169491411
MRT_458528	2.320132211	2.763227946	31.69083647	4.71E-06	0.000374812564	chr6	3884237	3884736
MRT_1123799	2.319759485	1.903556367	28.65152475	1.17E-04	0.004433216672	chr18	31078289	31078788
MRT_610426	2.318916984	2.603570593	24.62897514	2.95E-05	0.001507127093	chr8	17694128	17694627
MRT_954300	2.318655251	2.283018477	21.28108917	7.72E-05	3.22E-03	chr14	42992799	42993298
MRT_951371	2.317904029	3.358383021	16.05488016	4.03E-04	0.01171505348	chr14	35168948	35169447
MRT_1007202	2.317892158	2.432540965	55.63453613	3.61E-08	8.68E-06	chr15	66696889	66697388

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_670916	2.317643617	2.424128697	32.35927368	4.01E-06	0.000330896674	chr9	13101272	13101771
MRT_476299	2.317592068	2.385196164	34.02737159	2.70E-06	0.000243424606	chr6	38474482	38474981
MRT_839533	2.317383507	2.602155294	23.87423595	3.64E-05	0.001775527083	chr11	125942467	125942966
MRT_297275	2.317370842	3.053712372	24.65088078	2.93E-05	0.001500411123	chr3	177328429	177328928
MRT_296322	2.316383045	2.154299079	22.08934965	6.08E-05	0.002654247678	chr3	175323615	175324114
MRT_544945	2.315718685	2.230697744	28.4539449	1.06E-05	0.000691175382	chr7	28039181	28039680
MRT_731495	2.31553007	2.622870191	17.02592211	0.000291896079	0.009089699808	chr10	24633155	24633654
MRT_704438	2.314902333	3.427340865	43.52752676	3.44E-07	4.94E-05	chr9	116417026	116417525
MRT_118064	2.314884087	3.103078721	37.71780116	1.17E-06	0.000128749276	chr2	13142680	13143179
MRT_1016167	2.314368636	3.434682171	13.30313263	1.05E-03	0.02502586436	chr15	81823340	81823839
MRT_1165064	2.314232879	2.689760072	96.68792617	1.18E-10	1.48E-07	chr19	39366228	39366727
MRT_635964	2.314053107	2.956599968	18.20925758	0.000198956119	0.006770700418	chr8	80597455	80597954
MRT_265348	2.313932034	3.116624317	25.50972118	2.31E-05	0.001258875003	chr3	106764597	106765096
MRT_202976	2.313897137	2.172619888	16.68185935	3.27E-04	0.009931443475	chr2	211168178	211168677
MRT_879968	2.31388195	2.145897395	21.84390276	6.53E-05	0.002819444596	chr12	80992750	80993249
MRT_613480	2.313831689	2.185791872	25.21906092	2.51E-05	0.001337802193	chr8	23823965	23824464
MRT_504166	2.313564314	2.777061531	20.85106861	8.78E-05	3.56E-03	chr6	113100827	113101326
MRT_186550	2.313446474	2.363770684	29.57878337	7.95E-06	0.000556503517	chr2	174454843	174455342
MRT_259004	2.313215891	2.395227916	35.5954619	1.88E-06	0.000183638626	chr3	82178596	82179095
MRT_1266131	2.311820907	2.275730424	32.47226982	3.90E-06	3.24E-04	chrX	114585550	114586049
MRT_19560	2.310387753	3.002982006	44.31673536	2.94E-07	4.37E-05	chr1	30851834	30852333
MRT_631956	2.309866823	2.606146436	22.4751439	5.43E-05	0.002436573964	chr8	70378721	70379220
MRT_372436	2.309325819	2.949616602	13.61622287	9.41E-04	0.02292882985	chr4	169443457	169443956
MRT_83595	2.309320063	2.613400972	15.86352029	0.000430071580	0.01234669508	chr1	192562081	192562580
MRT_642188	2.309244416	2.260222898	29.60295062	7.91E-06	0.000554954875	chr8	97534912	97535411
MRT_582834	2.308799525	2.379599221	39.77922553	7.48E-07	9.04E-05	chr7	116802316	116802815
MRT_1199077	2.308631558	2.797840541	24.28958768	3.24E-05	1.62E-03	chr20	48369407	48369906
MRT_560211	2.30799681	2.684683092	36.96038699	1.38E-06	0.000146411344	chr7	66501655	66502154
MRT_84866	2.306146752	2.853034657	23.47886911	4.07E-05	0.001935894431	chr1	196620749	196621248
MRT_879782	2.305426703	2.814797929	11.78886599	1.85E-03	0.03876706663	chr12	80623084	80623583

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_106768	2.305231603	2.398049045	28.17297833	1.14E-05	0.000728913063	chr1	240992732	240993231
MRT_77995	2.305207449	2.348386092	45.33865404	2.40E-07	3.76E-05	chr1	178839993	178840492
MRT_990510	2.305087079	2.138722921	30.11161467	6.96E-06	0.000503704465	chr15	33502481	33502980
MRT_1258937	2.304995876	2.483443367	26.51521975	1.76E-05	1.02E-03	chrX	67660639	67661138
MRT_52296	2.304883103	2.293991324	16.90341882	3.04E-04	0.009383018886	chr1	98871796	98872295
MRT_326873	2.304657749	2.014121528	20.97839884	8.45E-05	0.003456383316	chr4	45077339	45077838
MRT_354546	2.30437359	2.162622343	25.30066214	2.45E-05	0.001313741687	chr4	124820662	124821161
MRT_550539	2.304210626	2.149440155	25.59184207	2.26E-05	0.001238450855	chr7	39112462	39112961
MRT_1134122	2.303828661	3.066568081	17.10166853	2.85E-04	0.00892120635	chr18	53665260	53665759
MRT_568369	2.302934348	2.06469774	19.14388769	1.48E-04	0.005318181335	chr7	84098374	84098873
MRT_597976	2.302267779	2.340688129	23.82674059	3.69E-05	0.001794325882	chr7	150520436	150520935
MRT_407895	2.301946378	2.301989695	38.05388925	1.09E-06	0.000121511584	chr5	71674724	71675223
MRT_337566	2.301858069	2.127990779	24.88443571	2.75E-05	0.001430732281	chr4	78622243	78622742
MRT_619315	2.300969364	2.730049933	39.01189029	8.82E-07	0.000103393095	chr8	37456798	37457297
MRT_671600	2.300604898	2.845474618	36.06527898	1.69E-06	0.000169503645	chr9	14088991	14089490
MRT_1213043	2.300303875	2.223980247	22.63489644	5.19E-05	0.002346272978	chr21	28326945	28327444
MRT_379314	2.299814576	2.285003324	18.24512818	1.97E-04	0.006717045925	chr4	186498040	186498539
MRT_571421	2.299793511	2.669293507	41.22511983	5.52E-07	7.14E-05	chr7	92262353	92262852
MRT_490640	2.299272569	2.609334674	22.51569105	5.37E-05	2.41E-03	chr6	79880518	79881017
MRT_45126	2.299002531	2.397728112	18.37148865	1.89E-04	0.006504542418	chr1	83879044	83879543
MRT_931699	2.298085933	2.786193007	18.63966677	0.000173526780	0.006068126733	chr13	80353862	80354361
MRT_210103	2.298040967	2.432363726	38.58455371	9.68E-07	0.000110552657	chr2	226327638	226328137
MRT_202613	2.297367125	2.121460063	27.8911011	1.23E-05	0.000769645335	chr2	210307142	210307641
MRT_52312	2.297267813	2.212046182	14.81180577	6.17E-04	0.01639242776	chr1	98918191	98918690
MRT_410588	2.297070182	2.498800731	26.8785683	1.60E-05	0.000941445827	chr5	77289663	77290162
MRT_636317	2.296272607	2.499432234	48.18998891	1.38E-07	2.49E-05	chr8	81121256	81121755
MRT_243805	2.296236956	3.206031616	63.26830608	1.03E-08	3.44E-06	chr3	49496658	49497157
MRT_664874	2.296066957	1.910483747	13.26764936	1.07E-03	0.02529768556	chr8	145494591	145495090
MRT_320666	2.295845326	2.658535606	31.39272817	5.07E-06	0.000395534402	chr4	26240799	26241298
MRT_249403	2.294233454	2.208534328	20.80855602	8.89E-05	0.00359093079	chr3	59230460	59230959

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_428099	2.294130523	2.480221841	27.71468174	1.28E-05	0.000797619017	chr5	123191481	123191980
MRT_1249744	2.293526909	2.266098026	29.16282685	8.84E-06	0.000600500721	chrX	21768111	21768610
MRT_484361	2.293355701	2.217955182	30.16485297	6.87E-06	0.000498467630	chr6	55927636	55928135
MRT_969992	2.293335694	2.701102666	37.84801422	1.14E-06	1.26E-04	chr14	75101563	75102062
MRT_863696	2.293054377	2.291563487	32.57821666	3.80E-06	3.17E-04	chr12	46694692	46695191
MRT_1185047	2.292067657	2.166540988	20.54318462	9.63E-05	0.003819780737	chr20	19605855	19606354
MRT_726880	2.291424559	2.318869371	22.37015643	5.60E-05	0.002488290556	chr10	14495544	14496043
MRT_823708	2.290920009	2.277828704	27.62314098	1.32E-05	0.000810600306	chr11	91600924	91601423
MRT_620648	2.290604178	2.544397161	26.61639105	1.72E-05	9.98E-04	chr8	39800486	39800985
MRT_1029295	2.290235058	2.621334557	46.60032685	1.87E-07	3.12E-05	chr16	4103277	4103776
MRT_258944	2.290201693	2.57195262	25.46130444	2.34E-05	0.001271261002	chr3	82078525	82079024
MRT_492730	2.289755722	2.324641071	22.05214754	6.15E-05	2.68E-03	chr6	85060029	85060528
MRT_295807	2.289366031	2.65262644	16.52983265	3.44E-04	1.03E-02	chr3	174059868	174060367
MRT_34841	2.289310943	2.629839837	22.02183029	6.20E-05	0.002693344042	chr1	56839918	56840417
MRT_1050481	2.289295673	2.239852917	21.51998258	7.19E-05	0.003044354069	chr16	64512520	64513019
MRT_565496	2.289003157	2.695877121	37.46968172	1.24E-06	0.000134013937	chr7	76964919	76965418
MRT_1119647	2.288879217	2.692299438	21.70136015	6.81E-05	0.002910664151	chr18	20503298	20503797
MRT_628902	2.288775743	3.08969623	39.89625428	7.30E-07	8.86E-05	chr8	61821315	61821814
MRT_349946	2.287970382	2.224851656	19.67590269	0.000125545300	0.004698557876	chr4	112319988	112320487
MRT_64373	2.287537429	2.612040531	30.20162727	6.80E-06	0.000495133224	chr1	151450843	151451342
MRT_990460	2.286672934	2.25356586	34.07680196	2.67E-06	0.000241697214	chr15	33407612	33408111
MRT_258948	2.286551147	2.603949816	35.64003296	1.86E-06	1.82E-04	chr3	82082377	82082876
MRT_1093717	2.285949153	2.131582642	24.90953103	2.73E-05	0.00142260566	chr17	53275476	53275975
MRT_252783	2.285770562	2.184028332	30.20089954	6.80E-06	0.000495133224	chr3	66642835	66643334
MRT_1029217	2.285598138	2.469341156	38.03043683	1.09E-06	1.22E-04	chr16	4003543	4004042
MRT_265339	2.285567787	3.376173733	16.33932494	3.66E-04	1.09E-02	chr3	106743589	106744088
MRT_44068	2.285491686	2.203283462	37.57741374	1.21E-06	0.000131538771	chr1	80313906	80314405
MRT_64416	2.285174613	3.965863819	86.65205701	3.91E-10	3.57E-07	chr1	151511927	151512426
MRT_304858	2.28507419	2.874383725	34.54869369	2.39E-06	0.000222088793	chr3	193517477	193517976
MRT_932331	2.284734909	3.217161634	14.28312382	7.42E-04	0.01899709345	chr13	81474638	81475137

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_258970	2.284631442	2.189218437	24.7628187	2.84E-05	0.001463437393	chr3	82118888	82119387
MRT_766406	2.284053885	2.399485263	63.93113398	2.53E-08	6.67E-06	chr10	103446851	103447350
MRT_569635	2.283223798	2.636799947	44.6752207	2.73E-07	4.17E-05	chr7	87830575	87831074
MRT_45164	2.283136381	2.161875665	30.86494221	5.77E-06	0.000435375449	chr1	83953771	83954270
MRT_209917	2.28292456	2.279109435	33.53988695	3.03E-06	0.000265014250	chr2	225849280	225849779
MRT_123126	2.282585293	2.342690289	40.2672564	6.74E-07	8.31E-05	chr2	24840180	24840679
MRT_539011	2.282570251	2.48151935	23.24441528	4.35E-05	0.002043573159	chr7	15582457	15582956
MRT_685800	2.282484562	2.306622554	35.92814751	1.74E-06	0.000173799887	chr9	77679064	77679563
MRT_260989	2.28225217	2.155297655	20.46564607	9.86E-05	0.003883847672	chr3	90130097	90130596
MRT_330687	2.282130307	2.44467124	27.74154753	1.28E-05	0.000793982838	chr4	57565087	57565586
MRT_504210	2.281895949	2.37280719	26.263328	1.89E-05	0.001073016821	chr6	113203823	113204322
MRT_1251791	2.281727736	2.26193581	14.25372147	7.50E-04	0.0191488017	chrX	31337979	31338478
MRT_1034809	2.281549353	3.515763913	24.81712933	2.80E-05	0.001451632969	chr16	15612049	15612548
MRT_372466	2.281535699	2.857310751	25.74313699	2.17E-05	0.001200452129	chr4	169481609	169482108
MRT_504331	2.281412026	3.214785856	13.99882699	8.21E-04	0.02057670259	chr6	113443201	113443700
MRT_320700	2.2810185	2.357226801	25.52223434	2.31E-05	0.001256202907	chr4	26296343	26296842
MRT_702580	2.279766749	2.012583866	19.19895944	1.46E-04	0.005252798415	chr9	113300288	113300787
MRT_492709	2.27963077	2.319341416	28.36783053	1.08E-05	0.000704891906	chr6	84992278	84992777
MRT_646366	2.279255143	2.319362669	32.39365491	3.98E-06	0.000328387370	chr8	104372062	104372561
MRT_932135	2.278754697	3.701777057	13.22868091	1.08E-03	0.02556712321	chr13	81145446	81145945
MRT_772529	2.278600465	2.881686796	42.836476	3.96E-07	5.48E-05	chr10	116392991	116393490
MRT_907260	2.277601141	3.354345739	38.15476075	1.06E-06	0.000119575311	chr13	21288852	21289351
MRT_722279	2.27752535	2.392943163	15.61183639	0.000468424735	0.01320785023	chr10	5082335	5082834
MRT_690613	2.277392131	3.224442972	13.25148621	1.07E-03	0.02540391809	chr9	89070045	89070544
MRT_349549	2.27686028	2.375805664	43.98142242	3.14E-07	4.59E-05	chr4	111012892	111013391
MRT_351016	2.275885936	3.10291426	19.7021491	0.000124532704	0.004672585819	chr4	114307718	114308217
MRT_962430	2.275617233	2.366859767	51.84541184	7.04E-08	1.46E-05	chr14	61531759	61532258
MRT_363852	2.275513142	3.585225216	11.11961494	0.00238396939	0.04731007551	chr4	147960992	147961491
MRT_52252	2.27539705	2.82753788	15.69089891	4.56E-04	0.01291262529	chr1	98789546	98790045
MRT_572141	2.275027703	2.4114119	30.8418509	5.80E-06	0.000436824464	chr7	93968139	93968638

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_259525	2.274691879	2.320382528	21.35226448	7.56E-05	0.0031690398	chr3	85014239	85014738
MRT_617333	2.27461748	2.469387435	18.90845235	1.59E-04	0.005650084345	chr8	31802339	31802838
MRT_550716	2.274585232	1.942914196	20.9933805	9.87E-05	0.003884754245	chr7	39460810	39461309
MRT_669823	2.274492966	2.095413424	26.53247056	1.76E-05	0.001015172613	chr9	9318803	9319302
MRT_536137	2.273915927	2.715380575	52.09204037	6.74E-08	1.41E-05	chr7	7758816	7759315
MRT_669768	2.2734906	2.285637924	24.99761606	2.66E-05	0.001401160757	chr9	9142685	9143184
MRT_702817	2.272580516	2.580330062	24.98418823	2.67E-05	0.001404001121	chr9	113757663	113758162
MRT_135019	2.272484544	2.58943602	35.04945587	2.13E-06	0.000202906660	chr2	46747391	46747890
MRT_931790	2.272259892	2.63824911	34.48246283	2.43E-06	0.000224211638	chr13	80510304	80510803
MRT_1043620	2.27182418	2.25437869	21.58062869	7.06E-05	0.003001205628	chr16	48081641	48082140
MRT_636139	2.271746788	2.783769047	26.1510461	1.94E-05	0.001097541234	chr8	80862922	80863421
MRT_97802	2.271588144	2.526813982	43.35138438	3.56E-07	5.07E-05	chr1	223308774	223309273
MRT_510102	2.271424532	2.340967598	44.61296929	2.77E-07	4.20E-05	chr6	129426133	129426632
MRT_738161	2.271397201	2.193042046	23.18903728	4.42E-05	0.002066227136	chr10	36403787	36404286
MRT_726896	2.271371887	2.693908377	33.42136686	3.11E-06	0.000271776547	chr10	14518843	14519342
MRT_155743	2.271186298	3.362705072	25.65233379	2.23E-05	0.001225634458	chr2	100497089	100497588
MRT_372457	2.271002773	2.829972541	18.26471811	0.000195465692	0.006686002066	chr4	169467066	169467565
MRT_1160630	2.270961655	2.547793471	36.27133374	1.61E-06	0.000163727185	chr19	31754120	31754619
MRT_490953	2.270094943	2.403702284	29.89979957	7.34E-06	0.000523689652	chr6	80421250	80421749
MRT_541833	2.27004841	2.590473447	36.21571447	1.63E-06	1.65E-04	chr7	22484387	22484886
MRT_736764	2.269854216	2.601100612	27.78991644	1.26E-05	0.000785946120	chr10	34414563	34415062
MRT_839586	2.269800666	2.819126236	30.00238861	7.15E-06	5.14E-04	chr11	126009348	126009847
MRT_635440	2.269744377	2.153677615	30.01928469	7.12E-06	0.000512847055	chr8	78545950	78546449
MRT_848182	2.269347508	2.54308337	31.74432801	4.65E-06	0.000371722882	chr12	7796595	7797094
MRT_80645	2.268910655	2.729460542	14.55138473	6.76E-04	0.01763337572	chr1	183701354	183701853
MRT_1047095	2.268694801	2.176638432	44.8665765	1.85E-06	1.82E-04	chr16	54688198	54688697
MRT_645441	2.268540388	2.372867509	12.28177563	1.53E-03	0.03340635523	chr8	102888129	102888628
MRT_974033	2.268518842	2.180296563	15.47397882	4.91E-04	0.01371481146	chr14	84180442	84180941
MRT_858228	2.268050133	2.044750743	37.20748531	1.83E-05	0.001051041681	chr12	29706207	29706706
MRT_251739	2.267744573	2.122799626	19.76000888	1.22E-04	0.004606819373	chr3	64849525	64850024

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_263153	2.267343496	2.444955048	45.18623869	2.47E-07	3.86E-05	chr3	100701521	100702020
MRT_45082	2.267170231	2.23384582	26.39396804	1.82E-05	0.001044945062	chr1	83568437	83568936
MRT_1082693	2.266770292	2.430231363	27.71511924	1.28E-05	0.000797619017	chr17	33378902	33379401
MRT_775981	2.266616935	2.707358781	30.87520412	5.76E-06	0.000434532931	chr10	123201742	123202241
MRT_155638	2.266497777	2.846275269	20.89193722	8.67E-05	3.52E-03	chr2	100327829	100328328
MRT_1082719	2.266414646	2.312107464	29.62620888	7.86E-06	5.53E-04	chr17	33409073	33409572
MRT_260961	2.266216096	2.208823949	19.13995169	1.48E-04	0.005321549318	chr3	90059454	90059953
MRT_752746	2.264930901	2.181462745	33.62241568	2.97E-06	0.000261720504	chr10	76177932	76178431
MRT_1153204	2.264627975	2.41862998	68.87562379	1.98E-08	5.50E-06	chr19	13743829	13744328
MRT_265457	2.264031222	3.060653848	18.00502011	2.12E-04	0.007110047876	chr3	106918608	106919107
MRT_67357	2.263868441	3.779253043	31.72387655	4.68E-06	0.000372737045	chr1	156637771	156638270
MRT_468386	2.263772748	3.511830629	19.2045356	0.000145319793	0.005246652624	chr6	24052606	24053105
MRT_962577	2.263410933	2.484747844	47.3925886	1.61E-07	2.77E-05	chr14	61728726	61729225
MRT_492759	2.263126868	2.410669269	23.06247515	4.59E-05	0.002128356306	chr6	85123980	85124479
MRT_1179800	2.263070741	2.628728912	30.56007824	6.22E-06	0.000461796387	chr20	5712361	5712860
MRT_419230	2.263048956	2.176752114	25.46128826	2.34E-05	0.001271261002	chr5	97173901	97174400
MRT_258895	2.262265848	2.379277244	19.22272881	1.44E-04	0.00521993411	chr3	82000741	82001240
MRT_702638	2.261970119	2.375309659	17.90402843	2.19E-04	0.00727525029	chr9	113431681	113432180
MRT_265402	2.261573294	3.493660293	16.91896459	3.02E-04	0.00934417206	chr3	106839529	106840028
MRT_113681	2.261516577	2.996276939	13.00185109	1.18E-03	0.02718171976	chr2	5831332	5831831
MRT_1110708	2.26143497	2.819601528	45.02609216	2.55E-07	3.97E-05	chr17	80745058	80745557
MRT_582576	2.26127351	2.723949986	17.09110195	2.86E-04	8.94E-03	chr7	116442687	116443186
MRT_772546	2.26052471	2.44501931	32.74899867	3.65E-06	0.000308830836	chr10	116422538	116423037
MRT_734087	2.260471516	3.323663559	20.01886232	1.13E-04	0.004322754292	chr10	29906751	29907250
MRT_438068	2.260421295	2.663683578	47.83576892	1.48E-07	2.61E-05	chr5	141818772	141819271
MRT_1199094	2.260195579	2.907470694	93.93582864	1.62E-10	1.83E-07	chr20	48391632	48392131
MRT_45652	2.260016343	3.318039707	24.9438947	2.70E-05	0.001415582349	chr1	84768406	84768905
MRT_265465	2.259958932	3.656945449	16.84599751	3.10E-04	0.009506880248	chr3	106928178	106928677
MRT_800342	2.259474042	2.74591557	44.64875545	2.75E-07	4.18E-05	chr11	36094887	36095386
MRT_155600	2.259402409	2.177619117	25.38236185	2.40E-05	0.001288570367	chr2	100280070	100280569

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_732794	2.25925213	2.2228298	31.3741818	5.09E-06	0.000396685784	chr10	27664745	27665244
MRT_294170	2.258257947	2.339730468	24.67515488	2.91E-05	0.001492752091	chr3	171099005	171099504
MRT_932154	2.257906435	2.473299538	19.60166965	1.28E-04	0.004784953434	chr13	81178180	81178679
MRT_1007198	2.25739858	2.261149177	35.09411095	2.11E-06	2.01E-04	chr15	66692828	66693327
MRT_1009773	2.257091975	2.433092991	14.17687942	7.71E-04	0.01956448118	chr15	71006542	71007041
MRT_738233	2.256087424	2.267741041	19.94673723	1.16E-04	4.40E-03	chr10	36569067	36569566
MRT_975962	2.255952358	2.76704885	29.97045726	7.21E-06	0.000517985209	chr14	90226534	90227033
MRT_210519	2.255852983	2.206310848	16.06069146	0.000402386309	0.01170019835	chr2	227311009	227311508
MRT_41033	2.255490285	2.660596112	15.86989684	0.000429144865	0.01232287975	chr1	70380580	70381079
MRT_583911	2.255223982	2.290444811	18.369952	1.89E-04	0.006505956926	chr7	120383165	120383664
MRT_932431	2.255173287	2.046080903	32.78486406	2.26E-05	0.001235648149	chr13	81677568	81678067
MRT_932257	2.255155168	2.717265614	13.81609922	8.76E-04	0.0216653341	chr13	81357207	81357706
MRT_67358	2.255133829	3.737455962	28.66378546	1.00E-05	0.000662338594	chr1	156638418	156638917
MRT_476324	2.254985756	2.23578455	24.36463971	3.17E-05	0.001595191693	chr6	38521813	38522312
MRT_522099	2.254915153	2.721356118	27.14472843	1.49E-05	0.000894104693	chr6	154837211	154837710
MRT_932128	2.254846843	2.761914293	14.25859116	7.49E-04	0.01912362162	chr13	81134782	81135281
MRT_1229359	2.25474568	2.489770265	22.74464662	5.03E-05	0.00228937096	chr22	27601980	27602479
MRT_249623	2.254695979	2.278008788	25.28012305	2.46E-05	0.001319364306	chr3	59689987	59690486
MRT_1181498	2.254587071	2.094742175	29.94606942	1.12E-05	0.000717354146	chr20	11432492	11432991
MRT_202970	2.254028995	2.259047344	18.68322532	0.000171154945	0.006000073601	chr2	211152017	211152516
MRT_83497	2.253883794	3.017488077	17.96946843	2.15E-04	0.00717635275	chr1	192419864	192420363
MRT_745093	2.253712509	2.038923873	27.4965557	2.29E-05	1.25E-03	chr10	61513706	61514205
MRT_1266141	2.253309348	2.77462638	15.71090967	4.53E-04	0.01285096262	chrX	114603490	114603989
MRT_861225	2.252937745	2.083405845	22.54444346	5.32E-05	0.002396565825	chr12	41830158	41830657
MRT_106337	2.252822753	2.323899907	19.94642766	1.16E-04	0.004395500718	chr1	239973410	239973909
MRT_1179801	2.252752255	2.58194662	27.64082919	1.31E-05	0.000809214461	chr20	5712903	5713402
MRT_294130	2.252741262	2.396302575	24.5531512	3.01E-05	0.001531187998	chr3	171038443	171038942
MRT_504189	2.252387592	2.587798203	15.10196397	5.58E-04	1.51E-02	chr6	113160614	113161113
MRT_1252249	2.25238656	1.955423234	15.25817233	5.29E-04	0.01453240875	chrX	33206729	33207228
MRT_297213	2.251559542	3.319677294	14.10509189	7.91E-04	0.01995324662	chr3	177257056	177257555

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_990517	2.250784686	2.223023032	23.11172915	4.52E-05	0.002103919838	chr15	33517994	33518493
MRT_138356	2.250417788	2.631397194	24.75404573	2.85E-05	0.001465805711	chr2	55347720	55348219
MRT_45101	2.249908815	2.045680608	35.2824848	2.23E-05	0.001226537598	chr1	83713763	83714262
MRT_726781	2.249903112	2.147121491	26.3983906	1.82E-05	0.001044945062	chr10	14302671	14303170
MRT_487453	2.248663414	2.495418203	14.05375541	8.05E-04	0.02023522454	chr6	70821965	70822464
MRT_343201	2.248254385	2.192742815	19.39498676	0.000136954309	0.005017464724	chr4	91956934	91957433
MRT_1029218	2.247820232	3.124195519	47.48384918	1.58E-07	2.75E-05	chr16	4004507	4005006
MRT_932137	2.247685742	3.344179251	15.53401442	4.81E-04	1.35E-02	chr13	81146946	81147445
MRT_361482	2.247670702	2.867515217	34.82309729	2.24E-06	0.000210597806	chr4	143323305	143323804
MRT_468061	2.247497309	2.312459367	25.0030903	2.66E-05	0.001400815099	chr6	23531216	23531715
MRT_1008843	2.24687061	2.780533625	24.27236288	3.26E-05	0.00162461166	chr15	69374262	69374761
MRT_892213	2.246870157	2.453586535	40.73120338	6.12E-07	7.73E-05	chr12	108793152	108793651
MRT_233653	2.246737685	2.699616088	17.59415048	0.000242491250	0.007882146411	chr3	29800795	29801294
MRT_1213208	2.246647414	2.116742915	27.69085976	1.29E-05	0.000801424949	chr21	28864539	28865038
MRT_466444	2.246521294	2.260916548	36.23668732	1.63E-06	1.65E-04	chr6	20499131	20499630
MRT_900175	2.246211627	3.21500429	74.98526805	1.82E-09	9.27E-07	chr12	122117489	122117988
MRT_45216	2.245863447	2.625487247	16.07592778	4.00E-04	0.01165638786	chr1	84014936	84015435
MRT_426799	2.244901697	1.986233262	17.53341435	2.47E-04	0.007995916453	chr5	119343774	119344273
MRT_670977	2.244884042	2.576103415	48.03349687	1.42E-07	2.55E-05	chr9	13173713	13174212
MRT_258977	2.244130938	2.316351691	24.33339376	3.20E-05	0.001604715343	chr3	82128306	82128805
MRT_1137405	2.243992074	2.472037433	29.27081083	8.60E-06	0.000588655458	chr18	60408423	60408922
MRT_239471	2.243732556	4.040138928	29.71043175	7.70E-06	0.000542819076	chr3	42113261	42113760
MRT_273471	2.243489237	3.14754372	15.15026668	5.49E-04	0.01494613351	chr3	124848016	124848515
MRT_545867	2.243321667	2.767906276	24.93616167	2.71E-05	0.001416489706	chr7	29851174	29851673
MRT_343012	2.24273698	2.26539731	20.69898946	9.19E-05	0.003673996657	chr4	91343211	91343710
MRT_476166	2.242168997	2.452151493	33.11625292	3.35E-06	0.000287674090	chr6	38237538	38238037
MRT_1029213	2.242125446	2.786113931	39.36408768	8.18E-07	9.74E-05	chr16	3999313	3999812
MRT_347191	2.242049574	2.245776157	18.51411232	1.81E-04	0.006277992136	chr4	105367481	105367980
MRT_259850	2.241837519	2.533852672	15.37449217	5.08E-04	1.41E-02	chr3	86278242	86278741
MRT_538730	2.24179457	2.804416426	13.09380477	1.14E-03	2.65E-02	chr7	15125071	15125570

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_421543	2.241609328	2.048397407	19.0948618	1.50E-04	0.005384734413	chr5	106426054	106426553
MRT_951356	2.240889687	2.351102378	24.3991187	3.14E-05	1.58E-03	chr14	35147071	35147570
MRT_260024	2.240215865	2.141988987	15.69937357	4.55E-04	0.01288700562	chr3	86894754	86895253
MRT_568437	2.240214628	2.091712604	20.04551684	1.12E-04	0.004292801892	chr7	84277078	84277577
MRT_183929	2.239104178	2.58868428	22.47838318	5.43E-05	0.002436007138	chr2	169768387	169768886
MRT_417644	2.238744607	2.387725387	22.50329704	5.39E-05	0.002420174752	chr5	93576907	93577406
MRT_473039	2.238055191	2.571677025	34.20340942	2.59E-06	0.000235468496	chr6	33822268	33822767
MRT_922931	2.238052941	2.436184056	24.635635	2.94E-05	0.001504950107	chr13	51117826	51118325
MRT_1060278	2.237809782	2.614089056	59.43095445	1.91E-08	5.35E-06	chr16	81270853	81271352
MRT_361487	2.237569711	3.480609662	29.37847197	8.37E-06	5.77E-04	chr4	143327202	143327701
MRT_1051634	2.237405358	2.385468769	44.70907755	2.71E-07	4.16E-05	chr16	66615157	66615656
MRT_400369	2.236872921	2.74941624	34.22298911	2.58E-06	0.000234733141	chr5	54898239	54898738
MRT_351014	2.236373579	3.067128489	16.38797629	3.61E-04	0.01070778522	chr4	114306566	114307065
MRT_760330	2.236302921	2.520510662	20.74302498	9.07E-05	0.003639311604	chr10	92783171	92783670
MRT_156686	2.235964723	3.104834784	11.96964202	1.72E-03	3.67E-02	chr2	102116976	102117475
MRT_407956	2.235849721	2.304328472	21.56756279	7.09E-05	0.003009158994	chr5	71774034	71774533
MRT_320621	2.23545789	2.737987053	27.0677623	1.52E-05	0.000906916360	chr4	26178056	26178555
MRT_190574	2.235183991	2.192213891	20.08744771	1.11E-04	0.004249638887	chr2	183493675	183494174
MRT_326809	2.234750241	2.140887336	19.3851454	1.37E-04	5.03E-03	chr4	44903943	44904442
MRT_372506	2.234355709	3.214976233	14.11405349	7.88E-04	0.01990583914	chr4	169529082	169529581
MRT_376876	2.234268496	2.22856804	21.42079452	7.40E-05	0.003120648105	chr4	182072955	182073454
MRT_356739	2.233329477	2.710322568	10.97398195	2.52E-03	0.04940623245	chr4	130256956	130257455
MRT_209819	2.233309334	2.471317251	28.93266045	9.37E-06	0.000628550118	chr2	225645508	225646007
MRT_516283	2.233152051	2.659872325	34.55179725	2.39E-06	0.000222088793	chr6	143167978	143168477
MRT_320658	2.232717288	2.455838607	22.81361382	4.93E-05	0.002256445821	chr4	26230767	26231266
MRT_738064	2.231958425	2.265393108	24.40677255	3.14E-05	0.001581566904	chr10	36223978	36224477
MRT_881943	2.2318847	2.286758098	22.04840507	6.15E-05	0.002677958721	chr12	88325462	88325961
MRT_572134	2.231798382	2.892799195	20.47744908	9.82E-05	0.003873855474	chr7	93959862	93960361
MRT_325681	2.231592838	2.616879154	39.03987891	8.77E-07	0.000102865833	chr4	41147430	41147929
MRT_789610	2.231081274	2.546256533	26.99473936	1.55E-05	0.000918583790	chr11	12201046	12201545

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_499812	2.230844651	2.167952296	19.31809917	1.40E-04	0.005099082919	chr6	105612697	105613196
MRT_1002064	2.23078005	2.571923016	22.18692111	5.91E-05	0.002599295852	chr15	57620241	57620740
MRT_1249779	2.230078583	2.166803648	22.32881835	5.67E-05	0.002509614847	chrX	21834726	21835225
MRT_492763	2.22987511	2.651572907	23.69051886	3.84E-05	0.001843648774	chr6	85134586	85135085
MRT_566997	2.229614769	2.051391892	17.09977043	2.85E-04	8.92E-03	chr7	80658817	80659316
MRT_917473	2.229533622	2.333478812	26.53876655	1.75E-05	1.01E-03	chr13	41155163	41155662
MRT_794737	2.22928711	2.122600892	23.75764788	3.76E-05	0.001818838418	chr11	22763476	22763975
MRT_1036230	2.228984479	2.188089369	31.30940739	5.17E-06	4.01E-04	chr16	19355679	19356178
MRT_349513	2.228552218	2.620024303	48.51299195	1.30E-07	2.37E-05	chr4	110967612	110968111
MRT_263052	2.228334233	2.593409437	40.43809859	6.51E-07	8.10E-05	chr3	100473335	100473834
MRT_361764	2.228023896	2.378062196	23.90943902	3.61E-05	0.001761387101	chr4	144004980	144005479
MRT_1217249	2.227231551	2.69844646	28.178865	1.14E-05	0.000728252069	chr21	37661656	37662155
MRT_318853	2.226933409	2.533657314	36.89347659	1.40E-06	0.000147751677	chr4	22417901	22418400
MRT_1025624	2.226041833	2.289156023	22.79249135	4.96E-05	2.26E-03	chr15	101056698	101057197
MRT_354544	2.225800436	2.612049048	20.06328468	1.11E-04	4.27E-03	chr4	124816106	124816605
MRT_44832	2.225405777	2.184304011	30.36360462	6.53E-06	0.000480130721	chr1	82693003	82693502
MRT_248267	2.224333917	2.509178065	44.0348145	3.11E-07	4.57E-05	chr3	57176375	57176874
MRT_265248	2.224088519	2.303091343	33.39397136	3.13E-06	0.000272976833	chr3	106567702	106568201
MRT_825771	2.224018623	2.953121922	31.27572341	5.22E-06	0.000404127936	chr11	96040521	96041020
MRT_171284	2.223929769	2.423253246	30.89483247	5.73E-06	0.000433466096	chr2	136882769	136883268
MRT_92203	2.223820219	2.558719854	37.59498723	1.20E-06	1.31E-04	chr1	210835976	210836475
MRT_572704	2.223622606	2.89807194	26.36811793	1.83E-05	1.05E-03	chr7	95105701	95106200
MRT_141966	2.223575479	2.315977731	53.93910719	3.11E-07	4.57E-05	chr2	64008001	64008500
MRT_428098	2.223553642	2.669895717	20.82270711	8.85E-05	0.003577954423	chr5	123190426	123190925
MRT_747278	2.223537294	2.655444995	35.38687181	1.97E-06	0.000190437960	chr10	65796651	65797150
MRT_354565	2.223174516	2.50780888	24.97206487	2.68E-05	0.001406952549	chr4	124857889	124858388
MRT_989385	2.223109074	2.395607947	20.57301742	9.54E-05	3.79E-03	chr15	30182647	30183146
MRT_476306	2.223063119	2.41890445	29.43064305	8.26E-06	0.000571441829	chr6	38485069	38485568
MRT_123198	2.222854791	2.30560805	29.44529827	8.23E-06	0.000570258818	chr2	24944257	24944756
MRT_171191	2.222771328	2.206178462	27.38066715	1.40E-05	0.000854724131	chr2	136751578	136752077

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_762077	2.22140351	2.160993404	33.64464971	4.66E-06	0.000371963401	chr10	95761838	95762337
MRT_1050528	2.221041079	1.999775458	21.00942792	8.37E-05	0.00343214329	chr16	64720221	64720720
MRT_354487	2.220745919	3.337520763	16.47243205	0.000350558991	0.01048650923	chr4	124707961	124708460
MRT_220380	2.220726498	2.312899712	17.61640306	2.41E-04	0.007835562577	chr3	1128717	1129216
MRT_209990	2.220543937	2.148191915	32.71073121	5.51E-06	0.000421253928	chr2	226039167	226039666
MRT_1213228	2.220193469	2.330319418	18.55461609	1.78E-04	0.006211392759	chr21	28942786	28943285
MRT_36632	2.219705938	2.473937416	25.92049058	2.07E-05	0.001155209086	chr1	61358552	61359051
MRT_800219	2.219569403	2.390381869	43.45272012	3.49E-07	4.99E-05	chr11	35941297	35941796
MRT_962576	2.219104118	2.590742146	42.83434101	3.96E-07	5.48E-05	chr14	61727975	61728474
MRT_954226	2.21907867	2.248206788	26.53449778	1.75E-05	0.001015085421	chr14	42746035	42746534
MRT_368148	2.219012224	2.692076615	12.9658704	0.00119126703	0.0274067046	chr4	156896212	156896711
MRT_151405	2.218526153	2.933164035	51.35374079	7.70E-08	1.57E-05	chr2	85971896	85972395
MRT_1022132	2.218216474	2.104017836	24.95101187	2.70E-05	0.001413389915	chr15	94537340	94537839
MRT_36634	2.217696104	2.289035478	19.23679334	1.44E-04	0.005200054403	chr1	61360738	61361237
MRT_167297	2.217633045	3.428964024	44.18676409	3.01E-07	4.47E-05	chr2	128617831	128618330
MRT_766399	2.217545882	2.159779335	35.3016143	4.50E-06	0.000362219196	chr10	103438614	103439113
MRT_1246454	2.217140252	2.61710975	20.08835972	1.11E-04	0.004249638887	chrX	10586041	10586540
MRT_155745	2.217126006	3.303876328	16.63777947	3.32E-04	1.00E-02	chr2	100498745	100499244
MRT_258960	2.216598807	2.252986013	38.03187734	1.09E-06	1.22E-04	chr3	82103978	82104477
MRT_542263	2.216077486	3.044947895	20.40059095	0.000100566839	0.003933177468	chr7	23286157	23286656
MRT_745988	2.215935429	3.026583121	21.91079216	6.41E-05	0.002772092636	chr10	63403059	63403558
MRT_634297	2.215798721	2.390186375	36.45145152	1.55E-06	1.59E-04	chr8	75015001	75015500
MRT_43649	2.215456917	2.257343131	21.43050459	7.38E-05	0.003112700413	chr1	79179099	79179598
MRT_636306	2.215444096	2.636920766	58.64248893	2.17E-08	5.89E-06	chr8	81110263	81110762
MRT_349550	2.215439137	2.247663419	50.9179092	1.35E-06	0.000143850274	chr4	111013406	111013905
MRT_398149	2.21485659	2.371652631	32.69509152	3.70E-06	0.000311174461	chr5	44089972	44090471
MRT_106699	2.214827663	2.266111378	20.64179957	9.35E-05	0.003727387962	chr1	240856216	240856715
MRT_143865	-2.21440565	2.663670598	11.10863372	2.39E-03	0.04743274313	chr2	67102105	67102604
MRT_1203847	2.214168348	2.426692815	23.306489	4.28E-05	0.002012676229	chr20	57098120	57098619
MRT_1213176	2.213972059	2.147281065	33.75218489	6.66E-06	0.000487135209	chr21	28778605	28779104

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_487388	2.213858056	1.984414514	17.45268877	2.54E-04	0.008148158361	chr6	70662293	70662792
MRT_1196525	2.213817896	3.236918259	39.89752933	7.30E-07	8.86E-05	chr20	44454997	44455496
MRT_349595	2.213543687	2.407373973	33.86083379	2.81E-06	0.000251328009	chr4	111078390	111078889
MRT_759532	2.213420953	2.72773172	21.34383382	7.57E-05	0.003171749899	chr10	90713223	90713722
MRT_1048182	2.211834472	2.572776197	41.26566055	5.47E-07	7.09E-05	chr16	56943368	56943867
MRT_573875	2.211666319	2.64632994	26.77402742	1.65E-05	9.63E-04	chr7	98101884	98102383
MRT_1094259	2.211434526	2.319816551	19.32168682	1.40E-04	0.005098264229	chr17	54368508	54369007
MRT_332956	2.211405649	2.376404533	23.53668605	4.01E-05	0.001907222916	chr4	67793722	67794221
MRT_630820	2.211297738	2.554615771	47.86076874	1.47E-07	2.61E-05	chr8	67471611	67472110
MRT_520718	2.210624372	2.804226235	33.87196381	2.80E-06	0.000251190080	chr6	151596166	151596665
MRT_1137507	2.210358475	2.524913157	26.43215298	1.80E-05	0.001038062806	chr18	60544552	60545051
MRT_419346	2.210167654	2.26884265	27.12969502	1.50E-05	8.97E-04	chr5	97550387	97550886
MRT_735527	2.209801862	3.23955751	42.58025116	4.17E-07	5.69E-05	chr10	32043975	32044474
MRT_476163	2.208331631	2.312204101	30.87944874	5.75E-06	0.000434336656	chr6	38234663	38235162
MRT_271633	2.208272631	2.266960324	35.16416932	2.08E-06	0.000198228538	chr3	121613220	121613719
MRT_794620	2.208179217	2.401287656	20.99747184	8.40E-05	3.44E-03	chr11	22500523	22501022
MRT_853978	2.208071384	2.87508906	53.95046699	4.84E-08	1.10E-05	chr12	19556059	19556558
MRT_95388	2.207985953	2.099827872	26.834105	1.62E-05	0.000950168258	chr1	217930540	217931039
MRT_123003	2.207978857	2.537261893	42.98874051	3.84E-07	5.35E-05	chr2	24658130	24658629
MRT_316483	2.207904088	2.481170676	31.92972721	4.45E-06	0.000359320101	chr4	16047442	16047941
MRT_865209	2.207166859	3.174981685	40.12335468	6.95E-07	8.53E-05	chr12	49608482	49608981
MRT_187240	2.206798641	2.546348575	31.22666485	5.28E-06	0.000407027296	chr2	175626521	175627020
MRT_441410	2.20666075	2.145233002	24.79931966	2.81E-05	1.45E-03	chr5	149311466	149311965
MRT_80607	2.206586532	2.431065973	14.72935971	6.35E-04	0.01677064741	chr1	183644007	183644506
MRT_82489	2.206507808	2.009008548	22.01652557	6.21E-05	0.002696270295	chr1	188121225	188121724
MRT_722186	2.206462313	2.277164828	18.20480689	0.000199239113	0.00677851226	chr10	4894512	4895011
MRT_45479	2.20639855	2.501418936	24.21043948	3.31E-05	1.64E-03	chr1	84376054	84376553
MRT_866449	2.206390981	3.229105257	35.4919197	1.93E-06	0.000186581201	chr12	51327443	51327942
MRT_1009066	2.206385833	2.227074389	29.28248568	8.57E-06	0.000587229869	chr15	69817115	69817614
MRT_102256	2.206242328	2.570121273	22.94670914	4.74E-05	0.002188252694	chr1	230894698	230895197

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1160621	2.205967496	2.801133016	33.50719647	3.05E-06	0.000266879773	chr19	31745056	31745555
MRT_376921	2.205948343	2.39456283	16.64115885	3.31E-04	0.01003758546	chr4	182179586	182180085
MRT_178984	2.205879973	2.542725373	46.52453525	1.90E-07	3.15E-05	chr2	158697074	158697573
MRT_155217	2.205852103	3.100244057	24.30901067	3.22E-05	0.001613715007	chr2	99533405	99533904
MRT_1196974	2.205462246	2.775697125	36.77319103	1.44E-06	0.000150523678	chr20	45200736	45201235
MRT_861264	2.205078845	2.044513068	15.99865463	4.11E-04	1.19E-02	chr12	41904901	41905400
MRT_1043621	2.205071244	2.332694443	24.80087498	2.81E-05	0.001454604458	chr16	48082719	48083218
MRT_265399	2.2049062	3.570842675	18.928868	1.58E-04	0.005620253947	chr3	106836924	106837423
MRT_504863	2.204588591	2.001792652	21.23802838	7.82E-05	0.003251782179	chr6	114426170	114426669
MRT_96177	2.204239051	2.386577192	14.89779723	5.99E-04	0.01601672998	chr1	219605618	219606117
MRT_240118	2.203610494	2.308591985	12.86368804	0.001236695765	0.02821134365	chr3	43186981	43187480
MRT_39135	2.203544971	2.596436008	42.22318757	4.49E-07	6.04E-05	chr1	65641102	65641601
MRT_745866	2.203324618	2.367591985	23.81830527	3.70E-05	0.001795475334	chr10	63080632	63081131
MRT_844424	2.203073372	2.327971601	36.41309177	1.56E-06	1.60E-04	chr12	813393	813892
MRT_1220938	2.202995587	2.86727506	42.6022771	4.15E-07	5.67E-05	chr21	44579415	44579914
MRT_408680	2.202948584	2.596257233	25.01653554	2.65E-05	0.001397782787	chr5	73224382	73224881
MRT_408695	2.202759464	3.030993031	21.41779785	7.41E-05	0.003121351079	chr5	73244534	73245033
MRT_83909	2.202484268	3.082362519	27.96502073	1.20E-05	7.58E-04	chr1	193150150	193150649
MRT_880183	2.202268438	2.250392095	32.08869133	4.28E-06	0.000348163313	chr12	81471025	81471524
MRT_378757	2.202082626	2.67069224	35.37757968	1.98E-06	0.000190497675	chr4	185574766	185575265
MRT_290289	2.201821845	2.576495727	25.03523037	2.63E-05	0.001392026135	chr3	159577148	159577647
MRT_688861	2.20143164	2.279021653	17.7356998	2.32E-04	0.007597249639	chr9	85169985	85170484
MRT_323933	2.201104677	2.52670447	51.02751424	8.17E-08	1.66E-05	chr4	38576187	38576686
MRT_430414	2.200785576	2.595826258	17.39942458	2.58E-04	0.008257188211	chr5	127220871	127221370
MRT_761793	2.200764781	2.898583117	29.2872767	8.56E-06	0.000587189636	chr10	95248769	95249268
MRT_670972	2.20068239	2.492533641	42.06799474	4.63E-07	6.20E-05	chr9	13166827	13167326
MRT_1248081	2.2005786	2.214642716	16.40384759	0.000358668128	0.01066585107	chrX	15974686	15975185
MRT_726916	2.200100583	2.331542369	16.28286027	0.000373469051	0.01101082607	chr10	14549017	14549516
MRT_258967	2.199852493	2.157629561	25.24257933	2.49E-05	0.001329760374	chr3	82115626	82116125
MRT_775984	2.199234276	2.884031332	15.43653883	4.97E-04	0.01385654607	chr10	123203990	123204489

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MRT_354532	2.199195179	2.423310036	27.6941018	1.29E-05	0.000801137538	chr4	124790699	124791198
MRT_106683	2.199155958	2.375204766	22.444235	5.48E-05	0.002448149541	chr1	240824602	240825101
MRT_343183	2.199139116	2.124984385	18.01919774	0.000211434739	0.007088848477	chr4	91904868	91905367
MRT_870859	2.198642141	2.314355031	23.19680399	4.41E-05	0.002063164142	chr12	59579060	59579559
MRT_844395	2.198557899	2.856728988	62.33036749	1.19E-08	3.76E-06	chr12	7711140	771639
MRT_44830	2.198222885	2.469430185	24.66759468	2.92E-05	0.001495280907	chr1	82691664	82692163
MRT_294968	2.197811284	2.363049096	31.76603685	4.63E-06	0.000370101264	chr3	172365472	172365971
MRT_637176	2.197151366	2.156148877	21.01720899	8.35E-05	0.003426368706	chr8	82884598	82885097
MRT_1213111	2.197113464	2.006719434	28.3804363	6.69E-05	0.002874008234	chr21	28584699	28585198
MRT_304018	2.196552535	2.16641342	22.89981149	4.81E-05	0.002213929304	chr3	190985609	190986108
MRT_265308	2.196509099	2.031253608	26.55930188	4.51E-05	0.002098223996	chr3	106690831	106691330
MRT_408668	2.196397831	2.622681672	22.24311911	5.81E-05	0.002562344735	chr5	73213839	73214338
MRT_19518	2.196207191	2.896769582	27.06379038	1.52E-05	0.000907196949	chr1	30793265	30793764
MRT_354304	2.195870462	2.589344914	32.31898966	4.05E-06	0.000333683769	chr4	124373778	124374277
MRT_275139	2.195067123	2.285718524	42.13424004	9.14E-07	0.000106027081	chr3	127463646	127464145
MRT_74704	2.19482602	2.691901959	44.46916405	2.85E-07	4.29E-05	chr1	172051974	172052473
MRT_210115	2.194809231	2.039617399	35.77080491	3.16E-05	0.001590211082	chr2	226349111	226349610
MRT_43648	2.194615537	2.557663715	25.80360916	2.14E-05	0.00118556593	chr1	79178152	79178651
MRT_60394	2.194407774	2.34599288	24.92307345	2.72E-05	1.42E-03	chr1	118702827	118703326
MRT_568364	2.194262787	2.007624831	22.90458922	6.84E-05	0.002920510322	chr7	84085009	84085508
MRT_55319	2.193697466	2.213740119	41.40392043	2.71E-06	0.000243537414	chr1	109138848	109139347
MRT_95426	2.193575735	2.273823148	30.59124921	6.17E-06	0.000459584300	chr1	218030332	218030831
MRT_52163	2.193452791	2.239187998	14.98853058	5.80E-04	1.56E-02	chr1	98569691	98570190
MRT_155177	2.192942543	2.564885151	28.49754943	1.05E-05	0.000684430821	chr2	99486177	99486676
MRT_745973	2.192185734	2.457689048	19.81260247	1.20E-04	0.004546325889	chr10	63382819	63383318
MRT_1201081	2.191936314	2.102282058	17.91192507	2.19E-04	0.007266764465	chr20	51396841	51397340
MRT_411146	2.191888778	4.167477554	13.374002	1.03E-03	0.02458088536	chr5	78204145	78204644
MRT_365916	2.191663905	2.40405352	29.44547141	8.23E-06	0.000570258818	chr4	152147546	152148045
MRT_859061	2.191652021	3.35289459	20.16286552	0.00010811517	0.004170522955	chr12	31522966	31523465
MRT_1006517	2.191640559	3.325310348	39.05714432	8.73E-07	0.000102768787	chr15	65709334	65709833

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_733123	2.191603481	2.036624806	31.91750329	4.46E-05	0.002081192009	chr10	28384662	28385161
MRT_464881	2.191501113	2.352156709	35.36297409	1.98E-06	0.000190989556	chr6	17429079	17429578
MRT_183932	2.191203301	2.576931072	13.44530324	1.00E-03	0.02409689741	chr2	169771121	169771620
MRT_655313	2.191002463	2.320025023	37.10167504	1.34E-06	1.43E-04	chr8	126703576	126704075
MRT_726881	2.190835668	2.196143487	25.46233593	2.34E-05	0.001271261002	chr10	14496062	14496561
MRT_60601	2.190785448	2.206840826	28.73051408	9.87E-06	0.000653130183	chr1	119412628	119413127
MRT_610436	2.190586293	3.282077771	13.49234361	9.84E-04	0.02375472892	chr8	17708620	17709119
MRT_313013	2.189806853	2.690207807	28.28882773	1.11E-05	0.000714665557	chr4	7465268	7465767
MRT_351042	2.189804468	2.234796689	25.95099551	2.05E-05	0.001148225091	chr4	114357385	114357884
MRT_1079384	2.189763191	2.667828595	27.82555704	1.25E-05	7.80E-04	chr17	27375435	27375934
MRT_896698	2.189751065	2.154445137	17.43389982	2.55E-04	0.008185064192	chr12	116194068	116194567
MRT_1198764	2.189672404	2.984801291	58.10896442	2.38E-08	6.35E-06	chr20	47959711	47960210
MRT_249390	2.18956727	2.138896935	16.76625294	0.000317983840	0.009713671113	chr3	59195904	59196403
MRT_880184	2.189382876	2.490519127	30.24908006	6.72E-06	0.000490904329	chr12	81471551	81472050
MRT_71988	2.189371604	2.264697022	31.43853085	5.01E-06	3.92E-04	chr1	167013745	167014244
MRT_993634	2.189337501	2.221533351	17.16772776	0.000278628864	0.008771311333	chr15	40190573	40191072
MRT_1214839	2.189171409	2.629729935	31.84688524	4.54E-06	0.000363826930	chr21	32911102	32911601
MRT_669721	2.1884924	2.113835132	26.39694876	1.82E-05	0.001044945062	chr9	9004526	9005025
MRT_484670	2.188287583	2.70923624	45.44127004	2.35E-07	3.70E-05	chr6	56536808	56537307
MRT_831521	2.187874115	3.907457014	18.07576632	2.08E-04	0.006987312191	chr11	111782511	111783010
MRT_702749	2.187724879	2.570838881	24.77930473	2.83E-05	0.00145973883	chr9	113642336	113642835
MRT_1018010	2.187231569	3.078980333	35.3547731	1.99E-06	0.000191057823	chr15	86022415	86022914
MRT_60395	2.1870235	2.322956975	27.54925847	1.34E-05	0.000824442924	chr1	118703660	118704159
MRT_932434	2.185609283	2.113065307	26.15089376	1.94E-05	0.001097541234	chr13	81684157	81684656
MRT_201401	2.184980902	2.774427254	38.44778992	9.97E-07	0.000113175425	chr2	207667237	207667736
MRT_545486	2.184974886	2.36630905	22.33595026	5.66E-05	0.002508788074	chr7	29030115	29030614
MRT_44925	2.18485914	2.141625388	26.87231699	1.60E-05	0.000941876474	chr1	83063352	83063851
MRT_80605	2.184771899	2.595319535	15.96947105	4.15E-04	1.20E-02	chr1	183642879	183643378
MRT_354272	2.184686354	2.946013201	19.27668981	1.42E-04	0.005153533134	chr4	124330794	124331293
MRT_1009069	2.184501489	2.355458077	22.3204484	5.68E-05	0.002513983371	chr15	69819118	69819617

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_501204	2.18402435	2.301607247	24.49421434	3.06E-05	0.001548428552	chr6	108108818	108109317
MRT_379245	2.183344538	2.686700355	27.75221055	1.27E-05	0.000792163113	chr4	186378253	186378752
MRT_375345	2.183272609	2.275814959	17.9114345	2.19E-04	0.007266764465	chr4	177191750	177192249
MRT_43994	2.183220916	2.00095325	18.17262225	2.01E-04	6.83E-03	chr1	80102649	80103148
MRT_1180614	2.182562975	1.960908066	22.85175396	0.000132627455	0.004904277149	chr20	8835769	8836268
MRT_882416	2.18253767	2.190840946	36.7817413	4.32E-06	0.000350693585	chr12	89641395	89641894
MRT_738069	2.182515727	2.395420323	23.62366728	3.91E-05	0.001869170476	chr10	36229889	36230388
MRT_119156	2.182427846	2.881881462	36.39450157	1.57E-06	0.000160160808	chr2	16083446	16083945
MRT_636205	2.182193743	2.609986165	20.89189197	8.67E-05	0.00351777122	chr8	80963690	80964189
MRT_1119721	2.181108278	2.690584736	27.67014137	1.30E-05	0.000804599455	chr18	20611787	20612286
MRT_354503	2.181107543	2.082738307	22.32907149	5.67E-05	0.002509614847	chr4	124738057	124738556
MRT_209989	2.180488359	2.182483851	33.49928388	4.81E-06	0.000380412879	chr2	226038603	226039102
MRT_402419	2.180269035	2.416368292	27.10666568	1.51E-05	0.000901441843	chr5	58839258	58839757
MRT_723014	2.179327012	2.698343961	30.76681135	5.91E-06	4.43E-04	chr10	6236232	6236731
MRT_1216904	2.179236695	1.971877404	23.59277005	0.000129647774	0.004817974153	chr21	36738967	36739466
MRT_354568	2.178538111	2.146577789	24.32552799	3.21E-05	0.00160760904	chr4	124862175	124862674
MRT_596113	2.178527365	2.400815692	23.55253628	3.99E-05	0.001900803126	chr7	146752501	146753000
MRT_732954	2.178503973	3.025123699	15.9910056	4.12E-04	0.01190718005	chr10	27946988	27947487
MRT_618225	2.178463253	2.310948152	30.57597843	6.20E-06	0.000460615008	chr8	33670142	33670641
MRT_22160	2.17822185	2.116623697	21.05839163	8.25E-05	3.40E-03	chr1	35171518	35172017
MRT_1050530	2.178119001	2.001845891	20.53807083	9.65E-05	0.003822633981	chr16	64721687	64722186
MRT_880041	2.17729742	2.157839244	30.10385269	7.74E-06	0.000545471504	chr12	81123999	81124498
MRT_372503	2.177096914	3.698894968	11.02373803	2.47E-03	0.04868786286	chr4	169525662	169526161
MRT_82862	2.176960967	2.266311834	23.86488967	3.65E-05	0.001778843767	chr1	190138296	190138795
MRT_538809	2.176778137	2.740536346	19.85365589	1.19E-04	0.004499379254	chr7	15268476	15268975
MRT_751640	2.17639933	2.471886054	26.22904409	1.90E-05	0.001080530118	chr10	74449982	74450481
MRT_772545	2.176253876	2.340670548	28.99340299	9.23E-06	6.20E-04	chr10	116420872	116421371
MRT_959764	2.175624759	2.386336263	21.55268116	7.12E-05	0.003019049021	chr14	56024010	56024509
MRT_880473	2.175106703	2.139327318	19.47265463	1.34E-04	0.004936466865	chr12	82807753	82808252
MRT_731494	2.174723412	2.177540228	18.61388848	1.75E-04	0.006111053601	chr10	24632456	24632955

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_192504	2.173957787	2.342974052	20.76830194	9.00E-05	0.003626624442	chr2	188479443	188479942
MRT_46485	2.173910006	2.173689452	32.98010443	6.57E-06	0.000481716299	chr1	86649358	86649857
MRT_794621	2.173693958	2.132582915	17.45366683	2.54E-04	0.008147628824	chr11	22501512	22502011
MRT_1233276	2.173536887	2.302920126	11.28054902	2.24E-03	0.04509495263	chr22	33477998	33478497
MRT_259744	2.173288473	2.137314242	20.72863206	9.11E-05	0.003649071711	chr3	85887963	85888462
MRT_613489	2.17320733	2.392777438	30.28288009	6.67E-06	0.000487344383	chr8	23834067	23834566
MRT_773457	2.173155964	2.291082546	17.62407934	2.40E-04	0.007818550965	chr10	118652678	118653177
MRT_281914	2.173146244	3.336161145	63.05789965	1.06E-08	3.50E-06	chr3	140769909	140770408
MRT_726858	2.173011804	2.344263171	21.4785583	7.28E-05	0.003075798736	chr10	14439067	14439566
MRT_1010402	2.172973487	2.386701436	40.53079362	6.38E-07	7.98E-05	chr15	72045611	72046110
MRT_426735	2.172645802	2.259597882	20.93501376	8.56E-05	0.00348367074	chr5	119125108	119125607
MRT_300877	2.172034937	3.026402761	40.27934196	6.73E-07	8.30E-05	chr3	184406103	184406602
MRT_401644	2.171873378	2.491470572	11.40988814	0.002132178786	0.04337333828	chr5	57138532	57139031
MRT_354566	2.171780821	2.588605669	19.9733607	1.15E-04	0.004371575817	chr4	124858692	124859191
MRT_670985	2.171167763	2.306385361	39.98901325	7.15E-07	8.72E-05	chr9	13187204	13187703
MRT_36469	2.171138022	2.425041525	17.2496692	0.000271259141	0.008599070723	chr1	60853615	60854114
MRT_766456	2.170943513	2.434970006	26.89544806	1.59E-05	0.000938717330	chr10	103512555	103513054
MRT_1228742	2.170821557	2.351280086	19.64123942	1.27E-04	0.004735143169	chr22	26338551	26339050
MRT_636088	2.170668243	2.441447875	37.99679447	1.10E-06	0.000122537264	chr8	80792932	80793431
MRT_1152739	2.170588774	3.135447849	75.12106474	1.79E-09	9.17E-07	chr19	13023852	13024351
MRT_336644	2.170427704	2.666194274	63.27032062	1.03E-08	3.44E-06	chr4	77077228	77077727
MRT_951947	2.170304411	2.173014826	28.15595172	1.14E-05	0.000730746364	chr14	36025692	36026191
MRT_258923	2.170120911	2.441288761	29.24461051	8.66E-06	0.000590991445	chr3	82044577	82045076
MRT_65677	2.169958415	3.43952282	45.11569673	2.50E-07	3.91E-05	chr1	154158626	154159125
MRT_703354	2.169788411	2.345712255	65.8963994	4.06E-07	5.56E-05	chr9	114724040	114724539
MRT_265340	2.169669653	2.664937751	27.50071044	1.36E-05	0.000832624195	chr3	106744821	106745320
MRT_1034658	2.169265335	2.547785388	47.20499488	1.67E-07	2.85E-05	chr16	15192844	15193343
MRT_408021	2.168624301	2.55647635	22.3051008	5.71E-05	0.002523482903	chr5	71899874	71900373
MRT_1134057	2.168406477	2.660842284	19.41962271	1.36E-04	0.004990757803	chr18	53536098	53536597
MRT_130400	2.167925019	2.467190287	39.79330277	7.46E-07	9.02E-05	chr2	38701818	38702317

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_853976	2.167824839	2.757518241	81.01238765	8.05E-10	5.52E-07	chr12	19554984	19555483
MRT_568366	2.167698492	2.032907859	20.3694435	1.02E-04	0.003964452672	chr7	84090310	84090809
MRT_617302	2.167695518	2.184998741	17.38949553	0.000259162665	0.008279757564	chr8	31744165	31744664
MRT_265420	2.166880891	2.702298153	28.84857418	9.58E-06	0.000639003696	chr3	106860993	106861492
MRT_539374	2.166592632	3.701104807	14.92356301	0.000593384392	0.0159249505	chr7	16135311	16135810
MRT_187387	2.166129311	2.356225527	25.0614487	2.62E-05	0.001385923905	chr2	175831697	175832196
MRT_931644	2.16603933	2.387456593	18.67434154	1.72E-04	6.01E-03	chr13	80233936	80234435
MRT_1094260	2.165217192	2.265821863	19.54902862	1.31E-04	4.85E-03	chr17	54369579	54370078
MRT_962384	2.16499549	2.711567306	46.00782167	2.10E-07	3.39E-05	chr14	61442157	61442656
MRT_794646	2.164660822	2.303440435	19.86735795	1.18E-04	0.004483773347	chr11	22562350	22562849
MRT_252292	2.163586767	2.648550976	21.80614063	6.61E-05	0.002845144151	chr3	65817601	65818100
MRT_192141	2.163153253	2.594236189	18.08931692	2.07E-04	0.006968143141	chr2	187877678	187878177
MRT_1113016	2.162761731	2.573334507	18.41193903	0.000186515445	0.006430144053	chr18	3973249	3973748
MRT_539317	2.162320011	3.57822186	12.64489502	1.34E-03	0.03012609491	chr7	16065151	16065650
MRT_258919	2.162210516	2.31032717	16.57506975	0.000338789548	0.01023096037	chr3	82038369	82038868
MRT_572215	2.161991813	2.328086944	27.63328527	1.31E-05	0.000810024605	chr7	94080565	94081064
MRT_1005873	2.161695256	2.626182612	42.73033243	4.04E-07	5.54E-05	chr15	64814353	64814852
MRT_155213	2.161689106	3.444032282	19.07361744	1.51E-04	5.41E-03	chr2	99530576	99531075
MRT_775897	2.161541787	2.597617821	24.42377078	3.12E-05	0.001575191338	chr10	123072953	123073452
MRT_768726	2.160904924	2.44879647	23.39983232	4.16E-05	0.001971305015	chr10	107604392	107604891
MRT_922872	2.160784271	2.284629635	21.21411541	7.87E-05	0.003268616674	chr13	51002523	51003022
MRT_821910	2.160737514	2.272725287	34.76079873	2.28E-06	0.000213489149	chr11	85897367	85897866
MRT_1256519	2.16065211	2.034766584	16.45612577	0.000352468952	0.010523787	chrX	49741150	49741649
MRT_623945	-2.160516812	2.31643642	13.93631983	2.56E-03	0.04994229837	chr8	49455902	49456401
MRT_582577	2.160479738	2.751624805	13.96561497	8.31E-04	0.02077184842	chr7	116445185	116445684
MRT_954306	2.16042007	1.995981208	17.57833992	2.44E-04	7.92E-03	chr14	43010569	43011068
MRT_545101	2.160095178	2.204392611	26.14628743	1.95E-05	0.001097702022	chr7	28342068	28342567
MRT_106317	2.159991382	2.281701404	22.2884505	5.74E-05	0.00253398956	chr1	239927049	239927548
MRT_318924	2.159871544	2.86415282	16.29364034	3.72E-04	0.01098150592	chr4	22493554	22494053
MRT_1261849	2.159724633	1.912246724	20.57999323	2.99E-04	0.009276254168	chrX	82003776	82004275

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_932159	2.159027562	2.248324053	25.49245916	2.32E-05	0.001263191579	chr13	81181426	81181925
MRT_316493	2.158913649	2.298481506	25.62928865	2.24E-05	0.001229073359	chr4	16058920	16059419
MRT_632520	2.158849225	2.081392878	28.27800927	3.00E-05	0.001529281288	chr8	71426647	71427146
MRT_330734	2.158729154	2.355222371	24.07730821	3.44E-05	0.001695190542	chr4	57627635	57628134
MRT_343421	2.158225645	2.845463712	24.13514576	3.38E-05	0.001672819882	chr4	93226546	93227045
MRT_210092	2.157496418	2.201244848	24.35234878	3.18E-05	0.0015994058	chr2	226311636	226312135
MRT_620654	2.157218176	2.749627577	21.64537789	6.93E-05	0.002952215024	chr8	39809000	39809499
MRT_541830	2.157103523	2.392330052	31.81542908	4.57E-06	0.000366382610	chr7	22482421	22482920
MRT_613498	2.157018375	2.119832154	15.1939187	0.000540476502	0.01479165742	chr8	23845074	23845573
MRT_929643	2.156937254	2.044071333	24.03792363	5.33E-05	2.40E-03	chr13	75344230	75344729
MRT_726897	2.156776317	2.597606976	45.42545997	2.36E-07	3.70E-05	chr10	14519402	14519901
MRT_953085	2.156681647	2.219086543	20.79969802	8.91E-05	0.003599369244	chr14	39017275	39017774
MRT_568089	2.156634223	2.194041077	24.26391755	3.26E-05	0.00162717265	chr7	83424044	83424543
MRT_407896	2.156602406	2.426099955	30.40176426	6.47E-06	0.000476420200	chr5	71675810	71676309
MRT_661565	2.156298998	2.241053506	24.85457571	2.77E-05	0.001440217542	chr8	140594269	140594768
MRT_512704	2.156268536	2.214202476	28.50053605	1.05E-05	0.000684334040	chr6	134545253	134545752
MRT_209782	2.156156943	2.27047786	19.57843257	0.000129383818	0.004809574211	chr2	225576995	225577494
MRT_201402	2.155938019	2.662520267	41.17325396	5.58E-07	7.19E-05	chr2	207667776	207668275
MRT_932029	2.155890532	2.096912611	23.17585587	4.44E-05	2.07E-03	chr13	80964068	80964567
MRT_1094269	2.154700324	2.298209214	25.81678598	2.13E-05	0.001182372455	chr17	54394808	54395307
MRT_83540	2.154629874	2.937417158	29.44791202	8.22E-06	0.000570258818	chr1	192485847	192486346
MRT_1114177	2.154340064	3.739475656	12.99230651	1.18E-03	2.72E-02	chr18	6650687	6651186
MRT_258968	2.154275051	2.32403244	29.72029242	7.68E-06	0.000541912066	chr3	82116717	82117216
MRT_1194453	2.153542366	2.663573425	31.91492297	4.46E-06	0.000360381420	chr20	40016142	40016641
MRT_193170	2.152657078	2.442312114	31.53168644	4.90E-06	0.000385266152	chr2	189717954	189718453
MRT_1094238	2.152486309	2.430365305	18.88214184	1.61E-04	0.005684285602	chr17	54309099	54309598
MRT_336643	2.152407003	2.428207448	54.1379348	1.08E-07	2.03E-05	chr4	77076661	77077160
MRT_372460	2.152349806	3.313573423	11.62565728	0.001963658211	0.04063657007	chr4	169471078	169471577
MRT_512193	2.151964641	2.681814514	27.30300908	1.43E-05	0.000866131134	chr6	133753693	133754192
MRT_527482	2.151242928	2.421786915	19.32677469	1.40E-04	0.005098264229	chr6	164376177	164376676

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_620649	2.150846978	2.925506752	15.08902059	5.60E-04	0.01519990556	chr8	39801165	39801664
MRT_809762	2.150511163	2.888820304	54.58030529	4.34E-08	1.00E-05	chr11	63899330	63899829
MRT_873117	2.150407669	3.27761432	22.75474779	5.01E-05	0.002283527932	chr12	65783200	65783699
MRT_679426	2.150289937	2.57018114	18.65037276	0.000172940567	0.006051207545	chr9	33620993	33621492
MRT_476222	2.149585481	2.205419736	28.82303925	9.64E-06	0.000641843752	chr6	38331706	38332205
MRT_919092	2.149180531	2.4945905	15.77782796	0.000442736406	0.01261604794	chr13	43859992	43860491
MRT_932028	2.148514009	2.158678025	28.93530511	9.64E-06	0.000641843752	chr13	80963543	80964042
MRT_512949	2.148336239	2.451428596	28.16522668	1.14E-05	0.000729358668	chr6	134997863	134998362
MRT_512755	2.147538365	2.186008636	35.91599022	5.82E-06	0.000437958897	chr6	134629771	134630270
MRT_958006	2.147323085	2.688854906	39.84488404	7.38E-07	8.94E-05	chr14	53427128	53427627
MRT_410015	2.147201188	2.640101137	24.24107263	3.28E-05	0.001634391751	chr5	76083022	76083521
MRT_374262	2.146621382	2.573414942	54.94702438	4.07E-08	9.53E-06	chr4	174173345	174173844
MRT_516297	2.145986324	2.384934684	22.25209186	5.80E-05	0.002556536867	chr6	143188421	143188920
MRT_1119646	2.145117833	2.329864322	27.63760525	1.31E-05	0.000809503167	chr18	20502325	20502824
MRT_853830	2.14480911	2.861340993	20.41959835	1.00E-04	0.003914168827	chr12	19370402	19370901
MRT_932443	2.144471557	2.307032456	32.57205938	3.81E-06	0.000317732163	chr13	81714044	81714543
MRT_45188	2.144279779	2.597839361	19.30054018	1.41E-04	5.12E-03	chr1	83979732	83980231
MRT_400363	2.144255384	2.879274984	52.0006257	6.85E-08	1.43E-05	chr5	54892743	54893242
MRT_36190	2.143874299	2.521987573	18.10208524	0.000205892235	0.006952645297	chr1	60142109	60142608
MRT_500598	2.143786641	2.482163957	17.99400074	2.13E-04	0.007129943349	chr6	107199043	107199542
MRT_468024	2.143726327	2.31125267	13.31046884	1.05E-03	0.0249878486	chr6	23466717	23467216
MRT_1094679	2.143554002	2.482672466	53.72641283	5.04E-08	1.13E-05	chr17	55129125	55129624
MRT_794663	2.143413665	2.035139182	18.4345777	0.000185178645	0.00638753014	chr11	22597607	22598106
MRT_258852	2.14299782	2.08180008	28.20458813	2.47E-05	0.001324086287	chr3	81923383	81923882
MRT_796167	2.142803277	2.628061833	15.51283789	4.85E-04	0.01357460414	chr11	27136569	27137068
MRT_572210	2.142560246	2.302598139	24.10980279	3.41E-05	0.001681109161	chr7	94072234	94072733
MRT_430022	2.142104162	2.349487295	16.43375031	0.000355108029	0.01058656773	chr5	126337957	126338456
MRT_527893	2.141960529	2.406860142	14.7950851	6.20E-04	0.01645996767	chr6	165657261	165657760
MRT_510436	2.141892693	2.238448548	53.41385935	2.82E-06	0.000251819260	chr6	130165580	130166079
MRT_537299	2.141834431	2.676724931	17.8491272	2.23E-04	0.00737603658	chr7	11209853	11210352

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_142262	2.14182656	3.204359114	22.7806679	4.97E-05	0.002268964459	chr2	64539365	64539864
MRT_823605	2.141809492	2.225976842	17.68545509	2.35E-04	0.007693984391	chr11	91168953	91169452
MRT_932316	2.14172636	2.609418674	28.91341336	9.42E-06	0.000630816586	chr13	81452875	81453374
MRT_142738	2.141329712	2.661474639	53.81716587	4.96E-08	1.12E-05	chr2	65257712	65258211
MRT_652566	2.141325348	2.416035489	23.10899435	4.53E-05	2.10E-03	chr8	121080715	121081214
MRT_613497	2.141272892	2.117987128	18.89981995	1.60E-04	0.005655946653	chr8	23844273	23844772
MRT_99209	2.140996782	3.664548638	25.17513189	2.54E-05	0.001350617209	chr1	225843042	225843541
MRT_145293	2.140935116	2.18576241	14.77515013	6.25E-04	0.01655721739	chr2	69480291	69480790
MRT_1009071	2.140841093	2.380789007	24.91774313	2.72E-05	0.001420552948	chr15	69822240	69822739
MRT_1249741	2.140673193	2.138614531	15.60498719	0.000469518565	0.01323007739	chrX	21765527	21766026
MRT_372538	2.140591013	2.990625829	33.9991313	2.72E-06	0.000244515463	chr4	169563938	169564437
MRT_873687	2.140459661	3.059171575	24.27829681	3.25E-05	0.001623195618	chr12	66508822	66509321
MRT_419510	2.140278196	2.667439511	29.39825231	8.33E-06	0.000574894744	chr5	98126753	98127252
MRT_510410	2.14007571	2.616709909	23.0721873	4.57E-05	0.002123661712	chr6	130088835	130089334
MRT_249697	2.139595725	2.289088866	29.31087717	8.51E-06	0.000585225106	chr3	59822250	59822749
MRT_873071	2.139248411	4.287660783	31.8834391	4.50E-06	0.000362219196	chr12	65721326	65721825
MRT_990458	2.139030025	2.271867862	39.37897664	2.14E-06	0.000203852763	chr15	33404849	33405348
MRT_733175	2.138798104	2.360768755	28.13883324	1.15E-05	7.32E-04	chr10	28491709	28492208
MRT_260964	2.138699501	2.097287544	24.79993653	3.16E-05	1.59E-03	chr3	90065779	90066278
MRT_41032	2.138674163	2.33622774	14.01734859	8.16E-04	0.02046601338	chr1	70379538	70380037
MRT_193911	2.138292783	2.058617777	28.73266053	5.23E-05	0.002361185098	chr2	190778406	190778905
MRT_745091	2.138140227	2.103947813	20.26846013	1.05E-04	0.004064348074	chr10	61512038	61512537
MRT_908774	2.138115684	2.412973169	32.92812934	3.50E-06	0.000298103943	chr13	24023655	24024154
MRT_1033916	2.138079356	2.528217981	39.04264518	8.76E-07	0.000102865833	chr16	14003646	14004145
MRT_645403	2.137467913	2.206801419	19.27276162	1.42E-04	0.005155315564	chr8	102829214	102829713
MRT_565382	2.137400354	2.475160887	27.92328709	1.22E-05	0.000764734083	chr7	76737854	76738353
MRT_1134188	2.137399825	2.243902527	29.4412069	8.24E-06	5.71E-04	chr18	53776134	53776633
MRT_1072890	2.137375417	2.139156115	15.38571884	0.000506029564	0.01404107499	chr17	11388577	11389076
MRT_620801	2.137047827	2.839520168	13.70237745	9.12E-04	0.02238156075	chr8	40060292	40060791
MRT_89355	2.136689439	2.427497931	20.76208187	9.02E-05	3.63E-03	chr1	204898172	204898671

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_501117	2.1363894	3.033862391	23.28539984	4.30E-05	0.002022048657	chr6	107989964	107990463
MRT_504703	2.136219338	2.481384951	16.56407063	0.000340030248	0.01025621798	chr6	114150103	114150602
MRT_510480	2.136212504	2.019485959	22.13722786	7.77E-05	0.003234676616	chr6	130260402	130260901
MRT_366724	2.136188122	2.273583547	19.68857997	1.25E-04	0.004685742819	chr4	153567366	153567865
MRT_538700	2.136054175	2.856129436	26.88857708	1.60E-05	0.000939994862	chr7	15056500	15056999
MRT_966048	2.135972218	3.125997272	25.37405873	2.40E-05	0.001290889201	chr14	68487789	68488288
MRT_476331	2.135805439	2.07903451	41.48987182	3.57E-05	0.001748631688	chr6	38534405	38534904
MRT_361468	2.135754303	2.503102211	29.92588335	7.29E-06	0.000521931312	chr4	143299120	143299619
MRT_796313	2.135553118	2.439856672	53.962007	1.19E-07	2.19E-05	chr11	27315582	27316081
MRT_1004376	2.134675469	2.078421214	23.36319358	4.21E-05	0.001985786998	chr15	62612435	62612934
MRT_276977	2.134530016	2.10309982	27.13358801	2.68E-05	0.001407773819	chr3	130558514	130559013
MRT_958602	2.134461129	2.282369446	22.26025277	5.78E-05	0.002551383079	chr14	54331929	54332428
MRT_572216	2.134124402	2.346101504	21.50260801	7.23E-05	0.003058024973	chr7	94081513	94082012
MRT_297712	2.133852955	2.905374579	21.80292301	6.61E-05	2.85E-03	chr3	177888438	177888937
MRT_706733	2.133403472	2.093125681	16.85641962	0.000308651837	0.009485715317	chr9	122102487	122102986
MRT_1203535	2.133277116	2.249945996	16.95826567	0.0002984638130	0.009248805113	chr20	56686655	56687154
MRT_354536	2.132792486	2.07914768	24.22428537	3.74E-05	0.001809402007	chr4	124795775	124796274
MRT_43703	2.132697608	3.319696426	18.13796118	2.04E-04	0.006895307217	chr1	79306593	79307092
MRT_587715	2.132007194	3.58737283	41.15718946	5.59E-07	7.20E-05	chr7	129915053	129915552
MRT_953066	2.131908292	2.014747035	19.7232733	1.24E-04	0.004652363437	chr14	38965866	38966365
MRT_747277	2.131888448	2.523947828	32.22788728	4.14E-06	0.000339539351	chr10	65796128	65796627
MRT_545131	2.131585035	2.353551361	21.33704531	7.59E-05	0.003176062787	chr7	28387569	28388068
MRT_733134	2.131338166	2.109844465	37.76709366	2.24E-05	0.001227534171	chr10	28409344	28409843
MRT_590259	2.131131825	2.4792226	56.38045708	6.02E-08	1.29E-05	chr7	134231611	134232110
MRT_1112835	2.130767839	3.110840507	22.57779018	5.27E-05	0.002376054033	chr18	3722225	3722724
MRT_1266657	2.130527996	2.525178134	15.57901149	4.74E-04	0.01332747284	chrX	117350359	117350858
MRT_356729	2.130515285	2.445541596	12.51861759	1.40E-03	0.03123466566	chr4	130244732	130245231
MRT_1249757	2.130310317	2.247692157	28.64290262	1.01E-05	0.000665347265	chrX	21797124	21797623
MRT_1181832	2.130308916	2.356147634	17.65751922	2.38E-04	0.007744634437	chr20	12352539	12353038
MRT_794719	2.130184503	2.289920686	16.74184832	3.21E-04	0.009777773936	chr11	22724517	22725016

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1016157	2.130072862	2.087541558	12.7499902	0.001289448881	0.02917858329	chr15	81806335	81806834
MRT_917540	2.129506215	3.012614248	20.49865947	9.76E-05	0.003854757331	chr13	41255883	41256382
MRT_138587	2.129465346	2.256681274	23.68957475	3.84E-05	0.001843648774	chr2	55717631	55718130
MRT_780568	2.129356145	2.637905999	24.49505536	3.06E-05	0.001548428552	chr10	131751882	131752381
MRT_330754	2.129093967	3.060869722	28.28959376	1.11E-05	0.000714665557	chr4	57653279	57653778
MRT_364527	2.12828841	2.437165327	33.55889539	3.01E-06	0.000264012372	chr4	148951645	148952144
MRT_932444	2.127464313	2.132567254	29.15598338	2.07E-05	0.001155209086	chr13	81714878	81715377
MRT_141588	2.127367104	2.224602824	19.7044438	1.24E-04	0.004672529712	chr2	63052393	63052892
MRT_798435	2.127106424	2.122884468	40.34295881	2.11E-05	0.001176154033	chr11	32843305	32843804
MRT_1119588	2.126987411	2.114827388	16.2976191	3.72E-04	1.10E-02	chr18	20380836	20381335
MRT_1006515	2.126022463	3.324154886	53.80848555	4.97E-08	1.12E-05	chr15	65707500	65707999
MRT_1103139	2.125933602	2.275228487	25.01502549	2.65E-05	0.001397782787	chr17	68654414	68654913
MRT_797027	2.125536082	2.049184533	16.86094797	3.08E-04	0.00948074139	chr11	28882310	28882809
MRT_636144	2.125495886	2.35701054	30.19487603	6.81E-06	0.000495594232	chr8	80867457	80867956
MRT_788589	2.125489725	2.976402305	38.60987328	9.62E-07	0.000110045670	chr11	10476337	10476836
MRT_45388	2.125300981	2.786147216	14.34736486	0.000725692809	0.01865568831	chr1	84242530	84243029
MRT_617250	2.124783414	2.223888628	22.42313609	5.52E-05	0.00245714411	chr8	31636952	31637451
MRT_859060	2.12459572	3.256765709	17.06316458	2.88E-04	0.00900791003	chr12	31522436	31522935
MRT_931782	2.124513172	2.340781655	24.29977278	3.23E-05	0.001616663382	chr13	80491709	80492208
MRT_487359	2.124382128	2.236758425	23.02750185	4.63E-05	0.002145100635	chr6	70578814	70579313
MRT_571622	2.123992967	2.102913888	25.46078701	3.45E-05	0.001697537938	chr7	92644139	92644638
MRT_950319	2.123946858	2.398049464	30.3588489	6.54E-06	0.000480421255	chr14	33020088	33020587
MRT_119157	2.123711316	2.568356931	36.81100985	1.43E-06	1.50E-04	chr2	16083955	16084454
MRT_942909	2.123659902	2.617375879	26.00903959	2.02E-05	0.001132986348	chr13	111698801	111699300
MRT_1234364	2.12362567	2.80418024	41.05848389	5.71E-07	7.31E-05	chr22	36259411	36259910
MRT_490656	2.12355528	2.355821679	25.1570002	2.55E-05	0.001356789505	chr6	79905461	79905960
MRT_476186	2.12328686	2.2780545	24.07244141	3.44E-05	0.00169684877	chr6	38274647	38275146
MRT_393675	2.122932537	1.892147519	14.49496907	6.89E-04	0.01791166758	chr5	34265457	34265956
MRT_155618	2.122928477	2.506563147	34.962376	2.17E-06	0.000205314809	chr2	100305487	100305986
MRT_955529	2.122842954	2.214370763	18.13348906	0.000203833280	0.006899650471	chr14	47455258	47455757

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_704394	2.122692844	3.418481716	23.80585718	3.71E-05	0.001799728554	chr9	116362200	116362699
MRT_732914	2.12247823	2.243450194	43.75591824	3.68E-06	0.000310421670	chr10	27890996	27891495
MRT_796267	2.12216225	3.330613004	19.73581237	0.000123246782	0.004635789546	chr11	27255629	27256128
MRT_620689	2.12215319	2.484188334	20.76038298	9.02E-05	0.003630669914	chr8	39870851	39871350
MRT_743249	2.121943244	2.124877335	18.77181455	1.66E-04	0.005844401768	chr10	54009574	54010073
MRT_859059	2.121891868	3.095560576	15.85789666	4.31E-04	0.0123562256	chr12	31521927	31522426
MRT_646372	2.12164009	3.127314972	71.46779019	3.00E-09	1.37E-06	chr8	104384305	104384804
MRT_482621	2.121548456	2.593457707	36.56021187	1.51E-06	0.000156840375	chr6	52288617	52289116
MRT_171788	2.121260763	2.207674194	13.79541781	8.83E-04	2.18E-02	chr2	138191548	138192047
MRT_263071	2.121137425	2.500671997	34.28522995	2.54E-06	0.000231855237	chr3	100500672	100501171
MRT_268930	2.120946398	2.243745388	33.7140436	3.68E-06	0.000310421670	chr3	114611790	114612289
MRT_563557	2.120599007	3.290740035	47.12108861	1.70E-07	2.88E-05	chr7	73241928	73242427
MRT_171776	2.120479677	2.230243372	15.69327646	4.56E-04	0.01290507856	chr2	138163046	138163545
MRT_1090641	2.119847008	2.478721243	31.50945431	4.93E-06	0.000386756688	chr17	46236568	46237067
MRT_260028	2.119738768	2.328181566	17.15711766	0.000279598751	0.008790934071	chr3	86905530	86906029
MRT_932155	2.11969404	2.168780671	30.44647621	1.22E-05	0.000765346073	chr13	81178706	81179205
MRT_1262870	2.119629915	2.098724024	14.65036828	0.000652553428	0.01714290835	chrX	94765896	94766395
MRT_296200	2.118714274	2.404831118	20.24269576	0.000105514676	0.004090019614	chr3	174996727	174997226
MRT_296340	2.11866033	2.041722184	17.16528641	2.79E-04	8.77E-03	chr3	175366442	175366941
MRT_596103	2.118288913	2.464227694	24.65559175	2.93E-05	0.001499662053	chr7	146732008	146732507
MRT_748985	2.118095665	2.643012396	49.55939684	1.07E-07	2.03E-05	chr10	70630695	70631194
MRT_50804	2.117852105	2.02239694	25.56988058	1.01E-04	0.003959070107	chr1	95051896	95052395
MRT_797119	2.117706306	2.141517102	17.04328183	2.90E-04	0.009053565869	chr11	29277210	29277709
MRT_202625	2.117219584	2.649822733	15.17029769	0.000544890258	0.01486538074	chr2	210338540	210339039
MRT_24772	2.117062156	2.403658145	45.02060625	3.08E-07	4.54E-05	chr1	39635842	39636341
MRT_538832	2.116943615	1.948708068	17.18669832	2.81E-04	0.008825156692	chr7	15306374	15306873
MRT_836790	2.115646478	2.700347336	30.70595705	6.00E-06	4.49E-04	chr11	120942390	120942889
MRT_1112811	2.115565493	3.103572034	19.55453556	1.30E-04	0.004842429619	chr18	3692286	3692785
MRT_595977	2.115445048	2.398382639	13.29559631	1.06E-03	2.51E-02	chr7	146353007	146353506
MRT_1099784	2.115430801	2.181017526	31.12180405	1.13E-05	0.000723105233	chr17	62716332	62716831

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_794608	2.115272154	2.23573954	20.03547377	0.000112408575	0.004302121063	chr11	22478830	22479329
MRT_265184	2.115132835	2.551171955	19.25760477	0.000142934955	0.005175281788	chr3	106465678	106466177
MRT_155669	2.114986178	2.220521594	30.71678285	5.99E-06	0.000447615341	chr2	100392652	100393151
MRT_484347	2.113511822	2.227449154	23.56308232	3.98E-05	0.001896549346	chr6	55898217	55898716
MRT_55956	2.113507749	2.714395225	47.42658994	1.60E-07	2.77E-05	chr1	110072715	110073214
MRT_879791	2.11342404	2.168408355	25.03488232	2.64E-05	0.001392026135	chr12	80635925	80636424
MRT_86363	2.113257266	2.236764717	19.90645047	1.17E-04	0.004438208615	chr1	200462471	200462970
MRT_908772	2.113120504	2.483780001	33.56035202	3.01E-06	0.000264012372	chr13	24022124	24022623
MRT_931658	2.113022203	2.503660612	16.56549258	0.000339869579	0.01025381023	chr13	80252225	80252724
MRT_542262	2.112968525	2.541800992	16.15427266	0.000389922607	0.01141367274	chr7	23285457	23285956
MRT_883663	2.112391792	3.537198766	17.36053438	2.62E-04	0.008341445238	chr12	91741577	91742076
MRT_568822	2.112320499	2.652955733	12.83060914	0.00125179945	0.02848927533	chr7	85224787	85225286
MRT_163469	2.112170776	2.791718808	36.24540349	1.62E-06	0.000164310274	chr2	120145278	120145777
MRT_1196959	2.111062453	2.496331879	22.67334243	5.13E-05	0.002326974681	chr20	45181801	45182300
MRT_499815	2.108946393	2.172736539	16.99218001	2.95E-04	0.009155124161	chr6	105615751	105616250
MRT_768725	2.108679282	2.485707499	18.25098441	1.96E-04	6.71E-03	chr10	107603817	107604316
MRT_1266662	2.108676727	1.93677356	17.36217884	0.000340821168	0.01027274504	chrX	117356310	117356809
MRT_1020311	2.108636075	2.815603139	27.81352224	1.25E-05	0.000781774880	chr15	90945468	90945967
MRT_22159	2.108527783	2.246224554	16.71182684	3.24E-04	0.009849889162	chr1	35170399	35170898
MRT_45060	2.108459027	2.076076083	22.9316609	5.07E-05	2.30E-03	chr1	83524026	83524525
MRT_877395	2.107864552	2.435718594	11.89955707	1.77E-03	0.03753160376	chr12	76078897	76079396
MRT_958038	2.107389893	2.808226224	23.05591445	4.59E-05	0.002131583322	chr14	53477606	53478105
MRT_932121	2.107317475	2.50061491	14.41854622	0.000707751371	0.01830110856	chr13	81126591	81127090
MRT_636056	2.107275348	2.799575856	19.98416646	1.14E-04	0.00436105594	chr8	80740093	80740592
MRT_1252255	2.107228984	2.196998912	12.59023127	0.001367712772	0.03060019082	chrX	33224948	33225447
MRT_583992	2.107070033	2.144132032	11.61937371	0.001968357279	0.04071340951	chr7	120560583	120561082
MRT_85779	2.106689865	2.213421849	45.24384192	7.39E-06	0.000526010852	chr1	198872362	198872861
MRT_678348	2.106680359	2.29435413	18.46403622	1.83E-04	0.006343897565	chr9	30522417	30522916
MRT_1010342	2.106623608	2.752798934	15.01223731	5.75E-04	0.01553545439	chr15	71970100	71970599
MRT_366124	2.106295464	2.239735954	29.56897645	7.97E-06	0.000557491794	chr4	152549138	152549637

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_674469	2.105968664	2.630680875	13.58022927	9.53E-04	0.02316163483	chr9	18484373	18484872
MRT_155741	2.105029473	3.143437884	17.84482186	2.24E-04	7.38E-03	chr2	100495512	100496011
MRT_1123846	2.104647493	2.130988022	20.95938472	8.50E-05	0.003467700535	chr18	31236939	31237438
MRT_767435	2.104398435	2.691900627	26.41336889	1.81E-05	0.001041881566	chr10	104914146	104914645
MRT_784557	2.104377745	2.516473331	42.08855807	4.61E-07	6.18E-05	chr11	2675129	2675628
MRT_597789	2.104308141	2.894470832	35.79516923	1.80E-06	0.000178224982	chr7	150060691	150061190
MRT_173712	2.104297616	2.254486794	19.6817785	0.000125317843	0.004694200651	chr2	144581519	144582018
MRT_1160115	2.104268752	2.281287834	30.98552251	5.60E-06	0.000427007509	chr19	30940928	30941427
MRT_1179806	2.102931838	2.515896447	25.25778718	2.48E-05	1.33E-03	chr20	5717392	5717891
MRT_962378	2.102618838	2.306439634	43.60890193	1.83E-06	0.000180744526	chr14	61435806	61436305
MRT_516267	2.102509945	2.708977238	33.61754229	2.97E-06	0.000261838834	chr6	143140631	143141130
MRT_1114184	2.102448869	3.105436444	14.99891035	0.000578100579	0.01559402267	chr18	6661602	6662101
MRT_539447	2.102393654	2.083461432	25.70118371	3.31E-05	0.001643901273	chr7	16273046	16273545
MRT_349500	2.101734694	2.349266217	29.09771452	8.99E-06	0.000607933781	chr4	110942212	110942711
MRT_49802	2.100985362	2.350778008	19.01956741	1.54E-04	0.005490259968	chr1	93343377	93343876
MRT_43591	2.100684584	3.183064236	35.38382681	1.97E-06	0.000190437960	chr1	79085119	79085618
MRT_57099	2.100535585	2.668384934	45.02775333	2.55E-07	3.97E-05	chr1	112262148	112262647
MRT_351044	2.100325902	2.410627701	27.27101112	1.44E-05	0.000871385671	chr4	114359592	114360091
MRT_504168	2.100213	2.520873157	17.20774122	0.000275003569	0.00868737304	chr6	113102411	113102910
MRT_864043	2.100193098	2.260067813	30.4697008	6.36E-06	0.000470451649	chr12	47358246	47358745
MRT_251789	2.100075244	1.982909257	17.0091423	2.94E-04	9.12E-03	chr3	64941786	64942285
MRT_620646	2.099215341	2.64214838	17.16457222	0.000278916939	0.008774900829	chr8	39799231	39799730
MRT_539007	2.099108493	2.152443052	27.87028687	1.42E-05	0.000863030035	chr7	15573232	15573731
MRT_374273	2.099010643	2.036343721	27.27322192	9.54E-05	0.003793760429	chr4	174191768	174192267
MRT_476302	2.098539999	2.079900475	27.11836287	5.11E-05	0.002319484782	chr6	38482264	38482763
MRT_635636	2.098413842	2.361707325	24.06352042	3.45E-05	0.001699783642	chr8	79143362	79143861
MRT_438112	2.098095825	2.774164512	59.94525484	1.76E-08	5.05E-06	chr5	141870239	141870738
MRT_740781	2.098093052	4.496379848	43.38850345	3.54E-07	5.03E-05	chr10	45914685	45915184
MRT_60472	2.09794059	2.380104618	26.30742284	1.86E-05	0.001065157427	chr1	118865007	118865506
MRT_60383	2.097405945	2.266449667	37.80229698	4.12E-06	0.000338635961	chr1	118691676	118692175

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_966121	2.097220612	2.70986025	31.1432254	5.39E-06	0.000413186142	chr14	68592415	68592914
MRT_1095299	2.097050654	2.964430803	47.40586185	1.61E-07	2.77E-05	chr17	55993353	55993852
MRT_567642	2.097039688	1.987446991	17.52901523	2.48E-04	0.00800530107	chr7	82033892	82034391
MRT_1252251	2.096637064	2.323774869	13.37962207	0.001024880807	0.0245402553	chrX	33213154	33213653
MRT_709294	2.096631951	2.270775577	30.92752294	5.68E-06	0.000430909141	chr9	126587590	126588089
MRT_958589	2.096572983	2.625101401	14.23446746	7.55E-04	0.01924066784	chr14	54315536	54316035
MRT_1210256	2.096564464	2.042245155	19.09707997	0.000150280553	0.005382853364	chr21	19351988	19352487
MRT_610474	2.09646008	2.7628409	14.97767877	5.82E-04	0.01568894456	chr8	17766044	17766543
MRT_760274	2.096184012	2.187691326	20.0763661	0.000111010791	0.00426277405	chr10	92684249	92684748
MRT_545156	2.095958718	2.126006759	19.32128745	0.000140128507	0.005098264229	chr7	28435542	28436041
MRT_1219072	2.095754613	3.4603175	15.81088334	0.000437804120	0.01250359105	chr21	40823448	40823947
MRT_404729	2.095262763	2.728491991	26.94003187	1.57E-05	0.000930268406	chr5	64130365	64130864
MRT_370461	2.095209551	2.398766621	13.56144868	9.60E-04	0.02326401576	chr4	162498745	162499244
MRT_96174	2.094984011	2.38284369	14.18640909	7.68E-04	0.0195113823	chr1	219601224	219601723
MRT_512838	2.0948987	2.19145821	27.66253586	1.30E-05	8.06E-04	chr6	134767595	134768094
MRT_191026	2.094270685	2.145564529	21.68763557	6.84E-05	0.002920510322	chr2	184324442	184324941
MRT_36572	2.093936394	2.592848973	31.40051369	5.06E-06	0.000395354238	chr1	61211827	61212326
MRT_767223	2.093843972	2.380111024	31.63802139	4.77E-06	0.000378462439	chr10	104619436	104619935
MRT_1025026	2.093715874	2.620939322	46.7124274	1.83E-07	3.07E-05	chr15	99987776	99988275
MRT_950289	2.093555687	3.063026275	12.98749867	1.18E-03	0.02726501893	chr14	32964324	32964823
MRT_1099571	2.093181951	3.091428491	14.53621075	6.79E-04	0.01770182035	chr17	62392442	62392941
MRT_476220	2.093012681	2.173224284	23.50690751	4.04E-05	0.001921254201	chr6	38330283	38330782
MRT_326817	2.092842106	2.268778663	20.72784431	9.11E-05	0.003649071711	chr4	44928750	44929249
MRT_973838	2.091696734	2.075957149	17.94227864	2.17E-04	7.22E-03	chr14	83346454	83346953
MRT_258952	2.09167188	2.292695816	36.14601434	1.95E-06	0.000188302096	chr3	82092313	82092812
MRT_354584	2.091640503	2.319856242	27.12050681	1.50E-05	0.000898572892	chr4	124897476	124897975
MRT_411145	2.091619236	3.528901359	16.00723755	0.000409697324	0.01185840951	chr5	78203402	78203901
MRT_258909	2.091598545	2.325930076	16.92172483	0.000302076919	0.009340230143	chr3	82026481	82026980
MRT_413181	2.091482678	2.353937811	28.27216555	1.11E-05	0.000715640939	chr5	81481441	81481940
MRT_832079	2.091409919	2.369297366	29.19241702	8.77E-06	0.000597277213	chr11	112885351	112885850

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_370452	2.09137523	2.101458585	13.97073658	8.29E-04	0.02075040988	chr4	162476624	162477123
MRT_1046555	2.091350485	2.774204054	30.75650619	5.93E-06	0.000444024556	chr16	53748525	53749024
MRT_119196	2.091283967	2.177618832	15.76825773	4.44E-04	0.01265421388	chr2	16137172	16137671
MRT_252362	2.091234356	2.633893372	32.85869131	3.56E-06	0.000302466561	chr3	65900625	65901124
MRT_258946	2.091038482	2.355229816	20.11047483	0.000109859157	0.004227511054	chr3	82080957	82081456
MRT_731502	2.090892223	2.82589766	15.72078905	0.000451388437	0.0128193912	chr10	24643095	24643594
MRT_836869	2.090878185	2.139470454	25.52151888	2.53E-05	0.001347477228	chr11	121076707	121077206
MRT_1201822	2.090217864	3.924287421	27.32180675	1.42E-05	0.000863089280	chr20	52516037	52516536
MRT_500597	2.090107972	2.085879015	19.03508695	1.53E-04	0.005466705493	chr6	107198289	107198788
MRT_568263	2.090017103	2.179287905	29.51008793	1.17E-05	0.000739347932	chr7	83811194	83811693
MRT_742988	2.089444913	2.123052537	18.49171603	0.000181850219	0.006301855381	chr10	53060273	53060772
MRT_419130	2.089055462	2.41318474	17.14049319	2.81E-04	0.008825156692	chr5	96864544	96865043
MRT_823526	2.088568249	2.078402185	20.67650957	9.25E-05	0.003692015585	chr11	90814755	90815254
MRT_107572	2.088426379	2.162450271	24.20726762	3.32E-05	0.001644766854	chr1	242947327	242947826
MRT_613479	2.088423228	2.253202441	29.034278	9.13E-06	0.000615873367	chr8	23823420	23823919
MRT_151406	2.088386277	2.823555186	34.37911781	2.49E-06	0.000228115743	chr2	85972411	85972910
MRT_15697	2.088237357	2.992758923	70.0247206	3.70E-09	1.60E-06	chr1	25028962	25029461
MRT_610476	2.088217359	3.083231304	11.35422555	2.18E-03	0.04414548936	chr8	17767297	17767796
MRT_1250080	2.088188076	2.404774039	16.33912856	3.67E-04	0.01085345492	chrX	23310394	23310893
MRT_1021394	2.087791694	2.621153564	27.41503934	1.39E-05	0.000847848552	chr15	93167799	93168298
MRT_637197	2.087762133	2.496462264	12.73292318	0.00129757475	0.02931016844	chr8	82935407	82935906
MRT_52311	2.087658726	2.319155658	11.51102733	2.05E-03	0.04211349758	chr1	98917611	98918110
MRT_83548	2.087376938	2.521163993	15.90696343	4.24E-04	0.01219149069	chr1	192498943	192499442
MRT_138187	2.087079577	2.308128318	19.96461535	1.15E-04	0.004381994673	chr2	55107066	55107565
MRT_821881	2.086838571	2.772794226	49.38875972	1.10E-07	2.07E-05	chr11	85862701	85863200
MRT_747268	2.086393844	2.215952173	33.74163308	9.68E-06	0.000643740178	chr10	65771835	65772334
MRT_896945	2.08623981	3.394073672	29.8148768	7.50E-06	0.000532288087	chr12	116561324	116561823
MRT_1244858	2.085936979	2.644163879	31.33832139	5.14E-06	0.000399935504	chrX	3615799	3616298
MRT_537298	2.085884847	2.326954048	21.91800692	6.39E-05	0.002767168351	chr7	11208303	11208802
MRT_84772	2.084953893	2.124949406	18.83908288	0.000162949357	0.005742572608	chr1	196352399	196352898

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_796251	2.084876601	3.539975046	22.11037186	6.04E-05	0.002641610529	chr11	27237206	27237705
MRT_492729	2.08379487	2.188129227	20.2587728	1.05E-04	4.07E-03	chr6	85059156	85059655
MRT_55353	2.083715423	2.735956706	40.85863036	5.95E-07	7.58E-05	chr1	109188357	109188856
MRT_198952	2.083689946	2.617898821	23.96996376	3.54E-05	0.0017356413	chr2	203019383	203019882
MRT_877034	2.083653069	2.06512456	28.11256696	7.54E-05	0.003161498561	chr12	75175737	75176236
MRT_962374	2.083460494	2.316049411	49.26577059	1.92E-06	0.000186091709	chr14	61432056	61432555
MRT_571625	2.083223681	2.377693453	27.23622178	1.46E-05	0.000878161640	chr7	92646379	92646878
MRT_587783	2.083073599	3.294006529	29.29132555	8.56E-06	0.000587189636	chr7	130004832	130005331
MRT_1086321	2.083038532	2.238972657	14.22710499	7.57E-04	0.01927140146	chr17	39440230	39440729
MRT_53040	2.082914611	2.014419498	23.41299937	1.40E-04	0.005098264229	chr1	100628598	100629097
MRT_248215	2.082899804	3.075042039	40.69867152	6.16E-07	7.76E-05	chr3	57114120	57114619
MRT_45112	2.082264867	2.01424728	15.23927166	0.000532109428	0.01461762341	chr1	83856322	83856821
MRT_36470	2.082150979	2.072392223	23.7975439	6.05E-05	0.002643176065	chr1	60854153	60854652
MRT_1258876	2.082064299	2.158112224	24.422687	3.12E-05	1.58E-03	chrX	67421078	67421577
MRT_354345	2.081367441	2.4441364	18.90498867	1.60E-04	0.005654165278	chr4	124443037	124443536
MRT_260902	2.081360176	2.388684841	13.47912989	9.89E-04	2.39E-02	chr3	89837502	89838001
MRT_36647	2.081267301	2.221040385	19.91048289	1.17E-04	0.004435371778	chr1	61377120	61377619
MRT_863640	2.081197795	2.644195484	32.55341177	3.83E-06	0.000318945072	chr12	46603764	46604263
MRT_65678	2.080626424	2.768773997	35.49815327	1.92E-06	1.86E-04	chr1	154159172	154159671
MRT_1196967	2.080191647	2.852804103	32.15694788	4.21E-06	0.000344505296	chr20	45191382	45191881
MRT_570281	2.080069387	2.376486575	18.21846025	1.98E-04	0.00675627224	chr7	90253854	90254353
MRT_880192	2.079778654	1.975640415	19.44214489	2.37E-04	0.00772536909	chr12	81482961	81483460
MRT_354415	2.079692517	2.339932297	16.96764707	2.98E-04	0.009222546066	chr4	124552743	124553242
MRT_1041760	2.079679353	2.843072507	55.42963754	3.74E-08	8.93E-06	chr16	31225111	31225610
MRT_794669	2.079284982	2.062959114	18.11140535	2.05E-04	0.006939322443	chr11	22606387	22606886
MRT_900170	2.079271947	3.740563181	56.61163236	3.06E-08	7.61E-06	chr12	122111030	122111529
MRT_1113116	2.078362324	2.197534697	28.31931933	1.15E-05	0.00073170262	chr18	4131287	4131786
MRT_27048	2.078347728	2.480173788	25.06684015	2.61E-05	0.001384447494	chr1	43273020	43273519
MRT_372451	2.078285238	2.616591275	19.81609376	0.000120237257	0.004544151465	chr4	169459786	169460285
MRT_1022353	-2.078214434	2.731337577	10.97962616	2.52E-03	0.04933427066	chr15	94943086	94943585

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_870904	2.078114355	2.499931271	21.22049112	7.86E-05	0.003263819315	chr12	59766658	59767157
MRT_510310	2.078020249	2.610932411	21.05035729	8.27E-05	0.003400231147	chr6	129930775	129931274
MRT_917482	2.077895891	2.609729163	24.11911468	3.40E-05	0.001678029044	chr13	41165215	41165714
MRT_1137420	2.077751004	2.223786733	23.69884799	3.83E-05	1.84E-03	chr18	60426507	60427006
MRT_776253	2.077645178	3.8561863	24.9192365	2.72E-05	0.001420552172	chr10	123551694	123552193
MRT_501114	2.077568226	2.965189524	22.83498146	4.90E-05	0.00224574113	chr6	107987698	107988197
MRT_435097	2.076783074	2.490806026	15.07527526	5.63E-04	0.01526241198	chr5	137180476	137180975
MRT_84538	2.076599514	1.861408937	14.3335869	9.46E-04	0.02300978736	chr1	195757915	195758414
MRT_1120794	2.076438001	2.861824907	20.8950251	8.66E-05	0.003516712599	chr18	22237274	22237773
MRT_492568	2.076406373	2.477090718	40.19460798	6.85E-07	8.43E-05	chr6	84736069	84736568
MRT_1248239	2.076293474	2.731800633	18.02873871	0.000210788668	0.007074667903	chrX	16622968	16623467
MRT_320458	2.076292215	2.40536402	27.09219724	1.51E-05	9.04E-04	chr4	25939848	25940347
MRT_22134	2.076241301	2.201324596	14.75253184	0.000629715055	0.01667069075	chr1	35120385	35120884
MRT_313765	2.076032168	2.67067875	27.39655871	1.40E-05	0.000851568519	chr4	8395872	8396371
MRT_419337	2.075668886	2.283180264	25.56557427	2.28E-05	0.001244657948	chr5	97536558	97537057
MRT_617326	2.075573342	2.133737683	33.81960739	3.26E-05	0.00162461166	chr8	31788418	31788917
MRT_794743	2.075438704	2.292018557	12.47129601	1.43E-03	0.03166527697	chr11	22774342	22774841
MRT_318923	2.075184738	3.193682721	13.37192338	1.03E-03	2.46E-02	chr4	22492974	22493473
MRT_791487	2.075035213	2.111776169	21.34991381	7.56E-05	0.00316906524	chr11	16139919	16140418
MRT_620766	2.07500715	2.195599774	24.78841946	2.82E-05	0.001457841491	chr8	40006192	40006691
MRT_879795	2.07469588	2.085892566	28.98919639	6.27E-05	0.002716960635	chr12	80647338	80647837
MRT_297276	2.074685595	3.579530937	15.496101	0.000487281974	0.01363160491	chr3	177329429	177329928
MRT_36077	2.07465282	1.962632102	25.68050113	2.28E-04	0.007489969052	chr1	59905380	59905879
MRT_106697	2.074562018	2.549466016	13.40860273	0.001014204163	0.02434435481	chr1	240854772	240855271
MRT_917330	2.074555312	2.346364082	20.69602688	9.20E-05	0.003676122362	chr13	40945772	40946271
MRT_796233	2.074527584	2.435800744	36.65064325	1.48E-06	0.000154072546	chr11	27219045	27219544
MRT_938341	2.074121471	2.44893419	33.50026765	3.06E-06	0.000267131861	chr13	99590964	99591463
MRT_343870	2.073405991	2.201295931	23.97023154	3.54E-05	0.0017356413	chr4	95380823	95381322
MRT_327145	2.07270546	2.119808158	23.82407976	3.69E-05	0.001794325882	chr4	46390875	46391374
MRT_490831	2.07215808	2.90201908	15.03706361	5.71E-04	0.01542237156	chr6	80235347	80235846

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_607670	2.071911796	2.586824107	22.33107207	5.67E-05	0.002509614847	chr8	10919215	10919714
MRT_1266910	2.071212563	2.241151859	22.90246109	4.80E-05	0.002213046509	chrX	117996021	117996520
MRT_60378	2.071043062	2.68382058	32.98880511	3.45E-06	2.94E-04	chr1	118686311	118686810
MRT_1006300	2.070695504	2.295161723	28.58065524	1.03E-05	0.000673355396	chr15	65407326	65407825
MRT_803187	2.070121258	3.427255409	18.97334523	0.000156219156	0.005554780078	chr11	44825927	44826426
MRT_504702	2.069505183	2.790096715	13.01454105	1.17E-03	0.02707575103	chr6	114146886	114147385
MRT_636134	2.069464742	2.558989917	23.74133965	3.78E-05	0.001823765546	chr8	80854015	80854514
MRT_749858	2.069148873	2.851054403	27.9967912	1.19E-05	0.000753234985	chr10	71952289	71952788
MRT_962405	2.068942611	2.137552185	31.98027812	3.32E-05	0.001645815665	chr14	61485077	61485576
MRT_1192439	2.068697058	2.772548598	29.78754597	7.55E-06	0.000535060918	chr20	35867244	35867743
MRT_101643	2.068451322	2.558988724	43.04501716	3.79E-07	5.30E-05	chr1	229802343	229802842
MRT_1134191	2.068202645	2.549442994	29.87100032	7.39E-06	0.000526010852	chr18	53778118	53778617
MRT_297566	2.067729976	2.917197958	12.40621606	1.46E-03	0.03223707028	chr3	177704880	177705379
MRT_766455	2.067639271	2.469081804	30.81614264	5.84E-06	0.000439085091	chr10	103511923	103512422
MRT_260096	2.067136023	2.404011371	14.44079176	7.02E-04	0.01818090477	chr3	87034496	87034995
MRT_523915	2.067121371	2.580003603	19.99189514	0.000113919007	0.004352049222	chr6	158163068	158163567
MRT_36666	2.066846192	2.478620759	20.65091275	9.32E-05	0.003718313243	chr1	61400468	61400967
MRT_613535	2.066632473	2.081317232	26.85418787	7.59E-05	0.003176869741	chr8	23964353	23964852
MRT_260868	2.066460745	2.168311979	17.36642112	0.000261118231	0.008327550854	chr3	89739738	89740237
MRT_106488	2.065922974	2.904922195	11.18011858	0.002328952405	0.04653282126	chr1	240354137	240354636
MRT_24759	2.065842343	2.427759814	45.17118547	3.93E-07	5.47E-05	chr1	39619330	39619829
MRT_635431	2.065829285	2.002813553	21.70786187	2.01E-04	0.006830371815	chr8	78522858	78523357
MRT_409096	2.065203016	2.469037196	25.9171795	2.07E-05	0.001155209086	chr5	73942995	73943494
MRT_67356	2.064459307	3.731274177	24.57872675	2.99E-05	0.001523395815	chr1	156637251	156637750
MRT_1246878	2.064457428	2.003314727	12.46110497	0.001434713451	0.03174641414	chrX	11894647	11895146
MRT_645442	2.064326905	2.274790479	17.04160965	0.000290395507	0.009054277255	chr8	102888652	102889151
MRT_735504	2.064213226	2.672890726	41.38280332	5.34E-07	6.96E-05	chr10	31997986	31998485
MRT_398513	2.06412777	2.063115525	26.39286037	8.46E-05	0.003459033778	chr5	45507193	45507692
MRT_880194	2.064059434	2.313984154	17.27115983	0.000269361169	0.008556011658	chr12	81488662	81489161
MRT_140920	2.063961371	2.437341052	35.2874879	2.02E-06	0.000193434625	chr2	61935143	61935642

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_410999	2.063860545	2.457177966	46.58558913	1.88E-07	3.13E-05	chr5	77961810	77962309
MRT_1022105	2.063702184	2.186306382	17.9321224	0.000217430367	0.007232510667	chr15	94485167	94485666
MRT_190933	2.063688418	2.280863551	19.3602963	0.000138438686	0.005059127391	chr2	184091946	184092445
MRT_458490	2.063633341	2.551264228	20.96540272	8.48E-05	0.003464289541	chr6	3826138	3826637
MRT_628964	2.063225326	2.296049311	19.6106722	1.28E-04	0.004775863363	chr8	61918672	61919171
MRT_722231	2.062989847	2.422433374	16.51040643	0.000346154031	0.01038199588	chr10	4985497	4985996
MRT_962414	2.062984416	2.24994241	30.79074029	7.30E-06	5.22E-04	chr14	61500567	61501066
MRT_1228658	2.062844464	1.980584875	18.73008515	0.000251498503	0.008091973916	chr22	26141723	26142222
MRT_567240	2.062553544	2.083682029	15.67540479	0.000458402520	0.01297191153	chr7	81219399	81219898
MRT_635538	2.062524582	2.057480077	19.59382309	1.29E-04	4.79E-03	chr8	78864871	78865370
MRT_464825	2.062350087	2.416587274	27.17658323	1.48E-05	0.000888291873	chr6	17305969	17306468
MRT_894634	2.062225338	2.380915705	51.55118712	8.14E-07	9.70E-05	chr12	112257193	112257692
MRT_870918	2.062185574	2.06690974	19.46829252	1.34E-04	0.004939441018	chr12	59806821	59807320
MRT_44949	2.061978993	1.983968475	29.47134922	0.000237425304	0.007743276166	chr1	83173747	83174246
MRT_831924	2.061577822	2.392586955	17.5701243	0.000244387338	0.007930286151	chr11	112526128	112526627
MRT_442027	2.061552632	3.482768102	21.68593757	6.84E-05	0.002920991307	chr5	150162881	150163380
MRT_748455	2.061420444	2.125310877	21.16318727	7.99E-05	0.003312162467	chr10	69887704	69888203
MRT_958543	2.060645643	2.196868634	17.00379082	2.94E-04	0.009128467928	chr14	54239581	54240080
MRT_58352	2.060257266	2.795433809	15.44990993	4.95E-04	0.01380235465	chr1	114565899	114566398
MRT_567289	2.060230882	2.401761132	17.12674902	2.82E-04	0.008854703661	chr7	81302271	81302770
MRT_749857	2.060109706	3.160481932	20.42141093	9.99E-05	0.003913541955	chr10	71951538	71952037
MRT_36475	2.060061352	2.227336528	13.05757186	1.15E-03	0.02675973527	chr1	60868656	60869155
MRT_46121	2.059622187	2.238394334	21.09232793	8.16E-05	0.003367632788	chr1	85710415	85710914
MRT_836288	2.059387471	3.232757458	33.11862218	3.34E-06	0.000287674090	chr11	120202158	120202657
MRT_1134180	2.05928491	2.089191112	25.26656359	6.02E-05	0.002636026253	chr18	53764352	53764851
MRT_1135586	2.058894327	2.26498845	27.2105509	1.47E-05	0.000883227589	chr18	56247243	56247742
MRT_958492	2.058147504	2.858904671	14.91199257	5.96E-04	0.01596531767	chr14	54159071	54159570
MRT_671604	2.058094981	3.153875029	41.50609427	5.20E-07	6.81E-05	chr9	14096391	14096890
MRT_101642	2.057957063	2.570294929	41.59806915	5.10E-07	6.72E-05	chr1	229801806	229802305
MRT_318913	2.057787438	2.989202183	54.01893385	4.79E-08	1.09E-05	chr4	22484383	22484882

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_372833	2.057785073	2.391727966	22.05757028	6.14E-05	0.002673532855	chr4	169963736	169964235
MRT_179640	2.056931644	2.586612082	25.64596957	2.23E-05	0.001226537598	chr2	159921475	159921974
MRT_867926	2.056913665	3.144865513	47.58286889	1.55E-07	2.71E-05	chr12	53807166	53807665
MRT_36618	2.056021025	2.494722259	22.60315481	5.23E-05	0.002361185098	chr1	61332146	61332645
MRT_1266911	2.055978695	2.180763274	22.85996487	4.86E-05	0.002234591486	chrX	117996882	117997381
MRT_438103	2.055799198	2.3983375	47.88821201	6.56E-07	8.15E-05	chr5	141857764	141858263
MRT_1165566	2.055552524	2.21326094	27.77544327	1.26E-05	0.000788533269	chr19	40294445	40294944
MRT_255665	2.055257792	2.700509745	23.63458134	3.90E-05	0.001865509976	chr3	72956505	72957004
MRT_704396	2.055180261	3.376528562	27.29014523	1.44E-05	0.000868657041	chr9	116363385	116363884
MRT_726772	2.054355202	2.205769586	38.16034969	1.21E-05	0.000761634296	chr10	14289224	14289723
MRT_265221	2.054324203	2.750842161	16.17938794	3.87E-04	0.01133877529	chr3	106528248	106528747
MRT_490973	2.053901533	2.167221346	19.16757755	0.000147005850	0.005290959151	chr6	80460406	80460905
MRT_198889	2.053722908	3.929582371	18.82701951	1.64E-04	0.005761212815	chr2	202928798	202929297
MRT_88934	2.053569532	2.30149754	20.06508503	0.000111394527	0.004273397098	chr1	204263047	204263546
MRT_669719	2.05355852	2.328450707	24.19052055	3.33E-05	0.001650561838	chr9	9003106	9003605
MRT_120020	2.052982995	2.663432601	34.70438996	2.31E-06	0.000216129137	chr2	18060285	18060784
MRT_44648	2.052937647	2.501182781	21.11607267	8.11E-05	0.003348168175	chr1	82300519	82301018
MRT_896484	2.052933946	2.273201051	22.39428746	5.56E-05	0.002473489162	chr12	115651392	115651891
MRT_444880	2.052215828	2.102048139	26.80269269	5.51E-05	0.002455824434	chr5	157021136	157021635
MRT_183910	2.052121608	2.484446854	25.75503749	2.16E-05	1.20E-03	chr2	169730809	169731308
MRT_304859	2.051858232	2.908224464	19.8340153	1.20E-04	0.004521865133	chr3	193518153	193518652
MRT_752386	2.051728844	2.917058676	34.87175942	2.22E-06	0.000209021453	chr10	75647961	75648460
MRT_258978	2.051687841	2.208959633	21.71521262	6.79E-05	0.00290074655	chr3	82129342	82129841
MRT_669674	2.051378119	2.816078683	24.52372971	3.04E-05	0.001540063028	chr9	8857734	8858233
MRT_101964	2.051244746	3.030003592	25.39868322	2.38E-05	0.001285112047	chr1	230350697	230351196
MRT_610467	2.051090571	2.422693791	21.46563949	7.31E-05	0.003082469293	chr8	17755054	17755553
MRT_258693	2.050574099	2.121586255	32.35852175	3.69E-05	0.001794325882	chr3	81469434	81469933
MRT_240095	2.050436009	2.465108283	28.93163051	9.38E-06	0.000628550118	chr3	43136785	43137284
MRT_702942	2.050268494	2.531221039	10.96485161	0.002531189055	0.04953569397	chr9	113998541	113999040
MRT_736596	2.050162694	2.201878382	19.27662472	0.000142090491	0.005153533134	chr10	34080222	34080721

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_202606	2.050030583	2.336841356	20.49439462	9.77E-05	0.003858486213	chr2	210291094	210291593
MRT_635727	2.049639781	2.176083546	15.81731304	4.37E-04	0.01248555666	chr8	79524949	79525448
MRT_149195	2.049521858	2.101585011	14.49318809	6.89E-04	0.01791465979	chr2	76706485	76706984
MRT_932156	2.049357247	2.061831489	24.93099644	9.68E-05	0.003832508975	chr13	81179450	81179949
MRT_327146	2.049196205	2.62657211	24.22538684	3.30E-05	0.001640294505	chr4	46391892	46392391
MRT_330763	2.048905581	3.177246144	52.56015576	6.20E-08	1.32E-05	chr4	57665497	57665996
MRT_82313	2.048431152	2.10180084	23.88036631	6.18E-05	0.00268668791	chr1	187450678	187451177
MRT_792828	2.048392778	2.633923303	19.70833759	1.24E-04	0.004671069998	chr11	18630989	18631488
MRT_1074350	2.048388518	2.313885667	22.98790935	4.69E-05	0.002164872067	chr17	15334456	15334955
MRT_1051633	2.048250835	2.438650211	37.01823681	1.37E-06	0.000145058156	chr16	66614582	66615081
MRT_538988	2.047845568	3.141726473	12.79644716	0.00126760657	0.02877158405	chr7	15543847	15544346
MRT_492695	2.047709509	2.363606936	29.37080088	8.38E-06	0.000577964732	chr6	84968478	84968977
MRT_707763	2.047249602	3.532824371	19.64323996	1.27E-04	0.004733610766	chr9	124135182	124135681
MRT_680803	2.046980542	2.589889312	15.38768162	5.06E-04	0.01403778128	chr9	36031727	36032226
MRT_1022047	2.046835445	2.124405127	23.93108893	3.74E-05	0.00180948134	chr15	94348971	94349470
MRT_636207	2.046677741	2.546131073	23.8198031	3.70E-05	0.001795403646	chr8	80965673	80966172
MRT_794629	2.046568677	2.307316411	20.35700746	1.02E-04	0.003973346822	chr11	22518671	22519170
MRT_5269	2.046435551	3.245812836	26.16541191	1.94E-05	0.001095271902	chr1	8882564	8883063
MRT_394313	2.046413031	2.21050852	20.15558082	1.08E-04	0.004177267167	chr5	35796681	35797180
MRT_893279	2.045695783	2.985189591	38.0530492	1.09E-06	0.000121511584	chr12	110389506	110390005
MRT_794635	2.045611827	2.381734407	13.02226513	1.17E-03	0.02700933909	chr11	22530218	22530717
MRT_938016	2.045229116	2.676519556	29.46665434	8.18E-06	0.000569362718	chr13	99106451	99106950
MRT_364537	2.045162783	2.407433384	28.27426948	1.11E-05	0.000715640939	chr4	148963171	148963670
MRT_484060	2.045008791	2.140803975	13.47449046	0.000990373957	0.02388989929	chr6	55373982	55374481
MRT_349904	2.044743682	2.155854783	11.82947034	0.00181761708	0.03828223924	chr4	112131773	112132272
MRT_635432	2.044703508	2.059787648	22.07138968	1.23E-04	0.0046344715	chr8	78524249	78524748
MRT_467732	2.044574308	2.809439916	14.35326457	7.24E-04	0.0186235959	chr6	22881193	22881692
MRT_854110	2.044293117	2.676353566	23.43473476	4.12E-05	1.96E-03	chr12	19728681	19729180
MRT_544901	2.044141881	2.234988881	32.6436243	1.11E-05	0.000717354146	chr7	27963561	27964060
MRT_1214823	2.043154212	2.990556435	14.0777141	0.000798231122	0.02011580493	chr21	32893049	32893548

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_339296	2.042958433	2.463252024	14.51470799	0.000684267804	0.01781371567	chr4	83430124	83430623
MRT_1134335	2.042810998	2.196837465	30.8389438	1.69E-05	0.000984432568	chr18	54056450	54056949
MRT_26276	2.042613123	2.820633481	24.40059532	3.14E-05	0.001583664005	chr1	41864745	41865244
MRT_962579	2.04149505	2.837587643	46.80947309	1.80E-07	3.03E-05	chr14	61731408	61731907
MRT_319061	2.041264862	2.222314806	21.20441555	7.90E-05	0.003277013941	chr4	22746669	22747168
MRT_545467	2.041101999	2.901574527	23.66165745	3.87E-05	0.001854709003	chr7	28997293	28997792
MRT_487456	2.040828131	2.46655731	13.95485769	0.000833836058	0.02084327211	chr6	70827683	70828182
MRT_203529	2.040659207	2.010779704	13.09409144	0.001136789624	0.02652660748	chr2	213316382	213316881
MRT_45034	2.04061902	2.121588349	22.34545766	5.64E-05	0.002502730235	chr1	83460459	83460958
MRT_635525	2.040510312	2.676692986	22.82779792	4.91E-05	0.002248054829	chr8	78814804	78815303
MRT_1160500	2.0402354	2.642022353	23.13956061	4.49E-05	0.002089522129	chr19	31555396	31555895
MRT_1050529	2.039869522	1.949708849	20.20978956	0.000454628724	0.01288700562	chr16	64720985	64721484
MRT_839525	2.039812247	3.395000881	35.63608485	1.86E-06	0.000182406053	chr11	125930589	125931088
MRT_325679	2.039714881	2.539689574	22.11878622	6.03E-05	0.002636026253	chr4	41145671	41146170
MRT_101742	2.039646113	2.456164161	29.75431346	7.61E-06	0.000538050621	chr1	229980203	229980702
MRT_85770	2.039171648	2.304943086	31.74285339	4.65E-06	0.000371722882	chr1	198845407	198845906
MRT_183177	2.03910363	2.000333944	17.95654177	2.56E-04	0.008191245701	chr2	168344134	168344633
MRT_44182	2.039052167	2.13304847	21.24075038	7.81E-05	0.003250551501	chr1	80691084	80691583
MRT_579080	2.038984269	2.153580073	26.67610292	3.09E-05	0.001563764811	chr7	107337999	107338498
MRT_141994	2.038846532	2.970049429	50.51859166	8.97E-08	1.76E-05	chr2	64064869	64065368
MRT_326959	2.038592931	2.105549396	19.80220623	1.21E-04	0.004555467024	chr4	45340219	45340718
MRT_539318	2.038435305	3.920690114	11.39313669	2.15E-03	0.04358256177	chr7	16066184	16066683
MRT_1043597	2.03789553	2.120152599	19.66100207	1.26E-04	0.004717435709	chr16	48035813	48036312
MRT_932274	2.03745214	2.051581456	16.18118324	0.000386415825	0.0113362752	chr13	81388652	81389151
MRT_765843	2.037441224	2.579708523	33.10729595	3.35E-06	0.000287995237	chr10	102657707	102658206
MRT_193970	2.037232102	2.184748874	24.00940392	3.51E-05	0.00172114835	chr2	190928329	190928828
MRT_873243	2.037213792	3.258542338	17.71622155	0.000233098812	0.007631726563	chr12	65926961	65927460
MRT_376924	2.037005215	2.382607984	19.12584207	0.000148935152	0.005342206201	chr4	182183202	182183701
MRT_1211426	2.036543264	1.953769091	19.21611265	4.04E-04	0.01173789138	chr21	22977776	22978275
MRT_822356	2.036210264	2.285178235	24.21194271	3.31E-05	0.001643901273	chr11	86625821	86626320

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_203496	2.036099646	1.990710819	14.72878724	0.000634945273	0.01677064741	chr2	213202094	213202593
MRT_352482	2.036097514	3.123732466	14.47802454	0.000693125764	0.0179852523	chr4	119948187	119948686
MRT_861289	2.035781383	2.260742357	19.4244189	0.000135708331	0.004984775716	chr12	41972881	41973380
MRT_762107	2.035777424	2.097492056	30.72762856	5.78E-05	0.002551383079	chr10	95811192	95811691
MRT_44003	2.035377623	2.28825375	16.12553681	0.000393705060	0.01150607527	chr1	80112482	80112981
MRT_327044	2.034657946	2.209600309	15.32632873	0.000516436343	0.0142593688	chr4	45665546	45666045
MRT_36206	2.034607156	2.566395419	24.9683976	2.68E-05	0.001407773819	chr1	60162964	60163463
MRT_789719	2.034513874	2.317464669	14.79860709	6.20E-04	0.01644325498	chr11	12367572	12368071
MRT_879751	2.034283565	2.706592204	12.54568535	1.39E-03	0.03099380368	chr12	80585334	80585833
MRT_265403	2.034036344	3.076438339	16.65073563	0.000330385220	0.01001053011	chr3	106840095	106840594
MRT_657852	2.033836558	2.380806145	36.82455316	1.43E-06	0.000149442694	chr8	131314583	131315082
MRT_447692	2.033227164	2.281263233	16.11807372	0.000394693855	0.01153091726	chr5	163787556	163788055
MRT_973987	2.032811246	2.181018217	12.62751136	0.001349002372	0.03027235791	chr14	83949406	83949905
MRT_1266189	2.03271843	2.401852961	12.835617	1.25E-03	0.02846277794	chrX	114695236	114695735
MRT_155644	2.032675311	2.349498065	24.21999647	3.30E-05	0.001641484194	chr2	100343018	100343517
MRT_265349	2.032659954	2.695542634	12.22612579	0.00156589509	0.03394118642	chr3	106765407	106765906
MRT_874265	2.032632617	2.551649841	34.97855525	2.17E-06	0.000204998565	chr12	67749291	67749790
MRT_428312	2.032579317	2.830836052	22.01578885	6.21E-05	0.002696270295	chr5	123588018	123588517
MRT_879874	2.032377451	2.623284774	11.19048246	0.002319666669	0.04642140543	chr12	80812475	80812974
MRT_740669	2.031822441	2.145867877	16.98089666	0.000296249406	0.009184673001	chr10	45640847	45641346
MRT_998191	2.03180393	3.243141929	15.62335338	4.67E-04	0.01317152948	chr15	49189628	49190127
MRT_1035810	2.031554043	1.836490687	15.64299274	1.66E-03	0.03567274708	chr16	18212533	18213032
MRT_1141085	2.031437413	2.606280052	21.93177311	6.37E-05	0.002756945195	chr18	71951695	71952194
MRT_264887	2.031434924	3.289543787	17.16787006	0.000278615880	0.008771311333	chr3	105849858	105850357
MRT_184162	2.031427349	2.126176119	21.66894883	6.88E-05	2.93E-03	chr2	170364198	170364697
MRT_955543	2.031036451	2.155884248	12.83328189	0.00125057173	0.02847155175	chr14	47494494	47494993
MRT_46117	2.030684304	2.190078003	22.78327731	4.97E-05	0.002268073665	chr1	85705906	85706405
MRT_118063	2.030604263	3.390545115	24.82844158	2.79E-05	0.001447691375	chr2	13141020	13141519
MRT_690724	2.030321247	2.709337423	13.84869143	0.000865982935	0.02145655005	chr9	89216550	89217049
MRT_796500	2.030173231	2.513957879	16.94642519	3.00E-04	0.009278126005	chr11	27592989	27593488

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_290270	2.030003507	2.740190002	46.1850772	2.03E-07	3.30E-05	chr3	159546276	159546775
MRT_106609	2.029606751	2.409083279	17.38557366	0.000259493931	0.008284080884	chr1	240689575	240690074
MRT_1234365	2.029421443	2.49488831	28.61104723	1.02E-05	0.000669286009	chr22	36260764	36261263
MRT_892214	2.029261106	2.296752198	23.07145544	4.57E-05	0.002123661712	chr12	108793908	108794407
MRT_83547	2.029232167	2.34778588	20.23632216	1.06E-04	0.004094487966	chr1	192498088	192498587
MRT_545453	2.029102544	2.475367087	17.65721598	0.000237589073	0.007744634437	chr7	28980351	28980850
MRT_320969	2.028984484	2.274415103	26.7792219	1.64E-05	0.000962484401	chr4	26804953	26805452
MRT_265185	2.02875586	2.534621031	18.6315142	1.74E-04	0.006082110184	chr3	106466612	106467111
MRT_736402	2.028637143	2.415360107	18.85184612	0.000162296371	0.005724332023	chr10	33591109	33591608
MRT_1203538	2.028206527	2.297523573	16.51372362	0.000345772079	0.0103751256	chr20	56688650	56689149
MRT_45217	2.028161318	2.894423506	12.35598068	0.001491874184	0.03272010552	chr1	84016750	84017249
MRT_354271	2.02813522	2.921680762	14.62051171	6.59E-04	0.01728683257	chr4	124330145	124330644
MRT_873512	2.027786155	2.995571733	34.53118136	2.40E-06	2.22E-04	chr12	66296182	66296681
MRT_532080	-2.027454436	3.810408368	14.15082838	7.78E-04	0.01969539189	chr7	1209414	1209913
MRT_354583	2.027325573	2.279203694	32.69003475	5.62E-06	0.000427849591	chr4	124895914	124896413
MRT_204254	2.027324232	2.123001884	21.63503054	6.95E-05	0.002959485853	chr2	215594639	215595138
MRT_645487	2.027277228	2.395164865	18.49209097	1.82E-04	0.006301855381	chr8	102982971	102983470
MRT_864003	2.026720147	2.270631607	18.02502762	0.000211039714	0.00708121987	chr12	47287183	47287682
MRT_1135062	2.026489118	2.85500407	32.12705014	4.24E-06	0.000346501618	chr18	55449461	55449960
MRT_616243	2.026308418	2.635553915	38.38327506	1.01E-06	0.000114469095	chr8	29631577	29632076
MRT_1227243	-2.026024617	2.436341061	12.01328967	1.92E-03	0.03989379247	chr22	23736108	23736607
MRT_290275	2.025849256	2.620773252	22.54962322	5.32E-05	0.002393820596	chr3	159554728	159555227
MRT_320688	2.025824923	2.566134668	27.09070105	1.51E-05	0.000903683218	chr4	26275010	26275509
MRT_704393	2.02580596	3.585058407	19.43499421	1.35E-04	0.004978533186	chr9	116361690	116362189
MRT_1223843	2.025292402	3.561419608	27.50250382	1.36E-05	0.000832624195	chr22	17741764	17742263
MRT_297361	2.025056089	3.582493582	14.70708811	6.40E-04	0.01687688436	chr3	177441695	177442194
MRT_863937	2.024934951	1.969629917	17.92125018	0.000381190628	0.01120721653	chr12	47117338	47117837
MRT_290286	2.02399566	2.967719737	20.36620998	1.02E-04	0.003967128393	chr3	159572274	159572773
MRT_690667	2.023422553	2.355992206	31.56711805	4.86E-06	0.000383139961	chr9	89140918	89141417
MRT_46481	2.023251353	2.119007682	27.71568197	6.02E-05	0.002636026253	chr1	86641344	86641843

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_950355	2.023243549	2.386532516	21.32376488	7.62E-05	0.003185481749	chr14	33080773	33081272
MRT_487197	2.023154687	2.305506077	30.98490515	5.60E-06	0.000427007509	chr6	69991284	69991783
MRT_490651	2.023004981	2.403747455	23.40314497	4.16E-05	0.001971305015	chr6	79898608	79899107
MRT_122986	2.022877551	2.360663317	28.35248103	1.09E-05	0.000706613999	chr2	24633795	24634294
MRT_119136	2.022746616	2.34758912	34.65051319	2.39E-06	0.000222088793	chr2	16052271	16052770
MRT_141921	2.022091903	2.386703584	41.87449115	1.40E-06	0.000147599021	chr2	63925414	63925913
MRT_190932	2.02198522	2.183769901	17.0171531	0.000292738496	0.009113695265	chr2	184089584	184090083
MRT_263055	2.021517534	2.66968473	29.83240486	7.46E-06	0.000530244476	chr3	100478002	100478501
MRT_738783	2.020986716	2.495643783	17.17644406	2.78E-04	0.008755005881	chr10	37765219	37765718
MRT_44927	2.020953417	2.052242127	22.2933217	1.39E-04	0.005059699345	chr1	83070127	83070626
MRT_249590	2.020940409	2.243195978	18.15965202	2.02E-04	0.006856798251	chr3	59627350	59627849
MRT_789654	2.020617388	2.473974154	23.51825354	4.03E-05	0.00191651057	chr11	12265375	12265874
MRT_1072443	2.019879858	2.51164255	14.26936577	7.46E-04	0.0190625768	chr17	10287441	10287940
MRT_1070521	2.019871368	4.037424898	67.79328252	5.14E-09	2.05E-06	chr17	7348577	7349076
MRT_320656	2.01982782	2.511730716	19.67675243	0.000125512379	0.004698557876	chr4	26229026	26229525
MRT_932004	2.019604243	3.652368582	13.9480386	0.000835861759	0.02087744987	chr13	80933536	80934035
MRT_545881	2.019408557	2.265272841	22.99965382	4.67E-05	0.002158371509	chr7	29878902	29879401
MRT_59705	2.019250731	3.244259121	22.27430991	5.76E-05	0.002543567831	chr1	117397862	117398361
MRT_786569	2.019025758	1.953285087	17.28041668	4.94E-04	0.01377583651	chr11	6864881	6865380
MRT_635449	2.018914325	2.136593023	16.58651949	3.38E-04	0.01019939933	chr8	78565505	78566004
MRT_786276	-2.018845124	5.233975367	12.21650223	1.57E-03	0.03405505457	chr11	6340902	6341401
MRT_1268892	2.018798207	2.129530899	20.66837843	9.27E-05	0.003699922738	chrX	128223649	128224148
MRT_306567	2.018783436	3.163725781	46.2877265	1.99E-07	3.25E-05	chr3	195906517	195907016
MRT_260006	2.018347913	2.335618194	12.01109828	0.001697320563	0.03627872537	chr3	86843381	86843880
MRT_119139	2.018220743	2.473241795	24.71175972	2.88E-05	0.001478968814	chr2	16054657	16055156
MRT_704413	2.018126832	3.296353605	21.14044115	8.05E-05	0.003328213843	chr9	116385183	116385682
MRT_125861	2.017888795	2.95850562	38.78504072	9.26E-07	0.000106908923	chr2	28940259	28940758
MRT_155214	2.017827098	3.023902165	26.68902641	1.68E-05	0.000981676435	chr2	99531103	99531602
MRT_732997	2.017552984	2.219690219	37.15686024	1.72E-05	0.001000082407	chr10	28012327	28012826
MRT_179642	2.017454086	2.16936184	23.78188149	3.74E-05	0.001809402007	chr2	159922920	159923419

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1014656	2.017402302	2.373812164	18.07086528	2.08E-04	0.006996435935	chr15	78983408	78983907
MRT_846011	2.017373563	2.640832479	24.2205998	3.30E-05	0.001641484194	chr12	3259485	3259984
MRT_492757	2.016936845	2.393817831	18.49068374	1.82E-04	0.006302197458	chr6	85120733	85121232
MRT_36586	2.016463859	2.520319655	15.21968873	5.36E-04	0.01469094284	chr1	61229015	61229514
MRT_409981	2.016273272	2.352996611	28.37264296	1.08E-05	7.04E-04	chr5	76033548	76034047
MRT_932176	2.016038291	2.251194815	29.19501527	9.68E-06	0.000643740178	chr13	81206161	81206660
MRT_484312	2.015724576	2.53917891	18.21467754	1.99E-04	6.76E-03	chr6	55820470	55820969
MRT_210199	2.015209724	3.105136467	49.0654288	1.17E-07	2.18E-05	chr2	226525104	226525603
MRT_260036	2.01488019	2.15282442	11.44447123	2.10E-03	0.04291329066	chr3	86918640	86919139
MRT_690592	2.014830137	2.752519292	18.69492561	1.71E-04	0.0059796005	chr9	89039369	89039868
MRT_251723	2.014666816	2.166632725	19.5063475	1.32E-04	0.004895311089	chr3	64826223	64826722
MRT_1002063	2.014240058	2.636061706	22.45385692	5.47E-05	0.002444182249	chr15	57619170	57619669
MRT_374365	2.014198856	2.170474583	30.76467273	3.54E-05	0.0017356413	chr4	174369282	174369781
MRT_82850	2.014085449	1.987092375	13.8545024	0.000864189292	0.02142466472	chr1	190109740	190110239
MRT_337281	2.014048672	2.282395168	29.50035541	8.11E-06	0.000565459921	chr4	78108355	78108854
MRT_435151	2.014000952	2.958049272	21.47537266	7.28E-05	0.003076655113	chr5	137269091	137269590
MRT_467588	2.013957823	1.973845641	21.22050942	3.96E-04	0.01156333003	chr6	22544673	22545172
MRT_332987	2.013872883	1.979443977	17.93213411	4.37E-04	0.01248555666	chr4	67885352	67885851
MRT_836863	2.01379046	2.208057583	26.77372434	2.16E-05	0.001195655708	chr11	121069196	121069695
MRT_926528	2.013414561	2.213369352	19.42913171	0.000135509953	0.004980373641	chr13	62883988	62884487
MRT_861247	2.013387418	2.11890643	16.73714514	0.000321060821	0.009783850373	chr12	41870222	41870721
MRT_628864	2.013097018	2.535373571	19.63864941	0.000126997754	0.004737539165	chr8	61760632	61761131
MRT_1081479	2.012559874	2.620908205	29.22229941	8.71E-06	0.000593393644	chr17	30433553	30434052
MRT_248254	2.012248474	2.612713829	36.12311583	1.67E-06	0.000167568396	chr3	57162088	57162587
MRT_921981	2.012160958	2.058591331	23.5470036	1.52E-04	0.005434256563	chr13	49528152	49528651
MRT_759541	2.012090149	2.28392937	25.9735206	2.04E-05	0.001141757813	chr10	90728175	90728674
MRT_1016276	2.012017126	2.336881071	27.9766661	1.20E-05	0.000756058552	chr15	82043603	82044102
MRT_1248238	2.011738193	2.56750123	17.09026018	2.86E-04	0.008941402649	chrX	16622350	16622849
MRT_950291	2.011696125	2.302643047	19.1565429	0.000147513324	0.005306212409	chr14	32966057	32966556
MRT_1046813	2.011658837	2.277494564	20.53325842	9.66E-05	0.003825294602	chr16	54132225	54132724

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_73042	2.011341556	2.243054261	11.44466696	0.002103992451	0.04291329066	chr1	168755731	168756230
MRT_367066	2.011159677	3.007615336	19.87806829	0.000117967993	0.004474387703	chr4	154155103	154155602
MRT_1223839	2.01071853	2.666204476	43.56829625	3.41E-07	4.91E-05	chr22	17737869	17738368
MRT_402442	2.010552312	2.383561122	18.90171043	1.60E-04	0.005654165278	chr5	58880021	58880520
MRT_128326	2.010428684	2.455586404	42.71805716	4.70E-07	6.29E-05	chr2	33358745	33359244
MRT_652547	2.01001932	2.514300647	19.81700046	1.20E-04	0.004544151465	chr8	121053313	121053812
MRT_428108	2.009649536	2.187605942	20.41137961	1.00E-04	0.00392273488	chr5	123203970	123204469
MRT_320618	2.009010835	2.906408273	12.3863996	1.48E-03	0.03243603012	chr4	26175241	26175740
MRT_44380	2.00894852	2.240098566	30.51609668	1.27E-05	0.000790205720	chr1	81703115	81703614
MRT_51056	2.008873574	2.587864902	17.95832084	0.000215607472	0.007192624442	chr1	95427447	95427946
MRT_1094146	2.008672722	2.357857665	17.41559646	2.57E-04	0.00822093223	chr17	54124569	54125068
MRT_305421	2.008656553	2.52213828	44.08463875	3.07E-07	4.54E-05	chr3	194258475	194258974
MRT_599159	2.008449973	2.872240674	14.02559121	8.13E-04	0.02041022796	chr7	152219623	152220122
MRT_766409	2.008158257	2.432728068	44.99384981	7.57E-07	9.12E-05	chr10	103450839	103451338
MRT_5282	2.007612135	2.213719744	30.35308087	1.93E-05	0.001092054431	chr1	8897299	8897798
MRT_642158	2.007498309	2.133813306	15.5636058	4.76E-04	0.01338873242	chr8	97468337	97468836
MRT_621233	2.007041023	2.752590924	16.51565729	0.000345549639	0.01037090463	chr8	40850663	40851162
MRT_84912	2.006943684	1.870896008	17.88996269	1.32E-03	0.02966433652	chr1	196743223	196743722
MRT_949503	2.00694258	3.175774221	32.63605207	3.75E-06	0.000314348387	chr14	31559902	31560401
MRT_1139342	2.006789035	2.201747702	15.16845195	5.45E-04	1.49E-02	chr18	67295949	67296448
MRT_884639	2.006535065	2.519898426	35.80711713	1.79E-06	0.000177881404	chr12	93454507	93455006
MRT_544520	2.006367776	3.556448109	34.93745334	2.19E-06	0.000206207564	chr7	27239677	27240176
MRT_1199089	2.006329389	2.75889332	29.18953128	8.78E-06	0.000597395057	chr20	48384945	48385444
MRT_1108037	2.006316895	3.486393378	43.1317714	3.73E-07	5.23E-05	chr17	76930123	76930622
MRT_859107	2.00604148	2.325002245	25.39527428	2.39E-05	0.001285602167	chr12	31584707	31585206
MRT_1061691	2.006010197	3.770351312	16.53126925	3.44E-04	0.01033580096	chr16	84268332	84268831
MRT_950326	2.005494217	2.662962768	12.80044547	1.27E-03	0.02873962716	chr14	33030629	33031128
MRT_538971	2.005477943	2.152776765	21.37869963	7.50E-05	0.003150487274	chr7	15519151	15519650
MRT_690721	2.005360369	2.528291902	15.19230373	0.000540777042	0.01479165742	chr9	89214399	89214898
MRT_467492	2.005022237	1.975306117	24.61696135	4.13E-04	0.0119254638	chr6	22323009	22323508

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_487470	2.004972528	2.223877182	21.73105594	6.75E-05	0.002892097083	chr6	70845493	70845992
MRT_520720	2.004972058	2.707374096	26.15299324	1.94E-05	0.001097541234	chr6	151597458	151597957
MRT_265222	2.004922591	2.789943225	12.76177789	0.001283868611	0.02907974042	chr3	106529216	106529715
MRT_216829	2.004756633	2.664369607	20.85772544	8.76E-05	0.003549527108	chr2	238623638	238624137
MRT_1248073	2.004712992	1.968499856	14.84601896	6.10E-04	0.01623562682	chrX	15953155	15953654
MRT_766432	2.004022277	2.487566787	17.52807515	2.48E-04	8.01E-03	chr10	103485015	103485514
MRT_565483	2.003969569	2.337243898	29.77418498	7.57E-06	0.000536263150	chr7	76944794	76945293
MRT_1053584	2.003946116	3.004048856	27.47608824	1.37E-05	0.000835967317	chr16	69436362	69436861
MRT_95387	2.003825097	1.949079775	16.89137577	0.000585036854	0.0157475731	chr1	217929844	217930343
MRT_43634	2.003459391	1.994002373	17.75557778	3.16E-04	0.009673006698	chr1	79153256	79153755
MRT_748458	2.003137644	2.178031043	16.49135433	0.000348356556	0.01043946133	chr10	69895260	69895759
MRT_265361	2.002258184	2.870796113	16.01765263	0.000408261702	0.01182063459	chr3	106781569	106782068
MRT_421521	2.00191977	2.20933783	15.42391318	0.000499456206	0.0138982072	chr5	106347341	106347840
MRT_89709	2.001429303	3.412340541	20.95890059	8.50E-05	0.003467700535	chr1	205418929	205419428
MRT_153887	2.001337897	2.667386563	44.35465697	2.91E-07	4.36E-05	chr2	97079025	97079524
MRT_324269	2.001003652	2.803814243	52.21050523	6.60E-08	1.39E-05	chr4	39136291	39136790
MRT_260978	2.000849598	1.889634359	18.72522738	1.25E-03	0.02846277794	chr3	90103102	90103601
MRT_192508	2.000563895	2.626962133	20.30429339	1.04E-04	0.004027835805	chr2	188483540	188484039
MRT_1258885	2.000480744	2.140387971	23.51023677	6.11E-05	0.002664695011	chrX	67469342	67469841
MRT_1266139	2.000018292	2.950959438	13.38450796	1.02E-03	0.02452009833	chrX	114602002	114602501
MRT_861303	2.000000632	2.142124499	18.70155979	1.70E-04	0.005968740603	chr12	42021573	42022072
MRT_1103123	1.999502466	2.709502973	12.3761917	1.48E-03	0.03253684822	chr17	68617718	68618217
MRT_617337	1.999383227	2.66316013	12.01306301	1.70E-03	3.63E-02	chr8	31808671	31809170
MRT_428063	1.999031191	3.218389278	12.09678337	0.00164357626	0.03533842199	chr5	123122335	123122834
MRT_484346	1.998981202	2.194460319	16.38209932	0.000361281487	0.01071877806	chr6	55897511	55898010
MRT_873268	1.998661948	2.271089912	18.57511398	0.000177106951	0.00617799315	chr12	65965590	65966089
MRT_896647	1.9984027	2.679146818	11.18923277	2.32E-03	4.64E-02	chr12	116076465	116076964
MRT_1266192	1.998242455	2.465858773	16.75394545	0.000319280978	0.009743908465	chrX	114703465	114703964
MRT_931819	1.997977356	2.24850776	21.14982026	8.03E-05	0.003321294898	chr13	80582662	80583161
MRT_1194461	1.997896627	3.03018074	30.65960555	6.07E-06	0.000452927669	chr20	40024207	40024706

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1009766	1.997866998	2.774790415	15.88791839	0.000426537354	0.01225632959	chr15	70994414	70994913
MRT_171206	1.997124748	2.325384553	14.50983983	6.85E-04	1.78E-02	chr2	136767699	136768198
MRT_794720	1.997079941	2.182295982	16.81746119	3.13E-04	0.009582964501	chr11	22725038	22725537
MRT_568367	1.9969031	2.066435187	15.97221367	0.000414565002	0.01197198031	chr7	84091639	84092138
MRT_343198	1.99677594	2.346667559	16.53420824	3.43E-04	0.01033153869	chr4	91954253	91954752
MRT_772557	1.996669379	2.237741219	30.89784405	1.69E-05	0.000984432568	chr10	116445109	116445608
MRT_958960	1.996401741	3.506227507	12.17071968	1.60E-03	0.03451342544	chr14	54831560	54832059
MRT_510242	1.996274869	2.747014946	34.43021853	2.46E-06	0.000225851620	chr6	129812437	129812936
MRT_870907	1.996016564	2.203665899	20.38950634	1.01E-04	0.003945222726	chr12	59775015	59775514
MRT_732797	1.995891801	1.98078908	21.81174483	0.000359430225	0.01067884122	chr10	27670568	27671067
MRT_1270406	1.995362388	2.060039748	13.36931203	1.03E-03	0.02460867222	chrX	133738175	133738674
MRT_321959	1.995291024	2.192377015	17.91090972	2.19E-04	0.007266764465	chr4	31070187	31070686
MRT_874274	1.995268275	2.328336617	14.90690748	5.97E-04	0.01598336616	chr12	67760497	67760996
MRT_962541	1.994709017	2.296649184	38.73943149	6.36E-06	0.000470451649	chr14	61679475	61679974
MRT_248276	1.994433582	2.982053397	40.34439333	6.64E-07	8.21E-05	chr3	57188982	57189481
MRT_1246507	1.994415328	2.231660088	13.89580341	0.000851555805	0.02118184528	chrX	10696910	10697409
MRT_353839	1.994410478	2.138400471	25.43786435	6.17E-05	0.002681933121	chr4	123618661	123619160
MRT_636147	1.994195823	2.996621741	17.34896585	0.000262608106	0.00836352486	chr8	80872159	80872658
MRT_402358	1.993688128	1.979514864	19.20840323	4.06E-04	0.01177639428	chr5	58732607	58733106
MRT_1179115	1.993400124	2.50009238	36.8239217	1.43E-06	0.000149442694	chr20	4594176	4594675
MRT_655550	1.993217771	2.078213648	18.23969322	0.000197032428	0.006721988957	chr8	127403857	127404356
MRT_772554	1.993062962	2.515259509	28.13813829	1.15E-05	0.000732286563	chr10	116443023	116443522
MRT_855981	1.992846856	2.324348941	20.74917357	9.05E-05	0.003636149301	chr12	24941618	24942117
MRT_394803	1.992466243	2.788796834	31.37577291	5.09E-06	0.000396685784	chr5	36740417	36740916
MRT_1252805	1.991904214	2.042652079	14.91656163	0.000594826507	0.0159467819	chrX	37755783	37756282
MRT_907342	1.991888209	2.543793936	26.02346363	2.01E-05	0.001130948213	chr13	21401169	21401668
MRT_1139856	1.991701703	2.778475565	22.51943648	5.36E-05	0.002411434952	chr18	68137188	68137687
MRT_1112944	1.99121774	2.692163239	18.81139773	1.64E-04	0.005778381653	chr18	3870841	3871340
MRT_58353	1.991199473	3.188879426	16.53713175	0.000343089636	0.01032394566	chr1	114566665	114567164
MRT_265362	1.990856659	3.093726432	15.94898552	0.000417827570	0.01204699751	chr3	106782210	106782709

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_636214	1.990786066	2.711248193	37.34931904	1.27E-06	0.000136810721	chr8	80978106	80978605
MRT_539365	1.990568304	2.78045294	11.87981464	0.001783377429	0.03776175172	chr7	16124064	16124563
MRT_879790	1.990181391	2.049598641	23.88047142	0.000203462668	0.006894465442	chr12	80635138	80635637
MRT_128328	1.989928199	2.631106366	44.68926408	2.73E-07	4.16E-05	chr2	33359817	33360316
MRT_468200	1.989908786	2.669784879	15.0165251	0.000574588956	0.01551904083	chr6	23736744	23737243
MRT_125828	1.989822904	3.484254206	22.03982919	6.17E-05	2.68E-03	chr2	28887927	28888426
MRT_617307	1.989335745	2.049676616	19.13928781	2.18E-04	0.007255573101	chr8	31752736	31753235
MRT_886035	1.989317404	2.950553552	22.07419017	6.11E-05	0.002664093996	chr12	95730155	95730654
MRT_1122830	1.989291992	2.302838869	21.41935611	7.41E-05	0.003120943848	chr18	28881073	28881572
MRT_1266655	1.988801314	2.248655899	14.17198797	7.72E-04	0.01958760169	chrX	117346186	117346685
MRT_349007	1.988784154	2.073558702	20.80456083	0.000154140908	0.005493202564	chr4	109840349	109840848
MRT_990514	1.988363641	2.248978898	27.5747557	1.45E-05	0.000877868496	chr15	33508132	33508631
MRT_1047094	1.988342711	2.155538515	27.6719373	3.78E-05	0.00182398616	chr16	54686614	54687113
MRT_336874	1.98780724	2.502493335	15.92592218	0.000421094323	0.01212573209	chr4	77502486	77502985
MRT_1134257	1.987765484	2.208455765	23.78010998	3.74E-05	0.001809402007	chr18	53902548	53903047
MRT_487420	1.987543214	2.125850004	18.46280603	0.000183526181	0.006344333513	chr6	70743181	70743680
MRT_249172	1.987362754	3.136343399	20.76614874	9.00E-05	0.003627824217	chr3	58614951	58615450
MRT_669898	1.986691582	2.10192058	35.60993892	0.000115308220	0.004394001414	chr9	9612118	9612617
MRT_550701	1.986416039	2.311217312	17.71617403	0.000233102391	0.007631726563	chr7	39443059	39443558
MRT_426694	1.986208322	2.037753448	15.28024999	0.000524669188	0.01444138279	chr5	118993815	118994314
MRT_259796	1.986121382	1.99770677	15.86163437	4.30E-04	0.01235177965	chr3	86106665	86107164
MRT_370447	1.985937143	2.264146198	16.4287189	0.000355704381	0.01059793506	chr4	162443067	162443566
MRT_419376	1.985512013	2.095527528	20.13640413	1.14E-04	0.004367798122	chr5	97654102	97654601
MRT_490645	1.985053497	2.043463351	19.23501372	0.000206633858	0.006968143141	chr6	79889584	79890083
MRT_1095296	1.985039934	2.845614017	33.7904553	2.85E-06	2.54E-04	chr17	55989405	55989904
MRT_640133	1.984749137	3.151773583	34.03467752	2.70E-06	0.000243182208	chr8	93115718	93116217
MRT_831900	1.984719098	2.575092432	20.91682132	8.61E-05	0.003498252459	chr11	112482066	112482565
MRT_356976	1.984712279	2.083003754	17.70361048	0.000234050782	0.007658822726	chr4	131075302	131075801
MRT_568090	1.984610254	2.098859982	21.98497278	1.10E-04	4.24E-03	chr7	83424761	83425260
MRT_239464	1.984506479	3.12828062	22.70953132	5.08E-05	0.002307724184	chr3	42103207	42103706

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_330736	1.984112306	2.317320451	24.50767457	3.05E-05	0.001545721458	chr4	57629280	57629779
MRT_81320	1.98393808	2.183465536	22.36500368	5.61E-05	0.002491150573	chr1	185008716	185009215
MRT_879883	1.983584692	2.291769311	18.67034866	0.000171852454	0.006017223952	chr12	80823202	80823701
MRT_704213	1.983248684	2.43986213	37.78957103	1.15E-06	1.27E-04	chr9	116108703	116109202
MRT_789701	1.982989408	2.293828309	16.68174242	3.27E-04	0.009931443475	chr11	12341103	12341602
MRT_691159	1.982851714	2.844063902	14.51505379	6.84E-04	0.01781371567	chr9	89871924	89872423
MRT_545458	1.98235723	2.344365661	20.547156	9.62E-05	0.003816385591	chr7	28989463	28989962
MRT_83912	1.982274365	3.275909926	31.39683904	5.06E-06	0.000395465879	chr1	193155299	193155798
MRT_83558	1.982159183	2.912677034	14.99543411	0.000578796317	0.01560940935	chr1	192515077	192515576
MRT_1203848	1.981469529	2.251821867	28.03252377	1.52E-05	0.000907196949	chr20	57098809	57099308
MRT_198901	1.981406584	2.40820177	30.10525127	6.97E-06	0.000504219022	chr2	202947972	202948471
MRT_1005871	1.98139588	3.138412735	53.30563394	5.43E-08	1.19E-05	chr15	64813281	64813780
MRT_870850	1.981237353	2.350115989	14.31694933	0.000733507873	0.01881332395	chr12	59562369	59562868
MRT_954410	1.980753644	1.939882609	18.28588419	7.50E-04	0.01914078403	chr14	43511147	43511646
MRT_1046640	1.980664985	2.325597428	26.99673049	1.55E-05	0.000918527864	chr16	53861567	53862066
MRT_760335	1.980460607	2.293013685	23.15339228	4.47E-05	0.002082797572	chr10	92796565	92797064
MRT_966132	1.980247065	4.008517306	16.46073318	0.000351928153	0.0105115394	chr14	68604387	68604886
MRT_858317	1.979356719	2.053918502	31.08560749	1.92E-04	0.006580773304	chr12	29884003	29884502
MRT_59706	1.979349487	3.101313754	15.63144148	0.000465308887	0.01313824296	chr1	117398432	117398931
MRT_669684	1.979313351	2.210057645	14.24146807	7.53E-04	0.01921202055	chr9	8872862	8873361
MRT_297818	1.979198443	2.936616995	13.58009929	0.00095342649	0.02316163483	chr3	178031407	178031906
MRT_102168	1.978102147	2.11773345	31.8042921	8.69E-05	0.003522460431	chr1	230747110	230747609
MRT_932572	1.978024835	1.852647745	12.46653197	1.91E-03	0.03980170663	chr13	82170512	82171011
MRT_669822	1.977811641	1.897764096	15.01499322	1.35E-03	0.03027235791	chr9	9317004	9317503
MRT_636127	1.977777317	2.469595208	24.11272665	3.40E-05	0.001680384429	chr8	80845319	80845818
MRT_402418	1.977664021	2.158786705	17.83373675	2.24E-04	0.007403059874	chr5	58838613	58839112
MRT_510322	1.977019043	2.297847171	25.73298103	2.18E-05	0.001202195022	chr6	129953233	129953732
MRT_321882	1.976778548	1.964697008	16.89197358	6.21E-04	0.01647620095	chr4	30841721	30842220
MRT_512981	1.976440668	2.319010852	23.74242	3.78E-05	0.001823765546	chr6	135061668	135062167
MRT_330672	1.976395823	2.449863546	26.29371667	1.87E-05	0.00106716271	chr4	57544075	57544574

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1072590	1.975808731	2.213625784	16.23468214	3.80E-04	1.12E-02	chr17	10567770	10568269
MRT_490887	1.975655799	2.172903731	19.44901176	0.000134676554	0.004958364615	chr6	80319950	80320449
MRT_596454	1.975525111	2.497930101	13.14317141	0.001116652712	0.02623740832	chr7	147608029	147608528
MRT_240117	1.975476976	2.264182794	13.92114085	0.000843903914	0.02104516497	chr3	43186422	43186921
MRT_374149	1.975175619	2.395692686	24.77613011	2.83E-05	0.001460427583	chr4	173951890	173952389
MRT_1004429	1.975158003	2.315968984	21.63121086	6.96E-05	0.002960620007	chr15	62705454	62705953
MRT_265338	1.974911217	3.24949858	12.75303677	0.001288004141	0.02915563741	chr3	106742920	106743419
MRT_343045	1.974695063	2.103846044	15.34104449	0.000513836457	0.01419867827	chr4	91453493	91453992
MRT_538808	1.974205982	2.363029569	16.32265362	0.000368529745	0.01090067672	chr7	15267883	15268382
MRT_690593	1.974202773	2.378227011	15.51412667	4.84E-04	0.01357460414	chr9	89039891	89040390
MRT_882897	1.973892466	2.309776905	11.61949673	0.001968265166	0.04071340951	chr12	90393533	90394032
MRT_512833	1.973598988	2.257408612	23.82328787	3.69E-05	0.001794325882	chr6	134763823	134764322
MRT_563556	1.973050939	3.053974493	52.39234633	6.38E-08	1.35E-05	chr7	73241101	73241600
MRT_837735	1.973040372	2.655147658	26.40903547	1.81E-05	0.001042619598	chr11	122394936	122395435
MRT_796136	1.972924548	2.469202351	14.98415111	0.000581060720	0.01565716069	chr11	27083234	27083733
MRT_796163	1.972866582	2.30985265	20.9427643	8.54E-05	0.003476694939	chr11	27129422	27129921
MRT_770398	1.972523768	2.69454838	19.85211972	0.000118912481	0.004499446814	chr10	112597357	112597856
MRT_464048	1.972426973	2.946397022	41.51572464	5.19E-07	6.81E-05	chr6	15504683	15505182
MRT_346330	1.972361495	2.116530173	16.73790747	3.21E-04	0.009783850373	chr4	102898146	102898645
MRT_975963	1.972324772	2.554032864	25.13058133	2.57E-05	0.001363239852	chr14	90227252	90227751
MRT_326870	1.971811243	2.176676377	15.84357121	0.000432984740	0.01240265228	chr4	45068490	45068989
MRT_505014	1.971610498	2.140602341	21.3139449	7.69E-05	0.00321092062	chr6	114916837	114917336
MRT_878651	1.971290419	2.761638512	14.76927645	6.26E-04	1.66E-02	chr12	78166416	78166915
MRT_1165066	1.970323634	2.815156299	70.82361229	3.29E-09	1.47E-06	chr19	39367741	39368240
MRT_861276	1.970240622	2.011914846	20.0061266	3.66E-04	0.01085084568	chr12	41921947	41922446
MRT_954215	1.970193184	2.117537429	17.84755291	2.23E-04	0.007377856538	chr14	42691222	42691721
MRT_510278	1.970157004	2.318512272	20.29819979	1.04E-04	0.004033890207	chr6	129884281	129884780
MRT_36256	1.969846256	3.411260386	19.48763075	0.000133073283	0.004918572001	chr1	60280134	60280633
MRT_738784	1.969709481	2.362496804	22.73952241	5.03E-05	0.002291113223	chr10	37765757	37766256
MRT_762070	1.969202501	2.56393471	29.91630376	7.31E-06	0.000522406431	chr10	95751557	95752056

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_364468	1.969033131	2.083426656	14.67725098	0.000646458713	0.01701576268	chr4	148875992	148876491
MRT_319024	1.96895439	1.920287469	22.54573964	0.000929571231	0.02271262522	chr4	22665927	22666426
MRT_510787	1.968805877	2.098995133	15.36330566	0.000509930221	0.01412150429	chr6	130947388	130947887
MRT_856078	1.968620345	3.10277179	22.14398148	5.98E-05	2.62E-03	chr12	25099806	25100305
MRT_1199075	1.968590496	3.02800381	18.01714418	2.12E-04	0.007091645432	chr20	48367488	48367987
MRT_503480	1.968500422	2.844175453	50.48643001	9.02E-08	1.77E-05	chr6	111872648	111873147
MRT_561760	1.968123983	3.74309954	14.21922035	7.59E-04	0.01931351828	chr7	69557529	69558028
MRT_185277	1.967940217	3.064439785	28.52131488	1.04E-05	0.000682087478	chr2	172204173	172204672
MRT_171212	1.967665063	2.541704303	14.16745843	7.73E-04	0.01959940671	chr2	136777230	136777729
MRT_748440	1.967564776	2.056750723	17.80486446	0.000226523708	0.007461453483	chr10	69860022	69860521
MRT_260962	1.967512331	2.145211672	18.81677119	0.000164097644	0.005775016841	chr3	90060237	90060736
MRT_617325	1.96717913	2.220314087	18.9473413	0.000157498972	0.005592448107	chr8	31787342	31787841
MRT_822407	1.96717349	2.626770112	17.03744028	2.91E-04	0.009064267501	chr11	86701019	86701518
MRT_934233	1.96696779	2.16395727	18.62189175	0.000174504781	0.006098963748	chr13	90028102	90028601
MRT_879946	1.966822402	2.546677421	29.71927888	7.68E-06	0.000541912066	chr12	80955019	80955518
MRT_1032225	1.966803594	3.542390323	26.27482069	1.88E-05	0.001070668215	chr16	10921952	10922451
MRT_351136	1.96661217	2.356769135	20.83643228	8.82E-05	0.00356548777	chr4	114495861	114496360
MRT_879948	1.966509651	2.402267926	15.41392654	5.01E-04	0.01393226451	chr12	80957886	80958385
MRT_141949	1.965917137	2.401506426	37.91472858	2.21E-06	0.000208335408	chr2	63971002	63971501
MRT_861266	1.965239885	2.389707217	17.00180304	0.000294219437	0.009128467928	chr12	41906287	41906786
MRT_861202	1.96523841	2.2189553	15.6757771	4.58E-04	0.01297191153	chr12	41759454	41759953
MRT_43987	1.965103187	2.016306802	14.23158106	7.56E-04	0.01925255356	chr1	80093520	80094019
MRT_691095	1.964896797	2.65895396	12.79121399	0.00127004696	0.0288115071	chr9	89774773	89775272
MRT_260901	1.964545073	2.404427603	11.19520079	0.00231545243	0.04637266596	chr3	89836635	89837134
MRT_1077809	1.964382964	3.586820118	26.58343642	1.73E-05	0.001004187467	chr17	21249488	21249987
MRT_1248111	1.96406106	2.199417357	14.80765376	6.18E-04	0.01641220399	chrX	16143774	16144273
MRT_681940	1.963902219	2.269349694	26.97595657	1.60E-05	0.000941876474	chr9	37693170	37693669
MRT_42957	1.963784912	2.455034497	23.82402054	3.69E-05	0.001794325882	chr1	77870808	77871307
MRT_171251	1.963679075	2.343524887	16.75679702	0.000318979933	0.009737063978	chr2	136832940	136833439
MRT_349558	1.963574976	2.361583963	31.87349289	4.51E-06	0.000362560654	chr4	111029533	111030032

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_636204	1.963493773	2.471109098	25.42460852	2.37E-05	0.00127962138	chr8	80963144	80963643
MRT_1133436	1.963390986	2.036296415	16.65626696	0.000329779699	0.009994570695	chr18	52519236	52519735
MRT_954284	1.96333672	2.013721834	13.88353737	0.000855286950	0.0212571399	chr14	42939415	42939914
MRT_875026	1.963133367	2.537110056	34.45998798	2.44E-06	0.000224892607	chr12	69250360	69250859
MRT_316494	1.963116187	2.270365945	22.71647068	5.07E-05	0.00230393003	chr4	16059514	16060013
MRT_624225	-1.963063984	4.027868365	12.64254689	1.34E-03	0.03012609491	chr8	49833743	49834242
MRT_931653	1.96268741	2.134908072	18.8627256	0.000161741979	0.005707952772	chr13	80246485	80246984
MRT_839540	1.962394894	2.933082934	18.46917271	1.83E-04	0.006340165602	chr11	125950104	125950603
MRT_1120741	1.962275204	2.571439446	12.99649789	0.001178003328	0.02719528105	chr18	22162666	22163165
MRT_468852	1.961885296	2.414175542	26.87997494	1.60E-05	0.000941445827	chr6	24919114	24919613
MRT_545532	1.961825577	2.329614857	21.27787914	7.72E-05	0.003220796159	chr7	29135537	29136036
MRT_122943	1.961629193	2.771926879	30.30378041	6.63E-06	0.000485651498	chr2	24587928	24588427
MRT_1099462	1.961628642	2.514561576	25.28450919	2.46E-05	0.001318452781	chr17	62255234	62255733
MRT_861215	1.961602916	2.182424271	20.30414309	1.04E-04	0.004027835805	chr12	41812422	41812921
MRT_733185	1.961471475	1.963571059	19.62230601	0.000685079209	0.01782752082	chr10	28508150	28508649
MRT_36397	1.961302426	2.407868524	11.11182492	2.39E-03	4.74E-02	chr1	60610596	60611095
MRT_881952	1.961264949	2.018259943	20.34315729	3.23E-04	0.009839588359	chr12	88337693	88338192
MRT_458344	1.961070372	2.192206458	12.48907348	0.001419906607	0.03151551163	chr6	3612467	3612966
MRT_858222	1.960978148	2.260574575	32.69133547	1.52E-05	0.000906916360	chr12	29698844	29699343
MRT_240119	1.960493198	2.237677147	14.75891363	0.000628317258	0.01663715891	chr3	43187993	43188492
MRT_669619	1.960232714	2.134747165	21.91952975	1.04E-04	0.004044437574	chr9	8733024	8733523
MRT_64386	1.959857406	2.53454281	25.61481796	2.25E-05	0.001232856428	chr1	151467047	151467546
MRT_702941	1.959854935	2.277181538	24.55140903	3.01E-05	0.001531315846	chr9	113996961	113997460
MRT_620647	1.959829315	2.711366588	12.97306581	1.19E-03	0.02736943536	chr8	39799800	39800299
MRT_155645	1.959818778	2.626573366	20.45942856	9.88E-05	0.003885615824	chr2	100343607	100344106
MRT_880170	1.959246549	2.088403412	17.06242402	2.88E-04	0.00900791003	chr12	81404396	81404895
MRT_297258	1.959222495	3.14188655	19.46789708	1.34E-04	4.94E-03	chr3	177307781	177308280
MRT_81232	1.959207446	2.496185582	31.23761389	5.26E-06	0.000406430271	chr1	184807666	184808165
MRT_150814	1.958926121	3.145077938	25.10424469	2.59E-05	0.001371422355	chr2	85125503	85126002
MRT_290291	1.958813847	2.674153612	19.45231182	1.35E-04	0.004954729148	chr3	159578392	159578891

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_836987	1.958671625	2.215585017	26.2127668	3.06E-05	0.001548561259	chr11	121291125	121291624
MRT_202620	1.958412562	2.612794596	17.63001038	2.40E-04	0.007809124061	chr2	210323257	210323756
MRT_545457	1.958274855	2.247498899	24.52930365	3.03E-05	0.001538868854	chr7	28988858	28989357
MRT_914005	1.957301967	2.58388249	19.9485962	1.15E-04	0.004395500718	chr13	33803927	33804426
MRT_183931	1.957199533	2.374750803	19.28512832	0.000141714676	0.005142843847	chr2	169769966	169770465
MRT_882403	1.956914915	2.16745925	20.54079599	9.64E-05	0.003821348489	chr12	89624637	89625136
MRT_252918	1.956836741	2.51952711	31.95205215	4.42E-06	0.000358295683	chr3	66868319	66868818
MRT_512875	1.956677983	2.73886769	24.74578255	2.85E-05	0.001468567711	chr6	134838409	134838908
MRT_762042	1.956649545	2.162841319	23.37252431	6.01E-05	0.00263214026	chr10	95702288	95702787
MRT_1261034	1.956189594	2.314971843	18.14464178	0.000203107398	0.006886106333	chrX	76705937	76706436
MRT_858219	1.956113789	2.17165305	38.812148	5.54E-05	0.002464661855	chr12	29687849	29688348
MRT_635635	1.956085647	2.260488771	15.67479499	0.000458497558	0.01297191153	chr8	79142311	79142810
MRT_1135061	1.956053195	2.936915069	29.07446438	9.04E-06	0.000610894490	chr18	55448871	55449370
MRT_1112681	1.955891808	3.862488799	12.93876859	1.20E-03	0.02759472407	chr18	3526526	3527025
MRT_60426	1.955671051	2.560228007	38.32754598	1.02E-06	0.000115661405	chr1	118765943	118766442
MRT_873119	1.955346611	2.976520164	14.21337482	7.61E-04	0.01934180594	chr12	65785483	65785982
MRT_294969	1.955024091	2.61702534	26.90431601	1.59E-05	0.000936945143	chr3	172366511	172367010
MRT_95623	1.95485113	3.292711031	18.28634798	0.000194122291	0.006652609204	chr1	218521302	218521801
MRT_467400	1.954819769	4.250455982	22.1853227	5.91E-05	0.002599607728	chr6	22148179	22148678
MRT_907339	1.954579521	2.389993026	28.62978662	1.01E-05	0.000666601322	chr13	21398840	21399339
MRT_745987	1.954388351	2.665878932	19.64964008	1.27E-04	4.73E-03	chr10	63402409	63402908
MRT_873244	1.954310336	3.157635104	18.23533406	1.97E-04	0.006726911659	chr12	65927874	65928373
MRT_516270	1.95413102	2.420637706	23.91317603	3.60E-05	0.001760212032	chr6	143142792	143143291
MRT_1194452	1.954007522	2.27310516	28.3910364	1.32E-05	0.000812613918	chr20	40015299	40015798
MRT_46541	1.95366567	2.212935307	22.35979851	5.62E-05	0.002494052631	chr1	86754335	86754834
MRT_865915	1.953598231	2.271214957	23.62762925	3.90E-05	0.001868482482	chr12	50594261	50594760
MRT_297283	1.953348605	2.944455704	15.32479943	5.17E-04	0.0142593688	chr3	177337009	177337508
MRT_129850	1.953234936	2.383793915	15.81975042	0.000436491115	0.01248014296	chr2	37752188	37752687
MRT_1050614	1.95304978	2.388854121	14.45356805	0.000699099802	0.01811062588	chr16	64944124	64944623
MRT_745870	1.95294317	2.375943286	20.26646964	0.000104753273	0.00406556815	chr10	63084740	63085239

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_702818	1.952749855	2.331904657	17.48739631	0.000251038871	0.008080025316	chr9	113758196	113758695
MRT_89657	1.952679214	2.848013507	31.93264773	4.44E-06	0.000359294881	chr1	205338730	205339229
MRT_511095	1.95264065	2.120596985	20.66455387	0.000108333632	0.004177267167	chr6	131494626	131495125
MRT_870856	1.951882152	2.276041157	22.23141954	5.83E-05	0.002568426354	chr12	59575303	59575802
MRT_44097	1.951717515	2.049160876	15.97855693	4.14E-04	0.01194910925	chr1	80386894	80387393
MRT_722254	1.951576533	2.475098144	14.95403613	0.000587151348	0.01578439044	chr10	5027101	5027600
MRT_788146	1.951555228	2.198145357	19.45777728	1.34E-04	0.004949210152	chr11	9792408	9792907
MRT_173713	1.951530311	2.454555284	16.1510424	0.000390345844	0.01142106703	chr2	144582308	144582807
MRT_620863	1.951431544	2.272635202	11.73727629	0.001882172042	0.03930250391	chr8	40164514	40165013
MRT_251708	1.951302758	2.305569038	15.88873255	4.26E-04	0.01225573278	chr3	64800800	64801299
MRT_1200721	1.951062245	2.678397945	19.14819686	0.000147898400	0.005314035624	chr20	50656224	50656723
MRT_438150	1.951036507	2.271932849	32.58158571	1.48E-05	0.000889936357	chr5	141912225	141912724
MRT_930127	1.95076564	2.187504579	18.76589478	0.000166748671	0.005853695254	chr13	76361587	76362086
MRT_729936	1.950490897	3.695881973	14.4921556	0.000689699006	0.01791465979	chr10	21606910	21607409
MRT_1016278	1.950291313	2.301856832	23.67375568	3.85E-05	0.001850518774	chr15	82045387	82045886
MRT_39485	1.949915494	3.107744113	12.04074444	0.001678514144	0.03595552489	chr1	66648491	66648990
MRT_953086	1.949643334	2.384670596	13.88194049	8.56E-04	0.02126175093	chr14	39022726	39023225
MRT_7869	1.949456115	2.32774923	26.66454994	1.69E-05	0.000986289829	chr1	12483889	12484388
MRT_1049171	1.949316558	2.441782324	31.93789021	4.44E-06	0.000359067857	chr16	58372134	58372633
MRT_1185031	1.949021722	2.32781326	28.20751312	1.13E-05	0.000723963149	chr20	19583278	19583777
MRT_1213389	1.948659568	2.081037942	15.46473824	0.000492531521	0.01374774274	chr21	29471547	29472046
MRT_726777	1.948616867	2.10834702	29.56131248	0.000131614893	0.004878212568	chr10	14297043	14297542
MRT_330816	1.94858974	2.601375054	35.35612809	1.99E-06	0.000191057823	chr4	57740295	57740794
MRT_550714	1.948438556	2.055600459	17.58932871	2.80E-04	0.008797359162	chr7	39459205	39459704
MRT_99242	1.948339463	2.3459881	19.42954648	1.35E-04	0.004980373641	chr1	225887144	225887643
MRT_1096314	1.948110822	2.360799298	12.45099703	0.001440105597	0.03182755686	chr17	57624672	57625171
MRT_596112	1.948106817	2.09544745	17.94367554	0.000216624463	0.007215164701	chr7	146750837	146751336
MRT_510403	1.948098632	2.206666318	23.2127588	4.39E-05	2.06E-03	chr6	130075891	130076390
MRT_544970	1.947767116	2.090579643	18.65906452	0.000197017121	0.006721988957	chr7	28089274	28089773
MRT_196271	1.947550943	2.402299031	30.4334451	6.42E-06	0.000473229914	chr2	197267792	197268291

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_821752	1.947363849	2.456626993	30.35331946	6.55E-06	0.000480804805	chr11	85672910	85673409
MRT_311343	1.947024979	2.42381952	12.23874667	1.56E-03	0.03381943385	chr4	5039745	5040244
MRT_567938	1.946966547	2.258483375	18.48208014	1.82E-04	0.006317697613	chr7	83043065	83043564
MRT_861423	1.946903945	2.30889113	27.62112769	1.32E-05	0.000810633860	chr12	42355822	42356321
MRT_1126985	1.946690672	2.767543231	13.3345002	1.04E-03	0.02483623637	chr18	39041248	39041747
MRT_251707	1.946654514	2.147130404	19.28592777	0.000141679399	0.005142843847	chr3	64799968	64800467
MRT_83908	1.946548974	2.866508457	26.81828108	1.63E-05	0.000953440510	chr1	193149595	193150094
MRT_508725	1.946375157	2.185701492	17.44171997	0.000254794503	0.008171076118	chr6	125315726	125316225
MRT_839539	1.946140737	2.831356583	15.72559855	4.51E-04	0.01280134078	chr11	125949548	125950047
MRT_504083	1.945772634	2.661774501	11.16649209	2.34E-03	0.04671175271	chr6	112883363	112883862
MRT_361443	1.945563965	2.293193894	23.45191972	4.10E-05	0.001948591385	chr4	143252187	143252686
MRT_151876	1.945516836	2.363549751	20.56155217	9.58E-05	0.003803662138	chr2	86620505	86621004
MRT_908811	1.945458881	2.620242521	18.79885565	0.000165025972	0.005798034401	chr13	24080250	24080749
MRT_1268914	1.945445825	2.065421358	17.16420548	2.79E-04	0.008774900829	chrX	128274144	128274643
MRT_351033	1.945355638	2.561762226	15.18126117	0.000542836851	0.01482561783	chr4	114328489	114328988
MRT_265412	1.945265251	2.486687653	25.36502532	2.41E-05	0.001292986482	chr3	106852646	106853145
MRT_762109	1.944786672	2.157584105	21.45466991	7.33E-05	0.003091487224	chr10	95812612	95813111
MRT_60361	1.944654273	2.521938327	32.11368046	4.25E-06	0.000346701033	chr1	118660092	118660591
MRT_1139264	1.944606282	3.141591613	24.99454367	2.66E-05	0.001401160757	chr18	67067372	67067871
MRT_862033	1.94448984	2.586789412	14.56986292	0.000671178063	0.01753774177	chr12	43351951	43352450
MRT_407920	1.944457178	2.177202321	15.67310596	4.59E-04	0.01297646762	chr5	71722773	71723272
MRT_435085	1.943964017	2.339734848	23.19121504	4.42E-05	2.07E-03	chr5	137163835	137164334
MRT_201751	1.943920686	1.987019686	21.86017644	5.24E-04	0.01443775015	chr2	208314761	208315260
MRT_1006947	1.94382389	2.458460763	28.57941604	1.03E-05	0.000673355396	chr15	66317470	66317969
MRT_1264007	1.943544497	2.562538622	16.00609458	4.10E-04	0.01186027259	chrX	102585858	102586357
MRT_542248	1.943499187	2.563463772	26.57242909	1.74E-05	0.001006224305	chr7	23270153	23270652
MRT_265398	1.94343999	2.696610529	17.66930649	0.000236661483	0.007724323866	chr3	106836332	106836831
MRT_613431	1.943373612	2.212632689	21.06180822	8.24E-05	0.003392999956	chr8	23712107	23712606
MRT_796253	1.942907079	2.666291853	33.12861731	3.34E-06	0.000287319864	chr11	27238979	27239478
MRT_839441	1.942780883	3.464477536	15.11898023	5.55E-04	0.0150851048	chr11	125811533	125812032

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_870908	1.942375318	2.035377706	23.60992162	2.83E-04	0.008870176782	chr12	59776487	59776986
MRT_365871	1.942324794	2.615584517	25.98606456	2.03E-05	0.001138898978	chr4	152090332	152090831
MRT_932272	1.942215733	2.099637838	21.58395355	1.29E-04	0.004789579032	chr13	81385528	81386027
MRT_428542	1.942015021	3.103812396	29.44776161	8.22E-06	0.000570258818	chr5	123985761	123986260
MRT_265469	1.941691139	2.939461741	16.72498587	0.000322355639	0.009814127506	chr3	106931944	106932443
MRT_320657	1.941645666	2.257263946	18.17093033	0.000201407354	0.00683577748	chr4	26230180	26230679
MRT_19519	1.941606475	2.601231263	25.4093592	2.38E-05	0.001282841033	chr1	30794332	30794831
MRT_516271	1.941249825	2.47060115	30.58385239	6.19E-06	4.60E-04	chr6	143143925	143144424
MRT_544972	1.941192914	2.156094548	14.37955943	7.18E-04	0.01848960385	chr7	28092518	28093017
MRT_882390	1.940947792	2.477738152	19.37538052	1.38E-04	0.005045207987	chr12	89606122	89606621
MRT_539321	1.940906958	2.986740999	16.68939556	3.26E-04	0.009911464996	chr7	16068282	16068781
MRT_620630	1.940450239	2.257567197	23.80628592	3.71E-05	0.001799728554	chr8	39776249	39776748
MRT_568916	1.940158464	2.448773974	14.86023758	6.07E-04	0.01616243614	chr7	85406227	85406726
MRT_265182	1.940136907	2.65120077	13.08986707	0.00113854103	0.02654516782	chr3	106464010	106464509
MRT_265183	1.940036784	2.198779865	14.97598773	0.000582704984	0.01569479804	chr3	106464644	106465143
MRT_953261	1.939873441	2.281899788	16.42476486	3.56E-04	0.01060942854	chr14	39428336	39428835
MRT_940502	1.939225616	2.257233834	13.09806387	0.001135145321	0.02650497454	chr13	103902292	103902791
MRT_361485	1.938683709	3.749530159	19.23283106	1.44E-04	0.005204998899	chr4	143326154	143326653
MRT_1127959	1.93858591	2.163625167	11.78647625	0.001847419518	0.03878755292	chr18	41353395	41353894
MRT_743276	1.938478174	2.058124624	12.0994907	1.64E-03	0.03532052264	chr10	54080236	54080735
MRT_879999	1.938087464	2.54342685	14.39838244	0.000712784725	0.01839750466	chr12	81070564	81071063
MRT_78020	1.937946875	2.478718981	23.23562494	4.36E-05	0.002046765039	chr1	178908416	178908915
MRT_36051	1.937926883	2.441132149	28.38212466	1.08E-05	7.03E-04	chr1	59858792	59859291
MRT_873688	1.937818557	3.243282071	12.89222074	1.22E-03	0.02800337256	chr12	66510138	66510637
MRT_153883	1.937796162	3.655451346	19.65726088	1.26E-04	0.00472010418	chr2	97074414	97074913
MRT_1259357	1.937606005	2.350793896	19.13914414	1.48E-04	0.005321549318	chrX	68609033	68609532
MRT_210670	1.937294311	2.081644587	15.22680216	0.000534395921	0.01466455481	chr2	227623936	227624435
MRT_250007	1.937247528	2.2540415	12.23073863	1.56E-03	0.03390334529	chr3	60631119	60631618
MRT_884687	1.937218698	2.310607126	34.81932846	8.57E-06	0.000587189636	chr12	93528922	93529421
MRT_192497	1.935728819	2.162158117	17.59330757	2.43E-04	0.007882279853	chr2	188465626	188466125

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_734103	1.935689268	2.237396584	18.32466593	1.92E-04	0.006580773304	chr10	29922949	29923448
MRT_209879	1.935563959	2.459765155	31.66533195	4.74E-06	0.000376661470	chr2	225784401	225784900
MRT_1002060	1.935484609	2.640846081	17.00250161	2.94E-04	0.009128467928	chr15	57616411	57616910
MRT_1099583	1.935331372	3.682179248	11.01555044	2.48E-03	0.04881983801	chr17	62404598	62405097
MRT_863971	1.935291629	2.141571099	20.66283861	9.78E-05	0.003858486213	chr12	47205035	47205534
MRT_1035763	1.934573472	2.167920398	13.66990947	0.000923173489	0.02258240816	chr16	18066396	18066895
MRT_966229	1.934469276	3.700767289	13.38025795	0.001024645253	0.02453924773	chr14	68708518	68709017
MRT_72870	1.934287719	2.20755776	29.69335237	4.87E-05	0.002238063477	chr1	168412055	168412554
MRT_476172	1.933843859	2.355545514	23.71005131	3.81E-05	0.001837874557	chr6	38247737	38248236
MRT_1112836	1.933268059	2.765921938	18.90304728	1.60E-04	0.005654165278	chr18	3722748	3723247
MRT_354486	1.932840067	2.757646617	12.93488351	1.20E-03	0.02762400297	chr4	124707363	124707862
MRT_1048825	1.932798571	2.780562904	27.61885634	1.32E-05	0.000810722409	chr16	57860600	57861099
MRT_438371	1.932779168	2.532166136	25.88459324	2.09E-05	0.001164419124	chr5	142239715	142240214
MRT_1134432	1.93276188	2.653055174	38.0727643	1.08E-06	0.000121309126	chr18	54244035	54244534
MRT_155216	1.93272968	2.612124911	37.40442884	1.25E-06	0.000135613473	chr2	99532476	99532975
MRT_361458	1.932543406	2.610107893	20.0468835	1.12E-04	4.29E-03	chr4	143275125	143275624
MRT_1009772	1.932436632	2.399434634	13.77069977	0.000890448142	0.02192992228	chr15	71005598	71006097
MRT_878175	1.931734437	2.496388756	31.26018656	5.24E-06	0.000405421652	chr12	77259826	77260325
MRT_297274	1.93163228	2.961246733	17.49723209	0.000250237957	0.008065738526	chr3	177327906	177328405
MRT_510078	1.93141382	2.286335371	25.05418649	2.62E-05	0.001387537565	chr6	129327861	129328360
MRT_536035	1.93131995	2.322484089	14.88988159	6.00E-04	0.01604755122	chr7	7593492	7593991
MRT_1181576	1.931139884	2.259649474	22.62633001	5.20E-05	0.002349580722	chr20	11667824	11668323
MRT_881951	1.93098415	2.089545928	18.11028299	2.05E-04	0.006939966242	chr12	88336691	88337190
MRT_173533	1.930303485	2.330300926	12.645462	1.34E-03	0.03012609491	chr2	144289420	144289919
MRT_1053863	1.930223677	2.97519161	18.07881755	0.000207432160	0.006986046381	chr16	69802602	69803101
MRT_931998	1.930140585	3.082346365	12.20252422	1.58E-03	0.03418673141	chr13	80920398	80920897
MRT_374147	1.929892961	2.792968853	49.71157296	1.04E-07	1.98E-05	chr4	173946176	173946675
MRT_155633	1.929823645	2.936286086	12.68820655	1.32E-03	0.02970180644	chr2	100323241	100323740
MRT_1270407	1.929225787	2.112319791	17.7922722	0.000227445471	0.007485163184	chrX	133739031	133739530
MRT_1018026	1.929223245	2.593744762	25.57107268	2.28E-05	0.001243964366	chr15	86042729	86043228

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_800310	1.929201155	2.27412567	27.06997599	2.11E-05	0.001172843757	chr11	36059776	36060275
MRT_1223842	1.92845181	2.906093396	46.36061092	1.96E-07	3.22E-05	chr22	17739636	17740135
MRT_545882	1.928277999	2.368784147	25.80382556	2.14E-05	0.00118556593	chr7	29879573	29880072
MRT_376998	1.927959148	2.223540489	14.24197577	0.000753161407	0.01921202055	chr4	182359011	182359510
MRT_973978	1.927743297	2.266514507	12.71276378	0.001307244125	0.02948133026	chr14	83930991	83931490
MRT_542289	1.927571275	2.427589117	26.35085404	1.84E-05	0.001054323126	chr7	23325171	23325670
MRT_669826	1.927525521	2.00150511	16.74127805	0.000629880938	0.01667160246	chr9	9331240	9331739
MRT_740703	1.92729068	2.680470631	17.38658453	0.000259408503	0.008283438614	chr10	45719756	45720255
MRT_467399	1.927285957	3.132313592	28.17147219	1.14E-05	0.000728913063	chr6	22147497	22147996
MRT_60471	1.92710416	2.090708881	21.45500924	2.02E-04	0.00684144834	chr1	118864434	118864933
MRT_854494	1.926557154	2.127193163	15.01518659	0.000574854989	0.01552292054	chr12	20278198	20278697
MRT_670924	1.92644914	2.634849741	25.79795691	2.14E-05	0.001186865264	chr9	13110651	13111150
MRT_44034	1.926419732	2.111101429	19.28857804	0.000150843509	0.005397614963	chr1	80192546	80193045
MRT_1120690	1.926367131	2.229422993	25.7614475	3.15E-05	0.00158433296	chr18	22083215	22083714
MRT_407842	1.925991816	2.557295561	43.44508808	4.01E-07	5.53E-05	chr5	71584714	71585213
MRT_248231	1.925612527	2.861099961	41.8211242	4.87E-07	6.49E-05	chr3	57134988	57135487
MRT_472623	1.925250789	2.730311494	17.26816936	2.70E-04	0.008562229239	chr6	33202943	33203442
MRT_438067	1.925135443	2.637049785	38.90585157	9.02E-07	0.000105107765	chr5	141818203	141818702
MRT_962502	1.925105776	2.39505132	28.87728011	9.51E-06	0.000635330246	chr14	61620083	61620582
MRT_511669	1.924943829	2.282030354	18.17508036	2.01E-04	0.006830371815	chr6	133006097	133006596
MRT_99243	1.924855398	2.730962829	13.41950294	1.01E-03	0.02429008208	chr1	225887779	225888278
MRT_367279	1.924645724	2.573794556	19.15253657	1.48E-04	0.00530923105	chr4	154459546	154460045
MRT_438143	1.924553895	2.418112153	43.4558701	2.13E-06	0.000202906660	chr5	141906746	141907245
MRT_361456	1.923982436	2.290207667	22.43350129	5.50E-05	0.002452340065	chr4	143273042	143273541
MRT_430146	1.923909901	3.156821731	28.74120576	9.84E-06	0.000652242367	chr5	126626127	126626626
MRT_1008842	1.923676087	2.780201894	16.04705555	4.04E-04	0.01173789138	chr15	69373620	69374119
MRT_787399	1.923583347	2.723306175	52.242346	6.56E-08	1.38E-05	chr11	8730428	8730927
MRT_1106765	1.923253443	2.937591341	33.65921865	2.94E-06	0.000260718618	chr17	75125680	75126179
MRT_861319	1.923192434	1.948930523	16.65420989	9.64E-04	0.02335502917	chr12	42076043	42076542
MRT_25278	1.923043432	3.555088055	21.14959272	8.03E-05	0.003321294898	chr1	40362479	40362978

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_886073	1.92300068	1.984997817	25.58899825	6.53E-04	0.01715614572	chr12	95790762	95791261
MRT_962317	1.922404923	2.071883197	24.02305096	0.000271493299	0.008604343128	chr14	61328991	61329490
MRT_623830	-1.922403956	2.942454382	11.99889113	0.001705130281	0.03642723498	chr8	49294536	49295035
MRT_1134051	1.922185302	2.390269144	11.72436582	0.001891407786	0.03944989559	chr18	53525734	53526233
MRT_636215	1.922056921	2.525876844	40.58083497	6.31E-07	7.92E-05	chr8	80978749	80979248
MRT_270622	1.921972291	2.363226211	32.45637308	7.20E-06	0.000517373640	chr3	119381768	119382267
MRT_504205	1.921927329	3.346468274	12.45818759	0.001436267511	0.03177525789	chr6	113198527	113199026
MRT_120024	1.921872447	2.472573927	19.51585696	0.000131914438	0.004887668989	chr2	18074006	18074505
MRT_476325	1.92175887	2.428787109	23.37236079	4.20E-05	0.001981638371	chr6	38522331	38522830
MRT_973977	1.921721634	2.15177015	12.3542721	0.001492823253	0.03273526012	chr14	83930445	83930944
MRT_258879	1.921528797	2.074653495	23.84057564	1.88E-04	0.006482206513	chr3	81971851	81972350
MRT_248278	1.921487293	2.641448751	39.4041049	8.11E-07	9.67E-05	chr3	57193299	57193798
MRT_510229	1.921471491	2.529965957	22.18068789	5.92E-05	0.002601324908	chr6	129796469	129796968
MRT_21619	1.921102603	2.419884093	41.76451571	2.45E-06	0.000225187615	chr1	33848151	33848650
MRT_23225	-1.921082753	4.293255798	11.96746217	1.73E-03	0.03675536834	chr1	36786737	36787236
MRT_702581	1.920887127	2.078446136	17.41005275	0.000282716470	0.00886259536	chr9	113300804	113301303
MRT_613526	1.920548839	2.033052607	16.37827999	0.000464136977	0.01311099095	chr8	23938265	23938764
MRT_572706	1.920502264	3.076978128	23.88865873	3.63E-05	0.001770366043	chr7	95107800	95108299
MRT_106167	1.920267123	2.407795555	23.37456616	4.19E-05	0.001981638371	chr1	239551108	239551607
MRT_325680	1.920028763	2.626182537	34.52345007	2.41E-06	0.000222414795	chr4	41146773	41147272
MRT_527409	1.920027555	1.923821297	15.73064276	1.31E-03	0.02954271685	chr6	164211721	164212220
MRT_141983	1.919884234	2.332961234	23.470182	4.08E-05	0.001939953093	chr2	64045080	64045579
MRT_565343	1.91985469	2.232153725	44.56033647	3.85E-05	0.00184733859	chr7	76639342	76639841
MRT_566724	1.919851968	2.339082243	11.580498	2.00E-03	0.04121952368	chr7	79964672	79965171
MRT_704212	1.919833875	2.883051579	55.03531606	4.01E-08	9.43E-06	chr9	116105959	116106458
MRT_863920	1.91938228	2.398956926	16.8567583	0.000308617344	0.009485715317	chr12	47074217	47074716
MRT_1120685	1.919343619	2.468369451	23.29402029	4.29E-05	0.002018577241	chr18	22076994	22077493
MRT_221616	1.919207842	3.288107823	29.90417029	7.33E-06	0.000523409873	chr3	4760759	4761258
MRT_958603	1.919046849	2.391975092	17.0363685	0.000290895919	0.009065231698	chr14	54332728	54333227
MRT_688818	1.918946025	2.633337712	16.18073402	0.000386474083	0.0113362752	chr9	85081830	85082329

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_702819	1.918369847	2.283139705	23.00082992	4.67E-05	0.002158371509	chr9	113759103	113759602
MRT_990534	1.918348704	2.073558314	17.75077955	0.000255488821	0.008185064192	chr15	33537345	33537844
MRT_932127	1.918311836	2.651328802	16.38678006	0.000360717306	0.010709394	chr13	81133999	81134498
MRT_492724	1.918001496	2.13699768	16.77854087	0.000316694414	0.009678944439	chr6	85039255	85039754
MRT_44120	1.917983871	2.114485021	19.26412087	1.55E-04	0.005531645421	chr1	80454021	80454520
MRT_258920	1.917917524	2.126736002	17.91310462	0.000218764000	0.007266764465	chr3	82039024	82039523
MRT_681928	1.917855785	2.243625096	21.03663651	8.30E-05	0.003409802751	chr9	37675883	37676382
MRT_907261	1.917522362	2.825687833	21.56602667	7.09E-05	0.003009158994	chr13	21291072	21291571
MRT_1086225	1.917515171	2.324763686	14.58021343	6.69E-04	0.01749236207	chr17	39169085	39169584
MRT_545454	1.917491146	2.604034132	16.29799034	0.000371582713	0.01097187539	chr7	28981181	28981680
MRT_106769	1.917196974	2.441159294	14.90352984	0.000597520790	0.01599534654	chr1	240993281	240993780
MRT_870909	1.916950018	1.979921578	21.90123651	0.000646506144	0.01701576268	chr12	59777208	59777707
MRT_1113680	1.916891897	2.181241759	20.78326803	8.96E-05	0.003612613732	chr18	5852465	5852964
MRT_36401	1.916829454	2.553502038	11.29232102	2.23E-03	0.04495561496	chr1	60614938	60615437
MRT_565383	1.916807609	2.341545739	31.81976353	7.67E-06	0.000541853703	chr7	76738543	76739042
MRT_459488	1.916426438	2.181835902	34.07127371	6.67E-05	0.00286845912	chr6	5442920	5443419
MRT_873251	1.916366304	2.572092259	26.20689568	1.92E-05	0.001086015196	chr12	65939568	65940067
MRT_630659	1.915893838	2.081498754	15.14934887	5.49E-04	0.01494765114	chr8	67189470	67189969
MRT_510346	1.915470284	2.503152307	17.90576552	0.000219281007	0.007273274234	chr6	129988850	129989349
MRT_672897	1.915203996	2.600268741	21.73484084	6.75E-05	0.002890822965	chr9	16041938	16042437
MRT_354650	1.915185382	3.115132101	13.2800332	1.06E-03	0.02520790906	chr4	125032955	125033454
MRT_670926	1.915085789	2.422159285	22.04454376	6.16E-05	0.00268006942	chr9	13112358	13112857
MRT_776441	1.915027409	2.642950751	26.0661244	1.99E-05	0.001119447251	chr10	123789326	123789825
MRT_635556	1.915006794	2.146741398	15.51812167	0.000483632100	0.01356612029	chr8	78922867	78923366
MRT_428113	1.914452348	3.108000825	10.95408011	0.002541794873	0.04968958246	chr5	123210409	123210908
MRT_1022117	1.914451938	2.144446129	19.97685	0.000114445519	0.004368216388	chr15	94516526	94517025
MRT_480990	1.91426588	2.306203284	12.87217885	0.001232850658	0.02814480017	chr6	47009812	47010311
MRT_875633	1.914067518	2.727963907	14.61767894	0.000660048041	0.01730037885	chr12	70291533	70292032
MRT_445193	1.913993866	2.528182588	11.11954644	0.002384032471	0.04731007551	chr5	157485857	157486356
MRT_837573	1.913970436	2.333511131	29.9856975	1.04E-05	0.000682246440	chr11	122118824	122119323

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_942900	1.913636665	2.281555912	27.07358787	2.22E-05	0.001222222623	chr13	111689248	111689747
MRT_258949	1.913582383	2.113441647	26.08849632	1.34E-04	0.004948515583	chr3	82083661	82084160
MRT_326757	1.913548098	2.267976224	20.73970844	9.08E-05	0.003641798147	chr4	44762486	44762985
MRT_155176	1.913461557	2.721468528	21.79383961	6.63E-05	0.002853530345	chr2	99485626	99486125
MRT_929231	1.9132387	2.420274874	20.12130736	1.09E-04	0.004214818981	chr13	74341231	74341730
MRT_487351	1.913127792	2.247381358	17.97180497	0.000214675649	0.007172858607	chr6	70558378	70558877
MRT_202626	1.91285026	2.53402403	11.94688455	0.001738839359	0.03700174684	chr2	210341148	210341647
MRT_973271	1.912277517	2.594121025	25.48037842	2.33E-05	0.001266631819	chr14	81916353	81916852
MRT_209781	1.911650356	2.125437994	12.87000184	0.001233835297	0.02816128595	chr2	225575677	225576176
MRT_176490	1.910552195	1.980563757	21.16004033	0.000675972046	0.01764120135	chr2	152037966	152038465
MRT_409979	1.909732466	2.416815674	24.97623075	2.68E-05	0.001405919329	chr5	76032395	76032894
MRT_874730	1.909612226	2.556244619	27.07555357	1.52E-05	0.000906023779	chr12	68769469	68769968
MRT_492099	1.909460271	2.26840513	22.45289725	5.47E-05	0.002444182249	chr6	83421420	83421919
MRT_96251	1.909438881	2.650444817	12.1477512	0.001612480498	0.03477594821	chr1	219736918	219737417
MRT_752771	1.909219687	2.231214587	23.31963184	4.88E-05	0.002239872331	chr10	76220474	76220973
MRT_501115	1.909215894	3.096204309	15.39228449	0.000504893005	0.01402487942	chr6	107988349	107988848
MRT_858344	1.909096601	2.273554589	29.88849951	2.31E-05	0.001258875003	chr12	29935082	29935581
MRT_202673	1.908930248	2.173091741	23.61220901	8.62E-05	0.003501668343	chr2	210430862	210431361
MRT_252361	1.908404976	2.651864478	31.85365101	4.53E-06	0.000363460147	chr3	65899989	65900488
MRT_1182011	1.908250691	2.102686095	17.91214153	0.000218831770	0.007266764465	chr20	12797357	12797856
MRT_17163	1.90788223	2.724084346	35.29949744	2.01E-06	0.000193119429	chr1	27125592	27126091
MRT_1121222	1.90736245	2.530042617	17.69590643	0.000234634391	0.007671982052	chr18	23047333	23047832
MRT_912097	1.907358032	2.250007074	33.23083956	2.82E-05	1.46E-03	chr13	30739957	30740456
MRT_516933	1.90727932	2.791338072	19.35409446	0.000138705873	0.005065540087	chr6	144282958	144283457
MRT_354237	1.90701336	2.401095701	18.91240137	1.59E-04	0.005644656954	chr4	124273718	124274217
MRT_361488	1.906795397	2.822730393	27.81219361	1.25E-05	0.000781774880	chr4	143327843	143328342
MRT_675559	1.906776985	2.158720147	14.05483553	0.000804735456	0.02023199558	chr9	20442646	20443145
MRT_655621	1.906258995	2.359644473	15.56142966	4.77E-04	0.01339570008	chr8	127509425	127509924
MRT_772574	1.906029752	2.225851196	19.11423989	0.000149476303	0.00535858605	chr10	116474111	116474610
MRT_297562	1.905970841	2.670431942	15.51216694	0.000484616172	0.01357460414	chr3	177697526	177698025

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_513019	1.905796657	2.547801694	24.15617589	3.36E-05	0.001665220055	chr6	135143132	135143631
MRT_567616	1.905722023	2.386790181	14.67215502	0.000647609322	0.01703335433	chr7	81965132	81965631
MRT_364470	1.905317098	2.499185868	11.37711814	0.002159110354	0.04382278807	chr4	148877252	148877751
MRT_6757	1.905310344	2.546887485	27.37445183	1.40E-05	0.000855711390	chr1	10901240	10901739
MRT_962525	1.905298155	2.88536722	36.78848384	1.44E-06	0.000150133822	chr14	61655619	61656118
MRT_1144244	1.904863409	3.00225135	37.63032539	1.19E-06	0.000130629443	chr18	77617053	77617552
MRT_636136	1.904665837	2.481648915	17.04818931	0.000289768609	0.00904594078	chr8	80856249	80856748
MRT_217183	1.904620526	3.209914236	34.97555339	2.17E-06	0.000204998565	chr2	239149278	239149777
MRT_504442	1.904504647	2.031707314	16.56016307	0.000506521877	0.01405166137	chr6	113685904	113686403
MRT_774962	1.904125289	2.52070214	27.52169658	1.35E-05	0.000830022052	chr10	121378612	121379111
MRT_265306	1.904109207	2.827011907	15.0846339	0.000561225395	0.01521968395	chr3	106684634	106685133
MRT_210549	1.904061013	2.008033508	18.76658326	6.61E-04	0.01732256073	chr2	227391553	227392052
MRT_445019	1.904059236	3.3418161	25.3658819	2.41E-05	0.001292986482	chr5	157246930	157247429
MRT_376905	1.903848231	2.102015982	17.57927311	2.44E-04	0.00791619157	chr4	182147540	182148039
MRT_149416	1.903639876	2.221573576	17.98143847	0.000214012574	0.007154473081	chr2	77749199	77749698
MRT_688860	1.903394247	2.10935332	16.88776918	0.000305476573	0.009415508069	chr9	85169256	85169755
MRT_437452	1.902657471	3.2497203	23.63851345	3.89E-05	0.001864136923	chr5	140938964	140939463
MRT_336780	1.902382019	2.51589768	12.30840809	0.001518544376	0.03315026805	chr4	77356703	77357202
MRT_675697	1.902360479	1.990155523	16.98461113	0.000741117029	0.0189743313	chr9	20700041	20700540
MRT_686422	1.902331284	2.392086628	13.08708492	0.001139696085	0.02654982705	chr9	79282235	79282734
MRT_21627	1.90209824	2.400283292	26.3488807	1.84E-05	0.001054323126	chr1	33857486	33857985
MRT_51066	1.901736382	2.470042164	23.71210188	3.81E-05	0.001837507075	chr1	95439054	95439553
MRT_428543	1.901726389	3.622967116	30.4584431	6.38E-06	0.000471393593	chr5	123986530	123987029
MRT_932312	1.901402227	2.394908456	14.13187053	0.000783059036	0.01981219027	chr13	81449176	81449675
MRT_636228	1.901394827	3.389604643	35.70173628	1.84E-06	0.000180916542	chr8	80997477	80997976
MRT_95412	1.901347967	1.94603312	15.68579849	0.001139787504	0.02654982705	chr1	218004505	218005004
MRT_60532	1.90118282	2.216355247	18.53753387	0.000179227664	0.006243384116	chr1	119107846	119108345
MRT_249688	1.900993694	2.344957105	12.0128367	1.70E-03	0.03626113147	chr3	59802937	59803436
MRT_430210	1.900836557	2.261778403	21.87531778	6.47E-05	0.002798277875	chr5	126752542	126753041
MRT_759529	1.900734649	2.851066935	20.69029622	9.21E-05	0.003680163265	chr10	90710733	90711232

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_12565	1.900578135	2.101012443	16.43688095	0.000354737510	0.0105790683	chr1	20652024	20652523
MRT_920940	1.90056311	2.236184138	11.86394245	1.79E-03	0.03794437879	chr13	47091185	47091684
MRT_640118	1.900487221	2.447793166	18.55888718	1.78E-04	0.006204700223	chr8	93091434	93091933
MRT_430163	1.900208619	2.258768194	22.80587598	4.94E-05	0.002258221138	chr5	126647765	126648264
MRT_510479	1.900131854	2.261288419	21.17918062	7.96E-05	0.003297464823	chr6	130259764	130260263
MRT_597801	1.900017429	3.485708773	26.42693733	1.81E-05	0.001039042603	chr7	150080786	150081285
MRT_155621	1.899832493	2.400489299	24.80439494	2.81E-05	0.001453781893	chr2	100308315	100308814
MRT_379312	1.899761387	2.635193419	16.02037198	4.08E-04	0.01181951923	chr4	186494903	186495402
MRT_110071	1.899085932	3.245948491	62.88738725	1.09E-08	3.58E-06	chr1	246945838	246946337
MRT_1004982	1.899044384	2.521373324	13.62934276	0.000936708557	0.02284869585	chr15	63547670	63548169
MRT_950275	1.898669946	2.914365413	12.79880595	1.27E-03	0.02875180003	chr14	32942666	32943165
MRT_1216887	1.89858945	2.008847462	25.22059541	0.000642488612	0.01694166333	chr21	36629597	36630096
MRT_1212734	1.898556964	2.968779564	35.59193365	1.88E-06	0.000183638626	chr21	27488689	27489188
MRT_44989	1.898540733	2.103942916	20.93484942	2.08E-04	0.007005734696	chr1	83311545	83312044
MRT_260970	1.898530458	2.121144194	14.13086877	7.83E-04	0.01981526636	chr3	90083036	90083535
MRT_490749	1.89844307	2.324580855	20.94294578	8.54E-05	0.003476694939	chr6	80094573	80095072
MRT_84657	1.898328935	1.925027111	18.76165384	1.35E-03	3.03E-02	chr1	196090232	196090731
MRT_565279	1.898283614	1.926023259	23.1184857	0.001405316272	0.03124309974	chr7	76512768	76513267
MRT_160284	1.897784725	2.300610823	23.65196307	3.88E-05	0.001857751061	chr2	111528519	111529018
MRT_265464	1.897753944	3.141732776	12.59584534	0.001364877339	0.03055831464	chr3	106927603	106928102
MRT_252226	1.897541934	2.698663417	14.74011751	0.000632443750	0.01671850159	chr3	65744814	65745313
MRT_106770	1.89672859	2.432833663	13.96572515	0.000830618652	0.02077184842	chr1	240994581	240995080
MRT_950288	1.896713653	2.714582872	13.86578674	8.61E-04	0.02135529338	chr14	32963635	32964134
MRT_1230419	1.896566648	2.594120287	44.53690221	2.98E-07	4.44E-05	chr22	29108380	29108879
MRT_294006	1.896332752	2.649946668	13.1000406	0.001134328049	0.0264925232	chr3	170807149	170807648
MRT_616120	1.896272916	2.515958976	27.19262925	1.47E-05	0.000884955400	chr8	29380188	29380687
MRT_122944	1.896073373	2.350222196	23.14983307	4.47E-05	0.002084153863	chr2	24588554	24589053
MRT_343869	1.896058934	2.104601459	18.25314921	0.000219572301	0.007278942325	chr4	95379884	95380383
MRT_962524	1.895901059	2.745656297	40.58399552	6.31E-07	7.92E-05	chr14	61654811	61655310
MRT_1043561	1.89584973	2.117597094	15.10460143	0.000557371268	0.01513458092	chr16	47918187	47918686

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_354730	1.895730799	2.353320649	12.20595934	0.001577741562	0.03415450987	chr4	125200864	125201363
MRT_620612	1.895488473	2.288966902	19.77607878	1.22E-04	0.004588161386	chr8	39750559	39751058
MRT_1119614	1.895481705	2.306122485	18.47040592	0.000183084001	0.006339414742	chr18	20427387	20427886
MRT_709574	1.895465948	3.778260871	30.16805396	6.86E-06	0.000498354373	chr9	127004996	127005495
MRT_954216	1.895335624	2.676962428	16.01872556	0.000408114116	0.01182063459	chr14	42692320	42692819
MRT_356677	1.89510021	2.079244354	15.9662783	4.15E-04	0.01199051964	chr4	130145022	130145521
MRT_1123821	1.895002826	2.204930164	16.59085305	3.37E-04	0.01018715473	chr18	31159552	31160051
MRT_974331	1.894893473	1.955129156	15.44221453	0.001155744844	0.02681622243	chr14	85708477	85708976
MRT_620294	1.894780439	4.143141428	26.3905174	1.82E-05	0.001045439331	chr8	38794524	38795023
MRT_500596	1.893984761	2.235982296	15.96345606	0.000415791845	0.01199648384	chr6	107197448	107197947
MRT_123016	1.893861977	2.479157732	18.80068436	0.000164930956	0.005796301736	chr2	24679803	24680302
MRT_634499	1.893853406	2.197642288	19.50229915	1.32E-04	0.00489987241	chr8	75373031	75373530
MRT_836960	1.893757021	2.527831083	19.73896703	1.23E-04	0.004634032922	chr11	121238198	121238697
MRT_594857	1.893482363	1.927650643	13.86126331	0.001522162589	0.03321401361	chr7	143312606	143313105
MRT_209905	1.89341144	2.143199571	29.41340449	0.000131290933	0.004869050948	chr2	225823631	225824130
MRT_320662	1.893262225	2.310164507	19.50624623	0.000132307791	0.004895311089	chr4	26237086	26237585
MRT_970421	1.893226531	3.365288419	40.71264072	6.14E-07	7.75E-05	chr14	75724005	75724504
MRT_467389	1.893143097	2.202889261	22.24715606	7.45E-05	0.003134842276	chr6	22133534	22134033
MRT_654571	1.892894155	2.977651043	17.30701638	2.66E-04	0.008464910367	chr8	125617542	125618041
MRT_85879	1.892846734	2.111321875	24.55846998	1.85E-04	0.006383355693	chr1	199251904	199252403
MRT_1179116	1.892810234	2.345270615	28.18979579	1.13E-05	0.000726559028	chr20	4594844	4595343
MRT_352480	1.89269076	2.641144884	15.72885727	0.000450153632	0.01279433862	chr4	119947002	119947501
MRT_545427	1.892687869	2.311683294	20.22210332	1.06E-04	0.004108330076	chr7	28939914	28940413
MRT_144576	1.892577796	2.659581578	24.99608411	2.66E-05	0.001401160757	chr2	68132647	68133146
MRT_613568	1.892421966	2.228750175	22.989814	6.14E-05	0.002675735852	chr8	24076207	24076706
MRT_296161	1.892400229	2.173790397	15.32647842	0.000516409826	0.0142593688	chr3	174926023	174926522
MRT_1094209	1.892305213	2.604130582	17.74577864	0.000230883903	0.007576695749	chr17	54250510	54251009
MRT_157347	1.892234277	2.180761957	28.43077216	9.05E-05	0.003636149301	chr2	103510332	103510831
MRT_387169	1.892214332	2.717123006	13.49576294	0.000982809507	0.02372999449	chr5	14036107	14036606
MRT_43650	1.892047453	2.247320156	17.9082958	0.000219102611	0.007270973491	chr1	79180803	79181302

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_297333	1.89184747	2.127693935	22.31714728	0.000155740535	0.005540868174	chr3	177408991	177409490
MRT_11264	1.891841608	2.478698457	19.69196654	0.000124924506	0.004682232518	chr1	18610289	18610788
MRT_1229254	1.891572471	2.116537557	18.12455739	0.000204416614	0.006912939365	chr22	27382436	27382935
MRT_419231	1.891410215	2.044263567	18.58038161	0.000483671539	0.01356612029	chr5	97174801	97175300
MRT_636087	1.891116807	2.716254084	21.72346268	6.77E-05	0.002896624997	chr8	80792272	80792771
MRT_419232	1.89078964	1.963844969	16.99151071	0.00111227327	0.02614903946	chr5	97175342	97175841
MRT_839524	1.890777736	3.107919893	22.92408857	4.77E-05	0.002201725655	chr11	125929082	125929581
MRT_618205	1.890758133	2.134744299	20.00491362	0.000151361311	0.005407240401	chr8	33643278	33643777
MRT_374159	1.890653144	2.310984982	20.38640464	0.000101001032	0.003947724163	chr4	173967818	173968317
MRT_613496	1.890380528	2.149719196	18.30040662	0.000193254449	0.006628240885	chr8	23842174	23842673
MRT_879866	1.89015411	2.51463202	11.78777554	0.001846511196	0.03877490084	chr12	80804554	80805053
MRT_889792	1.890081281	2.386614969	26.34886834	1.84E-05	0.001054323126	chr12	104196105	104196604
MRT_155613	1.890032228	2.483704587	28.08018159	1.17E-05	0.000740408174	chr2	100299019	100299518
MRT_883669	1.889889912	2.721832294	18.03067681	0.000210657688	0.007072143268	chr12	91746990	91747489
MRT_198855	1.889805041	2.614224191	27.82980457	1.25E-05	0.000779727140	chr2	202873655	202874154
MRT_544973	1.88933759	2.503252873	12.95567602	0.001195717493	0.02746669513	chr7	28094128	28094627
MRT_884747	1.889183287	2.671412595	23.80030859	3.72E-05	0.001801861055	chr12	93637553	93638052
MRT_201230	1.88896225	2.210804306	23.23469227	6.78E-05	0.002898931694	chr2	207243959	207244458
MRT_1080372	1.888616822	2.642739251	18.26259631	1.96E-04	0.006688724234	chr17	28851696	28852195
MRT_587737	1.888459879	2.572147524	38.69039687	9.46E-07	0.000108531299	chr7	129939585	129940084
MRT_192074	1.888358881	2.05853109	14.63478168	0.000656115444	0.01721152974	chr2	187770453	187770952
MRT_510398	1.887826449	2.544946787	19.08120026	1.51E-04	0.005399880018	chr6	130070789	130071288
MRT_524313	1.887520792	2.479633803	28.093125	1.16E-05	0.000739033294	chr6	158700580	158701079
MRT_337565	1.887402587	2.411249224	21.10579695	8.13E-05	0.00335628178	chr4	78620824	78621323
MRT_240094	1.886978588	2.552064659	29.77460933	7.57E-06	0.000536263150	chr3	43136225	43136724
MRT_476096	1.886828806	3.017701546	48.60954716	1.28E-07	2.34E-05	chr6	38137794	38138293
MRT_123002	1.886771551	2.5340068	36.35258855	1.58E-06	0.000161293529	chr2	24657372	24657871
MRT_349593	1.886682024	2.32209596	38.20589964	1.63E-05	0.000953440510	chr4	111076799	111077298
MRT_753137	1.8864697	2.362210967	26.93753099	1.58E-05	0.000930452407	chr10	76748488	76748987
MRT_1269486	1.886361742	2.013131515	18.34933795	0.000682803498	0.01778654733	chrX	129922846	129923345

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_538121	1.88628895	2.142176568	18.00892043	0.000212133053	0.007106625371	chr7	13591034	13591533
MRT_352374	1.886165996	2.182734148	25.06867168	9.88E-05	0.003885615824	chr4	119790638	119791137
MRT_120019	1.885938478	3.119991098	44.54425204	2.81E-07	4.25E-05	chr2	18059610	18060109
MRT_122996	1.885655718	2.327528345	25.84849046	2.11E-05	0.001174828913	chr2	24652617	24653116
MRT_873120	1.88551407	2.941992965	18.01970248	2.11E-04	0.007088848477	chr12	65786050	65786549
MRT_853197	1.885209359	2.307825422	13.94444234	0.000836932208	0.02090007083	chr12	18232782	18233281
MRT_620783	1.885137374	2.228219544	20.70487026	9.17E-05	0.003669799778	chr8	40029648	40030147
MRT_800281	1.884878643	2.649747409	22.79270652	4.96E-05	0.002262870477	chr11	36023757	36024256
MRT_1256520	1.884257859	2.393265624	15.34789531	5.13E-04	0.01417856313	chrX	49742204	49742703
MRT_1123847	1.884233161	1.883666096	13.37504091	0.002467354498	0.04859385721	chr18	31237756	31238255
MRT_844357	1.884163353	2.641521237	22.58860405	5.26E-05	0.002369776212	chr12	716638	717137
MRT_567708	1.884063201	2.121724907	20.35243766	0.000228429856	0.007511711791	chr7	82188636	82189135
MRT_1004489	1.883808177	2.271488355	20.72207301	9.12E-05	0.003653118082	chr15	62785100	62785599
MRT_572523	1.88347781	2.363125203	23.50921215	4.04E-05	0.001920717181	chr7	94728075	94728574
MRT_467482	1.883321458	2.085085933	14.19017763	0.000767070506	0.01949193883	chr6	22307276	22307775
MRT_349120	1.883174833	2.234419025	26.6941242	5.43E-05	0.002436007138	chr4	110100175	110100674
MRT_522044	1.883141728	3.013359632	30.34725872	6.56E-06	0.000480974383	chr6	154769519	154770018
MRT_932409	1.883089457	2.267075599	17.0945136	0.000285395870	0.008933341515	chr13	81622045	81622544
MRT_435104	1.88289404	2.229635749	15.41249945	0.000501410865	0.0139342563	chr5	137191937	137192436
MRT_613170	1.88287349	3.04143583	27.50016275	1.36E-05	0.000832624195	chr8	23210475	23210974
MRT_96184	1.882867508	2.176881433	16.23109854	3.80E-04	0.01117482253	chr1	219614865	219615364
MRT_354699	1.882857678	2.265165511	11.47842477	0.002077017906	0.04248975631	chr4	125134016	125134515
MRT_738632	1.88257647	2.256626843	16.85216491	0.000309085505	0.009492143093	chr10	37316573	37317072
MRT_653678	1.882532401	2.347253101	25.1932801	2.52E-05	0.001345600311	chr8	124006542	124007041
MRT_1001971	1.882251784	2.722176543	24.81508936	2.80E-05	0.001451858357	chr15	57508387	57508886
MRT_892242	1.882159582	2.114266605	27.0914854	0.000213166384	0.007129943349	chr12	108840926	108841425
MRT_407836	1.882090111	2.539711919	35.63752535	1.86E-06	0.000182406053	chr5	71577799	71578298
MRT_1106764	1.881570391	2.690910493	32.48832693	3.89E-06	0.000323323453	chr17	75124987	75125486
MRT_629860	1.881564251	2.185792512	16.04441945	0.000404596902	0.01174562682	chr8	64933436	64933935
MRT_618123	1.881097552	2.11553506	24.34064696	2.06E-04	0.006964953072	chr8	33487054	33487553

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_354542	1.880981092	2.647000404	13.11274603	0.001129090152	0.02640734285	chr4	124813332	124813831
MRT_862264	1.880937941	2.861568935	11.85434455	0.001800612077	0.03803778017	chr12	43685298	43685797
MRT_567540	1.88091143	2.323149267	11.2792542	0.002241747968	0.04510517888	chr7	81823295	81823794
MRT_1119580	1.880856395	2.248322452	16.26630053	0.000375545444	0.0110591899	chr18	20370566	20371065
MRT_267535	1.880819578	2.074073362	21.64663621	2.93E-04	0.009122975181	chr3	112080990	112081489
MRT_407851	1.880711635	2.645530343	36.63589872	1.49E-06	0.000154329057	chr5	71597455	71597954
MRT_907864	1.879685778	2.317672742	27.03817507	2.16E-05	0.001197204192	chr13	22152815	22153314
MRT_265451	1.87958518	2.275695492	15.76038858	0.000445362638	0.01268233607	chr3	106911944	106912443
MRT_743874	1.879576146	2.468442487	14.41516507	0.000708592708	0.01831166415	chr10	56560782	56561281
MRT_881889	1.879169361	2.064450285	21.94305858	3.58E-04	0.01065403829	chr12	88186850	88187349
MRT_1016337	1.879072011	2.174270353	19.40366368	0.000136585709	0.005008300633	chr15	82152051	82152550
MRT_187239	1.878725622	2.453986521	26.91726871	1.58E-05	0.000934163613	chr2	175625796	175626295
MRT_290276	1.878698571	2.493167222	17.71408635	2.33E-04	0.007634905958	chr3	159555484	159555983
MRT_617339	1.878398875	2.194368018	14.00190665	0.000820002787	0.02055825924	chr8	31809694	31810193
MRT_655973	1.878360268	2.385628548	19.20353352	1.45E-04	0.005246799694	chr8	128295607	128296106
MRT_264885	1.877771787	2.171961521	17.49457104	0.000250454371	0.00807066306	chr3	105844680	105845179
MRT_335723	1.877647155	2.163099008	17.15347387	2.80E-04	8.79E-03	chr4	74563959	74564458
MRT_881803	1.877603512	2.016257455	14.24190246	0.000753180899	0.01921202055	chr12	87778037	87778536
MRT_990533	1.877550893	2.183649065	23.19276989	9.79E-05	0.00386175777	chr15	33536608	33537107
MRT_805316	1.877342532	3.086674537	29.60351703	7.91E-06	0.000554954875	chr11	47939320	47939819
MRT_1234356	1.877154382	2.477993578	28.73988812	9.85E-06	0.000652242367	chr22	36246818	36247317
MRT_962578	1.876792505	2.518899841	31.01860705	5.56E-06	0.000423989115	chr14	61730551	61731050
MRT_544980	1.876722315	2.94191097	23.39982723	4.16E-05	0.001971305015	chr7	28101753	28102252
MRT_316476	1.876670832	2.60549093	15.70636559	0.000453604969	0.01286382987	chr4	16030893	16031392
MRT_990472	1.876610683	2.92344101	48.43471227	1.32E-07	2.39E-05	chr15	33424783	33425282
MRT_892241	1.876540576	1.990270026	20.56045299	8.60E-04	2.13E-02	chr12	108840408	108840907
MRT_954307	1.876488913	1.902881986	12.85317956	0.002338327571	0.04666133404	chr14	43011157	43011656
MRT_544965	1.876208842	2.374772791	12.38244752	0.001477255343	0.03247785869	chr7	28076855	28077354
MRT_5291	1.876157351	3.322482064	35.99726677	1.72E-06	0.000171588070	chr1	8908071	8908570
MRT_873291	1.875998421	2.961217183	27.33486146	1.42E-05	0.000862188193	chr12	65994940	65995439

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_445231	1.875460604	2.435937529	13.20514875	0.001091771545	0.02576255854	chr5	157549863	157550362
MRT_859792	1.875394266	2.307601414	19.33806834	0.000139398877	0.00508352998	chr12	32655583	32656082
MRT_746073	1.875359118	2.285084219	24.98489768	2.88E-05	0.001477141065	chr10	63553887	63554386
MRT_490676	1.875237456	2.440388439	29.00840778	9.19E-06	0.000619304778	chr6	79926830	79927329
MRT_635457	1.875036943	2.007523419	13.65209328	0.000929091732	0.02270528339	chr8	78577899	78578398
MRT_352493	1.874510982	3.000352117	12.88054408	0.001229075015	0.02808841632	chr4	119961687	119962186
MRT_179079	1.874372221	2.268424864	27.81027875	3.46E-05	0.001704213387	chr2	158865909	158866408
MRT_774778	1.873713805	2.754250423	29.58458234	7.94E-06	0.000556503517	chr10	121124357	121124856
MRT_652568	1.873462343	2.543914322	17.67709429	0.000236066059	0.007708857521	chr8	121082200	121082699
MRT_275431	1.873415793	2.477598409	32.99233754	3.45E-06	0.000294374925	chr3	127956498	127956997
MRT_620740	1.873304245	2.048387344	14.36460053	7.21E-04	0.01856073796	chr8	39964952	39965451
MRT_621232	1.8732862	2.800950352	17.04154551	0.000290401626	0.009054277255	chr8	40850092	40850591
MRT_517084	1.872889977	2.874805917	11.79539095	0.001841197009	0.03868893	chr6	144587157	144587656
MRT_354266	1.872668142	2.729394099	16.31922518	3.69E-04	0.01090809415	chr4	124322285	124322784
MRT_522182	1.872586215	2.601000061	17.68122062	2.36E-04	7.70E-03	chr6	154940594	154941093
MRT_962520	1.872456027	2.294854485	25.19345161	2.52E-05	0.001345600311	chr14	61650053	61650552
MRT_428059	1.872245351	3.039820059	13.46625046	0.000993320912	0.02394732267	chr5	123120061	123120560
MRT_926529	1.872088967	2.038706904	18.57183924	5.40E-04	0.0147782495	chr13	62884639	62885138
MRT_252253	1.872035121	2.574851601	16.92450732	0.000301800144	0.009333947686	chr3	65773921	65774420
MRT_646365	1.871682892	2.202350112	24.20051389	8.27E-05	0.003400231147	chr8	104370000	104370499
MRT_539282	1.871375157	2.935727144	14.34589235	0.000726069088	0.01865685712	chr7	16012715	16013214
MRT_586317	1.87085306	2.474575234	26.48803239	1.78E-05	0.001025613224	chr7	127908322	127908821
MRT_702937	1.870811908	2.918120127	19.39751425	0.000136846830	0.005014975694	chr9	113994470	113994969
MRT_596102	1.870785758	2.302012722	19.86995925	1.18E-04	0.00448152921	chr7	146731287	146731786
MRT_43992	1.870460033	2.072436072	13.89159991	0.000852832469	0.02120944185	chr1	80099296	80099795
MRT_142570	1.87044354	2.222060125	17.16040648	0.000279297727	0.008783646897	chr2	65022452	65022951
MRT_468387	1.870397876	2.56195278	12.62812247	0.001348697969	0.03027235791	chr6	24053324	24053823
MRT_743169	1.870375846	2.161992536	16.40558218	3.58E-04	0.01066252064	chr10	53745537	53746036
MRT_106185	1.87022349	1.994277803	16.56715727	9.80E-04	0.02366280303	chr1	239591500	239591999
MRT_908792	1.870056412	3.449308117	11.19206556	2.32E-03	0.04641407195	chr13	24044826	24045325

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_569530	1.869900979	3.768784967	69.11887712	4.22E-09	1.79E-06	chr7	87563238	87563737
MRT_932445	1.86976645	2.05465247	18.99516067	0.000484905919	0.01357972122	chr13	81715510	81716009
MRT_487471	1.869712444	2.019114243	16.95477896	0.000720469094	0.01854677839	chr6	70846828	70847327
MRT_894151	1.869701523	2.822106075	16.68115096	0.000327070339	0.009931443475	chr12	111618688	111619187
MRT_831901	1.869682411	2.398077896	17.87569688	0.000221412956	0.00732720428	chr11	112482919	112483418
MRT_60333	1.869428479	2.609554989	42.96773387	4.04E-07	5.54E-05	chr1	118619819	118620318
MRT_171228	1.869220589	2.180055544	21.72394509	1.35E-04	0.004980373641	chr2	136803729	136804228
MRT_44706	1.86912302	2.517602062	13.45526497	0.000997264466	0.0240195673	chr1	82385916	82386415
MRT_796236	1.868888478	3.028665651	11.1974831	0.002313416918	0.04633921689	chr11	27223373	27223872
MRT_361489	1.868876596	2.513682607	17.01131131	2.93E-04	0.009122975181	chr4	143329262	143329761
MRT_942902	1.868851373	2.485469512	33.8476355	2.82E-06	0.000251736151	chr13	111690924	111691423
MRT_1266193	1.868723815	2.503336713	12.05538003	0.001669312851	0.03579469589	chrX	114703969	114704468
MRT_796278	1.868637056	2.589418684	14.78416111	6.23E-04	0.01650882939	chr11	27268405	27268904
MRT_512980	1.868472187	2.083068764	24.82682102	3.44E-04	0.01033594534	chr6	135061071	135061570
MRT_703353	1.868462899	2.401409014	42.02939316	7.83E-06	0.000551211365	chr9	114723150	114723649
MRT_324161	1.868104541	2.584402511	24.71153285	2.88E-05	0.001478968814	chr4	38950122	38950621
MRT_53055	1.86798259	2.448808283	29.422859	8.27E-06	0.000572257139	chr1	100654604	100655103
MRT_873070	1.867877347	3.500931939	24.76650319	2.84E-05	0.001462539458	chr12	65720394	65720893
MRT_800273	1.867707366	2.236930004	23.90814268	5.49E-05	0.002452340065	chr11	36013164	36013663
MRT_32908	1.867434485	3.021585989	32.67539359	3.72E-06	0.000312436081	chr1	53661148	53661647
MRT_1213907	1.867395081	2.575677195	22.62937735	5.20E-05	0.002348956556	chr21	30478163	30478662
MRT_173419	1.867221407	2.477920447	11.01473889	2.48E-03	0.0488276209	chr2	144115482	144115981
MRT_248255	1.867219458	2.602478685	37.62691603	1.19E-06	0.000130629443	chr3	57163095	57163594
MRT_1079377	1.867093985	2.459684183	21.5472211	7.13E-05	0.003022922459	chr17	27367136	27367635
MRT_706714	1.866906256	2.194004591	14.39368268	7.14E-04	1.84E-02	chr9	122045844	122046343
MRT_82864	1.866622812	2.211326333	15.75802363	0.000445720068	0.01268966537	chr1	190142177	190142676
MRT_846013	1.866534345	2.398943097	23.34790853	4.23E-05	0.001992971283	chr12	3261089	3261588
MRT_786577	1.866450872	2.340344746	18.13495351	2.04E-04	0.006899650471	chr11	6884130	6884629
MRT_613991	1.866362385	2.174568895	15.69558376	0.000455269518	0.01289784545	chr8	25442124	25442623
MRT_882299	1.866318586	2.165569837	24.24255369	1.48E-04	0.00530923105	chr12	89433797	89434296

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_796165	1.866269722	2.22454211	21.98198471	7.63E-05	0.00318750914	chr11	27133329	27133828
MRT_372528	1.866217949	3.343707699	11.12232362	0.002381476564	0.04729171732	chr4	169554268	169554767
MRT_252961	1.866182372	1.978431676	16.93343231	0.000939480773	0.0229018075	chr3	66960656	66961155
MRT_219980	1.866023486	2.122234476	12.35302245	1.49E-03	0.03274077848	chr3	271381	271880
MRT_1130516	1.865784832	2.503316213	35.56642214	1.94E-06	0.000188028087	chr18	45820635	45821134
MRT_734187	1.865566567	2.42998786	20.98390666	8.43E-05	0.003452909274	chr10	30035038	30035537
MRT_520734	1.865472177	2.924254966	21.95199549	6.33E-05	0.002741563278	chr6	151612396	151612895
MRT_258685	1.865290141	2.090678134	22.30097338	0.000254725848	0.008170940381	chr3	81445217	81445716
MRT_799545	1.865026033	2.676862561	17.95254331	0.000216008058	0.007202199286	chr11	34653772	34654271
MRT_1131427	1.864332011	2.616918215	19.94921269	0.000115419521	0.004395500718	chr18	47145682	47146181
MRT_1248086	1.864293493	2.048961279	17.93288586	0.000520091619	0.01434560883	chrX	16006781	16007280
MRT_534915	1.864216818	2.586652931	29.19751924	8.76E-06	0.000596823097	chr7	5675900	5676399
MRT_1134060	1.863671441	2.399936326	13.07899323	0.001143062667	0.02659680981	chr18	53538376	53538875
MRT_788508	1.86296202	2.678351652	36.22436935	1.63E-06	0.000164827986	chr11	10339942	10340441
MRT_296113	1.862880452	2.139849858	17.51798248	2.49E-04	0.008023800806	chr3	174813477	174813976
MRT_880150	1.862608702	3.219688532	13.51818956	0.000974901994	0.02355700505	chr12	81331206	81331705
MRT_877396	1.862542993	2.509250856	11.09795919	0.002404001068	0.0475825642	chr12	76079594	76080093
MRT_681925	1.862499755	2.32506255	21.87383545	6.48E-05	0.002798543735	chr9	37668022	37668521
MRT_1120689	1.862068833	2.224304589	18.86755345	1.61E-04	5.70E-03	chr18	22082672	22083171
MRT_1233284	1.861889019	2.131614563	13.10677515	0.001131548434	0.0264453315	chr22	33501419	33501918
MRT_1254297	1.861759296	2.13332785	22.55977702	0.000225434230	0.007432473413	chrX	41551398	41551897
MRT_505276	1.861644169	2.076119645	15.42676111	4.99E-04	0.01389076624	chr6	116223046	116223545
MRT_72932	1.861393998	2.127048882	15.5568784	0.000477279491	0.01341055982	chr1	168535638	168536137
MRT_966178	1.860896922	4.204001436	12.23434165	1.56E-03	0.03386932827	chr14	68658337	68658836
MRT_550612	1.860800871	2.082647439	15.47368802	0.000491027318	0.01371481146	chr7	39278000	39278499
MRT_95549	1.860544644	1.969163055	19.28584946	0.001190506543	0.02739914842	chr1	218342722	218343221
MRT_527407	1.860310204	2.152157949	15.71205288	4.53E-04	0.01284884833	chr6	164210345	164210844
MRT_284223	1.860155673	2.210471775	17.27951082	2.69E-04	0.008534844626	chr3	146316358	146316857
MRT_438057	1.860119973	2.545045999	38.78588766	1.24E-06	0.000134302673	chr5	141805580	141806079
MRT_539048	1.859443573	2.88113534	12.19402404	0.00158479828	0.03427801928	chr7	15649162	15649661

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_929567	1.858497072	2.596478497	16.80106946	3.14E-04	0.00962104962	chr13	75149823	75150322
MRT_743236	1.858465311	2.416555555	14.66993401	6.48E-04	0.01704033426	chr10	53973153	53973652
MRT_220032	1.858435547	2.120797069	11.37441169	2.16E-03	0.04384721503	chr3	389230	389729
MRT_1191095	1.858434183	2.861237878	47.21791938	1.66E-07	2.85E-05	chr20	33932170	33932669
MRT_106316	1.858076619	2.17020965	18.51239311	0.000180661621	0.006277992136	chr1	239924725	239925224
MRT_782767	1.858039602	2.629671891	24.18903852	3.33E-05	0.001650602342	chr10	135430099	135430598
MRT_320617	1.858020148	3.004702296	11.60083743	0.001982290192	0.04096151748	chr4	26173527	26174026
MRT_836713	1.858020053	2.659256735	32.43731005	3.94E-06	0.000325598185	chr11	120802858	120803357
MRT_512713	1.857893922	2.260792519	25.27535324	3.82E-05	0.001839395822	chr6	134560091	134560590
MRT_524492	1.85756526	2.471322281	16.65709635	0.000329689008	0.00999421025	chr6	158921016	158921515
MRT_938923	1.857292388	2.386278047	25.07606526	2.61E-05	0.001381515179	chr13	100398683	100399182
MRT_320683	1.857281277	2.137623674	16.29346267	0.000372146123	0.01098150592	chr4	26268680	26269179
MRT_29582	1.857278262	2.142662216	23.90942338	0.000194570567	0.006664370332	chr1	47154263	47154762
MRT_492585	1.857235573	2.625761425	18.05585084	0.000208964308	0.007022728948	chr6	84761820	84762319
MRT_1246669	1.85702689	2.783217915	12.03265825	1.68E-03	0.03604232215	chrX	11119649	11120148
MRT_142484	1.856690627	2.463816367	27.47681262	1.37E-05	0.000835967317	chr2	64906270	64906769
MRT_445233	1.856678123	2.300976561	15.54042892	0.000479964691	0.01347406854	chr5	157552181	157552680
MRT_309076	1.856574053	2.388966603	25.41744363	2.37E-05	0.001281099775	chr4	1697611	1698110
MRT_14358	1.856513489	2.652394967	18.98959712	0.000155424974	0.005531645421	chr1	23165462	23165961
MRT_1196962	1.856511755	2.680260622	37.62449099	1.19E-06	0.000130629443	chr20	45187026	45187525
MRT_908998	1.856497595	2.306676735	12.69366972	1.32E-03	0.02965258113	chr13	24367708	24368207
MRT_1009764	1.856347982	2.148420308	11.708989	0.001902471723	0.0396350359	chr15	70979892	70980391
MRT_504837	1.856303332	2.317689533	20.43657551	9.95E-05	0.003902487281	chr6	114379850	114380349
MRT_65254	1.85603972	2.761114966	20.52278078	9.69E-05	0.003832662752	chr1	153463030	153463529
MRT_565236	1.855884553	2.080720142	20.42304691	0.000404889423	0.01174874059	chr7	76332765	76333264
MRT_858307	1.855720506	2.134113842	24.98224682	0.000203806512	0.006899650471	chr12	29864201	29864700
MRT_636213	1.855276242	2.344750865	22.23407325	5.83E-05	0.002567330126	chr8	80976670	80977169
MRT_670952	1.855149189	2.645080059	17.2581205	0.000270511045	0.008583937425	chr9	13144401	13144900
MRT_319025	1.855109672	2.176990164	26.17194113	1.07E-04	0.004130539273	chr4	22668762	22669261
MRT_1264006	1.85496246	2.573842195	12.58213148	0.001371814833	0.03066492113	chrX	102584838	102585337

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_567363	1.854660462	2.007142325	15.13431349	9.65E-04	0.02335502917	chr7	81452124	81452623
MRT_716900	1.854540738	2.864444091	46.744421	1.82E-07	3.06E-05	chr9	137462067	137462566
MRT_567070	1.853973511	2.518049511	12.96332312	0.001192377397	0.02741671575	chr7	80840877	80841376
MRT_966120	1.853949925	3.198448618	22.32348499	5.68E-05	0.002512637894	chr14	68591894	68592393
MRT_11262	1.853705263	2.834283544	16.67062415	3.28E-04	0.009960314117	chr1	18609044	18609543
MRT_38768	1.852969542	2.297177176	27.08796986	3.02E-05	0.001534156446	chr1	64979857	64980356
MRT_96378	1.852514907	2.660424799	11.56353684	2.01E-03	0.04142607535	chr1	219984880	219985379
MRT_379286	1.851778835	3.204562443	15.3600783	5.10E-04	0.01413404623	chr4	186456407	186456906
MRT_958018	1.850990872	2.262787353	15.90537843	0.000424027331	0.0121952568	chr14	53446327	53446826
MRT_839450	1.850668929	3.419453078	13.12344936	0.001124697854	0.02633500226	chr11	125822864	125823363
MRT_1053414	1.850585553	3.609215366	21.2601327	7.77E-05	0.003234676616	chr16	69213249	69213748
MRT_620295	1.850579466	3.547589762	30.75351171	5.93E-06	0.000444091118	chr8	38795104	38795603
MRT_155615	1.850198726	2.258805821	27.06880977	6.06E-05	0.002645144487	chr2	100300571	100301070
MRT_354365	1.850090992	3.115556744	12.19543821	0.001583960378	0.03426573949	chr4	124476247	124476746
MRT_252311	1.849973438	2.494688871	21.0102366	8.37E-05	0.00343214329	chr3	65841762	65842261
MRT_654581	1.849499281	2.722789805	23.74966434	3.77E-05	0.001822252035	chr8	125630681	125631180
MRT_617350	1.84941526	2.280612867	14.3087524	0.000735629485	0.01885806282	chr8	31829542	31830041
MRT_1208533	1.849405591	2.088099592	17.84702729	0.000376003293	0.01107010253	chr21	16494488	16494987
MRT_875478	1.849229511	2.662788092	24.13026638	3.39E-05	0.001674092479	chr12	70003455	70003954
MRT_853974	1.84919715	2.34537064	29.13884745	2.02E-05	0.001134082079	chr12	19551804	19552303
MRT_265423	1.848522567	2.587072238	17.73418697	0.000231749837	0.007597249639	chr3	106862785	106863284
MRT_958430	1.848055081	2.394991444	15.04080597	5.70E-04	0.01541229125	chr14	54072796	54073295
MRT_79976	1.848001246	3.32234923	24.33773323	3.20E-05	0.001603405677	chr1	182584680	182585179
MRT_204539	1.847375553	2.364836275	28.03429849	1.18E-05	0.000747788547	chr2	216266694	216267193
MRT_321688	1.84694967	2.023858618	14.57761313	7.73E-04	0.01959940671	chr4	29807425	29807924
MRT_786563	1.846314351	2.321461086	18.14849587	2.03E-04	0.006879462532	chr11	6846385	6846884
MRT_740576	1.845962582	2.729049557	44.9019641	2.61E-07	4.05E-05	chr10	45458722	45459221
MRT_896267	1.845912832	2.900714494	21.62040139	6.98E-05	0.002969097673	chr12	115110915	115111414
MRT_487434	1.845740696	1.979565168	11.89253971	1.77E-03	3.76E-02	chr6	70790488	70790987
MRT_674311	1.845563262	2.579674867	13.82388142	8.74E-04	0.02161785159	chr9	18261167	18261666

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_367010	1.84540288	3.254694855	13.1406183	0.001117690692	0.0262566587	chr4	154064985	154065484
MRT_772563	1.845257919	2.146959513	20.59104308	0.000232634318	0.007620394006	chr10	116455911	116456410
MRT_932691	1.845242205	1.953889518	14.61152591	0.001512385657	0.03307288293	chr13	82794667	82795166
MRT_492066	1.844792557	2.09074525	19.43641016	4.08E-04	0.01182063459	chr6	83318468	83318967
MRT_620645	1.844666186	2.861648432	14.89447559	0.000599400461	0.01602874935	chr8	39797354	39797853
MRT_297565	1.844609604	2.597102736	11.41139615	0.002130948209	0.04336152561	chr3	177703820	177704319
MRT_227573	1.84361234	2.718472506	15.36989476	0.000508780146	0.01409273227	chr3	15687486	15687985
MRT_109038	1.843489343	2.448288266	33.66240903	5.37E-06	0.000412266358	chr1	245461992	245462491
MRT_646338	1.843236256	2.22605792	25.09979152	7.81E-05	0.003250551501	chr8	104295216	104295715
MRT_428939	1.84313108	2.987799298	12.79390444	0.001268791689	0.02879278918	chr5	124661792	124662291
MRT_438158	1.842694247	2.712923634	30.21672372	6.78E-06	4.94E-04	chr5	141921850	141922349
MRT_762031	1.842647536	2.328567371	27.85896912	2.48E-05	0.001324091678	chr10	95677468	95677967
MRT_654580	1.842550824	2.556947344	18.10941512	0.000205409669	0.006940045272	chr8	125629119	125629618
MRT_209986	1.842286785	2.254089384	23.45624923	6.22E-05	0.002700124898	chr2	226029200	226029699
MRT_542282	1.842185484	2.28207963	18.96545369	0.000156606364	0.005565128196	chr7	23315607	23316106
MRT_599162	1.841594392	2.557990782	24.60819249	2.97E-05	0.001513409058	chr7	152224380	152224879
MRT_962406	1.841484509	2.171242873	24.75750478	0.000161408992	0.005699373077	chr14	61485579	61486078
MRT_422429	1.841012214	2.191309892	20.00561388	0.000164234237	0.005776618215	chr5	108461677	108462176
MRT_710004	1.8408635	2.424152188	33.96827583	8.28E-06	0.000572603812	chr9	127583075	127583574
MRT_690640	1.840701375	2.68389222	29.61520535	7.88E-06	0.000554161087	chr9	89103695	89104194
MRT_1068944	1.840415637	2.805243858	29.25243004	8.64E-06	0.000590345727	chr17	4503746	4504245
MRT_966113	1.840188878	4.590956647	14.33540736	7.29E-04	0.01871069712	chr14	68578379	68578878
MRT_1267577	1.840055002	2.129852336	16.24530853	3.78E-04	0.01113205881	chrX	119885200	119885699
MRT_794606	1.839980426	2.225050833	14.19805359	0.000764937905	0.0194429127	chr11	22476015	22476514
MRT_510279	1.839843371	2.356957217	19.32482446	0.000139974378	0.005098264229	chr6	129886768	129887267
MRT_1270376	1.839658774	2.427825164	17.00280878	0.00029412216	0.009128467928	chrX	133677231	133677730
MRT_185695	1.839550688	2.270161566	28.87285815	4.66E-05	0.002153708868	chr2	172896360	172896859
MRT_351015	1.839510324	3.068811202	13.56855131	0.000957393314	0.02323130354	chr4	114307071	114307570
MRT_962192	1.838983926	3.58460457	12.74779774	0.001290489665	0.02919692582	chr14	61119685	61120184
MRT_342401	1.838806144	2.558908757	27.07950818	1.52E-05	0.000905803961	chr4	89658770	89659269

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1261914	1.838785538	2.165855512	15.23836981	0.000532274445	0.01461899025	chrX	82762978	82763477
MRT_58350	1.838665526	2.579005359	11.14557149	0.002360196657	0.0469742819	chr1	114564377	114564876
MRT_467514	1.838173236	2.531925895	23.32503057	4.25E-05	0.002003031608	chr6	22364121	22364620
MRT_1082688	1.838137426	2.653221889	17.56983929	0.000244409926	0.007930286151	chr17	33373630	33374129
MRT_142486	1.837285483	2.43257138	23.69428721	3.83E-05	0.001842588532	chr2	64907430	64907929
MRT_1198276	1.837108396	2.581694562	29.09979873	8.98E-06	0.000607933781	chr20	47299875	47300374
MRT_1271495	1.837105915	2.321371953	13.73632556	0.000901466401	0.02216684558	chrX	139846478	139846977
MRT_78011	1.836637384	2.190293244	20.68768568	0.000106437863	0.004115835347	chr1	178898146	178898645
MRT_979417	1.83663653	2.497262342	28.64209323	1.01E-05	0.000665347265	chr14	95929600	95930099
MRT_875103	1.836599809	2.333149707	38.379782	2.66E-05	0.001400815099	chr12	69401442	69401941
MRT_354488	1.836530403	2.630448993	20.13060681	1.09E-04	0.004204137214	chr4	124708800	124709299
MRT_60385	1.836240353	2.574759175	33.8587291	2.81E-06	0.000251328009	chr1	118693664	118694163
MRT_17331	1.835793258	3.418700769	15.92308295	0.000421498374	0.01213077487	chr1	27386003	27386502
MRT_962190	1.835579737	3.732589026	30.7702944	5.91E-06	0.000443287790	chr14	61116588	61117087
MRT_309899	1.835519754	2.788220497	33.18077421	3.30E-06	0.000284754343	chr4	2869332	2869831
MRT_128511	1.835513966	3.391702466	55.77063545	3.53E-08	8.51E-06	chr2	33701115	33701614
MRT_569742	1.835226986	2.13521415	23.23613358	2.46E-04	0.007966905541	chr7	88107037	88107536
MRT_408693	1.835100044	2.559260751	15.49568036	0.000487351982	0.01363160491	chr5	73242963	73243462
MRT_337270	1.834673412	2.423910642	25.47935398	2.33E-05	0.001266631819	chr4	78095509	78096008
MRT_153885	1.834328243	3.229931218	20.97657165	8.45E-05	0.003457161857	chr2	97075491	97075990
MRT_1230418	1.83403991	2.569250967	34.51256857	2.41E-06	0.000222814094	chr22	29107736	29108235
MRT_1060281	1.834009033	2.956926934	11.17838002	2.33E-03	0.04654935698	chr16	81272982	81273481
MRT_176468	1.833851019	2.036601103	17.41937443	0.000619693580	0.01644325498	chr2	151994462	151994961
MRT_504441	1.833650286	2.296463024	14.62140279	0.000659189626	0.01728502317	chr6	113683865	113684364
MRT_1114216	1.833488295	2.564998194	23.79710442	3.72E-05	0.001802802929	chr18	6713927	6714426
MRT_567539	1.833349801	2.076651967	12.30896379	0.00151822989	0.03315026805	chr7	81822156	81822655
MRT_62356	1.831960065	3.420996313	37.95117847	1.11E-06	0.000123492597	chr1	145449165	145449664
MRT_1155155	1.831954946	4.258487203	24.0442678	3.47E-05	0.001707011703	chr19	16936164	16936663
MRT_618218	1.831934238	2.349846065	21.72833541	6.76E-05	0.002893441453	chr8	33660995	33661494
MRT_141985	1.831788305	2.369157913	21.00152149	8.39E-05	0.003439170742	chr2	64046737	64047236

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_545444	1.831726075	2.448246749	20.45518111	9.89E-05	0.003887310595	chr7	28965970	28966469
MRT_704397	1.83132924	3.706469138	17.56721859	0.000244617727	0.007933646377	chr9	116364378	116364877
MRT_565249	1.831067821	1.974320996	19.93549536	1.35E-03	0.03031485982	chr7	76410032	76410531
MRT_931780	1.83100165	2.137345311	17.5269537	0.000298978048	0.009262477237	chr13	80489499	80489998
MRT_321834	1.830657383	3.284164501	14.31988409	7.33E-04	0.01879805775	chr4	30718988	30719487
MRT_767433	1.830348247	3.120992902	14.0322319	8.11E-04	0.02037022079	chr10	104912865	104913364
MRT_1062374	1.829832845	3.726920546	52.25721979	6.54E-08	1.38E-05	chr16	85160313	85160812
MRT_361464	1.829718967	2.638560677	21.04053036	8.29E-05	0.00340803748	chr4	143287952	143288451
MRT_209787	1.829553378	2.262927184	12.88638185	0.001226447525	0.02804313058	chr2	225587588	225588087
MRT_1165059	1.829271329	2.733455203	58.75280568	9.11E-08	1.79E-05	chr19	39353742	39354241
MRT_130415	1.829184232	2.768177334	15.92590442	0.000421096848	0.01212573209	chr2	38726783	38727282
MRT_348991	1.829123726	2.032546805	17.59362821	0.000795387934	0.02005212348	chr4	109800040	109800539
MRT_565388	-1.829003974	5.384504451	15.76729395	4.44E-04	1.27E-02	chr7	76751560	76752059
MRT_155598	1.828980074	2.57262887	17.01009774	0.000293418185	0.009123658288	chr2	100277294	100277793
MRT_567944	1.828485868	2.233102225	21.62423852	8.20E-05	0.003377139374	chr7	83068369	83068868
MRT_1261720	1.827861816	2.013319985	12.11305104	1.63E-03	0.03517011646	chrX	80841620	80842119
MRT_1233222	1.827781282	2.387220252	16.50466731	0.000346815924	0.01039906642	chr22	33387514	33388013
MRT_690696	1.827099574	2.344047581	29.17246793	2.66E-05	0.001401160757	chr9	89177524	89178023
MRT_999196	1.826446875	2.711029327	22.80938942	4.93E-05	0.002256749466	chr15	51176687	51177186
MRT_601201	1.826295024	2.914018191	18.83076164	0.000163376604	0.005756030056	chr7	156635317	156635816
MRT_504325	1.826276425	2.197886592	12.13834523	0.001618171039	0.0348808813	chr6	113433139	113433638
MRT_512282	1.826011692	2.713904063	13.57703823	0.000954476260	0.02317382122	chr6	133870452	133870951
MRT_567991	1.825979607	2.175463012	13.77576418	0.000888837098	0.02189874992	chr7	83153941	83154440
MRT_214856	1.825969118	2.263427704	20.82537911	8.85E-05	0.003576219553	chr2	235346394	235346893
MRT_775985	1.825926612	2.353395882	14.11171512	0.000788669046	0.01991836916	chr10	123204921	123205420
MRT_36078	1.825749564	2.110258005	20.91162215	2.73E-04	8.63E-03	chr1	59907251	59907750
MRT_265461	1.825591062	2.899228294	16.39828617	0.000359334471	0.01067849774	chr3	106924863	106925362
MRT_1155249	1.825584324	2.313879366	20.29478709	1.04E-04	0.004036844586	chr19	17068178	17068677
MRT_1051203	1.825256839	2.392358201	16.41968889	3.57E-04	0.01062491221	chr16	66078156	66078655
MRT_994963	1.825038158	2.48124623	46.46209502	3.62E-06	0.000306940287	chr15	42084094	42084593

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_752923	1.824551596	2.235976036	19.90778543	0.000116896219	0.004437717777	chr10	76464680	76465179
MRT_1237686	1.824138191	2.72127111	49.7308064	1.37E-07	2.48E-05	chr22	41080758	41081257
MRT_248225	1.823804133	2.631968291	19.43259897	0.000135364203	0.004979345519	chr3	57125555	57126054
MRT_872677	1.82355468	2.60756026	36.65552847	1.48E-06	0.000154072546	chr12	65085231	65085730
MRT_996404	1.823485043	2.334934803	32.14927975	2.80E-05	1.45E-03	chr15	44567276	44567775
MRT_736755	1.823239308	2.777993757	17.62390605	0.000240164897	0.007818550965	chr10	34405768	34406267
MRT_596111	1.823189907	2.057752264	18.91144213	0.00070993946	0.01833899419	chr7	146749914	146750413
MRT_326758	1.822946449	2.28170684	14.92189681	0.000593727247	0.01592741154	chr4	44763106	44763605
MRT_349204	1.822933368	2.13122318	24.00550972	0.000274949544	0.00868737304	chr4	110333907	110334406
MRT_733023	1.822744157	2.358604972	25.68041094	2.30E-05	0.001256125639	chr10	28072583	28073082
MRT_330669	1.822010323	2.408450164	24.23424844	3.29E-05	0.001636873375	chr4	57541481	57541980
MRT_654583	1.821781125	2.637342186	23.2881355	4.30E-05	0.002021219791	chr8	125631776	125632275
MRT_940522	1.821666023	2.105955545	14.99343211	5.79E-04	0.01561690562	chr13	103945831	103946330
MRT_297332	1.821624916	2.187580508	21.86478612	0.000147366644	0.005302439981	chr3	177408151	177408650
MRT_774782	1.821467155	2.728637575	48.77523148	1.24E-07	2.27E-05	chr10	121128732	121129231
MRT_204814	1.821304282	2.13915589	17.93391494	2.72E-04	0.008612118197	chr2	216745595	216746094
MRT_620731	1.82118916	2.299230422	15.54699696	0.000478890585	0.01345284794	chr8	39948163	39948662
MRT_50785	1.821137339	2.207710017	23.68109509	0.000126427361	0.004724598685	chr1	95016436	95016935
MRT_917456	1.820891695	2.166407357	16.47505039	3.50E-04	0.01048478465	chr13	41131109	41131608
MRT_296323	1.820772396	2.124224381	16.46063898	0.000351939202	0.0105115394	chr3	175324214	175324713
MRT_707747	1.820307449	3.209452594	12.94822677	1.20E-03	0.02752426043	chr9	124113254	124113753
MRT_353892	1.820040396	3.125076123	12.74717278	0.00129078651	0.02919843342	chr4	123704446	123704945
MRT_1237703	1.819473485	2.744125869	23.23005107	4.37E-05	0.002046765039	chr22	41105691	41106190
MRT_735113	1.819373782	2.934413883	13.02749811	1.16E-03	0.02696762481	chr10	31324210	31324709
MRT_264284	1.819207233	2.127145388	12.78972107	0.001270744083	0.02882120785	chr3	104131734	104132233
MRT_816341	1.819201722	2.63696888	21.74080446	6.73E-05	0.00288867199	chr11	74154101	74154600
MRT_765846	1.819074814	3.164981683	13.04975617	0.001155316467	0.02681306656	chr10	102660657	102661156
MRT_1230564	1.818908739	2.889678717	27.44908358	1.38E-05	0.000841106482	chr22	29314767	29315266
MRT_1212635	1.81868273	2.491655922	29.07050856	9.05E-06	0.000611185110	chr21	27370613	27371112
MRT_101758	1.818582665	2.250573554	14.99009149	5.80E-04	0.01563164623	chr1	229999800	230000299

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_258979	1.818568861	2.224313778	15.3470861	5.13E-04	0.01417856313	chr3	82129862	82130361
MRT_702633	1.818506545	2.515884373	11.51779097	0.002046032519	0.04202534227	chr9	113413191	113413690
MRT_593248	1.818400891	2.447400564	21.02029572	8.34E-05	0.003424310354	chr7	140104398	140104897
MRT_1203548	1.818113185	2.656216432	10.9970019	0.002499816539	0.04907979804	chr20	56706654	56707153
MRT_732734	1.818000992	2.24849058	22.80155886	7.26E-05	0.003068641679	chr10	27535821	27536320
MRT_880058	1.8179951	2.49766535	19.14724199	0.000147942525	0.005314115643	chr12	81157703	81158202
MRT_407908	1.817423757	2.108978785	24.77059977	4.01E-04	0.01166900718	chr5	71688019	71688518
MRT_538805	1.817219419	2.869159339	13.67047794	9.23E-04	2.26E-02	chr7	15260638	15261137
MRT_539368	1.817049641	2.488539788	16.40253886	0.000358824814	0.01066585107	chr7	16126274	16126773
MRT_996352	1.817021453	2.269117195	13.6730973	9.22E-04	0.02256741215	chr15	44394791	44395290
MRT_209927	1.816697285	2.538774268	31.39109607	5.07E-06	0.000395534402	chr2	225867314	225867813
MRT_349110	1.816006164	2.076536781	18.16131261	5.54E-04	0.01507931226	chr4	110076964	110077463
MRT_732778	1.815749371	2.358625496	17.77054007	2.29E-04	0.007528062096	chr10	27643513	27644012
MRT_796122	1.81558011	2.628933792	21.14459323	8.04E-05	0.003325172943	chr11	27062932	27063431
MRT_732984	1.815575895	2.282360763	19.16939811	0.000146922304	0.005289453197	chr10	27990961	27991460
MRT_1120783	1.815449123	2.098173036	15.26977994	0.000526559480	0.01449026799	chr18	22218297	22218796
MRT_732777	1.815335283	2.132930272	14.54700283	0.000676570376	0.01764955308	chr10	27642841	27643340
MRT_354267	1.81528886	3.132442595	18.12414053	0.000204443883	0.006912939365	chr4	124322968	124323467
MRT_44797	1.815233933	2.079601688	17.93317073	0.000501202705	0.01393226451	chr1	82617993	82618492
MRT_487515	1.815146094	2.033551994	13.08790988	0.00113935346	0.02654982705	chr6	70923871	70924370
MRT_155212	1.815078755	2.949044964	18.32823551	1.92E-04	0.006580773304	chr2	99529782	99530281
MRT_202669	1.814835008	2.363229974	23.30558357	4.28E-05	2.01E-03	chr2	210422310	210422809
MRT_933812	1.814731824	2.264165913	14.6432042	0.000654188048	0.01716807096	chr13	87776250	87776749
MRT_908781	1.814682886	2.25639251	21.41545973	8.22E-05	0.003386128252	chr13	24030206	24030705
MRT_94251	1.814511025	2.43442856	21.79177395	6.63E-05	0.002854298239	chr1	214619174	214619673
MRT_882468	1.814070363	3.438460848	27.32569958	1.42E-05	0.000863030035	chr12	89740025	89740524
MRT_364320	1.813563132	2.268311087	27.78084177	7.93E-05	0.003288665315	chr4	148694306	148694805
MRT_569698	1.813488041	1.960427221	13.70877199	0.001766905752	0.03748807698	chr7	87981090	87981589
MRT_942892	1.813374416	2.338325621	27.42207737	3.22E-05	0.001613715007	chr13	111679934	111680433
MRT_613549	1.813349691	2.06373973	14.27391208	0.000744721194	0.01903586617	chr8	24010866	24011365

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1210663	1.813191177	2.195624505	13.64513101	0.000931415578	0.02275330576	chr21	20234573	20235072
MRT_75014	1.81268363	2.811750505	17.1875371	2.77E-04	0.008734121232	chr1	172421674	172422173
MRT_751459	1.812571325	2.294217605	19.27436911	0.000142190357	0.005154207429	chr10	74177763	74178262
MRT_1194451	1.812035233	2.296648008	23.87397864	4.85E-05	0.002230470473	chr20	40011476	40011975
MRT_300740	1.811886814	2.219536135	17.35824195	2.62E-04	0.008345582258	chr3	184214342	184214841
MRT_642250	1.811723886	2.243943266	20.67456841	0.000107547569	0.004152416563	chr8	97623054	97623553
MRT_419366	1.811339373	2.097610366	16.25810418	5.28E-04	0.01451231306	chr5	97635740	97636239
MRT_476215	1.811165937	2.381855651	19.28832877	0.000141573509	0.005140662597	chr6	38322918	38323417
MRT_42646	1.810939954	1.94032659	15.42078616	2.07E-03	0.04233584815	chr1	76839798	76840297
MRT_636190	1.810892636	2.671813064	22.31178786	5.70E-05	0.002519453129	chr8	80936445	80936944
MRT_151402	1.809757428	2.901642111	14.96861773	0.000584193745	0.01573155617	chr2	85969327	85969826
MRT_14315	1.809704613	2.708571567	26.05161676	2.00E-05	0.001122883256	chr1	23105255	23105754
MRT_44985	1.809638631	2.006371622	23.87356362	1.14E-03	0.02654766662	chr1	83303357	83303856
MRT_171271	1.809508452	2.271286788	16.62094042	0.000333667559	0.01009792204	chr2	136864292	136864791
MRT_330667	1.809179506	2.080148264	18.18950452	5.07E-04	0.01406946656	chr4	57537792	57538291
MRT_64374	1.80914134	2.661921375	17.0797278	2.87E-04	0.008965722763	chr1	151451373	151451872
MRT_772552	1.808891829	2.481054605	27.85840883	1.24E-05	0.000775463218	chr10	116441333	116441832
MRT_230906	1.8087193	2.37411773	29.90696004	1.87E-05	0.001065464758	chr3	24058835	24059334
MRT_374140	1.80865016	2.386507759	49.5648451	1.72E-05	0.000999082971	chr4	173935321	173935820
MRT_1213051	1.808226753	2.802599763	13.33582938	0.001041244674	0.02483362675	chr21	28339255	28339754
MRT_45580	1.807448171	2.535240651	20.1916658	1.07E-04	0.004139065536	chr1	84630120	84630619
MRT_823675	1.807412822	2.030007036	18.19910438	1.06E-03	0.02524398577	chr11	91523524	91524023
MRT_264067	1.807176389	2.03885616	11.60552301	0.001978758221	0.04090186118	chr3	103010549	103011048
MRT_505581	1.806438549	2.65397445	22.00481358	6.23E-05	0.002703108382	chr6	116832514	116833013
MRT_79169	1.806293876	2.723242549	40.11239417	6.97E-07	8.54E-05	chr1	180892211	180892710
MRT_1099751	1.806224099	2.558902658	11.28762604	0.002234546819	0.04501004832	chr17	62675708	62676207
MRT_892211	1.805935465	2.556042847	25.33167379	2.43E-05	0.001303736077	chr12	108788057	108788556
MRT_610477	1.805873243	2.637487053	11.11354923	0.002389561966	0.04737069434	chr8	17768042	17768541
MRT_752747	1.805324929	2.103493931	17.98487898	0.000479700069	0.01346962113	chr10	76179080	76179579
MRT_487356	1.805152116	2.646472727	22.44503393	5.48E-05	0.002448149541	chr6	70576184	70576683

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_821889	1.805003138	2.467272553	22.15533184	5.96E-05	0.002617944385	chr11	85872873	85873372
MRT_879794	1.804784103	2.178604592	27.2223559	2.06E-04	0.006964953072	chr12	80646443	80646942
MRT_975961	1.804624447	2.258290572	18.43574235	0.000185110152	0.006386904547	chr14	90225419	90225918
MRT_823710	1.804291751	2.25404556	14.33069838	0.000729963987	0.01873733155	chr11	91604419	91604918
MRT_962431	1.804242969	2.286025436	33.38120633	4.73E-05	0.002185751806	chr14	61532342	61532841
MRT_635993	1.804045876	2.403647296	24.84630413	2.78E-05	0.001442696213	chr8	80653722	80654221
MRT_582831	1.803947714	2.606723205	13.60581062	0.000944657876	0.02299265728	chr7	116799155	116799654
MRT_155812	1.803857811	2.298054004	20.46030755	9.88E-05	0.003885615824	chr2	100601024	100601523
MRT_610434	1.803805284	2.724476089	11.29760376	0.00222599695	0.044885866	chr8	17706961	17707460
MRT_297264	1.803594375	3.899704358	11.18919941	0.002320814071	0.04642140543	chr3	177314605	177315104
MRT_80617	1.803343957	2.399538839	16.93157052	0.000301098787	0.009314527698	chr1	183663860	183664359
MRT_325678	1.803132674	2.706638277	13.28545503	0.001060416749	0.02517254314	chr4	41144944	41145443
MRT_587736	1.803009485	2.588374768	34.3768587	2.49E-06	0.000228115743	chr7	129938579	129939078
MRT_129863	1.802939218	1.930748571	15.36235106	0.002422227121	0.04786861245	chr2	37768632	37769131
MRT_487460	1.802882769	2.35152289	15.4357236	0.000497442237	0.01385736629	chr6	70834982	70835481
MRT_1134149	1.802730153	2.438012686	23.39936333	4.17E-05	0.001971305015	chr18	53710809	53711308
MRT_565487	1.802223356	2.340185877	24.29442015	3.24E-05	0.001618445116	chr7	76950502	76951001
MRT_669877	1.80207718	2.010870172	16.45333531	0.00130262207	0.02939277133	chr9	9552555	9553054
MRT_517126	1.802075031	2.381418634	24.55447129	3.01E-05	0.001531187998	chr6	144655084	144655583
MRT_411006	1.801918224	2.17791806	18.36348795	2.20E-04	0.007299911726	chr5	77973656	77974155
MRT_511859	1.801839687	2.929470804	11.17689692	2.33E-03	0.04656026493	chr6	133285161	133285660
MRT_1120780	1.801497624	2.54459732	16.46226956	0.000351748018	0.0105115394	chr18	22212241	22212740
MRT_505543	1.801271592	2.409707074	19.05776396	1.52E-04	0.00543107939	chr6	116759963	116760462
MRT_51064	1.801261982	2.400015791	32.44211515	1.42E-05	0.000862188193	chr1	95437144	95437643
MRT_766468	1.801020507	3.098727488	28.98953305	9.24E-06	0.000620306917	chr10	103528343	103528842
MRT_151543	1.80098176	2.42473391	27.6725912	1.30E-05	0.000804476767	chr2	86151549	86152048
MRT_864040	1.800930545	2.055286955	16.92192684	0.000849230628	0.02114059225	chr12	47353226	47353725
MRT_930109	1.800867608	2.285763606	14.24096433	0.000753430390	0.01921202055	chr13	76338338	76338837
MRT_51072	1.800630121	2.811226857	23.20830223	4.40E-05	0.002057152786	chr1	95446306	95446805
MRT_517121	1.800428599	2.330501554	22.72998098	5.05E-05	0.002296607566	chr6	144648232	144648731

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_884745	1.799397901	2.268315224	15.7357592	0.000449100206	0.01277156404	chr12	93636191	93636690
MRT_570085	1.799380793	2.277378838	13.93092691	0.000840968379	0.02097608328	chr7	89808093	89808592
MRT_319060	1.798958244	2.204275672	18.26150649	0.000195666011	0.00668924607	chr4	22746135	22746634
MRT_394153	1.79884617	2.210409616	16.0948044	0.000397794023	0.01159857636	chr5	35247450	35247949
MRT_116372	1.798629796	2.341654811	16.08958755	3.98E-04	0.01161360678	chr2	10738030	10738529
MRT_962176	1.798579761	2.654458562	22.07317182	6.11E-05	0.002664093996	chr14	61099374	61099873
MRT_1051029	1.798403891	2.250823019	16.78565895	0.000315950055	0.009665511174	chr16	65820825	65821324
MRT_374194	1.798381607	2.224477993	20.78614163	0.000150417979	0.005384734413	chr4	174042078	174042577
MRT_1018027	1.798096573	2.489828009	24.36005498	3.18E-05	0.001596601386	chr15	86043944	86044443
MRT_870860	1.79808347	1.960597091	17.98173945	0.001675298457	0.03589876745	chr12	59579900	59580399
MRT_722269	1.797764764	2.395137572	14.54828606	0.000676266452	0.0176452539	chr10	5062278	5062777
MRT_544909	1.797440366	2.158910841	13.99295459	0.000822615703	0.02061461728	chr7	27976564	27977063
MRT_249592	1.797152819	2.419572459	11.66703003	0.001933018922	0.04011330529	chr3	59630549	59631048
MRT_1090533	1.796656804	3.899316666	13.05700555	0.001152264974	0.02675973527	chr17	46080292	46080791
MRT_24769	1.796566198	3.116270319	17.37193102	0.000260649828	0.008316795043	chr1	39630620	39631119
MRT_336871	1.796476668	2.459740921	14.49266276	0.000689576360	0.01791465979	chr4	77500578	77501077
MRT_962197	1.796333218	2.871197034	40.3329932	6.65E-07	8.22E-05	chr14	61124801	61125300
MRT_669792	1.795824867	2.104082037	12.8222875	0.001255630288	0.02856108536	chr9	9215421	9215920
MRT_50790	1.795531339	2.630585095	22.81207482	4.93E-05	0.002256631813	chr1	95020086	95020585
MRT_466448	1.795429559	2.39007098	13.26834041	1.07E-03	2.53E-02	chr6	20508476	20508975
MRT_1048183	1.795035302	2.731992486	29.52813174	8.06E-06	0.000562429927	chr16	56944293	56944792
MRT_1228872	1.795025271	2.102555877	23.3268919	0.000467973883	0.01320173478	chr22	26770223	26770722
MRT_82490	1.794964837	2.069142783	19.66374182	0.000644865685	0.01699144134	chr1	188122639	188123138
MRT_526216	1.794827755	2.136866379	17.09263659	4.00E-04	0.01165343358	chr6	161965742	161966241
MRT_428934	1.794798672	2.222390607	18.82600977	1.64E-04	5.76E-03	chr5	124653145	124653644
MRT_863860	1.794504081	2.403570258	15.39002767	0.000505283366	0.01403264954	chr12	46953818	46954317
MRT_428045	1.794413569	3.216035704	11.18538205	0.00232423148	0.04647510257	chr5	123091324	123091823
MRT_527483	1.794359848	2.171731636	13.35055111	0.001035712468	0.0247249304	chr6	164376710	164377209
MRT_248266	1.79384351	2.641899749	47.32092165	6.60E-07	8.19E-05	chr3	57175746	57176245
MRT_1139036	1.79328128	2.054144948	12.24005455	0.001557768877	0.03381448875	chr18	66447728	66448227

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_740656	1.793210706	2.248506978	15.41795898	0.000500474869	0.01392044508	chr10	45622876	45623375
MRT_1099584	1.793173853	2.978036087	18.18654137	0.00020040505	0.006812697429	chr17	62405353	62405852
MRT_731491	1.792735093	2.274539133	13.95013818	0.000835237485	0.02086596636	chr10	24629649	24630148
MRT_657492	1.792727748	2.595475257	32.71077928	3.69E-06	0.000310421670	chr8	130851338	130851837
MRT_510263	1.792471192	1.986027063	18.02127483	1.50E-03	0.0328941318	chr6	129856857	129857356
MRT_594294	1.792214879	2.176853754	11.26403096	0.002254906731	0.04534625659	chr7	142034342	142034841
MRT_203592	1.792214011	2.312686577	22.82663915	5.14E-05	0.002331383564	chr2	213557147	213557646
MRT_364023	1.791888102	2.022002418	12.72423656	0.001301731767	0.02937878592	chr4	148224658	148225157
MRT_796502	1.791826819	2.183762232	13.75353935	8.96E-04	0.02205637543	chr11	27594554	27595053
MRT_868112	1.791821932	4.097972599	22.65832624	5.15E-05	0.002334592398	chr12	54072507	54073006
MRT_736817	1.791779272	2.636875032	27.82303561	1.25E-05	0.000780335139	chr10	34489394	34489893
MRT_171207	1.791725664	2.814244638	15.86034114	0.000430534415	0.0123518524	chr2	136771553	136772052
MRT_1139345	1.791420522	2.154065503	12.5180863	0.001404720827	0.03123533685	chr18	67298416	67298915
MRT_492098	1.791123691	2.193897541	20.68119682	0.000217388583	0.007232510667	chr6	83420763	83421262
MRT_25373	1.791043334	3.153936139	35.18034018	2.07E-06	0.000197643674	chr1	40502189	40502688
MRT_790363	1.790655184	2.671317563	27.32932782	1.42E-05	0.000863030035	chr11	13461566	13462065
MRT_1228888	1.790477586	2.097751328	21.62608272	0.000498807652	0.01388930183	chr22	26802023	26802522
MRT_795598	1.790361193	2.069755492	12.97465479	1.19E-03	0.02736468165	chr11	26250706	26251205
MRT_295107	1.790281181	2.164183363	14.47303069	0.000694341141	0.01801310378	chr3	172587956	172588455
MRT_989384	1.79017016	2.161675649	16.64897025	3.31E-04	0.0100140011	chr15	30182061	30182560
MRT_1246532	1.790022665	2.339871437	12.22956931	0.001563881852	0.03391235952	chrX	10737902	10738401
MRT_572136	1.789924036	2.375200962	22.66884538	5.14E-05	0.002329168231	chr7	93964889	93965388
MRT_743175	1.789778246	2.038059116	13.39061181	0.001020817941	0.02447531621	chr10	53763254	53763753
MRT_597082	1.789753159	2.87941318	35.92490374	1.75E-06	0.000173799887	chr7	148611319	148611818
MRT_316477	1.789481417	2.587872925	25.03259931	2.64E-05	0.001392321594	chr4	16033598	16034097
MRT_402445	1.789229168	3.108463739	14.74535549	0.000631290882	0.0166984667	chr5	58883238	58883737
MRT_89660	1.789019325	2.49562603	16.91990613	3.02E-04	0.009343550536	chr1	205343063	205343562
MRT_919621	1.78782181	2.19788331	16.51031335	0.000346164755	0.01038199588	chr13	44892258	44892757
MRT_670792	1.787755455	2.501384064	14.28570008	7.42E-04	0.01898367367	chr9	12915331	12915830
MRT_503482	1.787345906	2.653452235	37.84252234	1.14E-06	0.000126031694	chr6	111874198	111874697

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_854128	1.78717845	1.92715325	17.76538771	0.002298218455	0.04608572956	chr12	19749673	19750172
MRT_859058	1.787128759	2.95819429	13.33521124	0.001041477659	0.02483451352	chr12	31521399	31521898
MRT_106632	1.787126738	2.275103825	15.41856879	0.000500370438	0.01392044508	chr1	240739400	240739899
MRT_816301	1.786804102	2.017845662	14.91968462	1.19E-03	0.02739914842	chr11	74018476	74018975
MRT_962521	1.786616151	2.167664634	27.40101109	0.000255021262	0.008176280785	chr14	61650664	61651163
MRT_582793	1.786507769	2.562591369	30.45183762	6.39E-06	0.000471893399	chr7	116750929	116751428
MRT_919336	1.786498663	2.595308665	23.54848995	3.99E-05	0.001902272115	chr13	44304627	44305126
MRT_1133437	1.786277794	2.127656905	14.78434542	0.000622780035	0.01650882939	chr18	52520005	52520504
MRT_590249	1.786185008	2.245837743	21.88684808	0.000116445806	0.004427244419	chr7	134212088	134212587
MRT_290835	1.785793268	2.26809093	21.47279773	0.00010205724	0.00397797418	chr3	160527720	160528219
MRT_348995	1.785458465	2.082591328	17.02513477	0.000698543778	0.018103617	chr4	109805719	109806218
MRT_1119609	1.785327896	2.488438072	14.80117731	0.000619144145	0.01643730627	chr18	20420614	20421113
MRT_545479	1.785294301	2.425021745	14.00885688	8.18E-04	0.02051566478	chr7	29019299	29019798
MRT_861238	1.784783422	2.065166313	15.97517131	7.98E-04	0.02011775225	chr12	41852976	41853475
MRT_610445	1.784632069	2.476065351	17.0480944	2.90E-04	0.00904594078	chr8	17721071	17721570
MRT_966179	1.784565187	2.621783634	19.26720135	1.43E-04	0.005162778016	chr14	68659075	68659574
MRT_1135060	1.784400273	3.345910901	19.66765339	0.000125865384	0.004709147544	chr18	55448025	55448524
MRT_324159	1.784392653	2.343634014	18.45302915	0.000184096711	0.00635885685	chr4	38947886	38948385
MRT_304026	1.78422764	2.015106966	14.59174465	0.001393046765	0.03103140922	chr3	190999998	191000497
MRT_505544	1.784151485	2.577169539	23.43618796	4.12E-05	0.001955941615	chr6	116760745	116761244
MRT_99335	1.78402079	2.537278998	20.67785307	9.25E-05	0.003692015585	chr1	226019769	226020268
MRT_542288	1.783951548	2.391845496	20.89945286	8.65E-05	0.003513164146	chr7	23324391	23324890
MRT_1208537	1.783887838	2.022444313	13.19198107	0.001127800907	0.0263917897	chr21	16503053	16503552
MRT_372242	1.783815181	2.243858329	20.89023883	0.000115309150	0.004394001414	chr4	169089104	169089603
MRT_123125	1.783647816	2.269405202	32.75054529	0.000102366999	0.003987597047	chr2	24839363	24839862
MRT_209945	1.783334815	2.59615107	33.31314217	3.19E-06	0.000277100244	chr2	225905474	225905973
MRT_958696	1.783132811	2.653590012	15.65116354	0.000462196929	0.01306425014	chr14	54469308	54469807
MRT_642272	1.783122348	2.250809475	12.99793269	0.001177385881	0.02719347454	chr8	97659922	97660421
MRT_1011557	1.782783932	2.727528494	13.09985881	0.001134403185	0.0264925232	chr15	74074528	74075027
MRT_44049	1.782534518	2.396628159	16.80977915	0.000313441684	0.009600325118	chr1	80256957	80257456

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_990826	1.782518016	2.15161933	17.67308428	3.13E-04	0.009600325118	chr15	34260293	34260792
MRT_1208482	1.78216285	2.156311606	21.03506875	0.000314151666	0.00961745413	chr21	16350098	16350597
MRT_648398	1.782082434	2.241820328	11.76757308	0.001860689224	0.03901449116	chr8	109405514	109406013
MRT_831902	1.782012697	2.802853715	16.07983232	4.00E-04	0.01164643122	chr11	112484034	112484533
MRT_145908	1.781885814	3.751393982	12.99742783	0.001177603103	0.02719347454	chr2	70343546	70344045
MRT_361465	1.781831146	2.513681467	15.11363317	0.000555637325	0.01510042953	chr4	143288585	143289084
MRT_1072588	1.781699478	2.398474634	11.89328999	0.001774331226	0.03758295066	chr17	10564827	10565326
MRT_297171	1.781469357	2.713792535	23.85259597	3.66E-05	0.001783650549	chr3	177209096	177209595
MRT_844412	1.781358494	2.605282097	35.99228457	1.72E-06	0.000171646344	chr12	794629	795128
MRT_348997	1.781212329	2.182243591	19.26855683	0.000249100219	0.008037236634	chr4	109811806	109812305
MRT_408672	1.781171126	2.104882011	15.07104996	0.000563863748	0.01528120927	chr5	73217464	73217963
MRT_187308	1.781144552	2.499562907	17.20960354	2.75E-04	0.008686558748	chr2	175710895	175711394
MRT_505582	1.780908407	2.636710855	30.88066124	5.75E-06	0.000434336656	chr6	116833078	116833577
MRT_690651	1.780799485	2.494060774	16.38612405	0.000360796321	0.010709394	chr9	89121995	89122494
MRT_1270409	1.780293395	2.249061648	13.14553606	1.12E-03	0.02621969889	chrX	133756176	133756675
MRT_657387	1.780243524	2.358880434	14.82277513	0.000614512185	0.01633641554	chr8	130653219	130653718
MRT_44006	1.780236877	2.279985674	14.9102167	5.96E-04	0.01597177816	chr1	80118056	80118555
MRT_873153	1.779974835	2.74080288	17.18230649	0.000277302090	0.008744737273	chr12	65828515	65829014
MRT_582794	1.779924983	2.405110849	25.42819008	2.37E-05	0.001278977074	chr7	116751512	116752011
MRT_707742	1.779894721	2.652670651	22.60616387	5.23E-05	0.002361185098	chr9	124106527	124107026
MRT_464860	1.77980544	2.158184804	18.9340081	3.69E-04	0.01091498918	chr6	17385700	17386199
MRT_185225	1.779777794	2.130088699	22.97110656	0.000432870213	0.01240265228	chr2	172144468	172144967
MRT_99295	1.779070548	3.128302281	13.32666957	0.001044702855	0.02487867855	chr1	225955360	225955859
MRT_328673	1.779031418	2.073463135	18.79750933	0.000686419709	0.01785141634	chr4	53705252	53705751
MRT_670987	1.779004153	2.166899897	30.64151336	0.000306421660	0.009440049775	chr9	13189302	13189801
MRT_249550	1.778690928	2.418251002	17.04376651	2.90E-04	0.009053565869	chr3	59535809	59536308
MRT_1095271	1.77866404	2.573218024	27.4604151	1.37E-05	0.000839010720	chr17	55959611	55960110
MRT_703455	1.778411931	2.393693958	19.18161807	0.000146362848	0.0052750515	chr9	114854077	114854576
MRT_11687	1.77781474	3.390339807	23.56789123	3.97E-05	0.001895389414	chr1	19267720	19268219
MRT_42945	1.777244906	2.346875435	20.10376554	1.10E-04	0.004234904161	chr1	77844622	77845121

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_99068	1.777063647	2.558701549	20.75678661	9.03E-05	0.003633452147	chr1	225670320	225670819
MRT_932142	1.776953827	2.204050323	21.0989746	0.000179767356	0.006260464838	chr13	81158365	81158864
MRT_923510	1.776830617	2.5997334	21.12974763	8.07E-05	0.003336642246	chr13	52194235	52194734
MRT_296348	1.776507176	2.471028941	14.80642174	6.18E-04	0.01641579819	chr3	175389857	175390356
MRT_36616	1.776014612	2.684263846	15.42575717	0.000499141183	0.0138924891	chr1	61330773	61331272
MRT_881950	1.775927742	2.025835866	11.69745268	0.001910818196	0.03976320182	chr12	88336106	88336605
MRT_1220943	1.775711226	3.076749755	30.07825978	7.02E-06	0.000507057153	chr21	44582836	44583335
MRT_1179827	1.775639253	2.309676876	19.07640756	0.000151255604	0.005405565885	chr20	5748099	5748598
MRT_106698	1.775334202	2.866706718	11.28126124	2.24E-03	0.04508976483	chr1	240855297	240855796
MRT_198890	1.775325029	3.179431154	26.74234693	1.66E-05	0.000969612903	chr2	202929514	202930013
MRT_1195506	1.775207125	2.505322286	20.50186726	9.75E-05	0.003853412341	chr20	42647297	42647796
MRT_323394	1.77496935	2.449839955	17.5041986	0.000249672345	0.008053597438	chr4	37664144	37664643
MRT_83910	1.774836219	2.590581141	21.95969757	6.31E-05	0.002736307985	chr1	193151022	193151521
MRT_1229253	1.774770979	2.055722562	15.00203107	0.000859298397	0.02133259992	chr22	27381741	27382240
MRT_1102832	1.774560965	2.254209491	18.28274232	0.000194345542	0.006658460991	chr17	67728719	67729218
MRT_64377	1.774526502	2.577020422	23.08215714	4.56E-05	0.00211948596	chr1	151455932	151456431
MRT_129825	1.774445531	2.428015917	14.96253552	0.000585425454	0.0157513475	chr2	37683508	37684007
MRT_636951	1.77407441	2.144594705	16.90368362	3.73E-04	0.01099643941	chr8	82249664	82250163
MRT_304025	1.774054245	1.965655012	15.51356323	2.35E-03	0.04684911483	chr3	190998499	190998998
MRT_398148	1.77403416	2.187515068	17.8681424	0.000228830336	0.007522930762	chr5	44089250	44089749
MRT_940499	1.773980193	2.134830919	15.29784267	0.000521509377	0.01436688106	chr13	103890568	103891067
MRT_1137389	1.773938206	2.217138053	20.86443058	1.81E-04	0.006283558729	chr18	60389017	60389516
MRT_74964	-1.773593504	4.199960768	11.04696766	2.45E-03	0.04831930118	chr1	172359365	172359864
MRT_767222	1.77358349	2.526951056	18.64182934	0.000173408195	0.006065652265	chr10	104618466	104618965
MRT_642520	1.773390593	2.135387113	11.61285806	1.97E-03	0.04080115219	chr8	98148640	98149139
MRT_407817	1.773196589	2.382786454	19.73961942	1.23E-04	0.004634032922	chr5	71548481	71548980
MRT_879947	1.772943885	2.560276281	15.13457078	0.000551639939	0.01501431333	chr12	80957352	80957851
MRT_774820	1.772767026	2.848887488	32.4301719	3.94E-06	0.000325944078	chr10	121172155	121172654
MRT_394445	1.772623556	2.914314231	17.47804119	2.52E-04	0.008097669212	chr5	36066806	36067305
MRT_512876	1.772602501	2.467602435	29.11557593	8.95E-06	0.000606144056	chr6	134838914	134839413

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_123200	1.772580638	2.046788641	22.40392748	0.001098039314	0.02588021634	chr2	24946040	24946539
MRT_374213	1.772531401	3.923462329	29.04091691	9.12E-06	0.000615158506	chr4	174089592	174090091
MRT_832078	1.772065998	2.215438418	18.43396731	0.000196605427	0.006715931256	chr11	112884828	112885327
MRT_476300	1.772051848	2.32700344	13.63652686	0.000934296094	0.02280171462	chr6	38476603	38477102
MRT_896522	1.772041728	2.099494317	12.32638142	1.51E-03	0.0330085311	chr12	115773380	115773879
MRT_378829	1.771944029	2.647556634	20.76134247	9.02E-05	0.003630669914	chr4	185677580	185678079
MRT_885509	1.771672252	2.33210084	18.49746399	1.82E-04	0.00629381526	chr12	94957001	94957500
MRT_735524	1.771662087	2.847146173	23.2453268	4.35E-05	0.002043573159	chr10	32038895	32039394
MRT_1112794	1.771358386	2.857439973	15.87871926	0.000427866226	0.01228894588	chr18	3670190	3670689
MRT_543367	1.770785617	2.453058001	14.2926588	0.000739814231	0.01894862646	chr7	25409297	25409796
MRT_1267572	1.770638098	2.087348111	14.51965944	0.000683081540	0.01779013637	chrX	119876905	119877404
MRT_89688	1.770544883	2.303047114	21.88461149	8.32E-05	0.003418132997	chr1	205392549	205393048
MRT_241372	1.770440858	2.748125825	39.54436983	7.87E-07	9.44E-05	chr3	45594790	45595289
MRT_597957	1.770363123	2.763581028	20.42114317	9.99E-05	0.003913541955	chr7	150484924	150485423
MRT_1196527	1.770336082	3.066523617	37.38860335	1.26E-06	0.000135912321	chr20	44457189	44457688
MRT_672152	1.77031405	2.633927848	15.47604546	0.000490631922	0.01370980595	chr9	14910863	14911362
MRT_832062	1.77023493	2.852163584	21.27060655	7.74E-05	0.003226719299	chr11	112833579	112834078
MRT_879764	1.769996135	2.073457858	12.33580576	1.50E-03	0.03289853931	chr12	80598395	80598894
MRT_156468	1.768722497	3.001429518	20.97453868	8.46E-05	0.003458154345	chr2	101769706	101770205
MRT_1249732	1.768408002	2.119058996	16.46942659	0.000524300981	0.01443751427	chrX	21745906	21746405
MRT_684114	1.768247629	3.262488636	17.19708838	0.000275963758	0.008713365037	chr9	72870965	72871464
MRT_106166	1.768079287	2.370650374	24.00644907	3.86E-05	0.001853952315	chr1	239550243	239550742
MRT_343810	1.767795847	2.373636217	20.06385246	1.11E-04	0.004273397098	chr4	95226839	95227338
MRT_221614	1.767492823	2.906872578	27.09014829	1.51E-05	0.000903683218	chr3	4758355	4758854
MRT_349008	1.767441656	2.206378739	20.48254779	0.000221198264	0.007323273461	chr4	109840908	109841407
MRT_617930	1.767315094	2.573794692	13.12331884	0.001124751307	0.02633500226	chr8	33180470	33180969
MRT_522118	1.767301444	2.531022197	21.75137668	6.71E-05	0.002881216615	chr6	154859798	154860297
MRT_50787	1.767267666	2.445854278	24.72652999	2.87E-05	0.001475223541	chr1	95017794	95018293
MRT_504142	1.767235531	2.319993869	19.91304144	0.000116707747	0.004433216672	chr6	113022247	113022746
MRT_441912	1.767222482	2.800042749	30.57135344	6.21E-06	0.000460776072	chr5	149996045	149996544

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_365896	1.766821875	2.201823506	14.36254669	0.000721825517	0.01857038899	chr4	152120517	152121016
MRT_766858	1.766775337	3.337514448	58.4921401	2.23E-08	5.98E-06	chr10	104106929	104107428
MRT_174135	1.766744591	2.244046322	18.52002308	0.000180225131	0.006272962203	chr2	145339130	145339629
MRT_690666	1.76671017	2.190831875	22.8688401	0.000252752068	0.008122005546	chr9	89140004	89140503
MRT_570213	1.76663818	2.065563137	13.00200319	0.001175636095	0.02718171976	chr7	90082496	90082995
MRT_787501	1.76650526	3.02797405	21.40080597	7.45E-05	0.003134842276	chr11	8861998	8862497
MRT_958458	1.766457208	2.373418069	14.87552684	0.000603354862	0.01610054925	chr14	54107429	54107928
MRT_1256724	1.766372755	2.334828566	26.11113226	5.23E-05	0.002361185098	chrX	51361569	51362068
MRT_1134187	1.766289346	2.427314004	12.62311397	0.001351194939	0.03031485982	chr18	53774859	53775358
MRT_234823	1.766192502	2.402064423	19.18085961	0.000146397506	0.0052750515	chr3	32010980	32011479
MRT_929227	1.766012554	2.107556361	15.9109263	5.91E-04	0.01585502111	chr13	74333475	74333974
MRT_98375	1.765823648	2.43090877	26.01668924	2.02E-05	0.001132517227	chr1	224405832	224406331
MRT_1015358	1.765780822	2.661808469	28.50534432	1.05E-05	0.000683839360	chr15	80325676	80326175
MRT_572201	1.765119181	3.011547119	17.95975708	0.000215508013	0.007191197951	chr7	94063163	94063662
MRT_932007	1.764898395	3.132190964	13.1833542	0.001100452318	0.02591436488	chr13	80935930	80936429
MRT_414492	1.764584331	2.070050455	14.18630006	0.000887268368	0.02186859623	chr5	86437195	86437694
MRT_464810	1.764156218	3.465228954	19.47113167	0.000133755722	0.004937361253	chr6	17280851	17281350
MRT_1043588	1.763966826	2.110113	17.88391543	6.03E-04	1.61E-02	chr16	48012399	48012898
MRT_70381	1.763741667	2.321417958	13.24293067	0.00107689731	0.02545893634	chr1	163137779	163138278
MRT_846009	1.763509527	2.713936663	25.13249916	2.57E-05	0.001363092354	chr12	3257735	3258234
MRT_487352	1.763349426	2.073731192	13.12686745	1.12E-03	0.02633500226	chr6	70565971	70566470
MRT_1258875	1.763180415	2.094536174	20.58473184	0.000742689477	0.01899924914	chrX	67419241	67419740
MRT_203551	1.763164491	2.256208839	15.74330926	0.000447950894	0.01274666648	chr2	213401236	213401735
MRT_79173	1.762913974	3.172743235	26.28942617	1.87E-05	0.001067913133	chr1	180896372	180896871
MRT_990441	1.762895431	2.547522978	32.94809537	4.48E-06	0.000360850173	chr15	33378863	33379362
MRT_108358	1.762792339	4.179686461	14.90116046	0.000598012063	0.01600174305	chr1	244436952	244437451
MRT_882744	1.762584644	2.015183543	15.759882	0.001653437225	0.0355058132	chr12	90169700	90170199
MRT_740663	1.762284978	2.200110113	11.37352142	0.002162088558	0.04385516395	chr10	45631226	45631725
MRT_522181	1.762194941	2.375387001	14.06322168	0.00080234469	0.02019539322	chr6	154940035	154940534
MRT_36668	1.761628523	2.209249039	11.2977085	0.002225907383	0.044885866	chr1	61401888	61402387

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_969435	1.761573831	2.525161718	22.87679553	4.84E-05	0.002227020922	chr14	74300195	74300694
MRT_501191	1.76134377	2.177818418	12.20724962	0.001576980718	0.03414386693	chr6	108090406	108090905
MRT_412532	1.760818176	2.375471391	15.82834422	0.000435222615	0.01245510498	chr5	80609508	80610007
MRT_510241	1.760536143	3.032493631	36.43126892	1.56E-06	0.000159360840	chr6	129811550	129812049
MRT_88788	1.760310483	2.665792437	24.94230747	2.70E-05	0.001415617565	chr1	204053515	204054014
MRT_1181495	1.760079972	1.986252007	14.42494101	0.00202352673	0.0416372468	chr20	11428396	11428895
MRT_873263	1.7599011	2.397221391	11.30465268	0.002219978052	0.04481437152	chr12	65960662	65961161
MRT_359998	1.759597267	2.076399698	13.79998492	0.000881175508	0.02178616265	chr4	140174846	140175345
MRT_398053	1.759570693	2.230039592	15.60810611	4.69E-04	0.01321948865	chr5	43773113	43773612
MRT_204541	1.759549676	2.197601411	28.44212405	2.16E-04	0.007213666732	chr2	216268978	216269477
MRT_853977	1.759478842	2.825781835	41.96848799	4.73E-07	6.32E-05	chr12	19555506	19556005
MRT_408756	1.759297193	2.674141838	16.45487171	0.000352616304	0.01052570871	chr5	73338658	73339157
MRT_408753	1.758908216	3.031506267	11.18951625	0.002320530666	0.04642140543	chr5	73335813	73336312
MRT_914053	1.758679514	2.065067053	20.09268505	1.03E-03	0.02466625322	chr13	33897853	33898352
MRT_610433	1.758294868	2.732961493	13.90621982	0.000848401050	0.02112823461	chr8	17705727	17706226
MRT_679385	1.758079387	2.327885721	19.87554374	0.000118059528	0.004476520851	chr9	33515673	33516172
MRT_806324	1.75758847	2.396655638	16.5800992	0.000338223848	0.01021874313	chr11	56968405	56968904
MRT_848689	1.757527327	3.827424682	12.97037614	1.19E-03	0.02739083819	chr12	8845111	8845610
MRT_738623	1.757231009	2.025518087	14.61221178	0.001440137099	0.03182755686	chr10	37296138	37296637
MRT_1035762	1.757194397	2.146216945	11.75255476	1.87E-03	0.03915409426	chr16	18065785	18066284
MRT_70311	1.757168391	2.1664786	16.65485846	0.000354573338	0.01057665917	chr1	162913318	162913817
MRT_544917	1.757129928	2.311908938	22.69123214	8.80E-05	0.003561322416	chr7	27987497	27987996
MRT_436726	1.757117299	3.21025434	37.25633196	1.29E-06	0.000139540129	chr5	139625849	139626348
MRT_670923	1.75708112	2.35992438	21.31663127	7.64E-05	0.003189096739	chr9	13109737	13110236
MRT_326850	1.756598836	1.982908217	15.49060726	0.002074231813	0.04246015457	chr4	45013594	45014093
MRT_539334	1.75655183	2.621105523	15.35405316	0.000511549892	0.01415708467	chr7	16086321	16086820
MRT_1101229	1.756310755	2.487411471	23.89722462	3.62E-05	0.001766778059	chr17	65276482	65276981
MRT_44631	1.756099232	2.338242587	14.121774	7.86E-04	0.01986334413	chr1	82274506	82275005
MRT_752444	1.755854476	4.158596545	15.15123739	0.000548480086	0.01494434441	chr10	75725734	75726233
MRT_193968	1.755835215	2.305253908	26.66602889	8.28E-05	0.003404012455	chr2	190926750	190927249

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_343050	1.755576655	2.015516635	11.9245857	1.82E-03	0.03827382996	chr4	91463355	91463854
MRT_476326	1.755557581	2.047666776	14.65570535	0.001124337489	0.02633500226	chr6	38523647	38524146
MRT_1106766	1.755333487	2.904397041	41.37208542	5.35E-07	6.97E-05	chr17	75127905	75128404
MRT_873219	1.755309106	2.883994652	19.8562507	0.000118761578	0.004497762333	chr12	65903805	65904304
MRT_442025	1.755240416	3.722427793	13.30878677	0.001051490014	0.02499027448	chr5	150161155	150161654
MRT_1254269	1.755226667	2.021853388	16.0816653	0.001587826785	0.03432596257	chrX	41463478	41463977
MRT_171282	1.75479375	3.625217024	28.53715954	1.04E-05	0.000679661736	chr2	136876673	136877172
MRT_135385	1.754759203	2.661957645	30.39855884	6.48E-06	0.000476523763	chr2	47270623	47271122
MRT_545130	1.754645099	2.167868899	17.35905209	0.000405215704	0.01175283069	chr7	28386392	28386891
MRT_1022121	1.754336913	2.310292849	21.34890264	7.56E-05	0.00316906524	chr15	94523782	94524281
MRT_974330	1.754307186	2.205039768	11.75881202	0.001866874187	0.03908602189	chr14	85707458	85707957
MRT_893601	1.75429971	3.051862897	33.33313183	3.18E-06	0.000276171227	chr12	110811159	110811658
MRT_1024641	1.753292215	2.821798786	24.79255393	2.82E-05	0.0014567683	chr15	99427985	99428484
MRT_577808	1.753006751	2.399346049	19.7676483	0.000122043774	0.004597356721	chr7	105103266	105103765
MRT_55352	1.752865389	2.852275302	34.36038378	2.50E-06	0.000228660274	chr1	109187815	109188314
MRT_95433	1.752608383	2.196180951	13.5627432	0.000959395163	0.02325782185	chr1	218040635	218041134
MRT_142544	1.752227496	2.832527063	25.54605373	2.29E-05	0.001250219839	chr2	64987159	64987658
MRT_839575	1.75211943	2.462365939	17.54606836	0.000246301745	0.007973311803	chr11	125994090	125994589
MRT_173422	1.752106185	2.108434048	13.23566233	1.08E-03	0.02551666842	chr2	144122171	144122670
MRT_635561	1.751920337	2.080078129	11.9950203	0.001707614795	0.03646769866	chr8	78938079	78938578
MRT_632679	1.751919905	2.19504365	13.64283569	0.000932183074	0.02276766958	chr8	71859992	71860491
MRT_491032	1.751904441	2.573717154	24.28485233	3.24E-05	0.001620861734	chr6	80578303	80578802
MRT_1086215	1.751849704	2.344892192	16.05812472	0.000402734143	0.01170494554	chr17	39150071	39150570
MRT_505584	1.751664567	2.475496895	22.79426385	4.95E-05	0.002262870477	chr6	116834637	116835136
MRT_288367	1.751588705	2.330740953	19.11282307	0.000149542531	0.00535944543	chr3	155422432	155422931
MRT_79977	1.751542477	3.175668806	19.35136487	0.000138823645	0.00506838175	chr1	182585346	182585845
MRT_635725	1.751381834	2.162507156	16.40989256	0.000415705477	0.01199648384	chr8	79523125	79523624
MRT_482445	1.750611601	2.262308064	25.06409029	0.000138382547	0.005059127391	chr6	51972854	51973353
MRT_446186	1.750560062	2.884748407	23.11915981	4.51E-05	0.002100218341	chr5	159498445	159498944
MRT_1139857	1.750478347	2.099480354	18.39389144	0.000664543731	0.017393054	chr18	68137769	68138268

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1269502	1.750026755	2.147708805	15.83296162	0.000474256210	0.01334038859	chrX	130021298	130021797
MRT_15722	1.750012705	2.853985246	49.83506367	1.02E-07	1.95E-05	chr1	25061555	25062054
MRT_17329	1.749831316	3.629197842	14.12940545	0.000783742848	0.01982158333	chr1	27384552	27385051
MRT_365911	1.749754025	2.301802736	15.30433985	0.000520347604	0.01434734088	chr4	152140251	152140750
MRT_358434	1.749496835	2.144156033	17.41412167	0.000495141000	0.01380235465	chr4	137782193	137782692
MRT_740577	1.749304627	2.972681638	34.23840261	2.57E-06	0.000234228042	chr10	45459595	45460094
MRT_487396	1.749294992	2.017293437	11.99042338	0.001828890304	0.03846856929	chr6	70684059	70684558
MRT_873059	1.749145394	2.762490431	17.48936109	0.000250878661	0.008079555067	chr12	65709108	65709607
MRT_731504	1.748499082	2.627788114	11.82857529	1.82E-03	0.03828883636	chr10	24646205	24646704
MRT_1208621	1.748378934	2.124819377	15.30645686	0.000536196605	0.01469489202	chr21	16793636	16794135
MRT_547684	1.748293899	2.544107931	14.55536065	0.000674593518	0.01761929911	chr7	33289854	33290353
MRT_102257	1.748274674	2.174265578	19.40485728	0.000396329325	0.01156333003	chr1	230895219	230895718
MRT_72961	1.748141648	2.192595224	15.58618044	0.000472536195	0.01330380817	chr1	168590588	168591087
MRT_43638	1.747735631	2.264130016	21.20260471	0.000128182013	0.004777501472	chr1	79158091	79158590
MRT_192525	1.747328747	2.381921677	12.41110625	0.001461599817	0.03218971197	chr2	188519715	188520214
MRT_192925	1.747158992	2.888590466	20.17829208	0.000107607331	0.004153459606	chr2	189375998	189376497
MRT_767430	1.747108136	2.171380198	14.88227	6.02E-04	0.01607982725	chr10	104906344	104906843
MRT_441910	1.746802961	3.202359277	24.90601533	2.73E-05	0.001423401695	chr5	149994825	149995324
MRT_1196972	1.74677006	2.388604867	22.39590075	5.56E-05	0.002473196474	chr20	45197115	45197614
MRT_1134292	1.746728325	2.281666591	17.59913816	2.42E-04	0.007873452109	chr18	53974937	53975436
MRT_492710	1.746435606	2.203575057	17.13184722	0.000281923409	0.008846480382	chr6	84994253	84994752
MRT_468195	1.746360702	2.280629783	12.73836998	0.001294975466	0.02926187748	chr6	23729970	23730469
MRT_487347	1.746214372	2.429132217	17.66421357	0.000237051739	0.007733081362	chr6	70545748	70546247
MRT_337284	1.745967052	2.270137505	20.78288642	0.000127347161	0.004749176689	chr4	78110458	78110957
MRT_1007665	1.745962511	2.672604591	23.23128429	4.37E-05	0.002046765039	chr15	67322351	67322850
MRT_1193478	1.745823203	2.033360716	16.61375851	0.001294866141	0.02926187748	chr20	37393846	37394345
MRT_825770	1.74563232	3.08253863	20.13521459	0.000109031883	0.004199498897	chr11	96040002	96040501
MRT_203555	1.745571734	2.581344305	19.58329983	0.000129189178	0.004803746789	chr2	213403854	213404353
MRT_476171	1.745446736	2.032517145	15.62726034	0.001440126881	0.03182755686	chr6	38247157	38247656
MRT_743239	1.745134675	2.326905197	17.44376353	2.55E-04	0.008169777799	chr10	53976531	53977030

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_508772	1.745070967	2.123419759	15.94502739	6.95E-04	0.01801446292	chr6	125415608	125416107
MRT_444894	1.744969492	2.31448033	23.10960154	8.13E-05	0.00335628178	chr5	157038847	157039346
MRT_805306	1.744837465	2.330625355	11.2571432	0.002260887796	0.04545212279	chr11	47929079	47929578
MRT_636842	1.744490375	2.209059764	11.05928423	0.002440229242	0.04813437569	chr8	81962800	81963299
MRT_7607	1.744437965	2.666021377	19.22053088	0.000144596525	0.005222026106	chr1	12126976	12127475
MRT_635634	1.744376025	2.540465506	11.92894851	1.75E-03	0.03721749003	chr8	79141744	79142243
MRT_636952	1.744185092	2.208741433	19.00147653	0.000251638678	0.008094430682	chr8	82250308	82250807
MRT_703422	1.744114766	2.358815673	14.74677058	0.000630979812	0.01669371998	chr9	114812236	114812735
MRT_1120796	1.743837893	2.328077821	12.29587735	0.001525654611	0.03327112741	chr18	22238778	22239277
MRT_743161	1.743744942	2.342779053	19.00145094	0.000154848448	0.005515318211	chr10	53720281	53720780
MRT_512971	1.743710062	2.299070324	15.37658307	5.08E-04	0.01406969366	chr6	135044471	135044970
MRT_213756	1.743577952	2.853442793	26.76684577	1.65E-05	0.000964197848	chr2	233442366	233442865
MRT_620739	1.742660781	2.586671495	13.32996472	0.001043457389	0.02485835358	chr8	39963972	39964471
MRT_861430	1.742351111	1.98199117	15.93494702	0.002204484995	0.04457990916	chr12	42374191	42374690
MRT_55292	1.74229878	2.343663992	15.61794922	0.000467450819	0.01318991261	chr1	109096535	109097034
MRT_410589	1.742138017	2.352116236	16.17864463	0.000386745183	0.01133898257	chr5	77290582	77291081
MRT_490748	1.742054604	2.045789127	15.40069314	0.001260602348	0.02865362691	chr6	80094053	80094552
MRT_880185	1.742047484	2.412661884	18.96473227	0.000156641812	0.005565128196	chr12	81472530	81473029
MRT_873247	1.741940843	3.536882472	10.94099703	2.55E-03	0.04989652914	chr12	65930733	65931232
MRT_767403	1.74187351	2.722731299	14.48033863	6.93E-04	0.01797433593	chr10	104871259	104871758
MRT_865912	1.741346148	2.313341087	21.42667096	1.02E-04	0.00397266692	chr12	50591039	50591538
MRT_690810	1.741186917	2.37878028	19.32014943	1.40E-04	5.10E-03	chr9	89348036	89348535
MRT_352481	1.740911797	2.85036119	16.33516559	0.000366991261	0.01086530571	chr4	119947679	119948178
MRT_709579	1.740882073	2.684265937	34.53194782	2.40E-06	0.000222178569	chr9	127013466	127013965
MRT_546096	1.740749511	2.305687363	24.89859766	1.07E-04	0.004139016115	chr7	30214791	30215290
MRT_321837	1.740638204	3.239694513	16.31802915	0.000369100128	0.01090991511	chr4	30720946	30721445
MRT_427306	1.740541202	2.109507456	21.85372041	0.000712554759	0.0183953125	chr5	121484838	121485337
MRT_1196958	1.740263762	2.497775326	18.23413257	1.97E-04	0.006726911659	chr20	45181169	45181668
MRT_1251694	1.740108863	1.995542324	12.52542534	0.002331259242	0.0465569099	chrX	31025481	31025980
MRT_821888	1.740061129	2.176014977	21.22331183	0.000335252877	0.01014105973	chr11	85872275	85872774

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_568188	1.739482474	2.188201843	15.51276357	4.85E-04	0.01357460414	chr7	83654687	83655186
MRT_538872	1.739457212	2.636115408	14.57676754	0.000669558490	0.01750985188	chr7	15370416	15370915
MRT_877389	1.739075788	2.474139402	12.752613	0.001288204993	0.02915563741	chr12	76065922	76066421
MRT_201766	1.739061696	2.893994137	20.84602924	8.79E-05	0.003558618306	chr2	208337821	208338320
MRT_1198277	1.739054951	2.810502814	19.64907489	0.000126589469	0.004727870669	chr20	47300430	47300929
MRT_510235	1.73904746	2.307681993	24.05016533	9.09E-05	0.003645162419	chr6	129806688	129807187
MRT_108220	1.739033807	2.731014671	13.13614452	1.12E-03	0.02627538666	chr1	244215270	244215769
MRT_1067295	-1.738616437	4.209575339	14.67265963	6.47E-04	0.01703335433	chr17	1928466	1928965
MRT_132943	1.738584404	2.543225082	28.14620156	1.15E-05	0.00073170262	chr2	43155223	43155722
MRT_450500	1.738240281	2.418524657	31.45243487	2.72E-05	0.001419633195	chr5	170589159	170589658
MRT_171194	1.73812774	2.910373039	25.40563886	2.38E-05	0.001283600138	chr2	136754845	136755344
MRT_961360	1.738041266	2.000933255	15.25672682	0.001650228655	0.03546341939	chr14	59475931	59476430
MRT_248216	1.737461784	2.691798268	23.92685284	3.59E-05	0.001754121101	chr3	57115279	57115778
MRT_1093719	1.737283502	2.03905162	16.10711129	0.001431362778	0.03168885783	chr17	53277042	53277541
MRT_1043617	1.737270744	1.974870006	14.85874209	0.002492312402	0.0489637471	chr16	48076242	48076741
MRT_645555	1.737066847	2.087265997	14.69004457	0.000905618903	0.02224738872	chr8	103092558	103093057
MRT_227567	1.737002243	2.83294179	23.16986058	4.45E-05	0.002075296259	chr3	15677435	15677934
MRT_249551	1.736933021	2.113390256	15.37330277	0.000711026356	0.01836333065	chr3	59537214	59537713
MRT_516282	1.73652785	3.012175476	29.43420773	8.25E-06	0.000571237927	chr6	143166886	143167385
MRT_726917	1.736108111	2.134968417	13.9775133	0.000827143777	0.02070532799	chr10	14549777	14550276
MRT_209933	1.735837132	2.157425398	20.51745138	0.000440239094	0.01255899353	chr2	225878127	225878626
MRT_60364	1.735391717	2.385327839	33.56383507	4.16E-05	0.001971305015	chr1	118663863	118664362
MRT_467513	1.735373473	2.364921117	23.09685738	4.85E-05	0.002231418422	chr6	22363565	22364064
MRT_976204	1.734865267	2.14820617	13.00774706	0.001173171737	0.02713807479	chr14	90590348	90590847
MRT_566723	1.73457125	2.014244305	13.61321183	0.002027821576	0.04171885187	chr7	79964160	79964659
MRT_1068961	1.734435101	2.28690146	14.42836448	7.05E-04	0.01824553177	chr17	4520846	4521345
MRT_1248087	1.73435029	1.992724043	16.55603042	0.002239966797	0.04508976483	chrX	16007322	16007821
MRT_746045	1.73430024	2.939828732	20.45855128	9.88E-05	0.003885615824	chr10	63510665	63511164
MRT_539333	1.734060237	2.922806478	12.48018493	0.001424594367	0.03158863671	chr7	16085628	16086127
MRT_349542	1.733159226	2.368393861	22.79530303	5.50E-05	0.002452340065	chr4	111006765	111007264

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_504862	1.733129975	2.23800435	15.65998101	0.000460812862	0.01303160281	chr6	114425514	114426013
MRT_365872	1.732573512	2.311514034	20.93868875	0.000108465993	0.004180241806	chr4	152090887	152091386
MRT_325166	1.732348721	2.584105752	26.98898892	1.55E-05	0.000919555613	chr4	40397231	40397730
MRT_472490	1.732271634	3.279567713	20.06709551	0.000111326034	0.004272292379	chr6	32950057	32950556
MRT_296542	1.732237924	2.074452174	20.29600021	0.00103936262	0.02480565354	chr3	176194939	176195438
MRT_656927	1.732160933	2.404399345	16.73165838	0.000321644403	0.009794825022	chr8	130014189	130014688
MRT_72894	1.732109007	2.127711797	16.70286834	0.000633036434	0.01673068203	chr1	168457211	168457710
MRT_1001994	1.731847572	2.262356615	22.32742225	0.000184041294	0.006358674355	chr15	57536631	57537130
MRT_1254206	1.73170609	2.541577744	17.56177682	2.45E-04	0.007940891563	chrX	41350737	41351236
MRT_870866	1.731335187	2.003385171	14.76633311	0.001827007519	0.03844171727	chr12	59593576	59594075
MRT_1112878	1.730833494	3.083733189	15.11276291	0.000555804147	0.01510172735	chr18	3774099	3774598
MRT_703085	1.730447833	2.47742613	16.85725592	0.000308566672	0.009485715317	chr9	114236631	114237130
MRT_265367	1.730322596	2.521684563	15.92087278	0.000421813192	0.01213708132	chr3	106787768	106788267
MRT_265400	1.730025288	3.225228043	15.00298335	0.000577286551	0.01558194562	chr3	106837817	106838316
MRT_950327	1.73000997	2.225679982	17.98790329	0.000279806810	0.008793116206	chr14	33033762	33034261
MRT_504198	1.729992521	2.118060712	12.48730383	0.001420838584	0.03152188927	chr6	113177366	113177865
MRT_732969	1.729986075	2.362404388	23.5179302	5.59E-05	2.49E-03	chr10	27968802	27969301
MRT_491315	1.729836816	2.837970231	13.0536824	0.001153662714	0.02678448777	chr6	81041163	81041662
MRT_433280	1.729603897	2.262184976	12.17186325	1.60E-03	0.03451040679	chr5	133609231	133609730
MRT_844441	1.728779821	2.451185296	29.21563123	2.17E-05	0.001200733369	chr12	836176	836675
MRT_206709	1.728612247	3.693288519	17.02768789	0.000291726759	0.009088890161	chr2	219472263	219472762
MRT_167296	1.728515778	3.583583217	36.5541105	1.51E-06	0.000156926776	chr2	128617212	128617711
MRT_85875	1.728319537	2.245393691	27.2432299	0.000195359619	0.006685980008	chr1	199243148	199243647
MRT_716901	1.728099776	2.617256709	26.06686481	1.99E-05	0.001119447251	chr9	137462757	137463256
MRT_642183	1.727441042	2.196982476	19.8967415	0.000374865116	0.01104179576	chr8	97527348	97527847
MRT_1170692	1.727360453	2.545875979	24.97842284	2.68E-05	0.001405651825	chr19	49073070	49073569
MRT_285626	1.727063467	2.405289028	20.93036971	8.57E-05	0.003486291137	chr3	149190119	149190618
MRT_970235	1.726945701	2.458578663	27.33413371	2.36E-05	0.001278796605	chr14	75454768	75455267
MRT_1057912	1.72688761	3.856380785	14.87939112	0.000602546154	0.01608843101	chr16	75624975	75625474
MRT_446247	1.726655252	3.46602653	13.39920457	0.001017653312	0.02440866872	chr5	159592540	159593039

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_279474	1.726505344	2.544194945	17.31503138	0.000265530757	0.00844915405	chr3	135882399	135882898
MRT_330755	1.726189233	2.612335961	19.34458858	0.000139116481	0.005076150675	chr4	57653987	57654486
MRT_1080835	1.725740726	2.598767261	37.71952495	3.21E-06	0.000278477924	chr17	29474485	29474984
MRT_82204	1.725602263	3.319505801	11.22490896	2.29E-03	0.04593207416	chr1	187230700	187231199
MRT_704392	1.725461655	3.399710324	19.64724505	1.27E-04	0.004729150676	chr9	116361150	116361649
MRT_999197	1.725396622	3.185191196	19.46265766	1.34E-04	0.004946034981	chr15	51177444	51177943
MRT_107557	1.725034179	2.079175916	14.60820001	1.09E-03	0.02567584906	chr1	242908049	242908548
MRT_1263104	1.725033987	2.006027136	11.09097575	0.002410499477	0.04768886144	chrX	96698608	96699107
MRT_443334	1.724846385	2.457145325	28.61250681	2.25E-05	0.001233344073	chr5	153558814	153559313
MRT_438216	1.724079583	2.674747683	13.97002167	0.000829350321	0.02075159177	chr5	141992163	141992662
MRT_853959	1.723995852	3.140776833	26.54908621	1.75E-05	0.001012058011	chr12	19535007	19535506
MRT_19137	1.723985926	2.504702554	16.05164748	0.000403613349	0.01172512496	chr1	30155420	30155919
MRT_65683	1.723973513	2.502317649	20.45452388	9.89E-05	0.003887310595	chr1	154164924	154165423
MRT_304873	1.723893806	2.928106452	24.76798095	2.84E-05	0.001462535563	chr3	193534493	193534992
MRT_733184	1.723607776	2.124660738	13.4717604	0.000991349289	0.02390887922	chr10	28506770	28507269
MRT_189139	1.723269777	2.18592678	19.18061393	0.000453663142	0.01286382987	chr2	179268491	179268990
MRT_1027292	1.723121226	4.069478682	21.29040084	7.70E-05	0.00321092062	chr16	1143426	1143925
MRT_966141	1.7224928	3.281843332	11.24673409	0.00226995919	0.04560557642	chr14	68613506	68614005
MRT_332959	1.722344076	2.23429988	13.46409502	0.000994093341	0.02396068736	chr4	67796259	67796758
MRT_1246678	1.722309659	2.049435961	19.2995983	0.001393103144	0.03103140922	chrX	11140386	11140885
MRT_296615	1.722197814	2.356889686	17.59786991	0.000242199137	0.007874669428	chr3	176379083	176379582
MRT_1079991	1.722187951	2.08185129	17.01823077	0.00103247661	0.02466625322	chr17	28198050	28198549
MRT_1153239	1.722122406	2.343903785	24.84989786	6.95E-05	0.002959485853	chr19	13796322	13796821
MRT_922839	1.721949171	2.316601236	16.94185077	3.00E-04	0.009289843343	chr13	50960535	50961034
MRT_1025625	1.721942844	2.123323052	15.84134789	0.000681736113	0.01776239077	chr15	101057299	101057798
MRT_464785	1.721845446	2.236184281	21.38070653	0.000272321062	0.008621959481	chr6	17212964	17213463
MRT_1207534	-1.721827583	3.253211704	15.18766254	5.42E-04	1.48E-02	chr21	9881439	9881938
MRT_496810	1.721778294	2.088405068	17.8710323	1.10E-03	0.02593434856	chr6	95188341	95188840
MRT_306452	1.721701681	2.392284725	17.5407847	0.000246724381	0.007982669153	chr3	195739921	195740420
MRT_1053862	1.721444868	3.124635563	29.4844167	8.15E-06	0.000567432298	chr16	69800141	69800640

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_726857	1.721315934	2.171519307	14.41053327	0.000709746996	0.01833775728	chr10	14438142	14438641
MRT_706713	1.721008721	2.187034265	15.17385037	0.000544223944	0.01485070994	chr9	122045317	122045816
MRT_795597	1.720971856	2.055779163	15.21728001	0.001575712785	0.03412223927	chr11	26250078	26250577
MRT_905057	1.720921168	2.452604905	27.19711366	2.67E-05	0.001403228293	chr12	132108867	132109366
MRT_613171	1.7207365	3.580978137	21.83629913	6.55E-05	0.002822877262	chr8	23211353	23211852
MRT_129887	1.720398226	2.24521009	11.74211575	1.88E-03	0.03927285555	chr2	37809967	37810466
MRT_650735	1.720371677	2.283602045	11.09822088	0.002403757913	0.0475825642	chr8	117491729	117492228
MRT_193969	1.719707645	2.09395082	19.6605761	0.000953311782	0.02316163483	chr2	190927268	190927767
MRT_938369	1.719285355	2.41263087	23.74619353	3.78E-05	0.001822651737	chr13	99628558	99629057
MRT_440984	1.719077578	2.294853096	16.66927684	0.000328360191	0.009961070679	chr5	148717275	148717774
MRT_907259	1.719034644	2.833691129	26.61939389	1.71E-05	0.000997328664	chr13	21287829	21288328
MRT_650303	1.718719552	2.076422232	12.29488579	0.001526218776	0.03327770883	chr8	116392294	116392793
MRT_325165	1.718627313	2.292009695	24.1192599	1.26E-04	0.00472010418	chr4	40396250	40396749
MRT_1196002	1.718498034	2.738383129	16.74127861	0.000320621929	0.009777773936	chr20	43357448	43357947
MRT_352319	1.718481833	2.650423371	17.55649986	0.000245469619	0.007951967532	chr4	119694506	119695005
MRT_406033	1.718076439	3.308396331	16.93265838	0.000300990921	0.009313462452	chr5	66299921	66300420
MRT_458550	1.717458502	2.371095854	13.33308527	1.04E-03	0.02484428934	chr6	3913212	3913711
MRT_877145	1.717235227	2.100675431	20.44418968	0.000867600708	0.02149243521	chr12	75514252	75514751
MRT_503461	1.717178899	2.454926928	45.58659853	2.29E-05	0.001247646647	chr6	111851907	111852406
MRT_738059	1.71699778	2.289034193	14.46588099	0.000696085196	0.01804727511	chr10	36216227	36216726
MRT_875538	1.716344308	2.29507619	17.93333853	0.000217345383	0.007232510667	chr12	70081044	70081543
MRT_863844	1.716205692	2.496216271	18.88250245	0.000160739402	0.005684285602	chr12	46931695	46932194
MRT_79174	1.716157917	3.07337369	39.64724935	7.70E-07	9.26E-05	chr1	180896926	180897425
MRT_787397	1.716108558	2.883556456	32.20403117	4.16E-06	0.000341062928	chr11	8729194	8729693
MRT_1266968	1.715937061	2.090614211	19.99880477	0.001049642098	0.0249681744	chrX	118196754	118197253
MRT_713416	-1.715888324	3.377948524	15.17594117	0.000543832219	0.01484321407	chr9	132460678	132461177
MRT_744726	1.715619759	2.258124689	14.25010002	7.51E-04	0.01916943366	chr10	60481433	60481932
MRT_110860	1.715572773	2.216642538	18.91618593	0.000320857481	0.00978260523	chr1	249178812	249179311
MRT_572161	1.715012297	3.055046882	13.6660591	0.000924449070	0.02260489173	chr7	93998175	93998674
MRT_873240	1.714751954	2.256168166	23.90389397	0.000207353636	0.006985256623	chr12	65923505	65924004

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_567985	1.714674146	2.137591103	16.01473836	0.000646313491	0.01701576268	chr7	83146208	83146707
MRT_766772	1.714643978	3.640137424	59.07123987	2.03E-08	5.57E-06	chr10	103990041	103990540
MRT_116061	1.714366188	2.201841969	23.07684721	0.000371246816	0.01096570068	chr2	10342393	10342892
MRT_62261	1.713984631	2.881645823	23.27086218	4.32E-05	0.00202970316	chr1	145262544	145263043
MRT_1257726	1.7136604	1.995549683	12.39200407	0.002355198044	0.04690205506	chrX	55976421	55976920
MRT_220030	1.713519816	2.020513012	12.31222923	0.002261365085	0.04545451334	chr3	385104	385603
MRT_1044873	1.713445305	2.968968347	22.19602938	5.89E-05	0.002593291595	chr16	50242383	50242882
MRT_209947	1.713441891	2.856705203	29.1007737	8.98E-06	0.000607933781	chr2	225906961	225907460
MRT_330802	1.713311439	2.287493336	37.31348246	0.000129151653	0.004803746789	chr4	57723233	57723732
MRT_522045	1.713185277	2.498963019	20.94775351	8.53E-05	0.003474841776	chr6	154771028	154771527
MRT_351043	1.713059135	2.215633348	17.97995929	0.000294220610	0.009128467928	chr4	114358184	114358683
MRT_587841	1.712858368	3.621947468	17.96726321	2.15E-04	0.00717765671	chr7	130066322	130066821
MRT_825580	1.712552438	2.115814076	19.55003936	0.000801288666	0.02017281595	chr11	95776266	95776765
MRT_1265967	1.712259272	1.994948695	13.33921684	0.002483433651	0.04883470135	chrX	113149526	113150025
MRT_11265	1.712176211	2.415563163	13.93905533	8.39E-04	0.0209319397	chr1	18611188	18611687
MRT_448512	1.71209878	2.183232376	12.07993356	0.001653998189	0.03550832876	chr5	166456270	166456769
MRT_321969	1.711775453	2.224483653	15.71851862	0.000451736572	0.01282640618	chr4	31086786	31087285
MRT_1046289	1.711387116	2.324405186	12.31937266	0.001512352136	0.03307288293	chr16	53300050	53300549
MRT_796501	1.711310755	2.214227905	20.94566127	0.000350539248	0.01048650923	chr11	27593774	27594273
MRT_430179	1.710889732	2.204519965	19.41840149	0.000399208580	0.01163179902	chr5	126688981	126689480
MRT_1198964	1.710505947	2.81885711	25.64629907	2.23E-05	0.001226537598	chr20	48218958	48219457
MRT_1245776	1.710490432	1.993978764	18.05404543	2.49E-03	0.04885061347	chrX	8882165	8882664
MRT_350769	1.710326994	2.30761441	16.82744077	0.000311618550	0.009560674218	chr4	113942080	113942579
MRT_337262	1.710240964	2.379207527	20.4526735	9.90E-05	0.003888288129	chr4	78088951	78089450
MRT_478064	1.710046771	2.632826318	24.03259938	3.48E-05	0.001711289719	chr6	41998865	41999364
MRT_671793	1.709973962	2.63484591	28.020803	1.19E-05	0.000749935891	chr9	14326247	14326746
MRT_788909	1.709818647	2.460693571	31.88911815	2.21E-05	0.001219416917	chr11	10947037	10947536
MRT_1169277	1.709807973	2.748280954	23.01127805	4.65E-05	0.002153708868	chr19	46955227	46955726
MRT_504955	1.709774304	2.570175205	18.96126932	0.000156812092	0.005569617752	chr6	114662630	114663129
MRT_1103674	1.70946426	2.249874936	15.46641888	0.000492248676	0.01374287226	chr17	70611066	70611565

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_565013	1.709376159	3.190537566	30.2255382	6.76E-06	0.000493228855	chr7	75939928	75940427
MRT_44408	1.709274764	3.079339672	17.72237141	0.000232636088	0.007620394006	chr1	81771592	81772091
MRT_610444	1.709036026	2.461584311	14.89261051	0.000599788442	0.01603574352	chr8	17720135	17720634
MRT_99238	1.708858733	2.188756092	15.53686583	5.17E-04	0.0142593688	chr1	225883721	225884220
MRT_1102781	1.708163431	2.357270035	13.4184469	1.01E-03	2.43E-02	chr17	67634816	67635315
MRT_297211	1.708119953	3.095773698	11.67077599	0.001930270365	0.04008250023	chr3	177255780	177256279
MRT_1099785	1.708082405	2.277612315	18.65459142	0.000207526706	0.006986598785	chr17	62717606	62718105
MRT_124329	1.707416556	2.523626147	15.72852981	0.000450203677	0.01279433862	chr2	26562435	26562934
MRT_640648	1.70679532	2.034961077	15.14953156	1.71E-03	0.03655025448	chr8	94651465	94651964
MRT_123094	1.70661078	2.238583306	23.49269624	2.15E-04	0.007181018236	chr2	24791462	24791961
MRT_653679	1.706502688	2.612231507	23.2248704	4.38E-05	0.002048947547	chr8	124007417	124007916
MRT_511668	1.706439756	2.333295797	11.77033439	0.00185874443	0.03898660344	chr6	133004631	133005130
MRT_170036	1.706010098	2.532042099	42.30340848	9.28E-06	0.000622893727	chr2	134918301	134918800
MRT_1004491	1.706002162	2.122158284	19.04588697	0.000823190608	0.02062187589	chr15	62786288	62786787
MRT_631838	1.705952476	2.007566561	20.32433063	2.38E-03	0.04729794229	chr8	69942742	69943241
MRT_83495	1.705865296	2.561638023	18.12600232	0.000204322123	0.006912507927	chr1	192416349	192416848
MRT_179628	1.705767283	2.350746909	22.74531583	8.53E-05	0.003475665888	chr2	159908289	159908788
MRT_861160	1.705322091	2.219171191	13.79238767	0.000883571012	0.02181193869	chr12	41671675	41672174
MRT_636126	1.705267561	2.704707161	12.11330031	0.001633428926	0.03517011646	chr8	80844777	80845276
MRT_794647	1.705221339	2.090757979	11.04987939	2.45E-03	0.04828737617	chr11	22563197	22563696
MRT_620655	1.705116351	2.451284455	14.12080433	0.000786133838	0.01986620827	chr8	39809529	39810028
MRT_619325	1.704521362	2.593486468	28.56870737	1.03E-05	0.000674514866	chr8	37468972	37469471
MRT_1103423	1.703972818	2.270192234	19.8110532	1.83E-04	0.006343897565	chr17	70172416	70172915
MRT_198948	1.703878205	3.209915138	13.87421419	0.000858134696	0.02131205328	chr2	203013985	203014484
MRT_98115	1.703598862	3.143085256	13.95372181	0.000834173118	0.02084758882	chr1	223893649	223894148
MRT_614719	1.703213023	2.306639781	13.61329253	0.000942122588	0.02294856469	chr8	27125610	27126109
MRT_1017984	1.703057689	2.627253666	20.50074108	9.76E-05	0.0038535268	chr15	85986811	85987310
MRT_1133399	1.702895743	2.488836072	16.47038209	0.000350798491	0.01048872604	chr18	52443406	52443905
MRT_962820	1.70282226	2.261456923	20.45541509	0.000223022666	0.00736828779	chr14	62075383	62075882
MRT_691183	1.702772271	2.052974992	16.59383073	0.001428624609	0.03166139677	chr9	89908982	89909481

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_376906	1.701280647	2.077962687	11.11701281	0.002386366821	0.04734435311	chr4	182149625	182150124
MRT_394553	1.701035041	2.660851894	15.18932787	0.000541331311	0.01479951814	chr5	36301802	36302301
MRT_36587	1.700981893	2.254542317	12.96993496	0.001189497586	0.02739083819	chr1	61229860	61230359
MRT_5281	1.70098122	2.727239167	19.34660262	0.000139029375	0.005074432174	chr1	8896263	8896762
MRT_1150849	1.700916061	2.83488901	29.28488284	8.57E-06	0.000587189636	chr19	9994071	9994570
MRT_733162	1.700707254	2.294438578	25.07049596	0.000136560891	0.005008300633	chr10	28466953	28467452
MRT_1182427	1.700605807	2.159706401	13.98777369	0.000824131991	0.02064138172	chr20	13671410	13671909
MRT_784068	1.70046077	3.097353882	11.86098423	0.00179610201	0.03796859993	chr11	1929786	1930285
MRT_789929	1.700420895	3.310778383	18.90424405	0.000159644920	0.005654165278	chr11	12715175	12715674
MRT_1007691	1.700133809	3.155351444	26.42113093	1.81E-05	0.001040188321	chr15	67356381	67356880
MRT_930129	1.699987154	2.503221084	14.51226821	0.000684853139	0.01782529512	chr13	76363542	76364041
MRT_1213050	1.699897825	2.654070667	17.47151127	0.000252338190	0.008110760795	chr21	28338447	28338946
MRT_210264	1.699850584	2.217244028	12.23324868	0.001561733813	0.03387736386	chr2	226685410	226685909
MRT_504340	1.699685809	2.385801258	12.50280846	0.001412695553	0.03138515112	chr6	113457858	113458357
MRT_844435	1.699672725	2.720852469	23.62098545	3.91E-05	0.001869181784	chr12	828409	828908
MRT_21628	1.699317326	2.229613492	17.25480516	3.08E-04	0.00946540374	chr1	33858279	33858778
MRT_634536	1.698772079	2.308348615	15.30193035	0.000520778126	0.01435297109	chr8	75460056	75460555
MRT_412591	1.698194439	2.578854399	14.94542117	5.89E-04	0.01581815785	chr5	80704175	80704674
MRT_64447	1.697636349	2.431707738	38.8531537	3.71E-05	0.001798803162	chr1	151553240	151553739
MRT_743022	1.69726453	2.176484454	17.41709196	0.000554835563	0.0150851048	chr10	53165657	53166156
MRT_248195	1.697128752	2.700981153	21.63364309	6.95E-05	0.002959485853	chr3	57082142	57082641
MRT_1203906	1.696924802	2.654244555	11.42294669	0.00212154804	0.04320559153	chr20	57171656	57172155
MRT_690713	1.696748608	2.794717068	11.49517977	2.06E-03	0.04230058334	chr9	89200682	89201181
MRT_730895	1.696745774	2.153010155	11.32970214	2.20E-03	4.45E-02	chr10	23320383	23320882
MRT_703454	1.695356145	2.086224765	13.19297369	0.001167818244	0.02702409399	chr9	114853133	114853632
MRT_93273	1.695343188	2.14234989	12.30186954	1.52E-03	0.03321401361	chr1	212701800	212702299
MRT_940498	1.695302227	2.059306793	11.9945967	0.001707886923	0.03646769866	chr13	103888469	103888968
MRT_428311	1.695022355	2.61466137	13.25859515	0.001070794568	0.02535719907	chr5	123587477	123587976
MRT_1120718	1.694732166	2.350294928	12.03571753	0.001681687135	0.03601132974	chr18	22125706	22126205
MRT_746093	1.694525514	2.623771302	12.4703501	0.001429800643	0.03166532822	chr10	63595769	63596268

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_620742	1.694210161	2.244036725	15.7271614	0.000450412875	0.01279741635	chr8	39966888	39967387
MRT_732796	1.693749869	2.21217955	16.5840342	0.000347468414	0.01041616848	chr10	27669646	27670145
MRT_917413	1.6934897	2.188476342	19.53123268	0.000540693220	0.01479165742	chr13	41070135	41070634
MRT_873221	1.692951952	3.276676005	13.36846877	0.00102902196	0.02461153523	chr12	65905091	65905590
MRT_261000	1.692776719	2.533636056	11.0662877	0.002433625377	0.04802651953	chr3	90140601	90141100
MRT_870857	1.69255812	2.179259792	13.36434592	0.00103055731	0.02463896436	chr12	59576700	59577199
MRT_226614	1.692034002	2.538164532	21.36668243	7.52E-05	0.003158619391	chr3	14331030	14331529
MRT_877128	1.69193604	2.276554534	17.52004684	0.000248390735	0.008020466032	chr12	75481363	75481862
MRT_491006	1.691844902	2.25942743	14.22019828	7.59E-04	0.01931072059	chr6	80520548	80521047
MRT_635537	1.691833497	2.150338124	19.97903154	0.000733641612	0.01881332395	chr8	78864059	78864558
MRT_569660	1.691535489	2.071533766	15.27639473	1.42E-03	0.03153396075	chr7	87903849	87904348
MRT_674351	1.69148256	2.386134867	13.67541755	0.000921352022	0.02255960664	chr9	18330160	18330659
MRT_784115	1.690960008	3.809982651	33.8586579	2.81E-06	0.000251328009	chr11	1988903	1989402
MRT_730596	1.690317377	2.1436886	18.61227972	0.000714760828	0.01843350446	chr10	22716716	22717215
MRT_958630	1.690170867	2.290357869	13.32079785	0.001046926163	0.02492207765	chr14	54378567	54379066
MRT_1190789	1.689223687	2.756399071	39.15721948	8.55E-07	0.000101045504	chr20	33495447	33495946
MRT_135437	1.688793972	2.416250891	15.13460322	0.000551633769	0.01501431333	chr2	47348182	47348681
MRT_408660	1.688283072	2.579445501	11.95617424	0.001732765715	0.0368933367	chr5	73204648	73205147
MRT_865268	1.688234334	4.651209171	13.70493628	0.000911656201	0.02237403301	chr12	49687044	49687543
MRT_1213178	1.688200154	2.122331751	15.0867545	0.000907729888	0.02228629747	chr21	28780393	28780892
MRT_510395	1.687957578	2.710447598	12.880014	0.001229313898	0.02808841632	chr6	130065709	130066208
MRT_1088819	1.687631061	3.366358134	27.05447583	1.53E-05	0.000907708359	chr17	43116270	43116769
MRT_1233964	1.687439757	2.818608897	28.25466837	1.12E-05	0.000717354146	chr22	35709586	35710085
MRT_128399	1.68738178	2.317176041	16.21486159	0.000382074821	0.01122540606	chr2	33502146	33502645
MRT_709573	1.687300045	3.267317124	36.19944323	1.64E-06	0.000165099168	chr9	127004302	127004801
MRT_466450	1.687117661	2.186808205	14.90195513	0.000597847247	0.01600070853	chr6	20510148	20510647
MRT_743015	1.687099919	2.050159406	13.77281393	2.10E-03	0.04280225986	chr10	53149618	53150117
MRT_735570	1.687080559	2.226268515	13.15818988	0.001110567878	0.02611378684	chr10	32111439	32111938
MRT_879937	1.687078839	2.091080756	13.18947321	1.39E-03	0.0310493569	chr12	80937605	80938104
MRT_22149	1.686955347	2.190807431	15.11785909	0.000554828014	0.0150851048	chr1	35150587	35151086

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1120799	1.68667683	2.311495475	20.85443664	1.39E-04	0.00508352998	chr18	22242317	22242816
MRT_962383	1.686608499	2.360638019	26.48150681	0.000103085395	0.004011884933	chr14	61440791	61441290
MRT_510264	1.68655236	2.091543745	13.60859386	0.00117758615	0.02719347454	chr6	129857362	129857861
MRT_97803	1.686348723	2.534434625	20.58495341	9.51E-05	0.003784834721	chr1	223309339	223309838
MRT_512674	1.686207038	2.698803768	28.12639437	1.15E-05	0.000733783643	chr6	134489463	134489962
MRT_726739	1.686171803	3.294667291	17.51414187	2.49E-04	0.008031768815	chr10	14227482	14227981
MRT_468384	1.686157624	2.164506686	11.35093706	0.002180890809	0.04419413722	chr6	24051393	24051892
MRT_866203	1.685778039	2.430574903	22.8037214	4.94E-05	0.002258809356	chr12	50963045	50963544
MRT_51085	1.685597631	2.402236354	19.48397425	0.000133224201	0.004922038542	chr1	95463261	95463760
MRT_642328	1.685553226	2.407393687	15.49605945	0.000487288889	0.01363160491	chr8	97778840	97779339
MRT_144575	1.685390268	2.638011966	18.93671114	0.000158025387	0.005609569544	chr2	68131983	68132482
MRT_445297	1.685295535	2.222435444	16.38432989	0.000365848504	0.0108415956	chr5	157661417	157661916
MRT_1196004	1.685173796	2.375691488	18.26919635	0.000195186737	0.0066818663	chr20	43359064	43359563
MRT_671605	1.685096121	3.29952813	20.43715158	9.95E-05	0.003902487281	chr9	14097160	14097659
MRT_156469	1.684921636	3.180286945	11.66244266	1.94E-03	0.04016355941	chr2	101770243	101770742
MRT_670950	1.684785863	2.346620128	21.50769485	0.000116694118	0.004433216672	chr9	13140738	13141237
MRT_873106	1.684492985	2.591122222	11.80842049	0.001832142973	0.03851782229	chr12	65767197	65767696
MRT_567983	1.684403147	2.323423308	16.85402945	0.000308895378	0.009490900292	chr7	83143143	83143642
MRT_60284	1.684400558	2.529235371	27.24038306	1.51E-05	0.000903683218	chr1	118512816	118513315
MRT_420321	1.684338004	2.064070904	13.1642316	1.87E-03	0.03915648331	chr5	101385171	101385670
MRT_82545	1.684228129	2.046139739	14.38473164	1.71E-03	0.03657478527	chr1	188380060	188380559
MRT_565380	1.684173634	2.318257158	12.96598436	1.19E-03	0.0274067046	chr7	76735135	76735634
MRT_268934	1.684170117	2.158989113	16.93356626	0.000759832748	0.01932089552	chr3	114619215	114619714
MRT_923508	1.683659198	2.450468678	14.74833327	6.31E-04	0.01668811778	chr13	52192793	52193292
MRT_336788	1.68346739	2.142507105	19.00275434	0.000872351807	0.02159326095	chr4	77368805	77369304
MRT_726891	1.683412668	2.22512055	15.8245415	0.000435783432	0.01246552905	chr10	14510850	14511349
MRT_979444	1.683351203	2.300274857	16.17450043	0.000387283500	0.01134951837	chr14	95957378	95957877
MRT_680886	1.683040186	3.108540747	23.85539399	3.66E-05	0.001782928107	chr9	36165096	36165595
MRT_248279	1.682682346	2.729186143	14.58267773	0.000668175513	0.01748089379	chr3	57194272	57194771
MRT_703352	1.682436967	2.713920343	35.73191667	1.83E-06	0.000180511264	chr9	114721870	114722369

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_325128	1.682416993	2.493126901	14.71561533	0.000637866793	0.01684005195	chr4	40335913	40336412
MRT_306569	1.682000279	2.625945371	39.19264064	4.09E-06	0.000336545423	chr3	195908152	195908651
MRT_635553	1.68191659	2.070536632	11.4575041	0.002093690499	0.04277563478	chr8	78918623	78919122
MRT_179061	1.68176754	2.458266589	25.94756946	3.11E-05	0.001568325542	chr2	158845652	158846151
MRT_297713	1.681466727	2.595504955	15.30317326	0.000520555999	0.01434996733	chr3	177888982	177889481
MRT_1181569	1.681199422	2.121195219	13.55157534	0.000963257008	0.0233334109	chr20	11656616	11657115
MRT_635539	1.681046397	2.062603335	14.00586829	0.001890204578	0.03943128413	chr8	78865864	78866363
MRT_881916	1.68104315	2.145540955	14.21823305	0.000772380753	0.01959282811	chr12	88264777	88265276
MRT_975722	1.680903419	4.544625807	12.85676479	1.24E-03	0.02826782997	chr14	89895118	89895617
MRT_354294	1.680765899	2.200065678	20.6392636	0.000501229346	0.01393226451	chr4	124359166	124359665
MRT_760329	1.680734198	2.35334125	16.60898851	0.000334994058	0.010135648	chr10	92782128	92782627
MRT_413167	1.680573964	2.873799681	19.60332942	0.000128391505	0.00478390372	chr5	81463164	81463663
MRT_753130	1.680453698	2.690268103	12.54918261	0.001388638706	0.03096459242	chr10	76741847	76742346
MRT_1199074	1.68027846	2.876526589	20.37545389	0.000101337572	0.003959070107	chr20	48366973	48367472
MRT_171200	1.680076351	2.336285903	22.186462	0.000148238105	0.005321549318	chr2	136762448	136762947
MRT_605426	1.679997101	2.358484699	21.98150197	0.000104463119	0.004056789743	chr8	6321439	6321938
MRT_1050742	1.679772611	2.948953215	17.09672939	2.85E-04	0.008929054055	chr16	65153886	65154385
MRT_571624	1.679656659	2.400122871	11.32204749	0.002205200105	0.04457990916	chr7	92645357	92645856
MRT_1250118	1.679503942	2.114794695	15.42408653	0.00113768276	0.0265373891	chrX	23522215	23522714
MRT_1179797	1.679370312	2.132586381	15.75617085	0.00087030153	0.02154996856	chr20	5705686	5706185
MRT_617929	1.679344262	2.4829864	12.33843486	1.50E-03	0.03287769096	chr8	33179738	33180237
MRT_34571	1.678962328	2.243214429	14.08869319	0.000795129910	0.02004960379	chr1	56136306	56136805
MRT_702632	1.678647611	2.309050339	12.43278043	0.001449878601	0.03198154825	chr9	113412449	113412948
MRT_1106755	1.678644354	2.721460565	23.86850935	3.65E-05	0.001777712297	chr17	75114668	75115167
MRT_1197286	1.67855451	2.201658179	16.23219641	0.000448101934	0.01274666648	chr20	45746478	45746977
MRT_24768	1.678169549	2.414027596	18.66981595	1.72E-04	0.006017223952	chr1	39629852	39630351
MRT_301730	1.677263097	2.649115533	30.51901202	6.29E-06	0.000465166453	chr3	185821741	185822240
MRT_652571	1.67692957	2.359624306	15.19893212	0.000539544666	0.01477706937	chr8	121085309	121085808
MRT_504957	1.676442051	2.791233497	23.41385593	4.15E-05	0.001966859774	chr6	114663939	114664438
MRT_932164	1.676175142	2.124848662	16.67079927	0.001034000217	0.02469800066	chr13	81186948	81187447

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_582760	1.675777979	2.417000606	27.85989098	5.47E-05	0.002444182249	chr7	116708804	116709303
MRT_95699	1.675767359	2.785354157	15.34764551	0.000512674808	0.01417856313	chr1	218633144	218633643
MRT_520392	1.675667916	3.6036438	11.99409349	1.71E-03	0.03646846305	chr6	151197675	151198174
MRT_442026	1.675341086	3.257051237	14.05476371	0.000804755962	0.02023199558	chr5	150161679	150162178
MRT_492703	1.675252856	2.284258594	12.06676757	0.001662191216	0.03567214225	chr6	84983145	84983644
MRT_932129	1.675205132	2.439327475	11.48014029	0.002075657109	0.04246876814	chr13	81135473	81135972
MRT_467633	1.674722077	2.289888996	14.491207	0.000689928467	0.0179169507	chr6	22657788	22658287
MRT_1121121	1.674253806	2.690580529	12.73558355	1.30E-03	0.02928669094	chr18	22810989	22811488
MRT_890057	1.674250719	2.41181416	16.27398074	0.000374580898	0.01103847438	chr12	104613096	104613595
MRT_1047136	1.673975144	2.08367691	19.80246751	0.001220961893	0.02794288717	chr16	54814231	54814730
MRT_671313	1.673884662	2.418069947	11.07631405	0.002424204684	0.04789276898	chr9	13645649	13646148
MRT_754512	1.673717489	2.384832555	18.06948819	0.000208053077	0.006997667465	chr10	79708268	79708767
MRT_153884	1.673575241	3.365260629	14.16572024	0.000773733816	0.01960362663	chr2	97074938	97075437
MRT_896648	1.673474526	2.510613021	14.34664586	0.000725876514	0.01865568831	chr12	116076980	116077479
MRT_372459	1.673467469	3.032568076	12.21444641	0.001572744228	0.03406418917	chr4	169468590	169469089
MRT_402498	1.673126814	2.201699679	13.50151922	0.000980773302	0.02368533912	chr5	58981527	58982026
MRT_45417	1.673085911	2.371242534	18.38750152	0.000187970108	0.006476772813	chr1	84281137	84281636
MRT_149156	1.672433752	2.022951957	11.25223364	2.48E-03	0.04874898504	chr2	76508175	76508674
MRT_653804	1.672316702	2.17858283	18.18653913	0.000622473982	0.01650655763	chr8	124209744	124210243
MRT_349560	1.671710626	2.324274688	24.26043506	0.000154027041	0.005490687405	chr4	111030754	111031253
MRT_731492	1.671685127	2.238778085	11.55571348	0.002016654826	0.0415160523	chr10	24630772	24631271
MRT_349986	1.671490443	2.128724524	12.76446598	0.001282599722	0.02906508007	chr4	112440797	112441296
MRT_410990	1.671448295	2.099347262	18.90886012	0.001215657876	0.02784662291	chr5	77950019	77950518
MRT_38016	1.671032366	2.079818052	16.91690783	0.001499261725	0.03284237678	chr1	63463900	63464399
MRT_854374	1.670933002	2.072503148	11.96483653	0.001727122889	0.03678554231	chr12	20096567	20097066
MRT_766774	1.670841145	3.381112275	56.69294947	3.02E-08	7.57E-06	chr10	103991465	103991964
MRT_197747	1.670668031	2.118613328	17.83595693	1.15E-03	0.02675973527	chr2	201043916	201044415
MRT_1249769	1.669974907	2.129531311	13.75566512	0.001042860062	0.02485345981	chrX	21818338	21818837
MRT_141922	1.669878871	3.522994396	30.84521503	5.80E-06	0.000436721023	chr2	63925983	63926482
MRT_1018004	1.669823827	2.774217926	25.44441681	2.36E-05	0.001274950967	chr15	86016734	86017233

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_476170	1.66964854	2.177320315	17.9086931	0.000664320637	0.01739080366	chr6	38246550	38247049
MRT_832059	1.669637962	2.931694004	16.15737238	0.000389516937	0.01140969773	chr11	112831766	112832265
MRT_731386	1.669341881	2.165739953	18.3815057	0.000652915150	0.01714885902	chr10	24486186	24486685
MRT_742898	1.669312408	2.639459482	11.86092847	0.001796139833	0.03796859993	chr10	52752305	52752804
MRT_379255	1.669114895	2.095393201	15.4254258	0.001490682271	0.03269961867	chr4	186400755	186401254
MRT_1050459	1.668452472	2.113131987	17.89619429	1.31E-03	0.02948369503	chr16	64462276	64462775
MRT_1076973	1.668245003	2.656223118	24.80919942	2.80E-05	0.001453121315	chr17	19630932	19631431
MRT_372575	1.66814	2.175835841	23.31514704	0.000589647862	0.01583472305	chr4	169606210	169606709
MRT_36095	1.668046256	2.314072668	11.70407125	1.91E-03	0.03968684551	chr1	59947520	59948019
MRT_744683	1.667479309	2.023255255	15.54449717	0.00253267172	0.04954458482	chr10	60405399	60405898
MRT_879152	1.667428243	2.212888202	12.45290158	0.001439087931	0.03182100394	chr12	79332365	79332864
MRT_192459	1.667363626	2.44561908	12.62000866	0.001352745585	0.03032952688	chr2	188416036	188416535
MRT_919082	1.666941463	2.140571986	11.19814042	0.002312831035	0.04633638274	chr13	43843233	43843732
MRT_36193	1.666364479	2.290778569	12.08507799	0.001650808722	0.03546951757	chr1	60148861	60149360
MRT_836786	1.666236899	2.341963433	17.56291206	0.000244959615	0.007939996893	chr11	120938186	120938685
MRT_836864	1.666168827	2.164863504	12.80808945	0.001262195521	0.02868469929	chr11	121070171	121070670
MRT_352438	1.665963499	2.599176855	11.41864214	0.002125045968	0.04326293424	chr4	119888391	119888890
MRT_409794	1.665739054	2.23805689	22.80902205	0.000344617766	0.0103502841	chr5	75629315	75629814
MRT_44051	1.665704491	2.301387673	11.53578961	0.002032032211	0.04178514486	chr1	80258010	80258509
MRT_539306	1.665275017	2.587517003	13.35293957	0.001034817906	0.02471006689	chr7	16046302	16046801
MRT_401952	1.665258315	2.130663953	13.61205435	0.000942541646	0.02295436391	chr5	58130342	58130841
MRT_656904	1.665247479	2.930781252	12.78616098	0.001272408136	0.02884443496	chr8	129984523	129985022
MRT_252920	1.665093088	2.330003773	14.86610639	0.000605331248	0.01613970646	chr3	66870598	66871097
MRT_200034	1.665034137	2.386851046	14.74271481	0.000631871807	0.01671034797	chr2	204608061	204608560
MRT_239302	1.664798984	2.077537069	13.35584994	0.001596166334	0.03447888523	chr3	41834260	41834759
MRT_766809	1.664386664	2.286392537	28.09798415	0.000253569551	0.00814414802	chr10	104045949	104046448
MRT_1172280	1.664064092	2.302659133	13.22215872	0.001085047734	0.02562296488	chr19	51546946	51547445
MRT_975806	1.664014939	3.055500086	14.3788052	0.000717708548	0.01848960385	chr14	90000926	90001425
MRT_818729	1.663858831	2.239491023	15.46403466	0.000492649983	0.01374802378	chr11	77820248	77820747
MRT_931988	1.663814226	3.14699447	16.67022751	3.28E-04	0.009960314117	chr13	80910937	80911436

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_855962	1.663309034	2.072137976	12.02723268	0.001687057474	0.03610194831	chr12	24911115	24911614
MRT_44829	1.663198789	2.422574118	20.98190756	8.44E-05	0.003453864051	chr1	82690995	82691494
MRT_294019	1.66305372	2.10378407	13.79042456	1.36E-03	0.03049004338	chr3	170834552	170835051
MRT_510230	1.662815789	2.097345517	15.90770041	0.001375555085	0.03072686749	chr6	129797730	129798229
MRT_140918	1.662812702	2.221843132	18.68597634	0.000468092006	0.01320213065	chr2	61932755	61933254
MRT_106272	1.662674082	2.070140693	16.27675071	0.001961502144	0.04062461838	chr1	239816267	239816766
MRT_911166	1.662593736	2.144503954	17.98758883	0.001069330764	0.02533199443	chr13	28641369	28641868
MRT_879942	1.66253157	2.237715446	12.90837317	0.001216603794	0.02785914475	chr12	80950305	80950804
MRT_379321	1.66225314	2.310608303	12.87772623	0.001230345456	0.02810692284	chr4	186508917	186509416
MRT_575783	1.66221765	2.904632544	49.88175471	1.51E-07	2.65E-05	chr7	101129630	101130129
MRT_252291	1.66212903	2.248474037	14.54117948	0.000677951446	0.01768194402	chr3	65816906	65817405
MRT_264789	1.662021424	2.189024107	14.05875821	0.000803616204	0.0202153625	chr3	105652643	105653142
MRT_962363	1.661892078	2.028701938	20.51173821	0.002518215021	0.04934269797	chr14	61409982	61410481
MRT_734115	1.661670828	2.554440681	15.79574603	0.000440055427	0.01255899353	chr10	29935928	29936427
MRT_796248	1.661520702	2.768192867	12.5763942	0.001374728444	0.03071811582	chr11	27234782	27235281
MRT_1027253	1.661432393	3.178767057	27.91790102	1.22E-05	0.000765346073	chr16	1100369	1100868
MRT_1095270	1.661397826	2.842108988	20.08789043	0.000110620245	0.004249638887	chr17	55959021	55959520
MRT_610442	1.661300417	2.416404264	13.03516976	0.001161482765	0.02691670796	chr8	17718894	17719393
MRT_490863	1.660972067	2.800917452	26.48539272	1.78E-05	0.001025698521	chr6	80280649	80281148
MRT_940541	1.660645294	2.0445133	14.86161658	0.002069625205	0.0423863787	chr13	104001483	104001982
MRT_640221	1.660160388	2.068045574	13.53264822	0.00172534011	0.03675536834	chr8	93468124	93468623
MRT_445025	1.659908624	3.225214583	15.78438755	4.42E-04	0.01259368111	chr5	157254974	157255473
MRT_427280	1.659893005	3.032568935	18.38339666	1.88E-04	0.006482206513	chr5	121413845	121414344
MRT_74715	1.659836389	2.646168145	12.1126823	0.001633807388	0.03517011646	chr1	172061175	172061674
MRT_859106	1.65968341	2.169199289	16.93862617	6.48E-04	0.01703335433	chr12	31584127	31584626
MRT_1016174	1.659382933	2.045289802	13.80403543	0.001896526606	0.03952416292	chr15	81836357	81836856
MRT_171359	1.659291173	2.295264174	20.22328961	0.000227757159	0.007491533097	chr2	137005149	137005648
MRT_569633	1.659260023	2.237779728	24.14594498	0.000442215580	0.01260403842	chr7	87828555	87829054
MRT_424075	1.659217794	2.186790911	25.78946531	0.000662616597	0.01734977571	chr5	112292721	112293220
MRT_320459	1.658525072	2.31830508	18.00495157	0.000212403388	0.007110047876	chr4	25940391	25940890

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_55512	1.658501189	2.477812954	16.46103378	3.52E-04	0.0105115394	chr1	109400974	109401473
MRT_877033	1.658494038	2.259064343	14.95233728	0.000587496973	0.01578698965	chr12	75174681	75175180
MRT_263157	1.658183791	2.269472951	23.68931816	0.000278333139	0.008767519226	chr3	100711103	100711602
MRT_634466	1.658065744	2.087250983	15.72776642	0.001304229648	0.02941857783	chr8	75295663	75296162
MRT_1192434	1.65803085	2.617227225	22.64166291	5.18E-05	0.002344548723	chr20	35860594	35861093
MRT_26281	1.657804038	2.826178071	15.37823297	0.000507328778	0.01406789206	chr1	41869875	41870374
MRT_290290	1.657334116	2.486236016	17.34857146	0.000262641874	0.00836352486	chr3	159577833	159578332
MRT_642251	1.657257873	2.1140405	13.81210642	0.001359140575	0.03045675543	chr8	97623590	97624089
MRT_966127	1.657253096	2.651855604	16.93266986	0.000300989783	0.009313462452	chr14	68598563	68599062
MRT_672151	1.656828512	3.66613236	12.35084242	0.001494730317	0.03276008728	chr9	14909986	14910485
MRT_411218	1.656652386	2.603889354	14.90835817	0.000596521018	0.0159787005	chr5	78318847	78319346
MRT_782764	1.656511085	2.638224584	17.46215172	0.000253107139	0.008131355345	chr10	135428130	135428629
MRT_435153	1.656458922	2.510826834	14.82966627	0.000613042141	0.01631101048	chr5	137271142	137271641
MRT_1104434	1.656401531	2.505208759	16.74289371	0.000320450613	0.009777251171	chr17	71622543	71623042
MRT_654582	1.656150051	2.884476234	19.19423871	0.000145787449	0.005259045891	chr8	125631271	125631770
MRT_1255775	1.656009886	3.826415977	15.25650209	5.29E-04	0.01453760158	chrX	47360725	47361224
MRT_879787	1.655887722	2.255940636	15.35620769	0.000511172243	0.01414972071	chr12	80629240	80629739
MRT_1160632	1.655697312	2.417871246	19.41013798	0.000136311371	0.005004027945	chr19	31755152	31755651
MRT_411043	1.655434025	2.208661832	21.97268597	0.000561960406	0.01523635873	chr5	78040601	78041100
MRT_732791	1.655425539	2.210553982	23.72563625	0.000490254240	0.01370227113	chr10	27659768	27660267
MRT_747537	1.655409686	2.249462621	12.00011177	0.001704347618	0.03641664855	chr10	67101005	67101504
MRT_155178	1.655321259	2.515881906	19.25070304	0.000143242715	0.005183465502	chr2	99487150	99487649
MRT_155229	1.655296461	2.710145405	38.71394617	1.97E-06	0.000189990439	chr2	99551357	99551856
MRT_508726	1.655252429	2.196391189	12.41882397	0.001457414469	0.03211426456	chr6	125320151	125320650
MRT_304857	1.655189887	2.409232653	18.90210818	0.000159752086	0.005654165278	chr3	193516687	193517186
MRT_155646	1.654786681	2.459375632	18.91850751	0.000158931241	0.005635416579	chr2	100344558	100345057
MRT_618224	1.654758861	2.317424603	14.61335365	0.000661046610	0.01732256073	chr8	33669437	33669936
MRT_619314	1.65457195	2.529818518	19.81409935	0.000120311059	0.004545586198	chr8	37455936	37456435
MRT_1022125	1.654390964	2.18847832	17.77907781	0.000570891335	0.01542902869	chr15	94526955	94527454
MRT_510399	1.654222132	2.393039644	21.36813894	8.81E-05	0.003562811363	chr6	130072083	130072582

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_55354	1.654162826	3.304111087	30.24169077	6.74E-06	0.000491527268	chr1	109189083	109189582
MRT_316626	1.654058924	2.202563991	13.25549467	0.001071999525	0.02537625751	chr4	16271692	16272191
MRT_807109	1.653560357	2.337329557	21.28965624	1.52E-04	0.005423617604	chr11	58694763	58695262
MRT_587786	1.653501828	3.048582952	19.70597776	0.000124385727	0.004671702517	chr7	130006571	130007070
MRT_893513	1.653082517	2.889767438	25.79061151	2.14E-05	0.001188712267	chr12	110704997	110705496
MRT_1082694	1.652979073	2.389125687	13.42211954	0.001009265518	0.02427634793	chr17	33379784	33380283
MRT_762108	1.65294241	2.047159773	14.00233613	0.002075480807	0.04246876814	chr10	95811916	95812415
MRT_335709	1.652776987	2.171889627	14.97382468	0.000659118114	0.01728502317	chr4	74534348	74534847
MRT_616262	1.652648824	2.300797618	21.55458696	0.000266310017	0.008465454827	chr8	29662451	29662950
MRT_319878	1.652646971	2.400096917	22.55496119	9.99E-05	0.003913541955	chr4	25101175	25101674
MRT_122985	1.652036269	3.553159434	35.67591871	1.85E-06	0.000181699372	chr2	24632673	24633172
MRT_614720	1.651835334	2.34399121	15.84591641	0.000432641173	0.01240081595	chr8	27126266	27126765
MRT_1069828	1.651746433	2.171670359	14.79545092	0.000819762776	0.02055630526	chr17	5987481	5987980
MRT_201752	1.651645883	2.061998871	12.84546496	0.001999334978	0.04123981991	chr2	208315569	208316068
MRT_765847	1.651273973	2.700913543	19.53162981	1.31E-04	0.004869050948	chr10	102661340	102661839
MRT_1237705	1.651088004	3.013490646	15.0193917	0.000574019654	0.01550696675	chr22	41107457	41107956
MRT_202602	1.650719818	3.928047418	18.13964058	0.000203432560	0.006894465442	chr2	210288420	210288919
MRT_872828	1.650325221	2.214146621	18.78790914	0.000487403442	0.01363160491	chr12	65312488	65312987
MRT_417784	1.649947151	2.140782873	12.38980653	0.001473218129	0.03240058057	chr5	93857730	93858229
MRT_330674	1.649732944	2.385110174	15.5848403	4.73E-04	0.01330397824	chr4	57547246	57547745
MRT_227574	1.649727951	2.819519626	22.63725373	5.18E-05	0.002345889138	chr3	15688353	15688852
MRT_1081477	1.64953757	2.563296088	37.04455723	1.16E-05	0.000737518409	chr17	30430422	30430921
MRT_1198967	1.649362697	2.663284285	45.47282467	3.84E-06	0.000319668679	chr20	48221826	48222325
MRT_349077	1.649138455	2.153472075	13.67090927	0.001051060223	0.0249878486	chr4	109988928	109989427
MRT_880007	1.648928193	2.132687751	17.2305772	0.001125700352	0.02635235853	chr12	81084274	81084773
MRT_613523	1.648613211	2.131517758	10.96319686	0.002532815239	0.04954458482	chr8	23929877	23930376
MRT_342682	1.648607168	2.067506991	18.1209192	0.001904378906	0.03966825327	chr4	90163400	90163899
MRT_620622	1.648594635	2.075458667	12.28229052	1.88E-03	0.03927285555	chr8	39767390	39767889
MRT_343839	1.648385456	2.12208569	12.02340014	0.001689489278	0.03614788852	chr4	95293405	95293904
MRT_858313	1.648294282	2.239986148	20.09623911	0.000430728529	0.0123543696	chr12	29878789	29879288

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_490644	1.647717206	2.193419495	18.87636441	0.000653746181	0.01716357756	chr6	79889057	79889556
MRT_171138	1.647616868	2.403036072	18.8800998	1.61E-04	0.005685188638	chr2	136678421	136678920
MRT_950478	1.647117137	2.298659704	29.3934017	0.000231471367	0.007594009165	chr14	33366375	33366874
MRT_1112589	1.64708511	2.369367898	14.95041378	0.000587888568	0.01579416622	chr18	3402969	3403468
MRT_237579	1.64686107	2.575915818	22.53103529	5.35E-05	0.002404191592	chr3	38002985	38003484
MRT_441909	1.646798943	3.199477088	19.70927756	0.000124259203	0.004671069998	chr5	149993901	149994400
MRT_464821	1.64648016	2.221068153	12.87692687	0.00123070611	0.02811009881	chr6	17296913	17297412
MRT_490952	1.646089715	2.561843907	18.44422352	0.000184612196	0.006373190875	chr6	80419830	80420329
MRT_917119	1.646002598	2.137881423	11.85892327	0.001797500633	0.03798470432	chr13	40533624	40534123
MRT_536138	1.645741868	2.278930238	27.00468845	0.00034189564	0.01029290093	chr7	7759809	7760308
MRT_1058137	1.64493302	2.296198883	11.57870805	0.001999063416	0.04123981991	chr16	76312873	76313372
MRT_1260250	1.644859848	2.19945513	15.26761452	7.60E-04	0.01931825288	chrX	71614302	71614801
MRT_800288	1.644804698	2.370951714	14.12832818	0.000784041886	0.0198251931	chr11	36031498	36031997
MRT_64387	1.644679031	2.178847525	19.36160416	0.000807922181	0.02029952496	chr1	151467782	151468281
MRT_510992	1.644662092	2.344981682	12.53145965	0.001397780042	0.03111919148	chr6	131318364	131318863
MRT_567954	1.644513896	2.399739026	11.01227079	0.002485064345	0.04885061347	chr7	83084694	83085193
MRT_252934	1.644210022	2.236176616	22.42628113	0.000437607300	0.01250078478	chr3	66889925	66890424
MRT_336814	1.644055684	2.200914194	15.51526061	0.000714002046	0.0184176806	chr4	77419754	77420253
MRT_364674	1.643968833	2.178393001	19.79101165	8.27E-04	0.02070532799	chr4	149209571	149210070
MRT_290723	1.643857414	2.336101561	19.52104742	0.000219855579	0.007286428683	chr3	160263204	160263703
MRT_522183	1.64366872	2.306882796	22.95184394	0.000276373568	0.008721961984	chr6	154942510	154943009
MRT_154200	1.643360602	3.257505574	19.45869564	0.000134272588	0.004949210152	chr2	97561672	97562171
MRT_487360	1.643207666	2.216656112	16.39043823	0.000616877633	0.01639242776	chr6	70580055	70580554
MRT_1086246	1.642892686	2.101120219	11.21390888	2.30E-03	0.04609059017	chr17	39218135	39218634
MRT_297020	1.642879921	3.734165331	14.96516545	0.000584892525	0.01574703006	chr3	177017908	177018407
MRT_85795	1.642834429	3.096633699	14.95846649	0.000586251032	0.01577021493	chr1	198904569	198905068
MRT_40926	1.642473729	2.778914265	19.83878307	0.000119401071	0.004516586789	chr1	70032867	70033366
MRT_190926	1.642467428	2.166281925	16.70057856	0.000927644708	0.02267428964	chr2	184081110	184081609
MRT_704195	1.641974175	2.452470794	22.623777	5.93E-05	0.002603810231	chr9	116074301	116074800
MRT_420754	1.641904992	2.0386705	16.41388846	2.28E-03	0.04583896974	chr5	102849300	102849799

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_545481	1.641546945	2.464027306	10.98379136	0.002512656368	0.04926422287	chr7	29024155	29024654
MRT_575700	1.641546481	2.725205258	19.36870384	0.000138077354	0.005052770685	chr7	101022006	101022505
MRT_496258	1.641424951	2.111121039	15.78991197	0.001469156845	0.03232408273	chr6	92491555	92492054
MRT_767129	1.641333644	3.119594342	31.50570436	4.93E-06	0.000386756688	chr10	104498757	104499256
MRT_260977	1.641251015	2.21149691	12.60005129	0.001362757239	0.03052162311	chr3	90101682	90102181
MRT_767158	1.641173971	3.960535253	15.40219407	0.000503182785	0.01398043491	chr10	104535601	104536100
MRT_1036653	1.641024028	2.087335539	14.79201475	0.001848075703	0.03879391174	chr16	20177227	20177726
MRT_885608	1.640976767	2.380731479	10.94926921	0.00254654727	0.04976732236	chr12	95108056	95108555
MRT_36613	1.640890925	2.349039613	19.81875623	0.000150905456	0.005397614963	chr1	61324041	61324540
MRT_1007201	1.640834492	2.334875796	27.42916227	0.000194766457	0.006669278862	chr15	66696362	66696861
MRT_265363	1.640574608	3.868197412	12.88370968	0.001227649477	0.02806555404	chr3	106783217	106783716
MRT_1001683	1.640207744	2.192294025	14.4334705	0.000727812515	0.01869786765	chr15	57124380	57124879
MRT_886331	1.639933358	2.475962966	13.52501367	9.73E-04	0.02350367105	chr12	96231035	96231534
MRT_1068943	1.639772994	2.893024812	17.18626796	2.77E-04	0.008735577151	chr17	4503187	4503686
MRT_148749	1.639743162	2.154803455	11.40668533	0.002134794915	0.0434195924	chr2	75303259	75303758
MRT_267540	1.63935742	2.201793987	15.16973442	0.000544995982	0.01486538074	chr3	112085170	112085669
MRT_1146332	1.639179165	2.297255955	14.02768698	0.000812527856	0.02039908118	chr19	2848570	2849069
MRT_89703	1.639066697	2.915010231	16.13775962	0.000392091391	0.01146657126	chr1	205410799	205411298
MRT_16412	1.638425446	2.402391987	25.55369943	9.06E-05	0.003639129151	chr1	26056324	26056823
MRT_394544	1.638370242	2.353481725	12.4179756	0.001457873909	0.0321188083	chr5	36279412	36279911
MRT_538803	1.638084999	2.75888168	12.17138877	0.001598274991	0.03451065888	chr7	15259144	15259643
MRT_374215	1.637865774	3.370820838	44.92587721	2.60E-07	4.03E-05	chr4	174091004	174091503
MRT_565481	1.637789006	2.480690112	19.25566327	1.43E-04	0.005176935965	chr7	76943439	76943938
MRT_1074924	1.637583316	2.938528352	20.23517807	0.000105756678	0.004094487966	chr17	16232718	16233217
MRT_1113349	1.637417495	2.21413773	14.15025326	0.000777979878	0.01969546905	chr18	4831838	4832337
MRT_17330	1.637301495	3.65510122	11.19047969	0.002319669143	0.04642140543	chr1	27385479	27385978
MRT_327147	1.637043303	2.190310223	12.6744924	0.001325815201	0.02984178265	chr4	46394384	46394883
MRT_144072	-1.636937702	3.061930874	11.79949303	0.00183834134	0.03863532485	chr2	67441050	67441549
MRT_735450	1.636757172	2.500409427	20.62993923	9.38E-05	0.003739589339	chr10	31909345	31909844
MRT_1246680	1.63646917	2.081197459	14.69072592	0.00199444855	0.04116739943	chrX	11142140	11142639

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_873222	1.636083694	2.744485312	13.53499733	0.000969020590	0.02344168559	chr12	65905672	65906171
MRT_855960	1.6358202	2.096336868	12.24550291	1.65E-03	0.03546951757	chr12	24909403	24909902
MRT_620611	1.635707972	2.455022457	13.33930668	0.00103993509	0.02480705797	chr8	39750027	39750526
MRT_563558	1.63546024	2.898584402	32.0459864	4.32E-06	0.000350693585	chr7	73242458	73242957
MRT_616261	1.635319967	2.360332846	12.52996361	0.001398554646	0.03112550974	chr8	29661663	29662162
MRT_575714	1.635145635	2.436681485	19.36723616	0.000138140358	0.005053618169	chr7	101045233	101045732
MRT_512248	1.634540799	2.699623179	14.64405005	0.000653994822	0.01716655202	chr6	133823862	133824361
MRT_636328	1.634540277	3.954645531	51.3948741	7.64E-08	1.57E-05	chr8	81142804	81143303
MRT_84589	1.634485811	2.255705898	16.02437177	0.000408253842	0.01182063459	chr1	195901966	195902465
MRT_870903	1.633642568	2.212506197	13.74575357	0.000898429820	0.02210503352	chr12	59766156	59766655
MRT_868160	1.6336383	3.20024413	27.37214152	1.40E-05	0.000855820412	chr12	54148700	54149199
MRT_337263	1.633411229	2.669137574	16.57522435	3.39E-04	1.02E-02	chr4	78089563	78090062
MRT_636658	1.632846682	2.500484882	15.98838172	0.000412310255	0.01191500545	chr8	81639654	81640153
MRT_36207	1.632664422	2.305223136	13.38794641	0.001021801731	0.02449427345	chr1	60163850	60164349
MRT_408011	1.632547655	2.190022841	18.19650594	0.000753982849	0.01921838038	chr5	71886166	71886665
MRT_998188	1.632486116	2.432526415	13.5788386	0.000953858685	0.02316769677	chr15	49183493	49183992
MRT_89710	1.632327892	2.830010242	16.324225	0.000368336147	0.01089749169	chr1	205419537	205420036
MRT_51003	1.632097508	2.873875906	22.50809533	5.38E-05	0.002417664967	chr1	95358339	95358838
MRT_1051280	1.631664326	2.399209815	11.98326513	0.001715183878	0.03657478527	chr16	66172401	66172900
MRT_807359	1.631605899	2.619978373	27.50590786	1.36E-05	0.000832624195	chr11	59341903	59342402
MRT_892312	1.631535994	2.694738368	26.17776318	1.93E-05	0.001092122548	chr12	108961315	108961814
MRT_863927	1.631392425	2.072804541	15.15627076	0.00224185193	0.04510517888	chr12	47087283	47087782
MRT_1007854	1.631272292	2.099972565	11.48630024	0.002070778779	0.04239631245	chr15	67613020	67613519
MRT_547682	1.631094645	2.504812972	17.86889291	0.000221898461	0.007339921831	chr7	33288441	33288940
MRT_1134444	1.630472797	2.235209276	20.50244588	0.000595204098	0.01595353267	chr18	54266697	54267196
MRT_505517	1.630453609	2.667132415	22.60568726	5.23E-05	0.002361185098	chr6	116726285	116726784
MRT_1053417	1.629925146	2.864881872	31.55519644	4.87E-06	0.000383539442	chr16	69216895	69217394
MRT_770423	1.629654533	2.868902013	29.00170614	9.21E-06	0.000619620207	chr10	112624511	112625010
MRT_106164	1.62956809	2.142144566	15.89613754	0.001340637612	0.03012609491	chr1	239549107	239549606
MRT_861275	1.629276708	2.115874491	15.51676094	0.001754028914	0.03728347633	chr12	41921349	41921848

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MRT_734155	1.6285792	2.47194153	14.91756321	0.000594619974	0.01594461518	chr10	29988538	29989037
MRT_746047	1.628515527	2.452725598	16.55361062	0.000341214671	0.0102796427	chr10	63511714	63512213
MRT_1144243	1.628388857	2.731917019	40.83869053	2.72E-06	0.000244601324	chr18	77616441	77616940
MRT_419382	1.628077135	2.236299906	11.28797243	0.0022342494	0.04501004832	chr5	97685164	97685663
MRT_51041	1.628069653	2.352249501	24.63200266	0.000156325215	0.005556993366	chr1	95412910	95413409
MRT_6767	1.627686471	2.406846008	17.1559829	2.80E-04	0.008792022741	chr1	10916337	10916836
MRT_78019	1.62719729	2.691468202	17.80331454	0.000226636947	0.007462427452	chr1	178907826	178908325
MRT_642189	1.627152373	2.275369609	14.95270953	0.000587421220	0.01578698965	chr8	97536188	97536687
MRT_487486	1.627073258	2.369513632	14.07261508	0.000799675847	0.02014020779	chr6	70873644	70874143
MRT_249870	1.626769537	2.214703325	18.18321308	0.000737275909	0.01889124297	chr3	60212245	60212744
MRT_832155	1.626730713	2.18280771	10.98506258	0.002511417728	0.04925516563	chr11	113063418	113063917
MRT_1109539	1.626481433	3.4776285	41.14582456	5.61E-07	7.21E-05	chr17	78991905	78992404
MRT_97801	1.62646818	2.690665235	24.3206892	3.21E-05	0.001609147548	chr1	223308196	223308695
MRT_1256521	1.626267016	2.092840945	12.43544044	0.002238946487	0.04508247955	chrX	49742774	49743273
MRT_873220	1.625830968	3.022077733	13.3059881	0.001052556499	0.02500935762	chr12	65904468	65904967
MRT_539283	1.625508544	2.420827439	14.50220535	0.000687273055	0.01786994479	chr7	16013228	16013727
MRT_958007	1.624839575	3.178844197	28.30433561	1.10E-05	0.000712895204	chr14	53427713	53428212
MRT_1198780	1.624740442	2.417376575	16.71055631	0.000323899505	0.009851671447	chr20	47978817	47979316
MRT_575785	1.624724403	2.59843433	21.38455644	7.48E-05	0.003146051765	chr7	101132023	101132522
MRT_407843	1.624703855	2.3352525	22.29615649	0.000256997305	0.00822093223	chr5	71586068	71586567
MRT_867928	1.624239491	3.459121051	27.19536033	1.47E-05	0.000884831410	chr12	53808812	53809311
MRT_343009	1.62422512	2.464434663	11.37496555	0.002160892235	0.04384721503	chr4	91340255	91340754
MRT_1102780	1.623959161	2.080895726	12.63415275	0.002213916558	0.04473472881	chr17	67633794	67634293
MRT_1223849	1.623888203	3.029314621	27.05383062	1.53E-05	0.000907708359	chr22	17749271	17749770
MRT_138355	1.623862051	2.53607184	13.06208357	0.001150132649	0.02674659413	chr2	55346743	55347242
MRT_60387	1.623813078	2.56875901	22.1189871	6.03E-05	0.002636026253	chr1	118696766	118697265
MRT_1134050	1.623802895	2.544633835	12.47058977	0.001429673524	0.03166532822	chr18	53525139	53525638
MRT_467591	1.62366195	2.101783256	18.79507701	0.001769425644	0.03752271061	chr6	22556544	22557043
MRT_767160	1.6232734	3.549442604	14.10137798	7.92E-04	0.01997157474	chr10	104536706	104537205
MRT_1264008	1.623212706	2.285230938	13.52929094	0.000971013086	0.02348092922	chrX	102587136	102587635

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_70310	1.62315621	2.32213133	12.62061172	0.001352444296	0.03032813292	chr1	162912521	162913020
MRT_427012	1.623015948	2.270426099	12.82708245	1.25E-03	0.02852107126	chr5	120248877	120249376
MRT_805303	1.622708861	2.420531823	11.37087272	2.16E-03	0.04387865628	chr11	47927001	47927500
MRT_354521	1.622545065	2.437649235	19.36404223	1.38E-04	5.06E-03	chr4	124765349	124765848
MRT_356123	1.622460302	2.580377108	16.09188349	0.000398185021	0.01160730844	chr4	129149150	129149649
MRT_587717	1.622372668	3.049665068	21.47267811	7.29E-05	0.003078089467	chr7	129916183	129916682
MRT_365917	1.622106101	2.364878264	20.73606131	2.09E-04	0.007022228117	chr4	152148805	152149304
MRT_1270375	1.622082801	2.622390026	12.86060575	0.001238094794	0.02823310231	chrX	133676432	133676931
MRT_1018008	1.622018422	2.723412458	19.15212453	0.000147717048	0.00530923105	chr15	86020907	86021406
MRT_29588	1.621438702	2.22271528	18.79690529	0.000728632650	0.01871069712	chr1	47158989	47159488
MRT_877097	1.621348031	2.132329133	12.17476035	0.001596259789	0.03447888523	chr12	75393674	75394173
MRT_263158	1.621209943	2.208255738	24.91387884	0.000691312887	0.0179455544	chr3	100712078	100712577
MRT_259461	1.621178238	2.104947078	14.16227874	1.96E-03	0.04063657007	chr3	84649940	84650439
MRT_151187	1.620942636	4.223035907	22.1288226	6.01E-05	0.002632840794	chr2	85660768	85661267
MRT_923895	1.62028458	2.129189026	13.6254396	0.001484184521	0.0326021925	chr13	52909524	52910023
MRT_295122	1.620214338	2.285603401	11.73729222	1.88E-03	0.03930250391	chr3	172622586	172623085
MRT_428372	1.620191093	2.288102975	13.63701945	0.000934130925	0.02280171462	chr5	123678904	123679403
MRT_726639	1.620129124	3.153120651	11.28751803	0.002234639562	0.04501004832	chr10	14051562	14052061
MRT_95700	1.620044075	2.86117901	15.14537706	0.000549588930	0.01496491249	chr1	218633656	218634155
MRT_1029294	1.619998113	2.239276657	23.68519971	0.000567867972	0.01537352537	chr16	4102683	4103182
MRT_865200	1.61986129	3.441686387	12.25026272	1.55E-03	0.03370314248	chr12	49595587	49596086
MRT_419513	1.619642303	2.379869891	14.88894476	0.000600551796	0.01604938613	chr5	98130314	98130813
MRT_879974	1.619451059	2.180481018	16.17115264	1.01E-03	0.02433808106	chr12	81018878	81019377
MRT_504185	1.619367942	2.103912606	13.62513248	0.001960353213	0.04060745377	chr6	113154216	113154715
MRT_435113	1.619007746	2.298475583	10.98684671	0.002509680431	0.04924197456	chr5	137206844	137207343
MRT_192299	1.61899578	2.176519202	11.97711755	0.001719156677	0.03665280181	chr2	188161527	188162026
MRT_157381	1.618659271	2.284170508	13.78180857	0.000886918419	0.0218642198	chr2	103590695	103591194
MRT_1115953	1.618449217	2.603184499	14.06101406	0.000802973306	0.02020720564	chr18	9808516	9809015
MRT_962816	1.618417271	2.20186005	12.51960273	1.40E-03	0.0312287448	chr14	62069351	62069850
MRT_1197082	1.618110715	2.629279602	21.51726056	7.19E-05	0.003045793089	chr20	45371579	45372078

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_87093	1.617944996	3.107525936	34.30157296	2.53E-06	0.000231141477	chr1	201500856	201501355
MRT_732932	1.617678777	2.403415528	14.28027836	0.0007430509	0.01900083021	chr10	27914390	27914889
MRT_281940	1.617576145	2.382914351	17.56695561	2.45E-04	0.007933646377	chr3	140802920	140803419
MRT_975941	1.616948967	2.432880722	14.53668093	0.000679020403	0.01770182035	chr14	90189902	90190401
MRT_155111	1.61626625	2.385416011	16.55232806	0.000341360205	0.0102796427	chr2	99377893	99378392
MRT_263051	1.615916193	2.494750797	30.41061465	4.17E-05	0.001974031935	chr3	100472202	100472701
MRT_185250	1.615574813	2.291282316	22.36739544	3.49E-04	0.0104568049	chr2	172172764	172173263
MRT_920875	1.615571139	2.111827207	18.20725538	0.001816674943	0.03827510793	chr13	46919478	46919977
MRT_89639	1.615231683	2.732013264	19.316382	1.40E-04	0.005100346537	chr1	205317896	205318395
MRT_354590	1.615200522	2.079079968	19.47102755	0.002394187848	0.04743274313	chr4	124907468	124907967
MRT_853835	1.614803644	2.582616474	21.20270752	7.90E-05	0.003277611473	chr12	19375831	19376330
MRT_435106	1.614578331	2.327497188	12.28818344	0.001530038097	0.03334951917	chr5	137193383	137193882
MRT_305420	1.61422549	2.53895615	38.69828201	3.27E-05	0.001629542631	chr3	194257861	194258360
MRT_86993	1.614053947	3.159265181	13.17692093	0.001103028885	0.02596058001	chr1	201353087	201353586
MRT_187245	1.613618105	2.620436824	18.51337975	0.000180605114	0.006277992136	chr2	175630218	175630717
MRT_539279	1.613357655	2.654171584	13.79425628	0.000882981167	0.02181112918	chr7	16007071	16007570
MRT_438380	1.613355169	2.39241506	17.56534457	0.000244766439	0.007935763448	chr5	142249304	142249803
MRT_1022122	1.613278255	2.175669009	13.35273359	1.03E-03	0.02471006689	chr15	94524881	94525380
MRT_490833	1.613268344	2.3653731	11.89327608	1.77E-03	0.03758295066	chr6	80236595	80237094
MRT_800381	1.612993433	2.331540662	22.48493641	2.62E-04	0.008349099626	chr11	36145202	36145701
MRT_428563	1.612349061	3.332764724	11.95027289	0.001736621387	0.03696302014	chr5	124013283	124013782
MRT_951383	1.612279417	3.419414769	23.36177752	4.21E-05	0.00198584947	chr14	35182767	35183266
MRT_690764	1.612229824	2.142812958	13.42569376	0.001444682185	0.03190021243	chr9	89284900	89285399
MRT_1130614	1.612187413	2.287155604	22.72090569	0.000343990764	0.01033594534	chr18	45967561	45968060
MRT_211655	1.612002928	2.104004369	13.11153079	0.001881543577	0.03930250391	chr2	230005952	230006451
MRT_419514	1.611928898	2.407356039	16.877382	0.000306524739	0.009440932194	chr5	98131037	98131536
MRT_198860	1.611402964	2.249079055	20.51902875	5.39E-04	0.01476207628	chr2	202881474	202881973
MRT_1071519	1.611165895	2.437429576	23.80713312	9.12E-05	0.003652901774	chr17	8899161	8899660
MRT_263058	1.610980063	2.692081623	20.42587838	9.98E-05	0.003913541955	chr3	100480013	100480512
MRT_635182	1.610470276	2.798252087	12.81719135	0.001257982526	0.02860945951	chr8	77584929	77585428

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_503518	1.610450872	3.704436189	23.32580984	4.25E-05	0.002003031608	chr6	111925390	111925889
MRT_402816	1.610126487	2.37423896	11.75967741	1.87E-03	0.03908602189	chr5	59791705	59792204
MRT_107573	1.609408545	2.232504694	13.57182395	0.000956267334	0.02321286337	chr1	242948117	242948616
MRT_1123883	1.609382409	2.200057604	16.59364844	0.001013913382	0.02434435481	chr18	31336045	31336544
MRT_281947	1.609250603	2.505074314	19.32093752	1.40E-04	0.005098264229	chr3	140812136	140812635
MRT_402810	1.6092201	2.476858527	11.14716132	0.002358748924	0.0469653942	chr5	59783088	59783587
MRT_361454	1.608951839	2.31238638	13.23337956	0.001080636717	0.0255330621	chr4	143269752	143270251
MRT_490838	1.608617429	3.480082695	26.20469995	1.92E-05	0.001086171442	chr6	80246192	80246691
MRT_853984	1.60848384	2.784751266	11.12244236	0.002381367349	0.04729171732	chr12	19564169	19564668
MRT_690668	1.608408174	2.297265225	23.82246272	0.000378904339	0.01115033711	chr9	89141424	89141923
MRT_581407	1.608282196	2.090841865	13.19709551	0.002161241891	0.04384721503	chr7	113033175	113033674
MRT_101709	1.608141489	2.432544903	17.81187854	0.000226012014	0.007447650766	chr1	229917749	229918248
MRT_958421	1.608063498	2.392051424	11.74247243	0.001878468636	0.03927285555	chr14	54056615	54057114
MRT_248237	1.608053245	2.455134863	19.5285676	0.000131396137	0.004871528137	chr3	57144761	57145260
MRT_350739	1.607750499	2.361132028	12.11332704	0.001633412555	0.03517011646	chr4	113910471	113910970
MRT_878534	1.607515548	2.203653208	14.63131389	0.000885296432	0.0218327217	chr12	77972306	77972805
MRT_822403	1.607322487	2.174524457	15.50388216	0.001135959762	0.02651422902	chr11	86696102	86696601
MRT_689447	1.607262232	4.128716517	26.96591424	1.56E-05	0.000924335249	chr9	86580533	86581032
MRT_394546	1.607227122	2.161471641	11.97285588	0.001721916555	0.03670547299	chr5	36282641	36283140
MRT_263238	1.607178335	2.626464912	23.05364825	4.60E-05	0.0021321889	chr3	100914715	100915214
MRT_962501	1.607078871	2.468945947	23.4465361	6.71E-05	0.002881216615	chr14	61619421	61619920
MRT_859105	1.606920158	2.362752855	16.86692339	0.000307584020	0.00946540374	chr12	31583574	31584073
MRT_22177	1.606852168	2.40238782	20.5215348	0.000138450503	0.005059127391	chr1	35206014	35206513
MRT_844429	1.606157506	2.466586102	32.64910921	7.00E-05	0.002974856079	chr12	821642	822141
MRT_55293	1.605840298	2.208263794	13.09073481	0.001138181033	0.02654165345	chr1	109097277	109097776
MRT_409103	1.605463827	2.251765176	13.90379845	8.49E-04	0.02114059225	chr5	73956716	73957215
MRT_619247	1.605132569	2.47591782	11.48879119	0.00206880961	0.04237651777	chr8	37370582	37371081
MRT_691051	1.604347293	2.144652738	11.75645125	0.001868544583	0.03911453766	chr9	89710857	89711356
MRT_81319	1.604318368	2.266352763	18.50964793	5.41E-04	0.01479165742	chr1	185008097	185008596
MRT_908687	1.604215836	2.894229688	13.79451147	0.000882900647	0.02181112918	chr13	23895494	23895993

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_642174	1.603824394	2.421143212	14.96373171	0.000585182993	0.0157481646	chr8	97508883	97509382
MRT_501228	1.603809705	2.335500564	17.11687875	0.000317729926	0.009708252816	chr6	108142661	108143160
MRT_539276	1.603555643	2.1081684	13.73544413	0.001675040771	0.03589876745	chr7	16002657	16003156
MRT_766466	1.603030728	2.69709286	20.00408312	0.000113494390	0.004338441077	chr10	103526980	103527479
MRT_325397	1.602258549	2.320088324	16.55673132	0.000340860840	0.01027274504	chr4	40687859	40688358
MRT_630791	1.602008335	3.031426492	18.3526386	0.000190066488	0.006538349046	chr8	67434126	67434625
MRT_155647	1.601633497	2.470510354	13.12500399	0.001124061421	0.02633500226	chr2	100345585	100346084
MRT_50788	1.60138078	2.384185185	15.92498565	0.000421227553	0.01212573209	chr1	95018714	95019213
MRT_1020944	1.600927014	2.118743904	12.96950084	1.81E-03	0.03822802435	chr15	92079899	92080398
MRT_1076974	1.600907203	2.526562143	23.57070746	4.88E-05	0.002239872331	chr17	19631449	19631948
MRT_630824	1.600500037	2.104137953	16.67285079	2.06E-03	0.04230194713	chr8	67477712	67478211
MRT_738785	1.600380158	2.346073043	17.38264265	0.000259741801	0.008289907298	chr10	37766313	37766812
MRT_1022045	1.600358323	2.282201968	12.3196991	0.001512168197	0.03307288293	chr15	94346586	94347085
MRT_93560	1.600356427	2.515293336	18.23944946	0.000197047754	0.006721988957	chr1	213155676	213156175
MRT_821909	1.600190056	2.273387434	16.10851648	0.000454943547	0.01289149015	chr11	85896668	85897167
MRT_379306	1.600141212	2.316393482	16.912741	4.17E-04	0.01202295376	chr4	186487471	186487970
MRT_1086986	1.600111822	3.52356464	19.08067154	0.000151053931	0.005399880018	chr17	40481277	40481776
MRT_908688	1.600011869	2.789007266	12.36015584	0.001489557727	0.03269191291	chr13	23896052	23896551
MRT_62355	1.599869339	2.900324756	31.50601903	4.93E-06	0.000386756688	chr1	145448573	145449072
MRT_430392	1.599599665	2.382876762	12.06588056	1.66E-03	0.03567274708	chr5	127180107	127180606
MRT_882467	1.599507191	3.333762655	15.58493599	0.000472736607	0.01330397824	chr12	89739506	89740005
MRT_1154501	1.599404574	2.492797213	20.9577944	8.50E-05	0.003467735391	chr19	15980473	15980972
MRT_587735	1.59933463	2.6353559	21.52601836	7.18E-05	0.003039930796	chr7	129937786	129938285
MRT_1247383	1.599082758	2.179858885	17.7758905	0.001015231093	0.02436439364	chrX	13378286	13378785
MRT_420354	1.599081541	2.11965852	13.15656257	0.002135832122	0.04342855824	chr5	101493341	101493840
MRT_752385	1.598955889	3.564227572	16.89849485	0.000304398293	0.009391401872	chr10	75647033	75647532
MRT_1046614	1.598866969	2.449066685	13.86961404	0.000859543561	0.0213345104	chr16	53826114	53826613
MRT_1231122	1.598521053	2.738625229	17.41710394	0.000256843499	0.00822015858	chr22	30085174	30085673
MRT_1025626	1.59820589	2.191900974	11.34184093	2.19E-03	4.43E-02	chr15	101057993	101058492
MRT_476452	1.597715782	2.100766167	17.22840822	0.002392546641	0.04741504072	chr6	38772073	38772572

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1181420	1.597202483	2.294147385	11.29493845	0.002228277382	0.0449175673	chr20	11209104	11209603
MRT_65682	1.597091148	2.703457451	21.12870241	8.08E-05	0.003336642246	chr1	154164388	154164887
MRT_1001973	1.597089204	2.867819426	17.35505909	0.00026208699	0.00835004805	chr15	57511348	57511847
MRT_861914	1.596956397	2.348744141	11.40496181	0.002136204157	0.04342855824	chr12	43153435	43153934
MRT_908812	1.596799816	2.953771142	11.81316137	0.001828860534	0.03846856929	chr13	24080980	24081479
MRT_262681	1.59620097	2.360397964	24.41813686	0.000222680286	0.007358893026	chr3	99848731	99849230
MRT_352439	1.596121335	2.930014314	14.01284489	8.17E-04	0.02049260279	chr4	119889185	119889684
MRT_407826	1.595677197	2.144876923	13.59514202	0.00176625684	0.03748258005	chr5	71561206	71561705
MRT_568370	1.595466769	2.107851225	16.94279404	0.00189208851	0.03945760508	chr7	84099647	84100146
MRT_538040	1.595413588	2.220696486	13.53914012	0.000967576818	0.02341569132	chr7	13330590	13331089
MRT_354817	1.595295362	2.306596028	21.46965369	0.000365719730	0.01084031229	chr4	125404162	125404661
MRT_342683	1.595107595	2.148048098	19.24151871	0.001485448446	0.03261865792	chr4	90164265	90164764
MRT_733174	1.594811909	2.127718027	15.1117712	0.001913959074	0.03980896772	chr10	28490914	28491413
MRT_704409	1.594802028	3.047372274	25.15143926	2.55E-05	0.001357834903	chr9	116382133	116382632
MRT_141986	1.594509068	2.24204273	15.49858212	6.81E-04	0.01774293344	chr2	64047371	64047870
MRT_1103159	1.59390171	2.103917774	11.13575014	0.002369161463	0.04712832888	chr17	68712472	68712971
MRT_438000	1.593497258	2.847386308	34.10811175	2.65E-06	0.000240243603	chr5	141738296	141738795
MRT_1241156	1.593363816	2.371848863	13.88350061	0.000855298158	0.0212571399	chr22	46004472	46004971
MRT_438274	1.59308893	3.388257592	15.84347666	4.33E-04	0.01240265228	chr5	142077085	142077584
MRT_709470	1.592895319	2.377319824	12.84983221	1.24E-03	0.02832895981	chr9	126841422	126841921
MRT_636949	1.592731539	2.152370587	14.20437486	0.00145396894	0.03206062178	chr8	82247340	82247839
MRT_873245	1.591817651	2.878225612	13.89737238	0.000851079812	0.02118184528	chr12	65928567	65929066
MRT_893413	1.591739274	2.455755895	23.59146582	9.65E-05	0.003822633981	chr12	110572704	110573203
MRT_873198	1.591566496	2.393283382	22.91157206	0.000177965376	0.006204524616	chr12	65881586	65882085
MRT_251017	1.591560004	2.379929504	13.38130029	0.00102425925	0.02453924773	chr3	63329309	63329808
MRT_762046	1.591510035	2.301752917	21.11603074	0.000417756914	0.01204699751	chr10	95706702	95707201
MRT_872885	1.59130625	2.152627283	14.24212936	1.34E-03	0.03005898043	chr12	65410601	65411100
MRT_866279	1.590640475	2.392521577	13.89643679	0.000851363617	0.02118184528	chr12	51055210	51055709
MRT_408673	1.590459664	2.11116036	12.88933077	2.14E-03	0.04343352135	chr5	73218015	73218514
MRT_58740	1.590214149	2.240571235	20.41914766	0.000742476846	0.01899764139	chr1	115245749	115246248

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_60458	1.58998173	2.238258158	16.76471603	0.000793483073	0.02001603662	chr1	118837577	118838076
MRT_118023	1.589482467	2.819663273	19.26476113	0.000142616590	0.005165229187	chr2	13069740	13070239
MRT_1112795	1.589281557	3.213512343	12.59534207	1.37E-03	0.03055860542	chr18	3671261	3671760
MRT_171232	1.589280463	2.314451851	23.57980942	0.000393714356	0.01150607527	chr2	136809885	136810384
MRT_866181	1.589238882	2.573877997	19.51405935	0.000131987916	0.004887668989	chr12	50939507	50940006
MRT_78021	1.589085864	2.431527132	13.26243179	0.001069305534	0.02533199443	chr1	178909130	178909629
MRT_260921	1.588942321	2.454116202	12.19616962	0.001583527203	0.03426221243	chr3	89901078	89901577
MRT_209904	1.588727533	2.218431898	14.79787521	0.000845791540	0.02107566291	chr2	225822955	225823454
MRT_565499	1.588621513	2.426918961	22.09944787	0.000133091593	0.004918572001	chr7	76968560	76969059
MRT_587718	1.588151233	3.343965392	15.34553273	0.000513046308	0.01417993365	chr7	129916915	129917414
MRT_119350	1.588059857	2.187565981	12.89012404	0.001224766409	0.02801984537	chr2	16408544	16409043
MRT_818304	1.588005604	2.174899354	12.14313179	0.001615272506	0.03483024023	chr11	77214032	77214531
MRT_74717	1.587886522	2.312934452	26.86493046	0.000355690216	0.01059793506	chr1	172063471	172063970
MRT_771213	1.587607232	2.328883224	12.8324157	0.001250969469	0.02847549563	chr10	114442291	114442790
MRT_526192	1.587330837	2.277599247	11.44508156	0.002103658871	0.04291329066	chr6	161928358	161928857
MRT_962555	1.586887787	2.190082185	13.20140446	0.001093257631	0.0257880302	chr14	61696015	61696514
MRT_396218	1.586857491	2.336857918	12.56598948	0.001380029402	0.03082138565	chr5	39219005	39219504
MRT_524666	1.586776469	2.601608231	28.76218705	2.02E-05	0.001132986348	chr6	159173489	159173988
MRT_335715	1.586544042	2.229131297	13.30481385	0.001053004316	0.02501531174	chr4	74542700	74543199
MRT_1234847	1.586282309	2.918111974	32.23472683	4.13E-06	0.000339199684	chr22	36932624	36933123
MRT_896950	1.586083294	2.553625398	16.90138497	0.000304108441	0.009384742115	chr12	116568217	116568716
MRT_290388	1.58576957	2.705844444	15.09023815	0.000560140778	0.01519676909	chr3	159723753	159724252
MRT_106611	1.585653274	2.313363485	11.08598888	0.002415151601	0.04775854976	chr1	240691837	240692336
MRT_179013	1.585592685	2.104686298	13.70804887	0.002320781733	0.04642140543	chr2	158748264	158748763
MRT_776481	1.585356386	2.403707794	18.9312596	0.000158296085	0.005617606514	chr10	123838556	123839055
MRT_709691	1.585189724	3.190712705	31.31691719	5.16E-06	0.000401237512	chr9	127161827	127162326
MRT_1234266	1.585058678	2.589347112	21.84171347	6.54E-05	0.00282030144	chr22	36130107	36130606
MRT_1196957	1.584694473	2.409495604	14.57168179	0.000670751014	0.01753019456	chr20	45180587	45181086
MRT_470023	1.584508462	3.65513733	16.88995748	0.000305256244	0.009411004016	chr6	27841037	27841536
MRT_654570	1.58412061	2.909410893	14.17713897	0.000770615109	0.01956448118	chr8	125616721	125617220

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1092527	1.584057026	3.110144939	20.3236689	0.000102945424	0.004007667279	chr17	48981299	48981798
MRT_836715	1.583387131	2.905659202	33.61218311	2.98E-06	0.000261958111	chr11	120804875	120805374
MRT_1027293	1.583189837	3.727420584	16.36978674	3.63E-04	0.01075791002	chr16	1143979	1144478
MRT_149411	1.582929502	2.190453295	12.6100423	0.001357735281	0.03043064086	chr2	77745354	77745853
MRT_442012	1.582172566	2.74757904	29.18434664	8.79E-06	0.000597862598	chr5	150142907	150143406
MRT_914140	1.582016566	2.257462659	16.7556957	0.000773462370	0.0196006646	chr13	34092567	34093066
MRT_547777	1.581843121	2.254812433	16.39965864	7.21E-04	0.01854697695	chr7	33451792	33452291
MRT_942817	1.581801037	3.031783307	57.93825346	1.20E-07	2.22E-05	chr13	111540214	111540713
MRT_55307	1.581724754	2.1409495	15.2049313	0.001742850623	0.03707693993	chr1	109125763	109126262
MRT_364540	1.581634562	2.93084863	14.84203528	0.000610413020	0.01625469767	chr4	148966014	148966513
MRT_672328	1.581353081	2.320314224	34.13877961	3.90E-04	0.01142106703	chr9	15144435	15144934
MRT_139508	1.581166888	2.979248408	32.65551536	3.73E-06	0.000313716981	chr2	58655539	58656038
MRT_620311	1.581018573	3.143254732	23.10048762	4.54E-05	0.002109157251	chr8	38814989	38815488
MRT_879182	1.581009272	2.251019106	13.03591672	0.001161166132	0.02691670796	chr12	79399899	79400398
MRT_570069	1.580409902	2.771136893	31.5750996	4.85E-06	0.000382633333	chr7	89782947	89783446
MRT_710652	1.580347019	2.300572312	11.44644858	0.002102559412	0.0429084506	chr9	128437592	128438091
MRT_402811	1.579970087	2.484574927	12.06358894	0.001664175796	0.03569661303	chr5	59783652	59784151
MRT_745974	1.57966574	2.13903996	13.45149689	0.001864932575	0.03907762401	chr10	63383437	63383936
MRT_535471	1.579646902	3.049552799	41.69398043	5.00E-07	6.62E-05	chr7	6478830	6479329
MRT_97937	1.57952739	3.076745994	22.80976876	4.93E-05	0.002256749466	chr1	223537402	223537901
MRT_349753	1.579508001	2.212429329	13.99978891	0.000987181185	0.02382194417	chr4	111425438	111425937
MRT_779615	1.579184154	2.815354698	13.52848851	0.000971293622	0.02348323585	chr10	129894452	129894951
MRT_896266	1.57896832	2.943790895	18.60179395	0.000175617721	0.006131103246	chr12	115109839	115110338
MRT_1184172	1.57825932	3.602847432	18.01411982	2.12E-04	0.007096654182	chr20	17855822	17856321
MRT_912569	1.578002174	2.617325354	15.63324442	0.000465023466	0.01313310764	chr13	31437253	31437752
MRT_36636	1.577990603	2.446432383	15.22004549	0.000535639284	0.01469094284	chr1	61363026	61363525
MRT_572617	1.577169535	2.352357414	14.83060942	6.13E-04	0.01630908638	chr7	94932334	94932833
MRT_282732	1.576329867	2.187399278	16.20146954	0.001374265849	0.03071429687	chr3	142037295	142037794
MRT_249119	1.57623617	2.448727426	12.72415548	0.001301770636	0.02937878592	chr3	58543285	58543784
MRT_89565	1.575881992	2.341709981	16.2135408	0.000404753240	0.01174747654	chr1	205209058	205209557

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MRT_818303	1.575843344	2.158909794	15.6408002	0.001757470045	0.03735036121	chr11	77213505	77214004
MRT_510446	1.574935458	2.307163827	28.61236471	0.000385683639	0.01132094392	chr6	130182092	130182591
MRT_325010	1.57492897	2.40791694	21.89605238	0.000181150867	0.006283558729	chr4	40185367	40185866
MRT_822342	1.574529973	2.176104025	13.74203287	0.001513058397	0.03307605115	chr11	86607418	86607917
MRT_1230416	1.5744167	2.46088813	20.09859121	0.000116133704	0.004416702333	chr22	29106428	29106927
MRT_1046552	1.574326557	2.316440974	12.21441354	0.001572763547	0.03406418917	chr16	53746437	53746936
MRT_85778	1.574319246	2.223996961	20.07908237	0.000996538045	0.0240066299	chr1	198871706	198872205
MRT_1002001	1.574229423	2.238589686	19.47517458	0.000882227899	0.02180793088	chr15	57543499	57543998
MRT_402355	1.573441029	2.181954887	14.74855092	0.001329583874	0.02991068483	chr5	58725997	58726496
MRT_351311	1.573273289	2.433788679	23.61304777	0.000121232535	0.004572229371	chr4	114899606	114900105
MRT_251709	1.572715029	2.208287342	11.33395971	0.002195141237	0.04443260568	chr3	64801434	64801933
MRT_616296	1.572629987	2.135614372	12.27400318	0.00229537552	0.04604327989	chr8	29729225	29729724
MRT_484348	1.572472526	2.201143338	15.35115179	1.18E-03	0.02726455662	chr6	55902865	55903364
MRT_192064	1.57238266	2.283391263	12.46170521	1.43E-03	0.03174488229	chr2	187757794	187758293
MRT_1134441	1.572373485	2.383118564	22.81766092	0.000255661277	0.008188520826	chr18	54265043	54265542
MRT_808303	1.572184601	2.776728527	16.10596146	0.000396304314	0.01156333003	chr11	61307418	61307917
MRT_163470	1.572127517	2.413299612	14.4303172	0.000704830756	0.01824046197	chr2	120147016	120147515
MRT_1134150	1.572013977	2.212132474	15.65460209	0.001039789949	0.02480705797	chr18	53711393	53711892
MRT_59725	1.57138278	2.492340023	21.41545596	9.88E-05	0.003885615824	chr1	117424341	117424840
MRT_192461	1.571109082	3.013297586	10.97547217	0.00252077864	0.04938530091	chr2	188418917	188419416
MRT_560479	1.571101832	3.067457144	11.72116954	1.89E-03	0.03947826748	chr7	66949910	66950409
MRT_933107	1.57053072	2.231730058	13.06099676	0.001150588658	0.02674739036	chr13	85219576	85220075
MRT_445298	1.570264397	2.296822154	11.31912772	0.002207673191	0.04462279226	chr5	157662207	157662706
MRT_1270451	1.570242646	2.115708604	11.91605118	0.002517663598	0.04933951558	chrX	133887337	133887836
MRT_320334	1.570189975	2.714740086	15.46282372	0.000492853940	0.01375068999	chr4	25770866	25771365
MRT_1267232	1.570180173	2.450011787	13.99253523	0.000822738324	0.02061461728	chrX	118801341	118801840
MRT_919975	1.569524445	2.428633382	25.02600259	0.000158833602	0.005633529389	chr13	45428457	45428956
MRT_1209379	1.569440505	2.88567604	16.36187417	0.000363730201	0.01078386076	chr21	17941935	17942434
MRT_1106782	1.56941421	2.561358144	25.29029124	4.89E-05	0.002242699929	chr17	75156046	75156545
MRT_19517	1.569089531	2.383274078	16.11092719	0.000395643213	0.01155179818	chr1	30792418	30792917

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_349791	1.568394818	3.845713913	12.01553547	0.001694491373	0.03623657374	chr4	111544090	111544589
MRT_179561	1.568199178	2.249457999	14.23490233	8.70E-04	0.02154996856	chr2	159812248	159812747
MRT_252912	1.568121874	2.303275212	14.88047985	0.000602318520	0.01608643234	chr3	66859244	66859743
MRT_544983	1.568121246	2.260233213	14.00943204	0.000892438728	0.02197467943	chr7	28109371	28109870
MRT_734072	1.568063561	2.663403502	17.21854725	0.000274033239	0.008665353266	chr10	29887639	29888138
MRT_328675	1.567818316	2.192316837	13.40916306	0.001177710674	0.02719347454	chr4	53707718	53708217
MRT_361436	1.567814507	2.318713681	19.52470925	0.000438655172	0.01252507657	chr4	143235141	143235640
MRT_703443	1.567719153	3.412863983	15.10759592	0.000556795731	0.01512219054	chr9	114836502	114837001
MRT_971595	1.567642744	2.455405516	28.1064668	1.21E-04	0.004550886736	chr14	77582532	77583031
MRT_34487	1.567590892	2.242663986	15.20872348	0.000816899252	0.02049260279	chr1	55969539	55970038
MRT_1051189	1.567067319	2.859809505	11.11473024	0.002388471967	0.04737069434	chr16	66060057	66060556
MRT_1026792	1.566766916	2.576222333	39.60844065	3.49E-05	0.001715423666	chr16	490549	491048
MRT_1194434	1.565591959	2.798474916	16.51631543	0.000345473965	0.01037090463	chr20	39988242	39988741
MRT_413180	1.565225851	2.3232509	23.22083528	0.000433352200	0.01240997809	chr5	81480505	81481004
MRT_490860	1.565156287	2.439705367	12.84940784	0.001243191812	0.02832895981	chr6	80275503	80276002
MRT_265375	1.565051792	2.173803113	13.62904611	0.00160228761	0.03457964041	chr3	106801194	106801693
MRT_354385	1.564505276	2.466066023	11.44497502	0.002103744585	0.04291329066	chr4	124509201	124509700
MRT_922990	1.564452803	2.374317248	23.17890129	0.000290178255	0.009053565869	chr13	51242824	51243323
MRT_809311	1.564077406	2.290506584	15.51460021	0.000626643857	0.01659978007	chr11	63257264	63257763
MRT_7135	1.563857875	2.408921216	14.33777135	0.000728148074	0.01870270007	chr1	11435026	11435525
MRT_505598	1.563769917	2.29226558	22.44661085	0.000569604768	0.01541229125	chr6	116856243	116856742
MRT_1164416	1.563730371	3.117942179	21.84000733	6.54E-05	0.002820757971	chr19	38422647	38423146
MRT_1213917	1.56358515	2.15236359	16.82107528	0.001761105229	0.03739628673	chr21	30491844	30492343
MRT_1110458	1.563502583	2.495348985	31.70234799	8.98E-05	0.00362089763	chr17	80356918	80357417
MRT_776332	1.563300983	2.368973851	22.7044144	0.000274840817	0.008686558748	chr10	123640290	123640789
MRT_786275	-1.562977335	3.989061765	12.24267887	0.001556242917	0.03379293171	chr11	6340334	6340833
MRT_364483	1.562906946	2.305754669	11.71827827	0.001895779575	0.03951508736	chr4	148892502	148893001
MRT_1267008	1.56290096	3.27149941	17.86717829	0.000222020989	0.007339921831	chrX	118323645	118324144
MRT_153830	1.562614703	2.758969688	21.89202343	6.44E-05	0.002785520819	chr2	96996872	96997371
MRT_1131426	1.562350008	2.488919646	16.47038363	0.000350798311	0.01048872604	chr18	47145149	47145648

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MRT_794554	1.562080289	2.16951058	12.10205542	1.64E-03	0.03529255468	chr11	22369521	22370020
MRT_748438	1.561847529	2.313071432	12.24165507	1.56E-03	0.03380006759	chr10	69856828	69857327
MRT_283154	1.561251192	2.16297423	14.44667019	0.001908284462	0.03972351083	chr3	142809266	142809765
MRT_775893	1.561247799	2.304888377	11.83787197	0.001811854088	0.03820527039	chr10	123068860	123069359
MRT_1041640	1.560765878	2.543779008	36.88182259	4.79E-05	0.002210717942	chr16	31033839	31034338
MRT_1094678	1.560673214	2.403531307	29.48486453	2.31E-04	0.007574166727	chr17	55127631	55128130
MRT_582775	1.56050288	2.339239167	19.17228422	0.000384406938	0.01128608092	chr7	116727888	116728387
MRT_733013	1.560189851	3.056755897	21.78669746	6.64E-05	0.002857599681	chr10	28034606	28035105
MRT_264886	1.560169032	2.271872393	13.02319272	0.001166572489	0.02700512048	chr3	105845687	105846186
MRT_760751	1.56007848	3.621657818	11.41584958	0.002127318562	0.04329996551	chr10	93644551	93645050
MRT_1263822	1.559916539	2.271877885	17.40548078	0.000847094841	0.02109984822	chrX	101859360	101859859
MRT_766416	1.559762272	2.234769964	29.12518042	0.000961272610	0.02329423963	chr10	103462957	103463456
MRT_898781	1.559721862	2.383947727	12.21575678	0.001571974181	0.0340587245	chr12	120130669	120131168
MRT_120001	1.559553808	2.227965376	19.55841727	9.85E-04	0.02377264898	chr2	18030410	18030909
MRT_932253	1.559404919	2.278169704	15.75664123	0.000716859207	0.01848386272	chr13	81348644	81349143
MRT_376948	1.559341956	2.117792055	11.63089606	0.002425931035	0.04791941083	chr4	182229026	182229525
MRT_709583	1.559333523	3.336478197	26.3050239	1.87E-05	0.001065363934	chr9	127018704	127019203
MRT_917266	1.559177575	2.290564854	11.90359546	0.001767446422	0.03749327639	chr13	40807812	40808311
MRT_745602	1.559052649	2.329795405	15.05412925	5.67E-04	0.01535787707	chr10	62560202	62560701
MRT_267224	1.559006133	2.281131099	14.76623413	0.000661415784	0.01732256073	chr3	111459842	111460341
MRT_759578	1.558688659	2.272080179	19.04074956	0.000865971669	0.02145655005	chr10	90788810	90789309
MRT_98117	1.55849632	3.180503342	15.25903089	0.000528507767	0.01453127122	chr1	223895296	223895795
MRT_46746	1.558294467	2.539746213	17.83148837	0.000224588006	0.00740649903	chr1	87254167	87254666
MRT_619246	1.557455676	2.379791676	11.22548387	2.29E-03	0.04592917462	chr8	37369972	37370471
MRT_330686	1.55736512	2.259554594	11.68203394	0.00192203533	0.03993765221	chr4	57564522	57565021
MRT_1119781	1.55735454	2.599745074	11.49783175	0.002061679724	0.04227826777	chr18	20687581	20688080
MRT_400364	1.55716284	2.772163349	18.1830155	0.000200630958	0.006818549574	chr5	54893362	54893861
MRT_1004375	1.55710558	2.215506445	15.54400621	1.12E-03	0.02631899842	chr15	62611847	62612346
MRT_873068	1.556544268	3.517282752	16.53082996	0.000343809579	0.01033580096	chr12	65718902	65719401
MRT_931990	1.55636382	3.937316457	12.53028144	1.40E-03	0.03112550974	chr13	80912949	80913448

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MRT_445024	1.55622787	2.44190035	12.97324112	0.001188060387	0.02736943536	chr5	157254401	157254900
MRT_244996	1.556153657	2.342942875	28.31807453	3.68E-04	0.01089749169	chr3	51593300	51593799
MRT_51067	1.556104207	2.412239797	18.17641188	0.000201054800	0.006830371815	chr1	95440186	95440685
MRT_543365	1.556044886	2.331485718	11.98526576	0.001713893133	0.03657131925	chr7	25407910	25408409
MRT_492574	1.556014381	2.470833836	23.72895076	0.000101674010	0.00396791428	chr6	84743840	84744339
MRT_774777	1.555965126	2.649002089	29.85285649	1.90E-05	0.001078133548	chr10	121123802	121124301
MRT_457042	1.555539181	2.801444656	45.13070201	3.38E-06	0.000289877778	chr6	1527243	1527742
MRT_1154117	-1.555139548	4.223735613	12.74541458	0.001291622009	0.02921212303	chr19	15333421	15333920
MRT_193142	1.554935399	2.392519024	11.48092541	2.08E-03	0.04246876814	chr2	189673498	189673997
MRT_881957	1.554837855	2.160002346	12.62376584	0.001715089249	0.03657478527	chr12	88346583	88347082
MRT_1153074	1.554724385	2.434305654	11.29821227	0.002225476666	0.044885866	chr19	13509474	13509973
MRT_868156	1.554643267	3.501264436	22.15958618	5.96E-05	2.62E-03	chr12	54145370	54145869
MRT_490800	1.554299933	2.424382461	19.3887096	0.000197661939	0.006733885168	chr6	80176120	80176619
MRT_1209183	-1.554034441	2.844955596	11.66740333	0.001932744828	0.04011330529	chr21	17691381	17691880
MRT_89702	1.553657854	3.316345707	19.51470671	0.000131961449	0.004887668989	chr1	205410127	205410626
MRT_323909	1.553535945	2.166388406	17.51937124	0.001446310601	0.03193061075	chr4	38532667	38533166
MRT_492586	1.552477481	2.454465249	17.01289393	0.000293148607	0.009122975181	chr6	84762425	84762924
MRT_446255	1.551961671	2.807394323	16.15449352	0.000389893687	0.01141367274	chr5	159602580	159603079
MRT_796161	1.551225237	2.174582385	15.52334056	0.001773893825	0.03758295066	chr11	27122167	27122666
MRT_1270861	1.550397907	2.260737079	12.90807583	0.001216736321	0.02785914475	chrX	135863329	135863828
MRT_89661	1.550070459	2.924633209	11.07985199	0.002420889861	0.04784964074	chr1	205343775	205344274
MRT_880152	1.549871693	2.457461607	14.37840036	0.000717810755	0.01848960385	chr12	81333271	81333770
MRT_1195995	1.549843351	2.483321818	13.45407028	0.000997694350	0.02402535889	chr20	43349232	43349731
MRT_1009791	1.549597233	2.188019321	12.7125405	0.00154827105	0.03364863097	chr15	71035192	71035691
MRT_285716	1.549367184	2.545324506	25.73273352	6.69E-05	0.002875510272	chr3	149306664	149307163
MRT_774783	1.549171717	2.460638181	25.2219876	0.000146884491	0.005289453197	chr10	121129808	121130307
MRT_1084369	1.548484398	3.054809219	11.01109967	0.002486192504	0.04885865201	chr17	36442481	36442980
MRT_776439	1.548209713	2.166215366	14.34814569	0.001539601201	0.03349464472	chr10	123786444	123786943
MRT_713846	1.548203745	2.750691024	19.69547764	0.000124789257	0.004679929251	chr9	133030886	133031385
MRT_1007657	1.548106298	2.462350987	22.03351538	0.000135352091	0.004979345519	chr15	67310282	67310781

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1175076	1.547940954	2.607560049	23.57237047	4.18E-05	0.001977506594	chr19	56637156	56637655
MRT_202324	1.547818364	2.465917066	10.98416748	0.002512289811	0.04926422287	chr2	209223603	209224102
MRT_620613	1.546968968	2.348503459	20.19904336	0.000401186744	0.01167066962	chr8	39752112	39752611
MRT_124327	1.546854524	2.283053051	16.9588657	7.17E-04	1.85E-02	chr2	26558601	26559100
MRT_618215	1.546407958	2.226955802	11.15501747	0.002351609032	0.04684911483	chr8	33657730	33658229
MRT_446254	1.54614346	2.744708882	20.78644704	8.95E-05	0.003610305879	chr5	159602041	159602540
MRT_98114	1.545886579	3.089671387	13.73520023	0.000901829583	0.0221714777	chr1	223893003	223893502
MRT_1047465	1.545828061	2.334352717	14.24153109	7.53E-04	0.01921202055	chr16	55536829	55537328
MRT_905650	1.545806049	3.017526576	22.46099082	5.46E-05	0.002444182249	chr12	133006776	133007275
MRT_982018	1.545478464	3.170006352	12.49115005	1.42E-03	0.0314990083	chr14	101131454	101131953
MRT_772547	1.545105111	2.275968022	15.00793521	0.000747131869	0.01908979121	chr10	116423242	116423741
MRT_703086	1.545031498	2.472754271	14.05553844	8.05E-04	0.02023199558	chr9	114237415	114237914
MRT_630717	1.544761334	2.232323213	11.56268705	0.002011302289	0.0414284802	chr8	67318411	67318910
MRT_248268	1.544358866	2.58385125	25.75176447	4.17E-05	0.001972448771	chr3	57177284	57177783
MRT_966114	1.544236916	3.132156846	11.16334678	0.002344064606	0.04675374905	chr14	68579156	68579655
MRT_879978	1.543728804	2.181935891	12.39504545	0.001848639975	0.03879391174	chr12	81026506	81027005
MRT_19023	1.543599557	2.149230729	20.82989408	0.002227712969	0.04491332803	chr1	29829946	29830445
MRT_478667	1.542960165	2.494282232	25.87545817	0.000113463374	0.004338441077	chr6	42812148	42812647
MRT_836335	1.542352504	2.445429906	16.6999329	0.000325041218	0.009879290167	chr11	120271487	120271986
MRT_179559	1.542162138	2.211612014	13.98790622	0.001407440299	0.03127935569	chr2	159810812	159811311
MRT_735528	1.541650835	3.381118456	14.28070421	0.000742939314	0.01900083021	chr10	32046675	32047174
MRT_128168	1.541622214	2.273698054	17.37994379	0.000932701028	0.02277593421	chr2	33089276	33089775
MRT_832136	1.541461718	2.136047765	12.75343125	0.002485398306	0.04885061347	chr11	113031299	113031798
MRT_510234	1.541216097	2.167559485	14.23950731	0.00188446174	0.03934383873	chr6	129802869	129803368
MRT_265580	1.54059603	3.367803262	12.09543671	0.001644406584	0.03535028214	chr3	107148091	107148590
MRT_634352	1.540437156	2.155580235	13.05634976	2.53E-03	4.95E-02	chr8	75106651	75107150
MRT_933286	1.539846009	2.148180857	13.94450316	0.002473154446	0.04867785086	chr13	85887850	85888349
MRT_772528	1.539595882	2.644679921	21.15642932	8.01E-05	0.003317768565	chr10	116392449	116392948
MRT_446253	1.538713146	2.344690083	18.41993033	4.21E-04	0.01212573209	chr5	159600184	159600683
MRT_953084	1.538493345	2.156028236	11.58663278	0.002070595151	0.04239631245	chr14	39016622	39017121

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_807360	1.538192057	2.725352623	28.00635489	1.19E-05	0.000751738618	chr11	59342508	59343007
MRT_476447	1.538077022	2.243825407	18.12538739	0.001183317886	0.02728789826	chr6	38763662	38764161
MRT_917471	1.537942495	2.456305885	12.30304524	0.001521583	0.03321088594	chr13	41152270	41152769
MRT_582773	1.537825342	2.343315694	17.9786807	0.000505540403	0.01403671443	chr7	116725308	116725807
MRT_464861	1.537536168	3.454548426	18.29157507	0.000193799133	0.006643329544	chr6	17393573	17394072
MRT_873077	1.537338156	3.142501899	12.40217931	0.001466457108	0.0322742705	chr12	65728242	65728741
MRT_319923	1.537153931	2.648395059	12.71007951	0.001308537472	0.02949031256	chr4	25175082	25175581
MRT_879884	1.537130299	2.269473643	13.07508995	0.001144690475	0.02662980038	chr12	80824709	80825208
MRT_708917	1.536997277	3.034257158	12.64324536	0.001341188646	0.03012609491	chr9	126080458	126080957
MRT_364461	1.5369257	2.365056684	13.70320825	9.12E-04	0.02237926911	chr4	148863751	148864250
MRT_542090	1.536769168	2.337792521	11.30595824	0.0022188652	0.0448061692	chr7	22974921	22975420
MRT_945739	1.536707999	2.446139971	13.16507902	0.001107788659	0.02606776749	chr14	21507115	21507614
MRT_248257	1.536664165	2.604530894	16.89158343	0.000305092647	0.009410535223	chr3	57164715	57165214
MRT_119152	1.536412637	3.057692075	26.5268652	1.76E-05	0.001016231841	chr2	16080290	16080789
MRT_572746	1.536376312	2.636372323	11.47325165	0.002081127216	0.04255323059	chr7	95179021	95179520
MRT_318875	1.536281106	2.364659939	12.28036301	0.001534507589	0.0334155774	chr4	22440318	22440817
MRT_863681	1.536028366	3.9014239	20.46938707	9.85E-05	0.003881856161	chr12	46662611	46663110
MRT_962592	1.535917627	3.085793201	37.91176916	1.12E-06	0.000124455903	chr14	61747327	61747826
MRT_489459	1.535366182	2.538612445	17.99108005	0.000213351147	0.007134241872	chr6	75944978	75945477
MRT_241370	1.535225173	3.040549787	27.8465043	1.24E-05	0.000777105505	chr3	45593094	45593593
MRT_46474	1.53447437	2.543118925	11.81837298	0.001825259497	0.03841130961	chr1	86622325	86622824
MRT_823798	1.534341856	2.63442238	11.39542912	0.002144016757	0.04355826067	chr11	91959107	91959606
MRT_428008	1.534278887	3.605544369	11.08192934	0.002418945809	0.04782612202	chr5	123008698	123009197
MRT_1201820	1.533845552	3.042168694	13.21429406	0.001088150963	0.0256819016	chr20	52514328	52514827
MRT_1088818	1.53365368	2.809206902	25.53568401	2.30E-05	0.001252680829	chr17	43115507	43116006
MRT_15724	1.533612359	2.877582972	33.19396457	3.29E-06	0.000284252723	chr1	25062774	25063273
MRT_873518	1.533538161	2.43899228	20.01782187	0.000212577241	0.007113989937	chr12	66304991	66305490
MRT_458033	1.533454278	2.46747052	19.7765256	1.81E-04	0.006283558729	chr6	3151864	3152363
MRT_1192623	1.532624713	2.245380028	14.79056048	0.000951048716	0.02311715464	chr20	36092567	36093066
MRT_776204	1.532171695	3.649256096	13.34050271	1.04E-03	0.02480565354	chr10	123496046	123496545

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_736754	1.532035614	2.498988754	17.699757	0.000234342501	0.007666390734	chr10	34405227	34405726
MRT_573877	1.53194184	2.306082767	12.98329815	0.00118370006	0.02728789826	chr7	98106101	98106600
MRT_82312	1.531356932	2.198607258	16.49268718	0.001765329383	0.03747970991	chr1	187449629	187450128
MRT_760332	1.531319209	2.323755885	15.99033887	0.000698751318	0.01810529617	chr10	92792442	92792941
MRT_142898	1.531191277	2.818658676	17.30794412	0.000266145558	0.008464469838	chr2	65503629	65504128
MRT_214830	1.531137101	2.363043319	14.71514544	0.000637971282	0.01684005195	chr2	235304611	235305110
MRT_844410	1.53086805	2.254863606	18.08114644	0.000922204591	0.02256741215	chr12	791719	792218
MRT_1034792	1.530617277	2.638519475	17.83407644	0.000224400789	0.007403059874	chr16	15592570	15593069
MRT_1071670	1.530323063	2.298792268	15.05585564	0.000711803291	0.01837965363	chr17	9103536	9104035
MRT_582755	1.530274819	2.273774276	17.64677672	0.000938422898	0.02288041713	chr7	116702010	116702509
MRT_1090532	1.529658911	3.392525535	13.31444852	0.001049336052	0.0249655766	chr17	46079528	46080027
MRT_695173	1.52926884	2.155376383	16.90066917	0.002205067547	0.04457990916	chr9	97437861	97438360
MRT_202605	1.529109309	2.543361817	12.19199324	0.001586002368	0.03429821387	chr2	210290168	210290667
MRT_1087830	1.528897635	2.591824837	18.65024532	0.000172947532	0.006051207545	chr17	41691314	41691813
MRT_844438	1.528861033	2.722846556	27.16875207	1.48E-05	0.000889709653	chr12	833516	834015
MRT_119085	1.528676115	2.38445246	12.66800779	1.33E-03	0.02990262685	chr2	15965872	15966371
MRT_1259694	1.528307072	2.507593018	23.68006054	0.000139671162	0.005091995453	chrX	70322830	70323329
MRT_766474	1.528261612	2.950400112	46.45947191	6.97E-07	8.54E-05	chr10	103535837	103536336
MRT_378828	1.528007169	2.621977374	14.67824746	6.46E-04	0.01701576268	chr4	185672204	185672703
MRT_616242	1.52774336	2.663798709	22.06586735	6.12E-05	0.002667962129	chr8	29630872	29631371
MRT_957921	1.527706473	2.559891655	15.51227645	0.000484598056	0.01357460414	chr14	53325685	53326184
MRT_301671	1.527687844	2.329818427	13.60344386	0.000945461397	0.02299897408	chr3	185742897	185743396
MRT_413112	1.527045581	2.346641453	23.24071737	0.000557724094	0.01514091989	chr5	81391314	81391813
MRT_962195	1.526913412	3.629398285	35.5559796	1.90E-06	0.000184668114	chr14	61123149	61123648
MRT_347535	1.526798035	2.244755204	17.78115726	0.001109808488	0.02610561012	chr4	106272237	106272736
MRT_320222	1.526781626	2.46099465	17.09717465	0.000285146846	0.008929054055	chr4	25622961	25623460
MRT_24763	1.52614172	2.750798496	14.04579252	0.000807322081	0.02028846619	chr1	39624184	39624683
MRT_1151325	1.526048922	3.395864917	24.58899142	2.98E-05	0.00151966774	chr19	10735904	10736403
MRT_1011093	1.525947531	2.261655687	15.13406075	1.12E-03	0.02625856186	chr15	73165874	73166373
MRT_1099773	1.524936931	2.691679031	14.45931067	0.000697692079	0.01808523958	chr17	62703233	62703732

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_766770	1.524606198	3.10658783	37.08901327	1.34E-06	0.000143239525	chr10	103986270	103986769
MRT_163453	1.52441787	2.69648097	27.37114942	1.88E-05	0.001070693256	chr2	120123161	120123660
MRT_435685	1.524124189	2.767513905	13.78853544	8.85E-04	0.02182686138	chr5	138052070	138052569
MRT_712666	1.524057754	2.571718852	26.60841131	6.26E-05	0.00271661167	chr9	131369989	131370488
MRT_239432	1.523616199	2.987670832	12.38112479	1.48E-03	0.03248282849	chr3	42066434	42066933
MRT_35757	1.52340101	2.415145761	18.49208515	0.000291803986	0.009089063547	chr1	59239063	59239562
MRT_151535	1.523317661	2.324032375	22.05333547	0.000703448051	0.01820839391	chr2	86139193	86139692
MRT_774779	1.52309236	2.578069258	19.94576724	0.000115541569	0.004395500718	chr10	121125368	121125867
MRT_962183	1.522881135	2.912248797	16.47550874	0.000350199867	0.01048478465	chr14	61108980	61109479
MRT_958420	1.522740656	2.313524653	13.56713856	0.000957879825	0.02323866293	chr14	54055968	54056467
MRT_36675	1.522691411	2.338716224	12.04421136	0.001676329584	0.03591479501	chr1	61416130	61416629
MRT_240069	1.522611499	2.189535182	12.72359821	1.92E-03	0.03990640645	chr3	43097218	43097717
MRT_290273	1.522501894	2.405150279	12.56311128	1.38E-03	0.03084879026	chr3	159548574	159549073
MRT_962581	1.522450988	2.82940891	14.27403993	0.000744687611	0.01903586617	chr14	61733836	61734335
MRT_932414	1.522316535	2.173752944	14.89841978	0.002218352214	0.04480397357	chr13	81635860	81636359
MRT_508723	1.521898284	2.16227509	12.57339516	0.002349520375	0.04683216855	chr6	125314705	125315204
MRT_738766	1.521763096	2.220661446	11.20476108	0.002306938852	0.04623136079	chr10	37728677	37729176
MRT_734097	1.521606168	2.628935117	16.90600549	0.000303645663	0.009377305583	chr10	29917914	29918413
MRT_767429	1.521474615	2.182256874	12.19091389	0.002037476612	0.04186477217	chr10	104905770	104906269
MRT_320594	1.520729127	2.285641888	17.79414922	0.000838722791	0.02093242158	chr4	26142458	26142957
MRT_1168098	1.520719343	2.308668413	16.00278079	0.000874846360	0.0216423373	chr19	45137203	45137702
MRT_542068	1.520347194	2.235711667	17.10504657	1.35E-03	0.03026898337	chr7	22925511	22926010
MRT_408017	1.520278462	2.18261697	16.31446147	0.002195468922	0.04443260568	chr5	71893397	71893896
MRT_411092	1.520265442	2.181450489	24.5840592	0.0016485838	0.03543407519	chr5	78106718	78107217
MRT_297372	1.520264543	2.645562314	13.62918508	0.000936761581	0.02284869585	chr3	177451729	177452228
MRT_372407	1.520096858	2.573092388	11.45572045	0.002095118636	0.04278119222	chr4	169402772	169403271
MRT_154208	1.520015585	3.329749515	16.33304302	0.000367251767	0.01087048091	chr2	97573045	97573544
MRT_1214058	1.519881772	2.723762943	17.08803069	0.000286003527	0.008945738941	chr21	30714814	30715313
MRT_57105	1.51966294	2.75903196	24.34739703	3.19E-05	0.00160035072	chr1	112267833	112268332
MRT_290288	1.519443958	2.419045401	11.18324173	0.002326149933	0.04649880229	chr3	159574203	159574702

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_839526	1.519385746	3.522106425	33.8139204	2.84E-06	0.000253020795	chr11	125931487	125931986
MRT_290387	1.519357052	2.674447403	18.19799309	2.00E-04	0.006790151501	chr3	159721290	159721789
MRT_95742	1.519101949	2.197618235	12.12371937	0.001862548933	0.039040577	chr1	218698495	218698994
MRT_702844	1.518151904	3.791313342	11.30045504	2.22E-03	0.04486526142	chr9	113800269	113800768
MRT_1097949	1.517736391	2.235740653	17.01364215	0.001470036057	0.03233620418	chr17	59887307	59887806
MRT_436231	1.517634253	3.040139051	16.02254074	0.000407589787	0.01181358389	chr5	138854677	138855176
MRT_1110430	1.517580711	2.733263898	19.81122758	0.000120417412	0.004546895516	chr17	80325664	80326163
MRT_1131508	1.517521048	2.1948622	16.12064238	0.001766351144	0.03748258005	chr18	47265026	47265525
MRT_662178	1.517479042	2.503498707	16.31715264	0.000369208345	0.01091057112	chr8	141369933	141370432
MRT_668884	1.517278868	2.386874041	13.71319012	0.000908964819	0.02231229804	chr9	6938319	6938818
MRT_471505	1.516927444	2.562777629	19.70308262	0.000124496851	0.004672585819	chr6	31062050	31062549
MRT_348496	1.516752289	2.280023451	11.79087253	0.001844348059	0.03874872315	chr4	108662042	108662541
MRT_394554	1.516321438	2.339231257	13.43703727	0.001003845076	0.02415971279	chr5	36302389	36302888
MRT_442545	1.515878924	2.557913394	23.30657709	9.69E-05	0.003832662752	chr5	151087087	151087586
MRT_1107919	1.515779507	2.512616729	20.29530849	0.000128732424	0.004791998237	chr17	76763880	76764379
MRT_525626	1.515729515	2.25202173	13.88153749	0.001200880035	0.02755289768	chr6	160852258	160852757
MRT_119936	1.51541888	2.595983393	28.33314921	5.62E-05	0.002494232253	chr2	17936263	17936762
MRT_752398	1.515198408	2.965207886	13.62855017	0.000936975123	0.02284951025	chr10	75666584	75667083
MRT_734591	1.515193738	2.631459953	11.20577882	0.002306034535	0.04622054112	chr10	30652442	30652941
MRT_330660	1.514820733	2.881520577	29.80926867	7.51E-06	0.000532740985	chr4	57522431	57522930
MRT_809500	-1.514252866	4.422973772	13.05671861	0.001152385591	0.02675973527	chr11	63531290	63531789
MRT_939481	1.514076384	2.487160974	23.6986695	0.000133587564	0.004934025974	chr13	101174549	101175048
MRT_1181571	1.513908513	2.205290327	13.2325981	0.001727823578	0.03679428738	chr20	11658257	11658756
MRT_1099582	1.513668588	3.156527127	17.12988968	0.000282104351	0.008849968661	chr17	62403962	62404461
MRT_772527	1.513378734	2.627410203	26.59715246	4.85E-05	0.002231418422	chr10	116391559	116392058
MRT_1027192	1.512546402	3.530524915	18.0537347	0.00020910609	0.00702563227	chr16	1026528	1027027
MRT_524254	1.512145867	2.437978961	17.93819741	0.000266382273	0.008465629982	chr6	158621818	158622317
MRT_227682	1.511843236	3.562190654	15.86027958	4.31E-04	0.0123518524	chr3	15838635	15839134
MRT_577798	1.511526884	2.67146373	24.74226848	2.94E-05	0.00150454722	chr7	105093843	105094342
MRT_726734	1.511233685	2.765358758	16.05947486	0.000402551137	0.01170230826	chr10	14216080	14216579

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1199365	1.511155215	3.337343778	24.2465854	3.28E-05	0.00163315434	chr20	48780204	48780703
MRT_895551	1.510990752	2.506928594	28.20051449	0.000154557041	0.005506485338	chr12	113679177	113679676
MRT_587845	1.510938199	3.364307878	26.39431915	1.82E-05	0.001044945062	chr7	130069998	130070497
MRT_988764	1.51067109	2.920817946	25.81700658	2.13E-05	0.001182372455	chr15	28702729	28703228
MRT_490900	1.510529197	2.309839025	20.90270032	0.00077599842	0.01965707681	chr6	80340076	80340575
MRT_716120	1.510265481	2.929256177	21.38537202	7.48E-05	0.003146051765	chr9	136391840	136392339
MRT_89651	1.510169359	2.50095634	14.82615167	0.000613791417	0.01632409742	chr1	205329969	205330468
MRT_435694	1.509514853	2.662092585	15.2184554	0.000535932344	0.01469399978	chr5	138060946	138061445
MRT_726332	1.509164807	2.458343592	17.07631953	0.000287104766	0.008973545084	chr10	13650141	13650640
MRT_882750	1.509125787	2.523160657	11.12544437	0.002378607988	0.04726435305	chr12	90177073	90177572
MRT_919881	1.508753199	2.19305575	12.71102998	0.002032664698	0.04179137532	chr13	45289775	45290274
MRT_1269188	1.508661414	2.189675989	11.76304859	0.002131256214	0.04336152561	chrX	128967581	128968080
MRT_135341	1.50742627	2.685766832	17.96852993	0.000214901572	0.007176626132	chr2	47216329	47216828
MRT_138338	1.50741554	2.330531978	14.39804009	0.000834940083	0.0208626459	chr2	55324874	55325373
MRT_704096	1.507060211	3.069572595	34.68121467	2.32E-06	0.000216969429	chr9	115916670	115917169
MRT_839588	1.506988641	2.663313858	17.61383337	0.000240949704	0.007840075619	chr11	126010707	126011206
MRT_545001	1.506615989	2.541806076	12.34714697	0.001496788102	0.03279952006	chr7	28133171	28133670
MRT_328696	1.5064344	2.817318084	13.23113497	0.001081517537	0.02554911441	chr4	53735137	53735636
MRT_512841	1.506340806	2.41864757	19.53365481	3.43E-04	0.0103213092	chr6	134770915	134771414
MRT_296213	1.505154765	2.277717258	14.79851402	0.001213327152	0.02780373652	chr3	175021951	175022450
MRT_55309	1.504605084	2.52698935	23.69108715	0.000143484591	0.005187777843	chr1	109127931	109128430
MRT_975965	1.504129784	2.403678126	11.35042882	0.002181315957	0.04419569138	chr14	90228830	90229329
MRT_636085	1.50385736	2.27565302	14.01063414	0.001265264141	0.0287338428	chr8	80789058	80789557
MRT_1062236	1.503808211	2.567433129	11.76814322	0.001860287491	0.03901251714	chr16	84966036	84966535
MRT_263528	1.503545467	2.410170845	20.57129411	3.75E-04	0.01104179576	chr3	101439859	101440358
MRT_438166	1.50345265	3.084909956	14.17607324	7.71E-04	0.01956448118	chr5	141930710	141931209
MRT_969971	1.503185159	3.405871962	24.59182831	2.98E-05	0.001519081078	chr14	75076399	75076898
MRT_808305	1.502780345	3.24014626	12.76391794	0.001282858311	0.02906574687	chr11	61309099	61309598
MRT_185249	1.501019874	2.25927646	20.12502753	0.00126899484	0.02879278918	chr2	172172234	172172733
MRT_79171	1.500681854	2.930374091	22.18135312	5.92E-05	0.002601324908	chr1	180894641	180895140

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1061715	1.500557275	3.366217576	40.91058764	5.89E-07	7.51E-05	chr16	84299932	84300431
MRT_561796	1.500150817	2.386389807	12.26772798	1.54E-03	0.03353504066	chr7	69598272	69598771
MRT_830643	1.500146628	2.209668273	11.45561553	0.002095202675	0.04278119222	chr11	110001329	110001828
MRT_74824	1.499997799	2.95990578	12.64385112	0.001340888793	0.03012609491	chr1	172190243	172190742
MRT_643448	1.499802364	2.343240359	16.34392145	0.000654655590	0.01717678675	chr8	99531493	99531992
MRT_657495	1.499749061	2.600532044	21.61941196	7.56E-05	0.00316906524	chr8	130855400	130855899
MRT_1020161	1.499049232	2.891648833	18.46388125	0.000183463552	0.006343897565	chr15	90717557	90718056
MRT_1072556	1.499012655	2.413452961	13.73080871	0.000903248396	0.02219775374	chr17	10527092	10527591
MRT_536036	1.498895238	2.225003276	14.38837102	0.001724974415	0.03675536834	chr7	7594373	7594872
MRT_428057	1.49870699	2.266375548	17.57534592	0.001236214999	0.0282054494	chr5	123114211	123114710
MRT_885508	1.498587599	2.4366807	13.79252873	8.84E-04	0.02181193869	chr12	94955791	94956290
MRT_1146331	1.498534418	2.580488525	13.13895764	1.12E-03	0.02625856186	chr19	2846167	2846666
MRT_364475	1.498519441	2.336604385	12.88856263	0.001225467544	0.02802577541	chr4	148882761	148883260
MRT_679388	1.498241201	3.61462064	16.8901426	0.000305237614	0.009411004016	chr9	33523306	33523805
MRT_808407	1.498217627	2.953246656	12.58507608	0.001370322035	0.03063695135	chr11	61443205	61443704
MRT_672057	1.497268362	2.305886363	19.81166784	0.000888454819	0.02189358434	chr9	14783337	14783836
MRT_814050	1.497254292	2.279232388	12.60012441	0.001362720413	0.03052162311	chr11	70456613	70457112
MRT_892483	1.496913504	3.797714174	12.46857067	0.001430744811	0.0316807066	chr12	109198133	109198632
MRT_664104	1.496794255	2.222988149	25.98599758	0.001805304829	0.03810518101	chr8	144137027	144137526
MRT_679248	1.496712795	2.315522784	11.85471141	0.001800362569	0.03803778017	chr9	33320724	33321223
MRT_522009	1.49669496	2.951870474	11.46075425	0.002091090858	0.04272940516	chr6	154731639	154732138
MRT_590260	1.496404738	2.738787433	26.24639546	1.90E-05	0.001076463701	chr7	134232186	134232685
MRT_859167	1.495535757	2.407938818	17.5406099	0.000402279485	0.01169977444	chr12	31671680	31672179
MRT_1197023	1.495274139	2.533749331	19.70152692	0.000124556606	0.004672585819	chr20	45277463	45277962
MRT_920330	1.495209955	3.5235985	25.14932406	2.55E-05	0.001357943229	chr13	45906323	45906822
MRT_879442	1.494932171	2.57539175	12.48828233	0.001420323182	0.03151596754	chr12	79941192	79941691
MRT_713389	-1.494879458	3.628497065	12.33913249	0.001501261414	0.03287769096	chr9	132427628	132428127
MRT_854000	1.494847123	2.886423652	19.5419315	0.000130853556	0.00485566999	chr12	19584720	19585219
MRT_491009	1.494754521	2.848707922	27.01266722	1.54E-05	0.0009150849	chr6	80523470	80523969
MRT_586400	1.493931767	2.596939728	18.32519775	1.92E-04	0.006580773304	chr7	128022454	128022953

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_57867	1.493522049	2.534699684	19.73856379	0.000136416533	0.0050064394	chr1	113599511	113600010
MRT_752437	1.492644164	3.102238765	17.54009491	0.000246779615	0.007982669153	chr10	75716371	75716870
MRT_325419	1.492490357	2.906835247	14.42674367	0.000705716047	0.01825220008	chr4	40720336	40720835
MRT_1184169	1.492488022	2.287305281	20.75394238	0.00113076871	0.02643197908	chr20	17847789	17848288
MRT_504712	1.492429743	2.336918109	12.56093674	0.001382611601	0.03086262529	chr6	114168585	114169084
MRT_969998	1.492340965	2.743725911	12.19108735	0.001586539798	0.03430398717	chr14	75108730	75109229
MRT_942959	1.49188099	2.370815711	19.05595779	0.000612205791	0.01629901539	chr13	111774369	111774868
MRT_1114198	1.49180174	2.286461856	13.36457243	0.001291984826	0.02921511917	chr18	6681356	6681855
MRT_966441	1.49138274	2.729346934	13.59353588	0.000948833178	0.02306772233	chr14	68984777	68985276
MRT_1007849	1.49128023	2.186634788	16.96957434	0.002394762448	0.04743671721	chr15	67600171	67600670
MRT_645451	1.491207275	2.408700527	15.85442951	0.000436092433	0.0124715553	chr8	102914526	102915025
MRT_249118	1.49101703	2.385415795	14.55186617	0.000675419303	0.01763337572	chr3	58542544	58543043
MRT_1090731	1.489494381	2.386513532	12.85113675	0.00124240338	0.02832117007	chr17	46360929	46361428
MRT_656784	1.489237421	2.290357581	18.2924131	0.001148833409	0.0267212794	chr8	129806696	129807195
MRT_116357	1.489187022	2.396635269	12.94474477	0.001200509554	0.02755235093	chr2	10720198	10720697
MRT_859813	1.488893483	2.51417068	17.40565712	0.000257802338	0.008244604599	chr12	32688136	32688635
MRT_1061692	1.48887655	2.980334825	11.3727761	0.002162706259	0.04386067887	chr16	84269077	84269576
MRT_198943	1.488519119	2.421139605	11.49925429	0.002060560249	0.04226214403	chr2	203008912	203009411
MRT_893277	1.488383172	2.45369112	19.86247039	0.000312764682	0.009584246371	chr12	110387542	110388041
MRT_320595	1.488302687	2.35497762	20.86214313	0.000600829836	0.01605343407	chr4	26143152	26143651
MRT_290285	1.487786718	2.920584322	13.38048797	0.001024560055	0.02453924773	chr3	159570734	159571233
MRT_19035	1.487265698	2.299982788	16.95372144	0.001074272864	0.02541584116	chr1	29846153	29846652
MRT_354261	1.486264912	3.805815741	11.10161677	0.002400605065	0.04753760232	chr4	124317676	124318175
MRT_958257	1.486180281	3.184022307	11.33378298	0.002195290109	0.04443260568	chr14	53822346	53822845
MRT_128175	1.485861033	2.198241952	13.73491601	0.002432343332	0.04801616096	chr2	33108222	33108721
MRT_535272	-1.485678097	2.88954526	11.28972551	0.002232744846	0.0449933206	chr7	6219095	6219594
MRT_101741	1.484828168	2.326288574	16.32492976	0.000886068066	0.02184750332	chr1	229979564	229980063
MRT_1154442	1.484316395	4.567777688	12.01582236	0.001694308624	0.03623657374	chr19	15890651	15891150
MRT_691329	1.484102063	2.200243972	12.77584202	0.002332161432	0.04656026493	chr9	90192605	90193104
MRT_102252	1.484001512	2.677907952	12.30057761	0.001522983375	0.03321858527	chr1	230889330	230889829

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_202678	1.483991704	2.404543789	14.29094031	0.000740262593	0.0189562822	chr2	210444085	210444584
MRT_929418	1.483985204	2.92123592	12.83397672	1.25E-03	0.02847155175	chr13	74707065	74707564
MRT_464862	1.483747296	2.996719077	22.14351964	5.98E-05	0.002624272507	chr6	17394237	17394736
MRT_620293	1.483360599	4.099690356	14.57241633	0.000670578636	0.01752930147	chr8	38793988	38794487
MRT_428549	1.483059452	3.563124598	16.81845818	0.000312544357	0.009582124965	chr5	123991608	123992107
MRT_1050631	1.481867638	2.394037207	14.37592105	0.000718437023	0.01850197795	chr16	64982592	64983091
MRT_1245874	1.481848542	3.253528557	23.96523725	3.55E-05	0.00173728016	chrX	9308563	9309062
MRT_695627	1.481532789	2.788073073	15.07047318	0.000563976068	0.01528120927	chr9	98012800	98013299
MRT_239433	1.481342536	3.772730664	12.13049526	0.001622936798	0.03497172372	chr3	42066988	42067487
MRT_1198441	1.481160444	2.422837825	15.34565053	0.000513025587	0.01417993365	chr20	47514142	47514641
MRT_351052	1.481052991	2.402820841	13.0524188	0.001154194669	0.02679193386	chr4	114367902	114368401
MRT_866533	1.480562807	2.433043852	28.56642464	0.000427532478	0.01228214142	chr12	51465512	51466011
MRT_908901	1.480545447	2.413718249	15.54516612	0.000479189733	0.01345827073	chr13	24230747	24231246
MRT_138686	1.480440691	2.660076879	21.84568685	6.53E-05	0.002818924405	chr2	55852708	55853207
MRT_11694	1.479812506	3.376823302	21.37313901	7.51E-05	0.003154652376	chr1	19276134	19276633
MRT_622273	1.479704028	2.396890257	14.6890615	0.000643800484	0.01697272721	chr8	42409840	42410339
MRT_87092	1.479498625	3.258060254	30.55004071	6.24E-06	0.000462677254	chr1	201500324	201500823
MRT_119086	1.479488875	2.372374565	13.74971188	0.000897158210	0.02207802959	chr2	15966502	15967001
MRT_839543	1.479433895	2.350454277	15.55910813	0.000755761452	0.01925210847	chr11	125954305	125954804
MRT_300876	1.479383605	2.908868262	21.73242548	6.75E-05	0.002891905647	chr3	184405411	184405910
MRT_709929	1.479349054	2.315958449	13.93505625	0.001102127865	0.02594418812	chr9	127486850	127487349
MRT_1198275	1.479240225	2.724160994	18.45579003	0.000183935407	0.006356747544	chr20	47299235	47299734
MRT_636007	1.478966148	3.008978922	18.67593468	1.72E-04	0.006012243292	chr8	80678544	80679043
MRT_1266795	1.478876612	2.225793224	11.95426953	1.81E-03	0.03812838035	chrX	117729546	117730045
MRT_864060	1.478802891	2.70320362	12.64379754	0.001340915312	0.03012609491	chr12	47413851	47414350
MRT_409982	1.478526067	3.04209425	11.00179604	2.50E-03	0.04900479391	chr5	76034566	76035065
MRT_1179808	1.478100909	2.420460619	13.03467597	0.001161692128	0.02691670796	chr20	5718418	5718917
MRT_412931	1.477737614	3.792599859	17.75335364	0.000230319907	0.007567978021	chr5	81153324	81153823
MRT_217186	1.477159851	2.804374228	27.28364063	1.44E-05	0.000869317785	chr2	239151771	239152270
MRT_1085000	1.477152556	3.00391038	36.21873812	1.63E-06	0.000164887135	chr17	37323667	37324166

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_66888	1.477042219	2.836310738	20.69108261	9.21E-05	0.003680163265	chr1	155938371	155938870
MRT_150815	1.47694986	2.573358787	15.61134532	0.000468503068	0.01320785023	chr2	85126296	85126795
MRT_716110	1.476938037	2.610039934	16.12790806	3.93E-04	0.01150193889	chr9	136374362	136374861
MRT_1212996	1.476816006	3.31056969	12.36254854	0.001488231961	0.03266846877	chr21	28215208	28215707
MRT_119056	1.476548352	2.593735333	11.37714233	0.002159090337	0.04382278807	chr2	15936326	15936825
MRT_226744	1.476542544	2.977158884	16.37010808	0.000362731152	0.01075791002	chr3	14494349	14494848
MRT_858227	1.47624962	2.48444679	18.90021392	0.000230447454	0.007570207822	chr12	29705212	29705711
MRT_26292	1.476066333	3.044473358	25.42322773	2.37E-05	0.00127962138	chr1	41884405	41884904
MRT_426920	1.475916066	2.381396325	13.22069128	0.001085626031	0.02563184884	chr5	119801266	119801765
MRT_765729	1.475221771	2.956438743	14.04184909	0.000808452843	0.02030481345	chr10	102495293	102495792
MRT_62358	1.474980818	2.883826407	21.73951136	6.74E-05	0.002888796576	chr1	145451358	145451857
MRT_1107152	1.474188784	2.257945196	10.96941633	0.002526708981	0.04947319291	chr17	75673262	75673761
MRT_99507	1.474067622	2.776987784	20.98607815	8.43E-05	0.003451776853	chr1	226266040	226266539
MRT_251783	1.473663184	2.317308027	11.2774222	0.002243327124	0.04512770062	chr3	64930877	64931376
MRT_657538	1.472613394	2.595541897	37.60351665	9.99E-05	0.003913541955	chr8	130906622	130907121
MRT_878176	1.472217128	2.423073932	17.92386523	5.08E-04	0.01407362473	chr12	77260516	77261015
MRT_789659	1.471459198	2.497329099	16.52077142	0.000344962076	0.01035817234	chr11	12270958	12271457
MRT_503520	1.471021267	3.862712173	14.87362853	0.000603752563	0.01610777297	chr6	111926488	111926987
MRT_1214067	1.471020902	2.350914737	15.78231329	0.000800647465	0.02016067513	chr21	30723849	30724348
MRT_573868	1.470951649	2.398172101	13.54504323	0.000965523570	0.02337492204	chr7	98093764	98094263
MRT_290460	1.47052608	2.316138567	14.82272601	0.001032355238	0.02466625322	chr3	159824783	159825282
MRT_204505	1.470417218	2.422976634	15.04095976	0.000569755685	0.01541229125	chr2	216221787	216222286
MRT_25105	1.470150848	3.44163252	12.99189423	0.001179986811	0.02723115851	chr1	40111951	40112450
MRT_542089	1.470102467	2.346972123	13.61263878	0.000945401527	0.02299897408	chr7	22974195	22974694
MRT_1210257	1.469732247	2.478747059	14.32993029	0.000730161477	0.01873733155	chr21	19352932	19353431
MRT_836861	1.469507853	3.27117517	22.77910363	4.98E-05	0.002269171956	chr11	121065487	121065986
MRT_865267	1.469450573	4.272922244	11.10388224	0.002398504222	0.04750341731	chr12	49686456	49686955
MRT_16073	1.469323165	2.656331239	22.38863775	5.66E-05	0.002509614847	chr1	25526299	25526798
MRT_942816	1.469280599	3.019052959	45.54053483	1.16E-06	0.000128127832	chr13	111539504	111540003
MRT_1250219	1.469230549	2.463099192	12.04993399	1.67E-03	0.03586191401	chrX	23814436	23814935

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_374214	1.468953704	4.029495436	28.57185444	1.03E-05	0.000674317503	chr4	174090424	174090923
MRT_912236	1.468713447	2.271400328	24.31162932	0.001414569831	0.03141578533	chr13	30957056	30957555
MRT_353847	1.468623669	2.404011166	13.7032031	0.000912222442	0.02237926911	chr4	123632908	123633407
MRT_788507	1.468377834	2.842212776	17.53382087	0.000247282604	0.007995916453	chr11	10338982	10339481
MRT_1188563	1.468204124	2.706484025	17.50343484	0.000249734288	0.008053597438	chr20	30400019	30400518
MRT_954888	1.468039	2.237364691	18.18188121	0.0021841442	0.04424592644	chr14	45535097	45535596
MRT_490648	1.467952248	2.269412826	13.66113383	0.001549309609	0.03366449782	chr6	79894116	79894615
MRT_277090	1.4679512	2.217535478	13.8892521	0.001915740031	0.03983294609	chr3	130786772	130787271
MRT_361684	1.467693729	3.206617888	23.54027874	4.00E-05	0.001905994432	chr4	143767454	143767953
MRT_1018214	1.467303621	3.181897856	18.50463132	0.000181106817	0.006283558729	chr15	86293525	86294024
MRT_477640	1.466800243	3.254710998	18.4497894	0.000184286187	0.006363668484	chr6	41395210	41395709
MRT_441449	1.466262255	2.553957612	17.87542222	0.000221432533	0.00732720428	chr5	149374843	149375342
MRT_709885	1.466247143	4.57678005	15.83467738	0.000434290339	0.01243123016	chr9	127421428	127421927
MRT_893500	1.466002801	2.93102534	22.39082047	5.57E-05	0.002475115874	chr12	110686979	110687478
MRT_802840	1.465976251	2.477556577	18.59688694	0.000303182110	0.009367551718	chr11	44345047	44345546
MRT_255664	1.465774026	2.566316809	13.85371841	0.000864431049	0.02142647014	chr3	72955737	72956236
MRT_132942	1.465462148	2.804573226	28.87238081	1.13E-05	0.000723963149	chr2	43154535	43155034
MRT_1071669	1.465255475	2.591339834	12.99967351	0.001176637212	0.02719347454	chr17	9102822	9103321
MRT_766431	1.464832721	2.202681621	16.5198759	0.002191498441	0.04437364517	chr10	103484468	103484967
MRT_1026030	1.464742856	2.911844371	27.33736331	1.42E-05	0.000862188193	chr15	101667752	101668251
MRT_872884	1.464470954	2.236216082	12.40407318	0.001819050071	0.03829334384	chr12	65409972	65410471
MRT_951379	1.46426454	2.56541133	22.85493516	0.000161150055	0.005691814575	chr14	35177795	35178294
MRT_1051317	1.464210944	2.433005405	11.87057665	0.001789607773	0.03786838711	chr16	66209171	66209670
MRT_1055349	1.463770683	2.301875581	14.03194722	0.001218390484	0.02788907031	chr16	72035323	72035822
MRT_372887	1.46344762	3.108609802	11.47527538	0.002079518605	0.04253405302	chr4	170020982	170021481
MRT_832061	1.463202836	2.455995062	17.51673301	0.000383641735	0.01126883183	chr11	112832896	112833395
MRT_892408	1.46316418	4.367640078	28.7529492	9.81E-06	0.000650741299	chr12	109086034	109086533
MRT_866176	1.463083878	2.354524211	16.77191122	0.000935850981	0.02283526805	chr12	50936089	50936588
MRT_412593	1.462368663	2.773196093	12.55871243	0.001383749978	0.03087186364	chr5	80705563	80706062
MRT_917485	1.462100857	2.49848025	11.8936988	0.001774057566	0.03758295066	chr13	41170523	41171022

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_643901	1.462002882	2.584322692	11.23514679	0.002280103613	0.04578038019	chr8	100252971	100253470
MRT_1159698	1.461598943	2.587904612	28.5671632	0.000120553116	0.004550664859	chr19	30290033	30290532
MRT_411217	1.461198312	2.450911218	14.86747659	0.000605043352	0.01613542232	chr5	78317537	78318036
MRT_875028	1.460974434	2.389466292	22.16739073	0.000638184066	0.01684216352	chr12	69256684	69257183
MRT_853845	1.460357209	2.502884146	15.44123557	0.000496505301	0.01383734419	chr12	19391960	19392459
MRT_618304	1.459787085	2.25450262	13.37906624	1.82E-03	0.03826987194	chr8	33969562	33970061
MRT_762072	1.459764337	2.901272327	29.80251351	7.52E-06	0.000533348351	chr10	95753365	95753864
MRT_51063	1.459693352	2.321161163	16.7857479	0.000959403030	0.02325782185	chr1	95436276	95436775
MRT_1099804	1.459392617	2.76872861	11.09010642	0.002411309761	0.04769066504	chr17	62738259	62738758
MRT_874733	1.459083032	2.439675476	11.59312298	0.001988120137	0.04106191653	chr12	68772846	68773345
MRT_872580	1.459012325	2.537277134	32.11476932	0.000190745653	0.006559933342	chr12	64962881	64963380
MRT_949504	1.458720437	2.559330243	16.59228013	0.000336857971	0.01018475421	chr14	31560558	31561057
MRT_1088821	1.458525135	3.177186209	20.88723548	8.68E-05	0.003521568132	chr17	43117790	43118289
MRT_157	1.458262481	3.116948933	17.48883658	0.000250921420	0.008079555067	chr1	914504	915003
MRT_816344	1.458203406	2.32725191	13.51438167	0.001137788936	0.0265373891	chr11	74156102	74156601
MRT_873230	1.458099455	2.351724965	25.76076735	0.000940514098	0.02291869472	chr12	65912413	65912912
MRT_214222	1.457592056	2.321364247	15.08052042	0.001076026352	0.02544308844	chr2	234119164	234119663
MRT_657602	1.457308385	3.424705497	31.60455797	4.81E-06	0.000380607442	chr8	130996430	130996929
MRT_709577	1.457187296	2.644203903	26.53898094	7.41E-05	0.003121760554	chr9	127011287	127011786
MRT_265581	1.457111921	4.351950044	15.13388686	0.000551770021	0.01501463182	chr3	107148618	107149117
MRT_350292	1.456798251	2.259496009	15.58982741	0.001805222455	0.03810518101	chr4	113199228	113199727
MRT_640132	1.456218167	3.162048486	19.27476402	1.42E-04	0.005154207429	chr8	93115201	93115700
MRT_407789	1.455211639	2.370140701	13.7510377	0.000896732725	0.02207184134	chr5	71507153	71507652
MRT_1201823	1.454348922	3.611701087	15.11583706	0.000555215098	0.01509218855	chr20	52517224	52517723
MRT_265426	1.45402678	2.61567604	12.40305596	1.47E-03	0.03226935493	chr3	106870882	106871381
MRT_1199090	1.45402449	2.481316434	21.92942752	0.000316415547	0.009675084254	chr20	48385520	48386019
MRT_11526	1.45362181	2.305526261	15.86280681	0.001564903205	0.03392870652	chr1	19019999	19020498
MRT_438165	1.453529069	2.899596071	20.60716419	9.45E-05	0.003761866619	chr5	141929506	141930005
MRT_123042	1.453513808	2.892349653	22.4546193	5.47E-05	0.002444182249	chr2	24716724	24717223
MRT_367223	1.453505054	2.599474666	16.57416523	0.000338891394	0.01023159987	chr4	154385177	154385676

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_204752	1.453339705	2.228790142	15.74226973	0.002127547701	0.04329996551	chr2	216648960	216649459
MRT_959140	1.453295941	2.622368994	11.87178286	1.79E-03	0.03785746104	chr14	55104682	55105181
MRT_55383	1.453294665	3.688774579	30.76561337	5.91E-06	0.000443287790	chr1	109235724	109236223
MRT_798985	1.451794548	2.594727927	20.22177923	0.000112175581	0.004294499751	chr11	33728272	33728771
MRT_504693	1.451750757	2.23165037	11.89427475	0.002220552441	0.04481883327	chr6	114134252	114134751
MRT_473660	1.451019707	2.970317092	31.96692949	4.41E-06	0.000357235739	chr6	34624326	34624825
MRT_597094	1.450916316	2.276289755	13.06076615	0.001791132801	0.0378943349	chr7	148624185	148624684
MRT_252324	1.45090246	2.602554146	11.05070509	0.00244834526	0.04827945005	chr3	65858724	65859223
MRT_962229	1.450832751	2.444685426	23.75657889	0.000462276318	0.01306425014	chr14	61180252	61180751
MRT_1060415	1.45040451	2.582457917	17.1288571	0.000282199845	0.008850775264	chr16	81465071	81465570
MRT_313012	1.45030851	2.806636776	16.41527707	0.000357302870	0.0106380639	chr4	7464220	7464719
MRT_372429	1.449602979	2.564756931	13.41172957	1.01E-03	0.02433605651	chr4	169436421	169436920
MRT_50996	1.449477135	3.429678992	11.29933366	0.002224518205	0.04487745221	chr1	95349570	95350069
MRT_201767	1.449347936	2.533915046	19.00117029	2.19E-04	0.007265437922	chr2	208338788	208339287
MRT_198902	1.449144414	2.414004497	16.90715047	0.000685729743	0.01783713007	chr2	202948856	202949355
MRT_610153	1.449084573	2.880801994	15.90422053	0.000424193295	0.0121972642	chr8	17270628	17271127
MRT_252278	1.449002693	2.419118561	12.43367927	1.45E-03	0.03197643566	chr3	65800553	65801052
MRT_1154443	1.448101299	3.648333955	13.37590104	0.001026260405	0.02456865086	chr19	15891426	15891925
MRT_805266	1.447794743	2.635903675	11.40273778	0.002138024125	0.04344347194	chr11	47879610	47880109
MRT_820286	1.44750584	2.255113151	13.35354067	0.002422734395	0.04787117841	chr11	82257998	82258497
MRT_5192	1.447197911	2.870140687	24.80527318	2.81E-05	0.001453781893	chr1	8787951	8788450
MRT_1079870	1.447027755	2.422709603	14.29363165	0.000739560537	0.0189459546	chr17	28037853	28038352
MRT_478623	1.446290088	3.28418201	17.88112264	0.000221026614	0.007321412807	chr6	42754703	42755202
MRT_962184	1.446150658	2.747074253	18.32667232	0.000191644210	0.006580773304	chr14	61109632	61110131
MRT_252908	1.44602947	2.349763954	12.34533807	0.001497796489	0.03281594748	chr3	66853701	66854200
MRT_1255774	1.445643196	3.341024245	12.56183228	0.001382153557	0.03085795885	chrX	47359851	47360350
MRT_523860	1.444762974	2.26858616	19.64375333	2.14E-03	0.04356586335	chr6	158088732	158089231
MRT_511943	1.444682753	2.239194151	11.96221186	0.001990808612	0.04110405657	chr6	133407001	133407500
MRT_1041257	1.44460063	3.475410506	17.3138774	0.000265630757	0.008450216068	chr16	30383367	30383866
MRT_122980	1.444325948	2.295723451	19.95593459	0.001533345792	0.03340439372	chr2	24627491	24627990

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_632680	1.444296833	2.253200094	11.15748558	0.002349370772	0.04683216855	chr8	71860596	71861095
MRT_324160	1.44397555	2.468365308	15.94694105	0.000418116050	0.01205257527	chr4	38948546	38949045
MRT_1034810	1.443912326	2.700419973	12.3679235	0.0014852584	0.03261865792	chr16	15612894	15613393
MRT_1014428	1.443742423	2.340428983	14.4809549	0.001075835828	0.02544308844	chr15	78651250	78651749
MRT_565486	1.44371758	2.323193981	21.30029943	0.001259138158	0.02863060759	chr7	76949607	76950106
MRT_353849	1.443579887	2.296790869	11.80848044	1.83E-03	0.03851782229	chr4	123638750	123639249
MRT_464808	1.443431058	2.416684098	12.27855065	0.00153554539	0.033429345	chr6	17278978	17279477
MRT_437431	1.443256405	3.005862359	24.26688831	3.26E-05	0.001626460736	chr5	140900790	140901289
MRT_886332	1.442843396	2.308245557	11.17504144	0.002333516017	0.04657997647	chr12	96231937	96232436
MRT_970410	1.442696805	2.908199868	20.56129453	9.58E-05	0.003803662138	chr14	75705414	75705913
MRT_154199	1.442035164	3.104436038	15.34933801	5.12E-04	0.01417689298	chr2	97561092	97561591
MRT_704372	1.441995206	2.762738752	22.26869538	5.77E-05	0.002546847269	chr9	116330887	116331386
MRT_252340	1.441899483	2.440594036	15.84642138	0.000546898449	0.0149108594	chr3	65874916	65875415
MRT_350804	1.441791514	2.415045672	12.59459615	0.001365507701	0.03056163821	chr4	113985335	113985834
MRT_1137442	1.441512094	2.399276741	12.71113329	0.00130802957	0.02948855714	chr18	60458019	60458518
MRT_990410	1.441443928	2.272856216	21.57572304	0.001983727585	0.04098454218	chr15	33313972	33314471
MRT_1270377	1.440550047	2.680898353	15.15269736	0.000548204215	0.01494003728	chrX	133678819	133679318
MRT_873262	1.440091216	2.87940977	14.72976084	0.000634729902	0.01677064741	chr12	65959715	65960214
MRT_748768	1.438878717	4.006778905	35.88199752	1.76E-06	0.000175297344	chr10	70358841	70359340
MRT_645990	1.438804482	3.343481734	14.57338151	6.70E-04	0.01752699471	chr8	103741512	103742011
MRT_348495	1.438600956	2.286883726	11.5874803	0.002031296779	0.04177679514	chr4	108661540	108662039
MRT_895567	1.437473238	2.517169095	21.27789924	0.000321206876	0.009783850373	chr12	113697329	113697828
MRT_1020309	1.437037935	3.013427335	15.81235721	0.000437585581	0.01250078478	chr15	90944023	90944522
MRT_875340	1.436211045	3.245710045	19.59311431	0.000128797656	0.004791998237	chr12	69809559	69810058
MRT_1081217	1.436152611	2.650947518	14.4502109	0.000699924177	0.01812827918	chr17	30023117	30023616
MRT_1267009	1.436075361	3.158120624	11.74138489	0.0018792431	0.03927367265	chrX	118324150	118324649
MRT_587601	1.434955495	2.905500626	11.46344711	0.002088939617	0.04269232475	chr7	129767556	129768055
MRT_503519	1.434862668	3.144738864	16.7018626	0.000324833509	0.009875343548	chr6	111925906	111926405
MRT_121237	1.434462323	3.097662295	30.43426417	6.42E-06	0.000473229914	chr2	20650428	20650927
MRT_729815	1.43392834	2.327662063	11.89424473	0.00177369218	0.03758295066	chr10	21448613	21449112

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_192481	1.433664764	2.426152047	14.61265566	0.000661207904	0.01732256073	chr2	188440544	188441043
MRT_1040237	1.433628246	2.900074341	17.17056465	0.000278370152	0.008767519226	chr16	28299443	28299942
MRT_290255	1.433145935	2.267633634	15.03957815	0.002063381555	0.04229948862	chr3	159524243	159524742
MRT_572200	1.432832121	2.798901467	13.73328025	0.000902449594	0.02218242091	chr7	94062124	94062623
MRT_962416	1.432672012	2.369756363	13.35158365	0.001142825066	0.02659616045	chr14	61503888	61504387
MRT_500583	1.432610661	2.244417101	10.96738236	0.00252870417	0.04950234059	chr6	107179468	107179967
MRT_1112738	1.432458675	4.555497759	18.87986322	0.000160872810	0.005685188638	chr18	3595450	3595949
MRT_349203	1.432037807	2.350511465	14.24450945	0.001108948075	0.02609020963	chr4	110333022	110333521
MRT_784124	1.431494174	3.239613721	18.58004745	1.77E-04	0.00617004858	chr11	2001066	2001565
MRT_492738	1.431301453	2.205978661	13.25311968	0.002506332507	0.04918585444	chr6	85073645	85074144
MRT_125860	1.431163661	2.788706773	24.61791099	2.96E-05	0.001509937922	chr2	28939173	28939672
MRT_326818	1.430908495	2.303569478	11.51212847	0.002050458624	0.04210261763	chr4	44929299	44929798
MRT_93558	1.430886453	2.589592473	19.45290206	2.00E-04	0.006790151501	chr1	213154411	213154910
MRT_57423	1.430677565	2.323367334	12.56310035	0.001456798561	0.03210795497	chr1	112902833	112903332
MRT_94250	1.430372131	2.844407613	15.6770516	0.000458145967	0.01297064412	chr1	214618432	214618931
MRT_142030	1.429987005	2.405172797	17.00372859	0.000869047283	0.02152406623	chr2	64120073	64120572
MRT_395369	1.429326886	2.364944335	21.94044565	0.001044058275	0.0248679976	chr5	37668546	37669045
MRT_1024750	1.429048084	3.239022677	15.56760404	0.000475537352	0.01337345998	chr15	99557912	99558411
MRT_623343	1.428374376	2.977676269	13.32030042	0.001047114747	0.02492207765	chr8	48572947	48573446
MRT_1120744	1.428014069	2.448243699	11.15696522	0.002349842477	0.04683216855	chr18	22165948	22166447
MRT_180380	1.427370784	2.461766646	16.54188279	0.000548065645	0.01493947089	chr2	161070811	161071310
MRT_119154	1.427264272	2.780417227	20.04266644	0.000112161351	0.004294499751	chr2	16081647	16082146
MRT_354236	1.426725607	2.465589076	13.08785356	0.001139376844	0.02654982705	chr4	124272961	124273460
MRT_896942	1.426119575	2.700539614	13.56619866	9.58E-04	0.02324207332	chr12	116559187	116559686
MRT_1147340	1.425920586	2.448993479	13.086325	0.0011400118	0.02655017566	chr19	4291126	4291625
MRT_796147	1.425723462	2.445467321	11.86342211	0.001794449114	0.03794550832	chr11	27105915	27106414
MRT_831552	1.42553026	2.52705433	18.27873306	0.000381725960	0.01121775497	chr11	111828269	111828768
MRT_752616	1.425280107	2.692439888	26.91958158	8.30E-05	0.003409624721	chr10	75967753	75968252
MRT_872679	1.425227234	2.916375568	21.34426542	7.57E-05	0.003171749899	chr12	65087722	65088221
MRT_796229	1.424888316	2.342061989	12.7610033	0.001477500076	0.03247785869	chr11	27216502	27217001

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MRT_1198894	1.424503219	2.568933659	22.88518835	0.000247883934	0.008006139773	chr20	48127279	48127778
MRT_716168	1.423503934	2.354005865	14.69526616	0.00109595105	0.02584195119	chr9	136445998	136446497
MRT_570073	1.423108925	2.363979749	14.64385589	0.001287672468	0.02915398962	chr7	89785510	89786009
MRT_499913	1.42304622	2.353760884	15.02635985	0.00142641256	0.03161789771	chr6	105775228	105775727
MRT_151088	1.422652274	2.903955519	11.63254947	0.001958517915	0.04057606358	chr2	85504765	85505264
MRT_962523	1.422199467	2.467195889	17.76265998	0.000535221089	0.01468402155	chr14	61654049	61654548
MRT_119814	1.421807714	2.690583045	14.48613517	0.000691156715	0.01794517315	chr2	17721010	17721509
MRT_885511	1.42154679	2.417687086	11.06975743	0.002430360777	0.04798449233	chr12	94959986	94960485
MRT_868101	1.421044041	3.935857624	12.3739941	0.001481907693	0.03255781748	chr12	54052651	54053150
MRT_767436	1.420599046	2.502883846	14.15670203	0.000776206492	0.01965842137	chr10	104914716	104915215
MRT_628903	1.420297492	2.887842117	17.57601751	0.000243920790	0.007920493987	chr8	61822329	61822828
MRT_426919	1.419856847	2.648770385	12.96254048	0.001192718775	0.02741671575	chr5	119800591	119801090
MRT_512249	1.419189846	2.379466561	11.94660217	0.001739024338	0.03700174684	chr6	133824373	133824872
MRT_89663	1.419109023	2.740262041	11.01028614	2.49E-03	0.04886648779	chr1	205345239	205345738
MRT_901744	1.418802881	3.008903725	12.51388312	0.001406909953	0.0312730489	chr12	124393915	124394414
MRT_119815	1.418640813	3.125272865	12.56047226	0.001382849232	0.03086262529	chr2	17721547	17722046
MRT_942814	1.418312932	2.712972473	26.55630945	7.52E-05	0.003156606886	chr13	111538253	111538752
MRT_795621	1.41761887	2.651600095	12.27536951	0.001537368813	0.03345755595	chr11	26290401	26290900
MRT_1151337	1.417554545	3.04678109	19.31953639	0.000140204879	0.005098264229	chr19	10753079	10753578
MRT_692563	1.417480656	2.480263354	14.41658256	0.000708239862	0.01831000708	chr9	92451719	92452218
MRT_73178	1.416819599	3.378075509	15.2866138	0.000523523818	0.0144192443	chr1	169074671	169075170
MRT_196269	1.416401034	2.736110811	10.94854654	0.002547261989	0.04977344432	chr2	197264835	197265334
MRT_171281	1.416281257	3.811814116	12.76163842	0.001283934484	0.02907974042	chr2	136875831	136876330
MRT_806379	1.416128458	2.829080086	23.24222272	4.36E-05	0.002044096682	chr11	57060650	57061149
MRT_1067429	-1.415318331	2.947590199	10.94926008	2.55E-03	0.04976732236	chr17	2115852	2116351
MRT_636010	1.41511183	3.888963158	23.0100636	4.66E-05	0.002153708868	chr8	80680418	80680917
MRT_560480	1.415098913	2.725589197	12.86734817	0.001235036675	0.02818363471	chr7	66950418	66950917
MRT_79877	1.415076687	4.666400362	16.7787743	0.000316669975	0.009678944439	chr1	182360719	182361218
MRT_597803	1.414985489	2.585822743	19.79097472	0.000209895138	0.007048408779	chr7	150082443	150082942
MRT_438082	1.414777377	2.413444464	14.12271264	0.000785602677	0.01986069961	chr5	141833554	141834053

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_831762	1.414715062	2.29491121	12.96416558	0.002120088109	0.04318972939	chr11	112192375	112192874
MRT_265583	1.414525833	3.673065863	22.07631146	6.10E-05	0.002663478533	chr3	107150461	107150960
MRT_726733	1.414151494	2.558937643	13.56909046	0.000957207717	0.02323124448	chr10	14215564	14216063
MRT_297069	1.412987457	2.382787648	12.25425324	1.55E-03	0.03366449782	chr3	177088113	177088612
MRT_189140	1.412760061	2.422848424	13.40050257	0.001017176194	0.02440183948	chr2	179269081	179269580
MRT_570266	1.412347125	2.562354228	29.44918456	2.72E-04	0.008612118197	chr7	90226555	90227054
MRT_690599	1.412220633	3.066323087	11.18698807	0.002322793062	0.0464536637	chr9	89048813	89049312
MRT_64372	1.411926421	2.487701138	19.05730168	0.000435592970	0.01246289167	chr1	151447551	151448050
MRT_1123818	1.411875112	2.617549475	14.80247247	0.000618865325	0.01643491723	chr18	31157931	31158430
MRT_424023	1.411589148	2.487428111	16.65477125	0.000604589512	0.01612671004	chr5	112215207	112215706
MRT_788590	1.411471168	2.652379694	17.26376263	0.000270012846	0.00857241785	chr11	10476960	10477459
MRT_636125	1.41143169	2.318402043	12.15669726	0.001901315959	0.03961746483	chr8	80843949	80844448
MRT_1148047	1.41127503	3.58265703	13.91808353	0.000844823283	0.02106100605	chr19	5308972	5309471
MRT_436763	1.410515422	2.339647049	12.93784639	1.89E-03	0.03946729152	chr5	139674902	139675401
MRT_437451	1.41051037	2.993701676	11.07403617	0.002426341501	0.04792005573	chr5	140938399	140938898
MRT_542433	1.410468993	4.536273535	12.3192906	0.00151239838	0.03307288293	chr7	23510685	23511184
MRT_57870	1.410156372	2.505504728	16.74298895	0.000448124208	0.01274666648	chr1	113601732	113602231
MRT_398226	1.409335295	2.58414281	14.90623834	0.000596959738	0.01598370096	chr5	44389340	44389839
MRT_668897	1.409249285	2.550474864	11.62562654	0.001963681173	0.04063657007	chr9	6955114	6955613
MRT_989333	1.408636664	2.298307276	17.97147892	0.001885705756	0.03935685435	chr15	30077812	30078311
MRT_24752	1.408464476	2.590085844	13.28300855	1.06E-03	0.02518544731	chr1	39607996	39608495
MRT_155563	1.407984052	2.639330326	12.55277473	0.001386793796	0.03093050764	chr2	100231799	100232298
MRT_503491	1.407222779	2.641443915	23.95316414	0.000146085916	0.005268256156	chr6	111888412	111888911
MRT_117656	1.407204995	2.561381956	12.57601529	0.001374921106	0.03071811582	chr2	12492929	12493428
MRT_998229	1.406996989	3.301561889	13.66132784	0.000926019079	0.02263891748	chr15	49255671	49256170
MRT_990558	1.406829328	2.701132435	20.98833743	8.42E-05	0.003450554483	chr15	33602799	33603298
MRT_1134296	1.406305723	2.473060437	13.40155842	0.00101678826	0.0243971476	chr18	53981495	53981994
MRT_213755	1.406008034	2.786944562	16.17465561	0.000387263329	0.01134951837	chr2	233441741	233442240
MRT_572490	1.405966003	2.593628074	18.20439348	0.000231716817	0.007597249639	chr7	94674845	94675344
MRT_1147328	1.40524511	2.85421296	16.40275309	0.000358799160	0.01066585107	chr19	4277978	4278477

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_267280	1.404675664	2.900019625	19.18681002	0.000146125842	0.005268256156	chr3	111578382	111578881
MRT_79124	1.404272618	2.344373397	17.36564491	0.001546384834	0.03361915907	chr1	180823420	180823919
MRT_438126	1.404212998	2.403170644	14.14449093	0.000968277559	0.02342817933	chr5	141887102	141887601
MRT_24782	1.404201099	2.799346126	20.75433057	9.04E-05	0.003633697119	chr1	39649617	39650116
MRT_6246	1.404144522	2.484199178	12.00313895	0.001702408284	0.03638133989	chr1	10256670	10257169
MRT_479466	1.403521502	2.669512123	18.24317642	0.000196813549	0.006719421183	chr6	43978859	43979358
MRT_868102	1.402783319	3.155609678	13.78822441	0.000884886712	0.02182686138	chr12	54053187	54053686
MRT_1081476	1.402587344	2.901677141	28.2202028	1.29E-05	0.000799446858	chr17	30429655	30430154
MRT_863682	1.402426981	2.991764407	21.22013867	7.86E-05	0.003263819315	chr12	46663437	46663936
MRT_1150852	1.401598344	2.784168761	32.50233434	3.87E-05	0.001854709003	chr19	9995883	9996382
MRT_962821	1.401277248	2.447941991	12.30990867	0.001517695313	0.03314884921	chr14	62076221	62076720
MRT_962543	1.400995353	2.333868477	17.46410658	0.001530720556	0.03335866169	chr14	61684022	61684521
MRT_268905	1.400619459	2.365164377	11.14554385	0.002360221838	0.0469742819	chr3	114567017	114567516
MRT_1119889	1.400565163	2.335073504	18.15764711	0.001760861403	0.03739628673	chr18	20824270	20824769
MRT_624226	-1.39997113	3.651822606	12.64254709	0.00134153438	0.03012609491	chr8	49834276	49834775
MRT_487489	1.399712873	2.585518106	23.10201054	0.000286114059	0.008946989808	chr6	70876180	70876679
MRT_1203984	1.399034034	2.840010923	11.93716026	0.001745221754	0.03711493224	chr20	57263821	57264320
MRT_1213944	1.398901139	2.626321056	11.76107069	0.001865277534	0.03907807817	chr21	30535723	30536222
MRT_1168100	1.398607833	2.47840356	12.6137277	0.001355887865	0.03039460613	chr19	45139053	45139552
MRT_839593	1.397355977	2.552681411	15.70924217	0.000453161976	0.01285536707	chr11	126016638	126017137
MRT_868111	1.39657054	3.719933574	22.77674828	4.98E-05	0.002269897598	chr12	54071509	54072008
MRT_300869	1.394588443	2.620100644	20.05674232	1.81E-04	0.006277992136	chr3	184396815	184397314
MRT_419495	1.394438661	3.887943659	20.61468446	9.43E-05	0.003754505345	chr5	98104714	98105213
MRT_1082875	1.394120142	3.443078307	11.66245157	0.001936384051	0.04016355941	chr17	33760109	33760608
MRT_504958	1.393877068	2.85290545	20.948526	8.52E-05	0.003474841776	chr6	114664531	114665030
MRT_894148	1.393712259	2.881225553	11.45699892	0.002094094883	0.04277700601	chr12	111615942	111616441
MRT_248277	1.392843697	2.689775156	14.69719543	0.000641976597	0.01693168223	chr3	57191380	57191879
MRT_620732	1.392668396	2.292717265	13.61440406	0.002560680967	0.04998944278	chr8	39949369	39949868
MRT_1119804	1.392375082	2.806040491	20.90543286	8.63E-05	0.003507984721	chr18	20714176	20714675
MRT_1165571	1.391979611	2.410520611	21.26137829	1.10E-03	0.02591436488	chr19	40302756	40303255

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_89620	1.391815526	2.942767169	19.17170082	0.000146816706	0.005288653838	chr1	205286456	205286955
MRT_1061695	1.391713583	2.840464507	13.40866218	0.001014182385	0.02434435481	chr16	84273462	84273961
MRT_966109	1.39149004	2.630552144	14.86070125	0.000606468376	0.01616243614	chr14	68576200	68576699
MRT_587846	1.391130349	4.551325179	13.52520296	0.000972443192	0.02350367105	chr7	130070541	130071040
MRT_320457	1.390267518	2.305289513	13.25778257	0.001853432221	0.03888804339	chr4	25939339	25939838
MRT_263078	1.390248919	2.368952783	23.75093339	0.00126251675	0.02868685945	chr3	100515303	100515802
MRT_1027254	1.390110309	2.999153059	17.63163038	0.000239564921	0.007807034239	chr16	1100903	1101402
MRT_503464	1.390051452	2.500232831	19.32266241	0.000568677552	0.01539215722	chr6	111855501	111856000
MRT_1193044	1.389884975	2.397971877	12.07051988	0.001659851752	0.03562796363	chr20	36737252	36737751
MRT_500995	1.389766045	2.915836261	23.87954591	3.64E-05	0.001773583874	chr6	107816300	107816799
MRT_836893	1.389695959	2.563471719	13.60175545	0.000946035067	0.02300851617	chr11	121117046	121117545
MRT_354278	1.389305651	2.509565796	13.25146287	0.001073568609	0.02540391809	chr4	124337097	124337596
MRT_670918	1.389295704	2.369438881	12.94567397	0.001392282061	0.03102401668	chr9	13102699	13103198
MRT_1091478	1.388871707	2.686023258	13.02802696	0.001164515256	0.02696734125	chr17	47484034	47484533
MRT_302205	1.388675121	2.431144886	11.75247689	0.001871360356	0.03915409426	chr3	186695062	186695561
MRT_437957	1.388243364	3.17189476	15.49412709	4.88E-04	0.01363439187	chr5	141683760	141684259
MRT_113660	1.386612624	2.394824427	11.59109844	0.001989653184	0.04108688895	chr2	5768473	5768972
MRT_1048818	1.386048486	2.339297063	14.28564306	0.002120042527	0.04318972939	chr16	57852701	57853200
MRT_1237663	1.385991331	4.074489888	17.54094169	0.000246711813	0.007982669153	chr22	41050367	41050866
MRT_1198785	1.385981463	2.314384416	16.23153478	0.002403089194	0.04757936541	chr20	47983421	47983920
MRT_367053	1.385786935	2.572620188	12.45029611	0.001440480315	0.03182959587	chr4	154125777	154126276
MRT_318856	1.385547904	2.558964547	19.89524975	3.23E-04	0.009830958156	chr4	22420420	22420919
MRT_1164760	1.385236676	2.641557459	17.48709518	0.000251063435	0.008080025316	chr19	38925121	38925620
MRT_1159684	1.384859371	2.623448299	21.70675723	0.000216198351	0.007206649588	chr19	30272499	30272998
MRT_4685	1.384739244	2.564187923	16.11598931	0.000396505024	0.01156365103	chr1	8108152	8108651
MRT_1041667	1.384639236	2.760454154	15.89896217	0.000424947869	0.01221619177	chr16	31076261	31076760
MRT_99296	1.384506581	2.892637332	11.9140797	0.001760471756	0.03739628673	chr1	225956293	225956792
MRT_733192	1.382673828	3.006603602	35.83012075	5.78E-06	0.000435604620	chr10	28530547	28531046
MRT_1165067	1.381560814	3.219703824	36.94829189	1.39E-06	0.000146565348	chr19	39368580	39369079
MRT_367065	1.381472376	2.732791427	12.93545243	0.001204599423	0.02762324412	chr4	154153871	154154370

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_816029	1.380203229	3.036423003	12.58520593	1.37E-03	0.03063695135	chr11	73577530	73578029
MRT_503508	1.379859428	2.448888154	24.34597468	0.000918557590	0.02250856519	chr6	111913543	111914042
MRT_1212937	1.379712209	2.355842096	14.93035815	1.95E-03	0.04044305954	chr21	28092024	28092523
MRT_796121	1.378446179	2.457909119	14.91514104	0.000851499870	0.02118184528	chr11	27062166	27062665
MRT_808278	1.378246943	2.923787407	16.19813024	3.84E-04	0.01128334626	chr11	61281837	61282336
MRT_975865	1.377850715	2.452003219	19.71933078	0.001043427937	0.02485835358	chr14	90091319	90091818
MRT_12313	1.377036772	2.408810518	14.4833303	0.00119361849	0.02742597963	chr1	20142221	20142720
MRT_1229589	1.376798362	2.316246549	11.94866615	0.002204771842	0.04457990916	chr22	27941062	27941561
MRT_7608	1.376628072	2.919518152	12.02974775	0.001685463679	0.03607392849	chr1	12127822	12128321
MRT_74712	1.376467288	3.084727346	15.06458082	0.000565124911	0.01530579821	chr1	172059303	172059802
MRT_761800	1.37627444	2.484061267	15.85807744	0.000767174091	0.01949193883	chr10	95262716	95263215
MRT_49794	1.376176017	2.538710096	17.84810903	0.000469604431	0.01323007739	chr1	93325141	93325640
MRT_252917	1.375281935	2.857612114	18.10047755	0.000205998240	0.006954373405	chr3	66866431	66866930
MRT_563508	1.374719627	3.095583941	18.82421013	0.000163713831	0.005763108557	chr7	73176576	73177075
MRT_359	1.374555888	3.805661024	22.45795154	5.46E-05	0.002444182249	chr1	1182326	1182825
MRT_108359	1.374340245	3.047574151	15.38131857	0.000506792821	0.01405610337	chr1	244437520	244438019
MRT_419507	1.373891626	2.559053979	17.71291682	0.000421025420	0.01212573209	chr5	98123010	98123509
MRT_167379	1.373686801	2.404189822	20.79981984	0.00132764272	0.02987761476	chr2	128725989	128726488
MRT_651005	1.373636756	3.087894262	12.75613395	0.001286537183	0.02913348636	chr8	117856240	117856739
MRT_6723	1.373274984	3.59141962	18.13197181	0.000203932247	0.006901158654	chr1	10853862	10854361
MRT_587847	1.372716465	3.433487358	29.92263435	7.30E-06	0.000521931312	chr7	130071275	130071774
MRT_62360	1.372112531	4.445455813	11.85908096	0.001797393574	0.03798470432	chr1	145455246	145455745
MRT_534912	1.371278483	2.95689964	22.02611481	6.19E-05	0.002690886103	chr7	5673912	5674411
MRT_1001974	1.371170908	2.329776576	13.85150692	2.41E-03	0.04769066504	chr15	57513482	57513981
MRT_954045	1.370360332	3.127721928	10.99665341	0.002500154337	0.04907979804	chr14	42075050	42075549
MRT_563512	1.370142295	3.159012817	16.41306304	3.58E-04	0.01064229823	chr7	73184423	73184922
MRT_241371	1.370110801	2.732161392	28.69602085	9.70E-05	0.003835415785	chr3	45593840	45594339
MRT_281953	1.369062737	2.443215621	18.54436643	0.001061086299	0.02518372373	chr3	140823200	140823699
MRT_806706	1.367769813	3.235406613	16.47300052	0.000350492607	0.01048650923	chr11	57545870	57546369
MRT_1000051	1.367704565	2.98213866	21.48753992	7.26E-05	0.003068641679	chr15	52587780	52588279

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_290375	1.367416816	2.546604728	17.80465018	0.000472182414	0.01329679936	chr3	159707886	159708385
MRT_265411	1.366375494	2.324504333	14.23108105	0.002465628788	0.04857495522	chr3	106851456	106851955
MRT_504732	1.36616483	3.042607004	12.16817458	0.001600198672	0.03454043539	chr6	114200582	114201081
MRT_1234265	1.365194641	2.792342572	19.90441817	0.000117017135	0.004439650425	chr22	36129566	36130065
MRT_79202	1.364210879	2.957552195	18.29211738	0.000193765639	0.006643329544	chr1	180924965	180925464
MRT_1164467	1.363954578	3.631585379	17.45570298	2.54E-04	0.00814429724	chr19	38494086	38494585
MRT_484783	1.363243922	2.429462813	17.74188836	0.001363937461	0.03054266312	chr6	56705725	56706224
MRT_796137	1.362572546	2.460629771	11.43360632	0.00211291263	0.04306430348	chr11	27084227	27084726
MRT_776262	1.362078499	2.763557143	16.04143739	0.000405003437	0.01174936092	chr10	123563262	123563761
MRT_922840	1.361373268	2.614104289	13.14013811	0.001117886032	0.0262566587	chr13	50961099	50961598
MRT_1145275	1.360436734	3.297126778	23.55381044	3.99E-05	0.001900803126	chr19	1287791	1288290
MRT_845924	1.360382383	2.915534946	17.43398788	0.000255436210	0.008185064192	chr12	3142554	3143053
MRT_24780	1.359975641	2.493522494	13.89522887	0.000854165974	0.02123844093	chr1	39644194	39644693
MRT_503516	1.359894551	3.213879638	16.55220477	0.000341374198	0.0102796427	chr6	111923089	111923588
MRT_400368	1.359784747	3.013094735	13.67805513	0.000920481174	0.02254698903	chr5	54896855	54897354
MRT_278798	1.358638705	2.513447343	15.15198346	0.000717778766	0.01848960385	chr3	134382553	134383052
MRT_844883	1.358515064	2.750521138	17.391286	0.000259011581	0.008277015598	chr12	1427741	1428240
MRT_1224645	-1.358037504	3.252613711	12.55877911	0.001383715839	0.03087186364	chr22	18957694	18958193
MRT_689444	1.357755945	2.732232475	24.2723639	0.000121909965	0.004593680502	chr9	86573914	86574413
MRT_759558	1.35741641	3.926646922	20.2540454	0.000105150444	0.004078486682	chr10	90750091	90750590
MRT_1188565	1.357010202	2.745400208	21.54683032	0.000111241658	0.00427034641	chr20	30403014	30403513
MRT_364328	1.355656522	2.648393079	12.16179141	0.001604026386	0.03460538911	chr4	148703422	148703921
MRT_155875	1.355491724	3.160511242	20.16568218	0.000108022254	0.004168206457	chr2	100721092	100721591
MRT_1212733	1.355276807	2.497082784	14.82063591	0.000773070033	0.01959940671	chr21	27488178	27488677
MRT_894149	1.355246991	2.834973004	12.90779057	0.001216863474	0.02785914475	chr12	111616490	111616989
MRT_895550	1.355180175	2.421855139	23.89316507	0.001391645007	0.03101527021	chr12	113677593	113678092
MRT_1053403	1.354691668	2.648958062	19.39009184	0.000235252929	0.00769022423	chr16	69200536	69201035
MRT_458476	1.354661214	2.576920903	12.99960501	0.001176666659	0.02719347454	chr6	3809088	3809587
MRT_1117745	1.354629128	2.588328196	17.58027243	0.000497717837	0.01386199916	chr18	13220526	13221025
MRT_232550	1.354554727	2.733958784	22.4984598	0.000118875221	0.004499379254	chr3	27527274	27527773

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1188890	1.354063957	2.439736576	17.32223037	0.001161394327	0.02691670796	chr20	30870169	30870668
MRT_789928	1.353532927	3.085065947	13.08161605	0.001141970261	0.0265860235	chr11	12714227	12714726
MRT_1027473	1.353500425	3.555939974	17.25524616	0.000270765228	0.008587706157	chr16	1373817	1374316
MRT_1099801	1.351957484	2.733576397	12.25099049	0.001551420588	0.03369975661	chr17	62735625	62736124
MRT_748759	1.351944163	2.669423793	19.65846151	0.000230770444	0.007574932344	chr10	70346350	70346849
MRT_872572	1.351438583	2.463449435	19.013035	1.10E-03	0.02588021634	chr12	64954645	64955144
MRT_237535	1.350660846	2.654453729	15.10804016	0.000556710404	0.01512219054	chr3	37945850	37946349
MRT_1145400	1.350300312	3.584037731	16.66414284	3.29E-04	0.009973269292	chr19	1467669	1468168
MRT_123014	1.348167431	2.382278983	15.76396519	0.002011421078	0.0414284802	chr2	24677281	24677780
MRT_868155	1.347430819	3.479557396	20.06184303	0.000111505070	0.004273990365	chr12	54144578	54145077
MRT_692564	1.346973316	2.35848112	15.51047945	0.002370529349	0.04714804598	chr9	92452283	92452782
MRT_1223853	1.346906827	2.769103949	23.52519437	9.71E-05	0.003836594584	chr22	17753252	17753751
MRT_738800	1.346267955	2.422065207	11.24245337	0.002273701176	0.04567352154	chr10	37784107	37784606
MRT_445731	1.345941832	2.83462322	15.09041998	5.60E-04	0.01519676909	chr5	158585529	158586028
MRT_1223077	-1.345825044	3.226918808	12.45556254	0.001437667396	0.03179513627	chr21	47553170	47553669
MRT_336496	1.345234422	2.464546725	18.86918181	0.001066467613	0.02528778337	chr4	76827532	76828031
MRT_1060266	1.344977917	2.420025011	21.48670714	0.001453529571	0.03205650662	chr16	81250284	81250783
MRT_1194433	1.344660561	2.753331466	11.93036495	1.75E-03	0.03720386222	chr20	39987190	39987689
MRT_522180	1.344619072	2.48294311	12.01611516	0.001694122132	0.03623657374	chr6	154936667	154937166
MRT_6027	1.344129674	2.897544994	11.50099158	0.002059193965	0.04225336176	chr1	9950492	9950991
MRT_265582	1.343721023	3.500069224	17.48895749	0.000250911562	0.008079555067	chr3	107149703	107150202
MRT_318890	1.34323141	2.575687805	15.56015573	4.77E-04	0.01339855026	chr4	22459720	22460219
MRT_722591	1.342994487	2.570984794	12.33883929	0.001501425337	0.03287769096	chr10	5655851	5656350
MRT_712323	1.342959739	3.252834167	17.57338556	0.000244129035	0.007925227054	chr9	130853416	130853915
MRT_393032	1.342770628	2.506517624	11.30998348	0.002215437883	0.0447583384	chr5	32608693	32609192
MRT_46727	1.342583859	2.461910099	11.53984684	0.002028890579	0.0417340752	chr1	87222986	87223485
MRT_394766	1.342273519	2.849323519	13.25903299	0.001070624527	0.02535719907	chr5	36691917	36692416
MRT_745075	1.342268496	3.617887813	19.87023452	0.000118252279	0.00448152921	chr10	61469420	61469919
MRT_669675	1.342207557	2.638150099	11.03659392	0.002461758158	0.04850623493	chr9	8858571	8859070
MRT_766475	1.340662687	2.984110845	23.84618814	3.67E-05	0.001786191263	chr10	103537486	103537985

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_586714	1.340661568	4.211277617	14.85036645	0.000608649009	0.01621453235	chr7	128472347	128472846
MRT_17025	1.340078484	2.459533968	25.20072341	0.001150459935	0.02674739036	chr1	26931451	26931950
MRT_897120	1.340000182	2.615974294	18.57169903	0.000421189588	0.01212573209	chr12	116799081	116799580
MRT_721512	1.339833283	2.465439758	12.91910609	0.001456874977	0.03210795497	chr10	3848044	3848543
MRT_636289	1.338900737	2.694018869	26.87004764	0.000195423702	0.006686002066	chr8	81084628	81085127
MRT_1106776	1.337961033	2.63210345	15.74735171	0.000447336829	0.01273283651	chr17	75149543	75150042
MRT_302557	1.337052752	2.633262728	13.82576697	0.000873098113	0.02160751728	chr3	187467788	187468287
MRT_1198957	1.336402081	2.843664737	20.93186795	8.57E-05	0.003485842037	chr20	48210514	48211013
MRT_582762	1.336353251	2.338321696	13.75692665	0.002530319879	0.04952632586	chr7	116711723	116712222
MRT_209817	1.336326605	2.433553607	16.27334287	0.001368581613	0.03061099177	chr2	225643066	225643565
MRT_832613	1.336287951	3.204256238	14.26384174	0.000747371564	0.0190920695	chr11	113930113	113930612
MRT_437425	1.33606071	3.844802739	14.30315914	0.000737080978	0.01889006442	chr5	140888590	140889089
MRT_873211	1.335924204	3.322930276	11.43781172	0.002109516256	0.04300199048	chr12	65894809	65895308
MRT_1191621	1.335566911	2.811373803	27.23609014	8.49E-05	0.003467700535	chr20	34689059	34689558
MRT_873290	1.335092124	2.627858843	13.13645311	1.12E-03	0.02627538666	chr12	65991215	65991714
MRT_323797	1.335087999	2.987343534	16.81891097	0.000312497618	0.009582124965	chr4	38321914	38322413
MRT_500994	1.334765878	2.668212161	19.78779411	0.000288292484	0.00900791003	chr6	107814439	107814938
MRT_516291	1.33471243	2.618506711	13.04569061	1.16E-03	0.02683332663	chr6	143178939	143179438
MRT_610446	1.334572502	2.914484344	11.21488627	2.30E-03	0.04608572956	chr8	17721974	17722473
MRT_51073	1.333218966	2.67081181	13.72198871	0.000906105224	0.02225502518	chr1	95448646	95449145
MRT_7091	1.333165724	2.354554748	15.66408777	2.55E-03	0.04985402372	chr1	11375010	11375509
MRT_547452	1.332664901	2.543238324	13.79231538	0.000883593839	0.02181193869	chr7	32920994	32921493
MRT_680236	1.332412087	3.001579646	24.7858476	2.82E-05	0.00145820217	chr9	34993847	34994346
MRT_1155154	1.332362261	3.458252087	18.25456233	0.000196099896	0.006702272778	chr19	16935457	16935956
MRT_994962	1.332190062	2.524447118	18.92596596	0.000754389366	0.01922487862	chr15	42083508	42084007
MRT_512680	1.33180907	4.174343615	42.11232302	4.59E-07	6.17E-05	chr6	134499520	134500019
MRT_768210	1.331590737	2.369625237	23.76417838	0.002236612046	0.045042625	chr10	106076969	106077468
MRT_409797	1.331169332	2.675790306	12.40768702	0.001463458222	0.03222504516	chr5	75633539	75634038
MRT_379287	1.330806994	2.695215972	16.7639543	0.000318225672	0.009716378187	chr4	186457422	186457921
MRT_770390	1.330581609	2.649686791	14.08124062	0.000797233587	0.02009465915	chr10	112587562	112588061

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_990557	1.330161871	2.489896757	15.67182484	0.000975448440	0.02356571953	chr15	33601831	33602330
MRT_473661	1.329647419	2.919726204	22.22968574	5.84E-05	0.002568833921	chr6	34624840	34625339
MRT_1133430	1.329032327	2.647794697	17.28150904	0.000340902154	0.01027274504	chr18	52495633	52496132
MRT_1005136	1.328799465	2.586203739	11.8487432	1.80E-03	0.03809931943	chr15	63755584	63756083
MRT_1027191	1.328698055	3.345903159	19.08392056	0.000150900456	0.005397614963	chr16	1024440	1024939
MRT_102251	1.327807178	2.421294041	12.08442768	0.002084303072	0.04260443123	chr1	230888117	230888616
MRT_597788	1.327369484	2.712930824	13.91106922	0.000846936639	0.02109984822	chr7	150060086	150060585
MRT_79292	1.32704537	3.203581428	19.40243933	0.000136637655	0.005008757354	chr1	181064622	181065121
MRT_872680	1.32677311	3.435668658	17.9534104	0.000215947887	0.00720208635	chr12	65088326	65088825
MRT_746370	1.326464323	3.902376505	12.71000694	0.001308572458	0.02949031256	chr10	64028275	64028774
MRT_436612	1.326251304	2.811522985	25.0611845	7.85E-05	0.003260307709	chr5	139421254	139421753
MRT_774961	1.325861679	2.605355036	12.88030449	0.001229182979	0.02808841632	chr10	121378000	121378499
MRT_758504	1.325062241	2.43141765	12.55714437	0.001683702783	0.03604232215	chr10	88507519	88508018
MRT_616271	1.324816184	2.420417105	13.72598638	0.00202216345	0.04161594663	chr8	29676009	29676508
MRT_910789	1.324384165	2.762931798	13.39403889	0.001019554512	0.02444964587	chr13	27838287	27838786
MRT_133067	1.324342517	2.546960965	13.24137071	0.001077507105	0.02546860533	chr2	43311121	43311620
MRT_320551	1.324059816	2.483565915	16.28535975	0.001094549034	0.02581369137	chr4	26070735	26071234
MRT_1198966	1.323991658	2.683496845	24.34615247	0.000245517013	0.007951967532	chr20	48220957	48221456
MRT_776203	1.323863982	3.313992307	11.0665476	0.002433380676	0.04802651953	chr10	123495499	123495998
MRT_597781	1.323690618	2.749116032	15.58965725	0.000471976757	0.01329395959	chr7	150054372	150054871
MRT_78018	1.323571778	2.374296831	13.64708389	0.002120483683	0.04319085072	chr1	178907169	178907668
MRT_407835	1.323310864	2.981384904	23.97318839	3.54E-05	0.0017356413	chr5	71577259	71577758
MRT_680510	1.323139979	2.992859865	17.3678381	0.000260997685	0.008325799906	chr9	35552859	35553358
MRT_155670	1.323122447	2.466521773	11.17919673	0.002329780295	0.04654203087	chr2	100393329	100393828
MRT_597798	1.322060726	3.633497102	25.15114103	2.55E-05	0.001357834903	chr7	150075163	150075662
MRT_24941	1.321906193	2.982424065	19.7801986	1.22E-04	0.004583706761	chr1	39873121	39873620
MRT_764120	1.321773139	2.800228514	14.8008507	0.000619214479	0.01643730627	chr10	99540872	99541371
MRT_897375	1.321711897	2.464126882	11.52933221	0.002037043196	0.04186477217	chr12	117155532	117156031
MRT_657536	1.321555368	3.223140328	18.9963327	0.000155097098	0.00552262365	chr8	130903814	130904313
MRT_351070	1.321497944	3.06488912	15.6390209	0.000464110267	0.01311099095	chr4	114389491	114389990

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_645989	1.320896393	3.52551845	11.66325488	0.001935793166	0.04016355941	chr8	103740563	103741062
MRT_1245974	1.320134192	2.492527121	14.15677722	0.001163145258	0.02694545492	chrX	9502582	9503081
MRT_914071	1.319937092	2.425878945	14.22584448	0.001911231366	0.03976527544	chr13	33926625	33927124
MRT_145905	1.319263975	3.273413779	15.19097851	5.41E-04	0.01479521611	chr2	70340356	70340855
MRT_300900	1.31834194	2.944076089	11.08103274	0.002419784665	0.04783525065	chr3	184434579	184435078
MRT_996715	1.317807191	3.333525133	14.71071795	0.000638956715	0.0168590464	chr15	45011814	45012313
MRT_305227	1.317762118	4.080523882	17.25863767	0.000270465338	0.008583937425	chr3	193994939	193995438
MRT_998171	1.317740703	2.693999784	13.11155651	0.001129579433	0.02640904659	chr15	49154772	49155271
MRT_752236	1.317618956	2.571290249	15.12126993	0.000667719288	0.01747256204	chr10	75400472	75400971
MRT_1213868	1.316876276	3.439636684	12.59245658	0.001366588101	0.03058042258	chr21	30427334	30427833
MRT_836985	1.315827079	2.787497268	14.39357461	0.000713990552	0.0184176806	chr11	121289460	121289959
MRT_704389	1.315129137	5.006508182	12.52684276	0.001400172026	0.03115603839	chr9	116356083	116356582
MRT_964295	1.3145246	3.231713657	21.85220288	6.52E-05	0.002814484634	chr14	65229353	65229852
MRT_754503	1.314476005	2.530308978	16.03272112	0.000884174321	0.02181777547	chr10	79699137	79699636
MRT_1198965	1.314408515	3.154777433	29.15351791	8.86E-06	0.000601023111	chr20	48219617	48220116
MRT_442023	1.313846197	2.910361732	11.53267285	2.03E-03	0.04182128458	chr5	150159315	150159814
MRT_873051	1.313148249	4.314477064	11.86458844	1.79E-03	0.03794145012	chr12	65700390	65700889
MRT_294217	1.312256926	3.889175631	16.87488886	0.000306776895	0.009445013498	chr3	171178029	171178528
MRT_259519	1.312197486	4.054276857	15.80285037	0.000438997282	0.01253202371	chr3	85007839	85008338
MRT_408655	1.312095346	3.171769313	13.13392472	0.001120416932	0.02628689625	chr5	73198499	73198998
MRT_804476	1.31132783	2.783077565	19.13430086	0.000162024031	0.00571631599	chr11	46732409	46732908
MRT_726898	1.31118481	2.589639012	17.09112937	0.000578102832	0.01559402267	chr10	14520541	14521040
MRT_907879	1.311162701	2.568217377	12.14180157	0.001616077468	0.03484167425	chr13	22180787	22181286
MRT_587766	1.311013015	2.500324523	12.78883872	0.001271156288	0.02882120785	chr7	129978791	129979290
MRT_106373	1.310947084	3.19042654	22.40529336	5.54E-05	0.002467318314	chr1	240061354	240061853
MRT_993644	1.310778434	3.290020348	22.45224568	5.47E-05	0.002444182249	chr15	40212237	40212736
MRT_800417	1.310463453	2.40358758	11.00282138	0.002494182861	0.04899290521	chr11	36185965	36186464
MRT_1151339	1.309552494	3.17637275	33.5658741	4.02E-06	0.000331414623	chr19	10754587	10755086
MRT_1087837	1.30947714	2.79354451	17.1765428	0.000277825816	0.008755005881	chr17	41696909	41697408
MRT_155219	1.309341886	2.423124575	13.84150953	1.97E-03	0.04068637803	chr2	99537939	99538438

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MRT_1083178	1.308164697	3.080675983	17.94436943	0.000216576162	0.007215164701	chr17	34259035	34259534
MRT_141121	1.307822946	2.546935471	13.12359092	0.001124639889	0.02633500226	chr2	62241088	62241587
MRT_1024624	1.307807367	3.018095893	13.38244847	0.001023834238	0.02453372223	chr15	99399364	99399863
MRT_565342	1.30704303	2.39544316	25.31592408	0.002324702035	0.04647718441	chr7	76637281	76637780
MRT_1095297	1.305878112	2.509390351	18.0485663	0.001173483949	0.02714034704	chr17	55990928	55991427
MRT_1237679	1.304704157	2.672651817	15.46002516	0.000493325648	0.0137608237	chr22	41075895	41076394
MRT_297049	1.302821264	3.328192683	11.7847393	0.001848634556	0.03879391174	chr3	177063312	177063811
MRT_411187	1.302634796	2.796788687	13.2566519	0.001071549612	0.02537034225	chr5	78269562	78270061
MRT_510690	1.30259801	2.74208752	12.76851239	0.001280692199	0.02902703974	chr6	130687110	130687609
MRT_1198949	1.302569545	3.32425481	15.7153158	0.000452228167	0.01283749047	chr20	48200207	48200706
MRT_364400	1.302284085	2.470886381	12.30278841	0.001758979349	0.03737617469	chr4	148785217	148785716
MRT_86320	1.302266729	2.435156822	14.41696238	0.002327120803	0.04650639026	chr1	200384967	200385466
MRT_185252	1.300846529	2.68992703	18.16885419	0.000324495909	0.009867445261	chr2	172174005	172174504
MRT_139509	1.300136935	2.434445867	16.52391111	0.001920569789	0.03991373892	chr2	58656159	58656658
MRT_1267010	1.300023306	3.191739487	11.25023168	0.002266906717	0.04555146492	chrX	118324829	118325328
MRT_400367	1.298899922	3.024959458	12.15135241	0.001610307506	0.03473499016	chr5	54896352	54896851
MRT_908499	1.298766132	2.77917877	12.95208468	0.001197289592	0.0274904106	chr13	23490285	23490784
MRT_1156062	1.298421155	3.458918634	36.81696672	1.43E-06	0.000149495852	chr19	18268439	18268938
MRT_894046	1.296943762	2.623084134	17.53802337	0.000526842970	0.01449360703	chr12	111470996	111471495
MRT_885507	1.296811954	2.582416939	13.15328291	0.001112552034	0.02615074587	chr12	94954516	94955015
MRT_1020322	1.296602739	2.909361643	14.41581833	7.08E-04	0.0183111922	chr15	90962924	90963423
MRT_209926	1.296137444	2.5550518	12.72465326	0.001301532027	0.02937878592	chr2	225866697	225867196
MRT_1213869	1.296090648	2.6396654	12.35957431	0.001489880138	0.03269308126	chr21	30428681	30429180
MRT_868964	1.296014832	3.553746107	25.50798274	2.31E-05	0.001258932005	chr12	56110674	56111173
MRT_872824	1.294564516	2.494901394	12.53918047	0.001393789763	0.03104125212	chr12	65306274	65306773
MRT_300	1.294327934	3.485548997	13.73862698	0.000900724139	0.02215288841	chr1	1109226	1109725
MRT_1231066	1.294279585	2.748587684	11.14545105	2.36E-03	0.0469742819	chr22	30017580	30018079
MRT_510246	1.294239765	2.694961716	15.26784643	0.000526909362	0.01449360703	chr6	129820590	129821089
MRT_1255777	1.294220136	2.740097758	16.10887859	0.000395915805	0.01155709672	chrX	47362261	47362760
MRT_542046	1.294037291	2.921579774	12.23937402	0.00155816485	0.03381729646	chr7	22900421	22900920

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_613172	1.293585137	2.718895128	18.88558684	0.000250035562	0.008061263492	chr8	23212045	23212544
MRT_411189	1.293564176	2.784685014	18.23378631	0.000197404207	0.006726911659	chr5	78270846	78271345
MRT_194559	1.292857945	2.6197813	16.49515901	0.00057051369	0.01542237156	chr2	191826672	191827171
MRT_419496	1.292767602	3.622170388	16.7648605	0.000318130310	0.009715805402	chr5	98105359	98105858
MRT_313764	1.292724658	2.652173552	13.6103333	9.43E-04	0.02296414826	chr4	8395336	8395835
MRT_1170691	1.291156723	3.067469423	13.67415146	0.000921770363	0.02256549359	chr19	49071588	49072087
MRT_843300	1.290583399	2.479407912	11.65574756	0.001941322853	0.04025269622	chr11	133990748	133991247
MRT_1085738	1.290215896	3.090068757	16.43334594	0.000355155917	0.01058656773	chr17	38459910	38460409
MRT_5193	1.289372333	2.712790983	19.17607563	0.000314949886	0.009637238583	chr1	8788675	8789174
MRT_239467	1.288985789	3.273550151	11.55817849	0.002014761063	0.04148379946	chr3	42107926	42108425
MRT_962571	1.287952684	2.537636706	18.22581215	0.001200638974	0.02755235093	chr14	61720091	61720590
MRT_1147348	1.287474974	2.876700722	21.60547864	0.000113807297	0.004349091521	chr19	4301780	4302279
MRT_504956	1.287401684	2.679005993	14.10405028	7.91E-04	0.01995664113	chr6	114663421	114663920
MRT_1145401	1.286306532	3.465591471	17.19520927	2.76E-04	0.008716554723	chr19	1468418	1468917
MRT_522056	1.284939929	2.869944114	14.09257707	0.000794035954	0.02002600046	chr6	154783588	154784087
MRT_746271	1.284417451	2.513685266	11.72773139	0.001888995456	0.03941902759	chr10	63842525	63843024
MRT_784044	1.283549634	3.467562284	21.86057277	6.50E-05	0.002808521372	chr11	1897580	1898079
MRT_969942	1.283148786	3.016873049	11.33316397	0.002195811631	0.04443260568	chr14	75039547	75040046
MRT_492573	1.283090662	2.852464052	17.23508703	0.000272555167	0.008627217905	chr6	84743234	84743733
MRT_746137	1.282008727	3.203314037	11.30320643	0.002221211535	0.044825003	chr10	63663337	63663836
MRT_1224623	-1.281122564	3.095693939	12.08402489	0.001854903886	0.0389124842	chr22	18923577	18924076
MRT_204787	1.280490381	2.448201321	12.39673532	0.002209599485	0.04465461139	chr2	216704541	216705040
MRT_24940	1.279638443	2.728606661	16.8564429	0.000336794659	0.01018475421	chr1	39872197	39872696
MRT_571478	1.278834595	2.735328233	19.16135633	0.000321206312	0.009783850373	chr7	92347202	92347701
MRT_1027474	1.278353599	3.681661906	13.8830984	0.000855420802	0.0212571399	chr16	1374341	1374840
MRT_709692	1.276322718	2.815733404	22.61921787	0.000181132978	0.006283558729	chr9	127162574	127163073
MRT_636216	1.276068311	2.935412557	28.26872877	6.55E-05	0.00282386884	chr8	80979285	80979784
MRT_474977	1.275717194	2.805138624	16.14217262	0.000391510531	0.0114522248	chr6	36592844	36593343
MRT_563496	1.274249955	2.640664227	36.64650896	0.000586843766	0.01578004137	chr7	73160732	73161231
MRT_630792	1.274119725	3.072839242	12.99884381	1.18E-03	0.02719347454	chr8	67434753	67435252

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MRT_108356	1.273679926	2.784935489	11.5842477	0.001994850252	0.04116739943	chr1	244435623	244436122
MRT_874706	1.272533725	2.935731435	16.46032633	0.000351975872	0.0105115394	chr12	68727891	68728390
MRT_361685	1.271946122	3.213867168	12.0805735	0.001653601074	0.0355058132	chr4	143768311	143768810
MRT_201399	1.271854559	3.099973492	16.32061617	0.000368780928	0.01090556314	chr2	207665174	207665673
MRT_98362	1.270066439	3.142778215	20.46641776	9.86E-05	0.003883847672	chr1	224390926	224391425
MRT_800038	1.269756547	2.74591226	14.35598483	0.000723494302	0.01860954701	chr11	35645128	35645627
MRT_900172	1.269637237	2.919015219	17.38842639	0.000259252926	0.008280555449	chr12	122114211	122114710
MRT_1238048	1.269486587	3.077352816	31.37162257	2.13E-05	0.001182163438	chr22	41577500	41577999
MRT_982702	1.269269421	2.492266606	20.74264301	0.001803071482	0.038077051	chr14	102240708	102241207
MRT_171278	1.269053353	3.140240866	14.87571014	0.000603316475	0.01610054925	chr2	136873641	136874140
MRT_150938	1.268672684	2.894187388	13.0801374	0.001142585982	0.02659547633	chr2	85293086	85293585
MRT_970409	1.268236182	3.250405599	24.12481848	3.39E-05	0.001675999188	chr14	75704083	75704582
MRT_512745	1.268119947	2.794653534	13.74232152	0.000899533939	0.02212790685	chr6	134617031	134617530
MRT_713414	-1.266707983	3.813963562	15.29990834	0.000521139708	0.01435981617	chr9	132459329	132459828
MRT_570059	1.266696014	2.545131327	10.99870344	0.002498167905	0.04905598824	chr7	89748420	89748919
MRT_1007237	1.266042867	2.466504191	24.75789592	0.002266447926	0.04554946225	chr15	66745339	66745838
MRT_680887	1.265949628	3.346815128	20.55753325	9.59E-05	0.003805610289	chr9	36165901	36166400
MRT_382019	1.26516718	2.53831316	13.76884047	1.64E-03	0.03533312891	chr5	1118157	1118656
MRT_504716	1.264985414	3.326990845	12.2673311	0.001541986826	0.03353504066	chr6	114177128	114177627
MRT_907347	1.264961851	2.469854525	13.23422204	0.002505444706	0.04917604052	chr13	21406017	21406516
MRT_636009	1.264720081	5.166754413	25.12103642	2.57E-05	0.001366248746	chr8	80679905	80680404
MRT_239463	1.264342057	2.693606895	13.35937811	0.001032410602	0.02466625322	chr3	42102568	42103067
MRT_312733	1.263834169	2.967773428	18.35312304	1.90E-04	0.006538349046	chr4	7136300	7136799
MRT_1253909	1.263055975	4.23262934	11.56425356	0.002010102033	0.04142149168	chrX	40869508	40870007
MRT_28630	1.262831687	2.654068132	23.74139793	0.000650886460	0.01710620252	chr1	45826604	45827103
MRT_285719	1.262542032	2.634207902	18.45701346	0.000858440210	0.02131546705	chr3	149310509	149311008
MRT_807145	1.2622284	2.956884101	12.42361862	0.001454820821	0.03207383001	chr11	58825784	58826283
MRT_1130517	1.262210479	2.628833944	24.78176917	0.000756406855	0.0192574699	chr18	45821904	45822403
MRT_1032227	1.261864875	2.871040502	15.38641308	0.000505909255	0.01404080843	chr16	10923478	10923977
MRT_704441	1.260626683	2.931187983	18.67094622	0.000171820017	0.006017223952	chr9	116419356	116419855

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MRT_156467	1.260089473	3.309840234	19.12238387	0.000149096230	0.005346471938	chr2	101769178	101769677
MRT_313292	1.260020037	3.205551521	12.95363933	0.001196608776	0.02747975329	chr4	7807251	7807750
MRT_161196	1.259861802	2.537894059	14.02951086	0.001440980327	0.03183509821	chr2	113422595	113423094
MRT_523874	1.258072206	2.546948014	18.02563185	0.001594598249	0.03445473156	chr6	158109885	158110384
MRT_36954	1.257895039	3.095491471	15.65143627	0.000462154052	0.01306425014	chr1	61803719	61804218
MRT_364727	1.257847275	2.721867792	23.17598523	0.000441710550	0.01259368111	chr4	149366585	149367084
MRT_141689	1.257788051	3.115716235	13.30861266	0.001051556325	0.02499027448	chr2	63274567	63275066
MRT_1090479	1.257769815	2.51846043	14.62041534	0.001642360532	0.03532425907	chr17	45992994	45993493
MRT_1062400	1.257667034	3.290361089	13.13413466	0.001120331318	0.02628689625	chr16	85194134	85194633
MRT_996096	1.257404993	2.5852052	20.25970722	0.0011958236	0.02746669513	chr15	43797845	43798344
MRT_707682	1.256530153	2.53137427	10.95802823	0.002537901924	0.04962877778	chr9	124023220	124023719
MRT_1084999	1.25622805	3.018951099	28.97102773	3.59E-05	0.001753906601	chr17	37323034	37323533
MRT_867929	1.254912004	3.540033569	24.57679386	2.99E-05	0.001523602155	chr12	53809367	53809866
MRT_1048826	1.254778983	2.655405881	14.42352092	0.000798799573	0.02012213407	chr16	57861160	57861659
MRT_708737	1.254253293	2.600602075	15.28493783	0.001064592909	0.02524805106	chr9	125812133	125812632
MRT_512719	1.253768461	2.518116674	14.62583044	0.001881836196	0.03930250391	chr6	134568221	134568720
MRT_692470	1.253540837	2.519193721	18.76554611	0.002008939502	0.04140426271	chr9	92221591	92222090
MRT_994953	1.253433637	2.730291558	18.37954785	0.000410394767	0.01187317745	chr15	42071715	42072214
MRT_1062239	1.253282546	2.454963688	11.17241269	0.002468306948	0.04860024059	chr16	84967895	84968394
MRT_1007121	1.252387702	2.722636202	19.64843717	0.000532644556	0.01462282243	chr15	66584529	66585028
MRT_239447	1.252001355	2.868621568	13.42220471	0.001009234483	0.02427634793	chr3	42084385	42084884
MRT_209946	1.251813754	2.717437495	14.46915479	6.95E-04	0.01803024068	chr2	225905974	225906473
MRT_892372	1.250152962	2.929675258	10.95682646	0.002539086211	0.04964428249	chr12	109036233	109036732
MRT_1020323	1.249993405	2.572065001	12.91678114	0.00133058185	0.02992782733	chr15	90963454	90963953
MRT_636340	1.249290512	2.681881337	21.8669154	0.000591565976	0.01587950878	chr8	81161741	81162240
MRT_276507	1.247052276	2.725766234	14.55484183	0.000674716052	0.01761929911	chr3	129442666	129443165
MRT_800409	1.24697707	2.590246548	18.05846773	0.001263346312	0.0287005671	chr11	36177874	36178373
MRT_1255776	1.246919995	2.636622219	11.4554794	0.002095311715	0.04278119222	chrX	47361601	47362100
MRT_446246	1.246823377	2.99541118	16.18172298	0.000386345837	0.0113362752	chr5	159591997	159592496
MRT_1006018	1.245741699	3.758161371	15.30532506	0.000520171681	0.01434560883	chr15	64992037	64992536

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_1084604	1.24539914	3.747855791	28.27175451	1.11E-05	0.000715640939	chr17	36762009	36762508
MRT_1154808	1.24436937	2.923798304	14.22972102	0.000756427417	0.0192574699	chr19	16452915	16453414
MRT_1090544	1.24408964	2.957913373	12.30851644	0.001518483054	0.03315026805	chr17	46093515	46094014
MRT_1090477	1.244007414	2.560147628	12.96613909	0.001420054157	0.03151551163	chr17	45991810	45992309
MRT_853958	1.243573765	2.509007253	11.26326985	0.002255566808	0.04535233998	chr12	19534390	19534889
MRT_89714	1.243375854	2.745713504	16.06801825	0.000440204943	0.01255899353	chr1	205424142	205424641
MRT_766830	1.243059165	2.684756611	25.40897897	0.000671659049	0.01754669493	chr10	104072492	104072991
MRT_865189	1.241420565	2.658047782	11.09222418	0.002409336365	0.04767328681	chr12	49576961	49577460
MRT_859055	1.239259028	3.096883776	18.46600978	0.000183339639	0.006343897565	chr12	31515929	31516428
MRT_492467	1.238935091	2.879703652	11.36577681	0.002168516417	0.04395742548	chr6	84418636	84419135
MRT_1171810	1.238610745	4.635078552	22.23938754	5.82E-05	0.002564243911	chr19	50835714	50836213
MRT_1207533	-1.238471624	3.365635868	12.96193957	0.001192980954	0.02741671575	chr21	9880712	9881211
MRT_692465	1.237534423	3.296037289	26.28119939	1.88E-05	0.00106979513	chr9	92218566	92219065
MRT_513020	1.236817764	3.311196787	19.67982203	0.000125393530	0.004695648978	chr6	135143936	135144435
MRT_734105	1.235331026	2.729774584	12.46575655	0.001432239357	0.03170273064	chr10	29924525	29925024
MRT_524673	1.235104613	3.112125718	13.55238743	0.000962975625	0.02333105072	chr6	159179383	159179882
MRT_156	1.234862392	3.30266897	14.68365233	0.000645016478	0.01699144134	chr1	913943	914442
MRT_1223851	1.234558309	2.89386305	13.56372428	0.000959056703	0.02325782185	chr22	17750836	17751335
MRT_942846	1.233612904	2.940231193	17.67628526	2.36E-04	0.007708890211	chr13	111596582	111597081
MRT_816034	1.233046055	2.811502465	17.09119587	0.000357612903	0.01064229823	chr11	73584036	73584535
MRT_305265	1.232469294	2.510871486	20.98246126	0.002336419955	0.04663060403	chr3	194050843	194051342
MRT_902250	1.231856997	2.561188348	18.43571662	1.71E-03	0.03645957563	chr12	125071188	125071687
MRT_695175	1.230941701	2.713787778	13.10260831	0.001133267385	0.02647574793	chr9	97440756	97441255
MRT_859062	1.230936012	2.59948646	11.74692767	0.001875299544	0.03922357228	chr12	31523720	31524219
MRT_267281	1.230382512	2.725359783	20.55280361	0.000536059477	0.01469430901	chr3	111579121	111579620
MRT_1179650	1.22974754	2.632878551	12.2622568	1.54E-03	0.03359284674	chr20	5511874	5512373
MRT_1168852	1.229510916	3.811337945	17.90568578	0.000219286631	0.007273274234	chr19	46319000	46319499
MRT_512828	1.229323671	2.725281784	14.86038242	0.000627382334	0.016615872	chr6	134757255	134757754
MRT_1203096	1.228958376	3.63817671	16.28121342	0.000373674993	0.01101433748	chr20	56016109	56016608
MRT_1092528	1.228075223	3.398410093	17.18038252	0.000277476796	0.00874807159	chr17	48981964	48982463

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MRT_709886	1.227748845	3.351456305	11.30650042	2.22E-03	0.04480397357	chr9	127422497	127422996
MRT_354	1.227692378	3.641050053	17.80452453	0.000226548538	0.007461453483	chr1	1177858	1178357
MRT_923491	1.227343642	2.549307968	11.15732413	0.002349517112	0.04683216855	chr13	52164999	52165498
MRT_646371	1.225726346	3.177380917	32.85673191	1.68E-05	0.000978157471	chr8	104383411	104383910
MRT_438071	1.225533052	2.659585469	14.67660358	0.000933005091	0.02277897359	chr5	141821135	141821634
MRT_736807	1.223388759	2.598138388	13.15602708	0.001522958035	0.03321858527	chr10	34475919	34476418
MRT_766773	1.222959854	3.398412301	30.22010835	6.77E-06	0.000493613955	chr10	103990567	103991066
MRT_1048232	1.221253087	2.98875519	13.87758438	0.000857104101	0.02129062702	chr16	57025640	57026139
MRT_966501	1.22062681	2.652369356	11.65417277	0.001942484962	0.04027020884	chr14	69060444	69060943
MRT_1936	1.220144745	3.169754613	12.28011505	0.001534649529	0.0334155774	chr1	3394445	3394944
MRT_221	1.219514732	3.491585098	11.21057501	0.002301777997	0.04614251786	chr1	1007426	1007925
MRT_89717	1.219441291	2.798646392	14.89724569	0.000598824712	0.01601672998	chr1	205426116	205426615
MRT_1238863	1.219341049	3.102269286	25.82403198	2.95E-05	0.001507463391	chr22	42761038	42761537
MRT_192428	1.219201931	3.006339134	11.4384181	0.002109027017	0.04300104833	chr2	188365467	188365966
MRT_312584	1.219192725	2.921676262	28.80186936	0.000149830083	0.005368234124	chr4	6918532	6919031
MRT_1194458	1.217763699	2.655284861	14.25862373	0.001057015358	0.0250964968	chr20	40021663	40022162
MRT_516370	1.217678049	2.538895873	17.35741713	0.002312910096	0.04633638274	chr6	143380685	143381184
MRT_733011	1.21767796	2.87685248	19.37908252	0.000221982589	0.007339921831	chr10	28033383	28033882
MRT_870321	1.217647731	4.209731685	18.32562053	0.000191708413	0.006580773304	chr12	58288600	58289099
MRT_983501	1.217439378	3.088004613	14.13737315	0.000781534925	0.01977757396	chr14	103315732	103316231
MRT_945776	1.217391472	3.847658957	11.19406848	0.002316463007	0.04638558084	chr14	21562433	21562932
MRT_1198944	1.217033254	2.57380541	16.98795124	0.002006258063	0.0413624407	chr20	48192075	48192574
MRT_1235562	1.21620154	3.161010951	10.94800967	0.002547793081	0.04977615336	chr22	37997544	37998043
MRT_1095320	1.214752833	2.694177446	19.11584827	0.000860963460	0.02135721485	chr17	56017564	56018063
MRT_1159972	1.213387347	2.927887026	12.55263351	0.001386866274	0.03093050764	chr19	30717369	30717868
MRT_1095269	1.212542787	2.87919428	15.1856674	0.000542013930	0.01480952066	chr17	55958411	55958910
MRT_1209352	1.211922548	4.547817811	11.13385439	0.00237089611	0.04714804598	chr21	17906581	17907080
MRT_244308	1.211335616	2.731451965	18.40498152	0.000543614542	0.01484046641	chr3	50188272	50188771
MRT_784123	1.211223942	3.556069525	12.73838432	0.00129496863	0.02926187748	chr11	2000178	2000677
MRT_894150	1.210201519	2.546579398	12.35314663	0.002021300166	0.04160493107	chr12	111617858	111618357

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_3567	1.209787355	3.633012074	14.68352025	0.000645046202	0.01699144134	chr1	6515125	6515624
MRT_11690	1.209573988	3.269304638	14.06015032	0.000803219399	0.02020938886	chr1	19271881	19272380
MRT_687282	1.208510801	3.471065997	17.81294125	0.000225934595	0.007447034418	chr9	80911146	80911645
MRT_812433	1.208017955	2.681569595	11.72651403	0.001889867635	0.03943074053	chr11	68141510	68142009
MRT_970217	1.207558107	2.873568233	14.74187142	0.000632057466	0.01671177334	chr14	75430405	75430904
MRT_69368	1.205946463	3.170206342	24.90253458	2.73E-05	0.001424184774	chr1	161352492	161352991
MRT_409092	1.205899507	3.835660592	15.06706472	0.000564640314	0.01529593968	chr5	73937072	73937571
MRT_893280	1.205336611	2.993275912	16.1708657	0.000387756303	0.01136074912	chr12	110390082	110390581
MRT_400366	1.204286166	2.604542669	14.34521669	0.001566014026	0.03394118642	chr5	54895758	54896257
MRT_569653	1.201153496	2.949008957	14.17589295	0.000770954767	0.01956448118	chr7	87872610	87873109
MRT_893273	1.201097746	2.57854078	18.40188499	0.001976681162	0.04086558737	chr12	110384276	110384775
MRT_911752	1.201091375	2.752161636	11.3913447	0.002147373617	0.04360550518	chr13	30081425	30081924
MRT_451400	1.200771759	3.995063136	22.15268811	5.97E-05	0.002619061144	chr5	171882669	171883168
MRT_865216	1.200025714	2.701195693	13.3708522	0.001123709265	0.02633500226	chr12	49616288	49616787
MRT_912242	1.199430555	2.755797588	12.31388663	0.00151544696	0.03311702807	chr13	30966544	30967043
MRT_587719	1.199296763	3.819844842	14.16966527	0.00077265481	0.01959586086	chr7	129917807	129918306
MRT_718251	1.199104298	3.522625543	11.76637637	0.001861532744	0.03902572629	chr9	139420791	139421290
MRT_1234192	1.198497856	3.054355288	14.67525567	0.000646908968	0.01702283239	chr22	36018374	36018873
MRT_133189	1.197464416	3.016634451	22.42453063	9.53E-05	0.003790396406	chr2	43478311	43478810
MRT_868967	1.197336342	3.445504256	23.97023036	3.54E-05	0.0017356413	chr12	56113851	56114350
MRT_484785	1.197086928	3.909492344	15.19274503	0.000540694901	0.01479165742	chr6	56708249	56708748
MRT_66827	1.197058773	2.634302057	11.01741741	0.002480113103	0.04879209948	chr1	155853817	155854316
MRT_98376	1.196895735	2.550486262	12.46734122	2.52E-03	0.04933427066	chr1	224406446	224406945
MRT_1107013	1.19673174	3.059255999	12.44831734	0.001441538751	0.03184188889	chr17	75468292	75468791
MRT_564026	1.195861998	2.68402016	20.50395744	0.001100008517	0.02591353644	chr7	73916464	73916963
MRT_1105208	1.19443701	2.807183702	12.88896783	0.001225285551	0.02802577541	chr17	72836532	72837031
MRT_971460	1.193380526	4.086939065	12.27260126	0.001538957469	0.03348638388	chr14	77386333	77386832
MRT_657601	1.192897866	3.214395143	14.6600334	0.000650355109	0.01709578031	chr8	130995870	130996369
MRT_1145399	1.19158114	3.520295344	17.00692904	0.000293723998	0.009128467928	chr19	1466659	1467158
MRT_98116	1.191277997	2.827510835	13.93243402	0.000840517270	0.02096895506	chr1	223894784	223895283

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_872675	1.189826643	2.773502981	11.58461472	0.00199457145	0.04116739943	chr12	65081933	65082432
MRT_847599	1.189368667	3.944977448	14.4290996	0.000705132263	0.01824454213	chr12	6560432	6560931
MRT_868163	1.189349942	3.291712785	24.87548323	2.75E-05	0.001433685646	chr12	54150845	54151344
MRT_1005769	1.189138169	2.772695761	12.96189788	0.00119299915	0.02741671575	chr15	64670622	64671121
MRT_704439	1.189132091	3.465522553	16.11767901	0.000394746225	0.01153091726	chr9	116417571	116418070
MRT_1237680	1.188994471	2.885385189	19.5668314	0.000271650593	0.008607177456	chr22	41076431	41076930
MRT_503521	1.187928414	3.557982955	16.56247931	0.000340210154	0.01025920465	chr6	111927029	111927528
MRT_1010437	1.187837603	2.785775606	11.84133239	0.001809486193	0.03816803122	chr15	72092907	72093406
MRT_34179	1.187233407	2.723657484	12.36331387	0.001487808169	0.03266481935	chr1	55438795	55439294
MRT_896263	1.187083355	3.032129496	12.8720894	0.0012328911	0.02814480017	chr12	115106357	115106856
MRT_412607	1.18517473	3.336376508	22.6885423	5.11E-05	0.002318434498	chr5	80722120	80722619
MRT_964294	1.184036885	3.127364811	21.75774385	6.70E-05	0.00287817718	chr14	65228839	65229338
MRT_703313	1.184014325	2.59489818	15.46265298	0.002121945777	0.043206754	chr9	114671596	114672095
MRT_809499	-1.182951052	4.146220325	12.72482023	0.001301451999	0.02937878592	chr11	63530719	63531218
MRT_50779	1.182508898	3.468560435	11.05804785	0.002441397086	0.0481499235	chr1	95007242	95007741
MRT_1985	1.182355106	2.951713837	11.49192672	0.002066333749	0.04233584815	chr1	3460372	3460871
MRT_72867	1.182345149	3.567288945	18.04591023	0.000209631228	0.007041410817	chr1	168408926	168409425
MRT_55299	1.182282906	2.663362026	25.25894764	0.001448913109	0.03197137183	chr1	109104271	109104770
MRT_351312	1.181915396	2.692341238	14.19535853	0.0011263306	0.02636224678	chr4	114900574	114901073
MRT_905649	1.181181198	2.843550582	23.1662251	0.000484505588	0.01357460414	chr12	133005787	133006286
MRT_703441	1.179110837	2.765330833	12.31157167	0.001516754947	0.033134016	chr9	114835108	114835607
MRT_509976	1.178034298	3.459223681	11.76396791	0.001863231651	0.0390484341	chr6	128841554	128842053
MRT_364723	1.177544641	5.066631854	11.04750556	0.002451379533	0.04831674774	chr4	149363484	149363983
MRT_93559	1.177259736	2.730328634	16.42620933	0.001092702952	0.02577974073	chr1	213155033	213155532
MRT_872740	1.176303691	3.018384405	30.90463877	0.000135671754	0.004984775716	chr12	65174109	65174608
MRT_1001872	1.175865502	2.640542772	11.12590559	0.002378184351	0.04726333971	chr15	57404375	57404874
MRT_419515	1.175620041	3.061013633	17.3298708	0.000264248414	0.008412571137	chr5	98131945	98132444
MRT_409097	1.173481208	3.528142557	12.83330542	0.001250560924	0.02847155175	chr5	73944573	73945072
MRT_575784	1.172537725	2.734428551	19.7104025	0.000994253099	0.02396068736	chr7	101130349	101130848
MRT_1018213	1.171719698	3.058234043	11.34312083	0.002187439141	0.0443055982	chr15	86292693	86293192

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MRT_712534	1.169627512	3.105250224	20.86264887	8.75E-05	0.003545411285	chr9	131173452	131173951
MRT_885568	1.169431688	2.95455184	13.36544672	0.001030147131	0.02463380114	chr12	95044136	95044635
MRT_967668	1.169359644	2.901594112	13.69183989	0.000915944255	0.02245320326	chr14	71107760	71108259
MRT_330732	1.168360848	2.633960645	11.70007003	1.91E-03	0.03973024257	chr4	57624020	57624519
MRT_657628	1.168119781	3.244544974	11.99151368	0.001709868905	0.03649773018	chr8	131026797	131027296
MRT_654590	1.167991763	2.789778047	15.23893016	0.000678295893	0.01768729057	chr8	125640264	125640763
MRT_999195	1.167882972	2.68864319	16.30344505	0.001182161345	0.02726645791	chr15	51175975	51176474
MRT_586715	1.166626318	3.743921773	11.76065615	0.001865570457	0.03907807817	chr7	128473111	128473610
MRT_752387	1.165198347	2.935358812	17.19994622	0.000339365237	0.01024103033	chr10	75648671	75649170
MRT_892461	1.164905168	2.740909144	18.22458348	0.001157035679	0.02683332663	chr12	109167643	109168142
MRT_1038139	1.164679679	2.599159622	19.46434766	0.002376537259	0.04723800763	chr16	23585042	23585541
MRT_1269751	1.163818445	2.707915586	11.40488993	0.002136262949	0.04342855824	chrX	131623193	131623692
MRT_419494	1.163586118	3.38137184	17.23189165	0.000272840052	0.008634080647	chr5	98103739	98104238
MRT_3732	1.162362855	2.901786375	13.70172614	0.000912705270	0.02238245558	chr1	6762945	6763444
MRT_1170671	1.157913171	2.747818364	19.59377855	0.001123588886	0.02633500226	chr19	49043310	49043809
MRT_735441	1.157663191	3.565486722	16.88130829	0.000306128085	0.0094332968	chr10	31892945	31893444
MRT_831891	1.155881428	2.86142814	17.70967978	0.000542532632	0.01482050052	chr11	112458847	112459346
MRT_732828	1.154838896	2.747964609	13.35695275	0.001110097503	0.0261075666	chr10	27735076	27735575
MRT_1109853	1.151612924	3.162020372	12.73949924	0.001294437268	0.02926187748	chr17	79426119	79426618
MRT_1099442	1.151429097	3.374967684	21.08503048	8.18E-05	0.003372796207	chr17	62225445	62225944
MRT_1108038	1.150887995	2.715672944	13.7583397	0.001637417255	0.03523586362	chr17	76931446	76931945
MRT_905643	1.149985907	3.342720791	18.52377996	0.000180010627	0.006267215992	chr12	132998696	132999195
MRT_300852	1.149412503	2.704844221	12.77151708	0.001765875253	0.03748258005	chr3	184377507	184378006
MRT_996717	1.149217914	3.57690932	23.70563023	3.82E-05	0.001839395822	chr15	45018719	45019218
MRT_5289	1.148415555	2.921802243	13.0281195	0.001164475916	0.02696734125	chr1	8904436	8904935
MRT_354265	1.148248517	3.589467842	11.40300204	0.002137807789	0.04344347194	chr4	124320410	124320909
MRT_42906	1.148150233	3.015528332	20.82766037	0.000206685329	0.006968143141	chr1	77747428	77747927
MRT_430145	1.147937043	3.175772554	16.07066654	0.000401037594	0.01166900718	chr5	126625597	126626096
MRT_471259	1.147190658	3.295641599	15.03843226	0.000570253601	0.01542165145	chr6	30695570	30696069
MRT_97808	1.14695859	4.29010911	23.60733379	3.93E-05	0.001875014571	chr1	223316359	223316858

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_572783	1.146458966	2.627603833	12.72307437	0.002375737145	0.0472295055	chr7	95315344	95315843
MRT_312586	1.145911832	2.631171598	16.29510803	0.002555828636	0.04991007993	chr4	6919955	6920454
MRT_155260	1.144172383	3.156034556	19.51317274	0.000132024173	0.004887668989	chr2	99683022	99683521
MRT_1049172	1.143471901	2.732428367	16.32691325	0.001490126486	0.03269308126	chr16	58373346	58373845
MRT_135566	1.141403654	2.687712142	14.95217217	0.001809236554	0.03816803122	chr2	47546832	47547331
MRT_510400	1.141393322	2.965631533	12.16386516	0.001602781764	0.03458442026	chr6	130072945	130073444
MRT_258725	1.141149875	2.860572491	18.50560146	0.000482593049	0.01354185993	chr3	81539587	81540086
MRT_714669	1.13976227	3.182000448	28.86906913	6.59E-05	0.002840698184	chr9	134278084	134278583
MRT_458177	1.13972605	3.997957521	16.84813187	0.000309497184	0.009502485082	chr6	3356341	3356840
MRT_1223852	1.139674127	2.6969388	13.40879269	0.00181903029	0.03829334384	chr22	17751348	17751847
MRT_62263	1.137888643	2.81959157	15.33001949	0.000945256880	0.02299897408	chr1	145264292	145264791
MRT_537778	1.137260464	4.742907794	14.11600356	0.000787471799	0.01989605541	chr7	12726173	12726672
MRT_1171918	1.13623877	3.266497639	18.60969736	0.000175179153	0.00611747598	chr19	50999876	51000375
MRT_358	1.13583727	3.766404143	13.12813156	0.001122782224	0.02633264805	chr1	1181712	1182211
MRT_1155018	1.135668536	3.97467088	13.32080834	0.001046922186	0.02492207765	chr19	16740070	16740569
MRT_752402	1.134616003	3.49573052	16.03101938	0.000406427141	0.01178257828	chr10	75670608	75671107
MRT_327251	1.133262047	2.807224353	13.30999967	0.001051028174	0.0249878486	chr4	47034560	47035059
MRT_64417	1.132929083	4.888305103	21.57290122	7.08E-05	0.003006060637	chr1	151512434	151512933
MRT_997034	1.132805258	3.517739488	13.11193197	0.001129424968	0.02640904659	chr15	45670556	45671055
MRT_1235561	1.131957446	2.749880425	17.51940131	0.001448610858	0.0319702644	chr22	37995196	37995695
MRT_490901	1.131922252	3.267726351	18.08322752	0.000207139347	0.006979891612	chr6	80340698	80341197
MRT_352318	1.131237505	3.149715614	12.49622779	0.001416145558	0.03144527412	chr4	119693827	119694326
MRT_1166162	1.131204099	2.79017395	13.40274608	0.001187498682	0.02736468165	chr19	41297679	41298178
MRT_784091	1.12441966	3.15950094	11.30484973	0.002219810049	0.04481437152	chr11	1957658	1958157
MRT_504719	1.123885695	5.014189915	12.70929178	0.00130891728	0.02949284319	chr6	114179987	114180486
MRT_745076	1.123835036	2.762204464	15.65846624	0.001442060598	0.03184786939	chr10	61470013	61470512
MRT_150937	1.123528449	2.736207614	11.51884915	0.002045206539	0.04201518079	chr2	85292067	85292566
MRT_803899	1.121391775	3.173981739	11.63422546	0.001957270132	0.04055683711	chr11	45942977	45943476
MRT_704407	1.12101809	2.78840538	12.65289205	0.001390017442	0.0309898879	chr9	116378640	116379139
MRT_307151	1.120601273	2.797628061	19.79873546	0.001201601153	0.02756445662	chr3	196722546	196723045

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MRT_6724	1.120074389	2.999331338	15.48890506	0.000488481098	0.01365572221	chr1	10854668	10855167
MRT_294617	1.119518694	2.861753588	18.82104703	0.000883990547	0.02181748532	chr3	171855621	171856120
MRT_132944	1.118684522	3.53552785	12.7191655	0.001304165175	0.02941857783	chr2	43155930	43156429
MRT_145886	1.118586719	4.675990452	20.78872173	8.94E-05	0.003608982412	chr2	70316563	70317062
MRT_270375	1.117831647	3.06800796	14.32964429	0.000730235030	0.01873733155	chr3	119013874	119014373
MRT_142270	1.116928492	3.073717382	14.92213621	0.000593677973	0.01592741154	chr2	64555003	64555502
MRT_179567	1.116751254	3.449938271	16.87459942	0.000306806184	0.009445013498	chr2	159824141	159824640
MRT_1026139	1.115947156	2.910370295	15.01454862	0.000735683608	0.01885806282	chr15	101818386	101818885
MRT_484786	1.115142886	4.031571954	12.29317487	0.001527192762	0.0332932222	chr6	56708836	56709335
MRT_1154500	1.115102367	3.303350463	13.12569805	0.001123777408	0.02633500226	chr19	15979803	15980302
MRT_746135	1.114896926	3.286234909	11.13252903	0.002372109648	0.04716478369	chr10	63662064	63662563
MRT_880149	1.114221612	2.873814548	11.70381503	0.001906210187	0.03968684551	chr12	81330322	81330821
MRT_805466	1.113713291	3.459058525	20.67685615	9.25E-05	0.003692015585	chr11	48130876	48131375
MRT_830626	1.1132222	3.420910478	15.17821897	0.000543405804	0.01483796165	chr11	109964259	109964758
MRT_65432	1.112426535	3.055364571	12.91425953	0.001213983417	0.02781328987	chr1	153762661	153763160
MRT_931004	1.109366281	3.469736831	14.44170703	0.000702017057	0.01817877327	chr13	78271470	78271969
MRT_505611	1.108462098	3.179713642	24.95890338	0.000105544524	0.004090019614	chr6	116882511	116883010
MRT_709690	1.108351189	2.784209911	18.29709955	0.001536701441	0.03344877133	chr9	127161232	127161731
MRT_1184173	1.10812352	2.969578662	11.11392063	0.002389219126	0.04737069434	chr20	17856507	17857006
MRT_503485	1.108005615	2.836289053	19.67086305	0.0011283504	0.02639977766	chr6	111880304	111880803
MRT_378586	1.107919665	2.784948961	17.22948389	0.001673784323	0.03587844529	chr4	185305355	185305854
MRT_142914	1.107234088	2.807004634	11.62746583	0.001962307962	0.04062910081	chr2	65527504	65528003
MRT_142446	1.105297596	2.879970198	13.95771738	0.000917561724	0.02248850701	chr2	64854456	64854955
MRT_764081	1.104930039	2.751360863	13.74226001	0.001877117294	0.0392551187	chr10	99479165	99479664
MRT_1264194	1.102434385	3.044465562	18.48759943	0.000348558826	0.01044145259	chrX	103173457	103173956
MRT_355	1.101190164	3.727620838	12.91707219	0.001212733482	0.02779971779	chr1	1178761	1179260
MRT_765856	1.100680968	3.446924599	11.75307918	0.001870933347	0.03915409426	chr10	102671716	102672215
MRT_15698	1.100479863	2.863403152	13.48811217	0.001028085821	0.02459842237	chr1	25030755	25031254
MRT_290389	1.100208199	3.080258783	12.35289048	0.001493591184	0.03274077848	chr3	159724265	159724764
MRT_510245	1.099027833	2.754564451	16.9943185	0.001984605864	0.04099600979	chr6	129820067	129820566

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MRT_11688	1.098840076	3.070357708	13.79405353	0.000883045148	0.02181112918	chr1	19268276	19268775
MRT_245453	1.098601282	3.226604689	18.51658984	0.000180421397	0.006277946124	chr3	52313859	52314358
MRT_55382	1.096865069	4.275652114	12.20428208	0.00157873119	0.03417010098	chr1	109235207	109235706
MRT_432144	1.092783907	3.2292655	13.41184329	0.001013017792	0.02433605651	chr5	131816788	131817287
MRT_984902	1.091529583	4.30418372	11.50147834	0.002058811331	0.04225336176	chr14	105266565	105267064
MRT_1237945	1.089695556	3.403468071	11.09726038	0.002404650483	0.04758799179	chr22	41444769	41445268
MRT_221619	1.089316159	2.881433782	14.67703309	0.001013090957	0.02433605651	chr3	4763189	4763688
MRT_1112741	1.087766669	3.844237236	12.78902925	0.001271067267	0.02882120785	chr18	3597386	3597885
MRT_1026960	1.085668032	4.103761759	15.19919957	0.000539495004	0.01477706937	chr16	726189	726688
MRT_192767	1.085571227	3.999880692	11.37112428	0.002164075927	0.04387865628	chr2	189158166	189158665
MRT_227561	1.08540786	2.993029539	11.50607811	0.002055199318	0.04218630043	chr3	15671598	15672097
MRT_1003664	1.085018141	2.742854882	11.3189508	0.002450946279	0.04831571656	chr15	60666723	60667222
MRT_907910	1.081795178	3.392738661	17.878905	0.000221184434	0.007323273461	chr13	22247813	22248312
MRT_1145598	1.080158802	3.045443377	12.49978208	0.001414281045	0.03141487251	chr19	1753363	1753862
MRT_89629	1.079809678	3.244205622	12.48568203	0.001421693272	0.03153396075	chr1	205304655	205305154
MRT_765928	1.078474003	4.235806704	11.66761505	0.001932589391	0.04011330529	chr10	102766567	102767066
MRT_867905	1.078045565	2.944888474	12.98321428	0.00118373635	0.02728789826	chr12	53781962	53782461
MRT_1084669	1.077810431	3.536185651	26.19261104	1.92E-05	0.001088737694	chr17	36860007	36860506
MRT_809391	1.076675383	2.980066636	25.43859722	0.000644536975	0.01698861238	chr11	63381137	63381636
MRT_409828	1.076667356	3.004470364	15.02888801	0.000572138034	0.0154594281	chr5	75699551	75700050
MRT_917527	1.076172507	3.403231999	14.99932083	0.000578018486	0.01559402267	chr13	41238692	41239191
MRT_1256753	1.076074361	3.037907565	15.28768742	0.00054141448	0.01479951814	chrX	51634828	51635327
MRT_544955	1.07117228	3.304447453	13.81627743	0.000876061830	0.0216653341	chr7	28059868	28060367
MRT_475332	1.07083909	3.494949477	11.43828921	0.002109131003	0.04300104833	chr6	37070892	37071391
MRT_213727	1.070788926	3.445859422	12.10828883	0.001636500615	0.03522211421	chr2	233404107	233404606
MRT_1152740	1.070034873	2.789628853	22.41315876	0.002059904649	0.04225553068	chr19	13024743	13025242
MRT_57118	1.068634885	3.296391405	18.07691336	0.000207558732	0.006986598785	chr1	112280916	112281415
MRT_1145273	1.066526978	3.446912173	12.96241957	0.001192771522	0.02741671575	chr19	1284627	1285126
MRT_374266	1.065873828	3.142456389	16.00104081	0.000410554062	0.01187401807	chr4	174178840	174179339
MRT_349493	1.065779156	2.767248576	16.9282624	0.002471421313	0.04865128834	chr4	110926649	110927148

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_565336	1.063174617	2.791942818	13.24849205	0.002380665837	0.04729171732	chr7	76631894	76632393
MRT_625996	1.062567356	3.137355271	11.69178614	0.001914932368	0.03982268109	chr8	55065740	55066239
MRT_312692	1.062378713	2.953454047	16.59038054	0.001074554115	0.02541775393	chr4	7076014	7076513
MRT_491031	1.062234145	2.944872666	15.46517132	0.000944508711	0.02299265728	chr6	80577784	80578283
MRT_718250	1.061713231	3.266517824	11.61556641	0.001971210415	0.04076577561	chr9	139419686	139420185
MRT_808231	1.060284208	3.067585638	13.94024312	0.000838184001	0.02092721056	chr11	61212974	61213473
MRT_11666	1.055887528	3.341903954	12.96795331	0.001190359914	0.02739914842	chr1	19234366	19234865
MRT_1079805	1.054272536	3.010056525	12.31270969	0.001516111797	0.03312567159	chr17	27952012	27952511
MRT_1109802	1.053090505	3.942147153	11.26634209	0.002252903663	0.0453131594	chr17	79362622	79363121
MRT_409093	1.052022349	3.442106328	11.46930568	0.002084267619	0.04260443123	chr5	73937749	73938248
MRT_1099736	1.05044914	2.855217143	11.6010553	0.001982125814	0.04096151748	chr17	62656224	62656723
MRT_1108036	1.049514365	2.826021724	15.34728163	0.002466118547	0.04857705851	chr17	76929397	76929896
MRT_908723	1.048222352	2.945243737	11.32736424	0.002200704424	0.04451740749	chr13	23951682	23952181
MRT_55298	1.04817762	3.214424385	23.36534996	0.000217631071	0.007237288753	chr1	109103479	109103978
MRT_875561	1.048085867	2.957503483	16.94986829	0.001155875302	0.02681622243	chr12	70133060	70133559
MRT_746792	1.047773809	5.137729837	14.10854032	0.000789556650	0.01993681629	chr10	65028728	65029227
MRT_642078	1.046861679	3.046692906	17.48578417	0.000636837650	0.01681712816	chr8	97340132	97340631
MRT_209399	1.046709232	2.962800989	14.32936167	0.001231298666	0.0281185695	chr2	224903789	224904288
MRT_713368	-1.044884855	3.637862433	11.75904108	0.001866712196	0.03908602189	chr9	132389131	132389630
MRT_97777	1.043599741	3.58545003	11.73253784	0.001885556113	0.03935685435	chr1	223263283	223263782
MRT_684115	1.042315222	3.513178872	16.66627284	0.000328687373	0.009968611743	chr9	72872913	72873412
MRT_809611	1.041719824	5.169311787	11.87210117	0.001788577979	0.03785746104	chr11	63685369	63685868
MRT_1168174	1.041573834	4.054933383	13.54349101	0.000966063014	0.0233835184	chr19	45245057	45245556
MRT_920331	1.039697402	3.204884967	13.68071145	0.000919605031	0.0225298792	chr13	45906896	45907395
MRT_1198796	1.038169834	3.356428518	20.35864079	0.00010185662	0.00397266692	chr20	48001943	48002442
MRT_920324	1.037027771	2.893265535	11.64418388	0.002117604988	0.04315300628	chr13	45899878	45900377
MRT_1007269	1.035717475	2.845170647	20.43194631	0.002363031002	0.04702112867	chr15	66782254	66782753
MRT_409968	1.034942773	4.183657752	16.62247045	0.000333498154	0.01009520405	chr5	76011606	76012105
MRT_1154631	1.034790295	3.184055555	20.22068928	0.000339268005	0.01024053265	chr19	16198686	16199185
MRT_628748	1.033726346	4.240216354	20.53358617	9.66E-05	0.003825294602	chr8	61591014	61591513

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MRT_1237946	1.032181168	3.164807077	11.84694458	0.001805652981	0.03810618806	chr22	41445328	41445827
MRT_142622	1.032102762	3.43257622	11.49622342	0.002062946199	0.04229740028	chr2	65085176	65085675
MRT_1205902	1.031676811	3.680910003	22.47374083	5.44E-05	0.002436704771	chr20	60943992	60944491
MRT_7353	1.030433335	3.026498314	17.22592649	0.000996533752	0.0240066299	chr1	11751431	11751930
MRT_891051	1.030247778	3.410738501	11.38459728	0.002152931547	0.04371136863	chr12	106533145	106533644
MRT_994108	1.029869126	2.908231208	17.67089809	0.001925129639	0.03998884583	chr15	40882846	40883345
MRT_544899	1.029706346	3.171712844	11.98322615	0.001715209036	0.03657478527	chr7	27960742	27961241
MRT_457890	1.028441699	3.415460099	11.8228498	0.001822172283	0.03835270483	chr6	2932336	2932835
MRT_623922	-1.028426695	3.783421994	12.28590568	0.001531338419	0.03336639357	chr8	49426201	49426700
MRT_868562	1.028045187	4.042811507	13.04296663	0.001158182293	0.02685500786	chr12	54747092	54747591
MRT_868103	1.027406693	3.42967956	11.66172105	0.001936921561	0.04016800347	chr12	54053725	54054224
MRT_709424	1.027248037	4.87106059	12.96211454	0.001192904611	0.02741671575	chr9	126773627	126774126
MRT_1069972	1.025931842	2.904257961	11.88939505	0.002007488612	0.04138108411	chr17	6357801	6358300
MRT_145917	1.02416213	3.883126875	12.50567463	0.00141119576	0.03135732357	chr2	70359852	70360351
MRT_312585	1.024103409	2.931057252	13.43110343	0.001666854178	0.03574801874	chr4	6919327	6919826
MRT_16532	1.020787754	3.631830568	12.41285102	0.001460652493	0.03217443528	chr1	26222639	26223138
MRT_597805	1.019999805	3.14948844	12.12682268	0.001625171637	0.0350139323	chr7	150085907	150086406
MRT_1150054	1.019819999	3.326389401	13.85900705	0.000862801617	0.02139444386	chr19	8426710	8427209
MRT_1110153	1.017793053	3.076568343	17.33065554	0.00091454341	0.02242319715	chr17	79918254	79918753
MRT_1101351	1.017764369	2.924352776	11.21830617	0.002294934574	0.04604171651	chr17	65437221	65437720
MRT_784116	1.017052252	4.16683867	12.91569073	0.001213347223	0.02780373652	chr11	1989717	1990216
MRT_524674	1.016108747	3.014231893	10.98615184	0.002510356904	0.04924197456	chr6	159179892	159180391
MRT_187230	1.015235556	2.955844614	15.12162954	0.001735077312	0.03693635377	chr2	175613545	175614044
MRT_1119805	1.014979153	3.359546271	21.7070936	0.000137865866	0.005046487543	chr18	20715200	20715699
MRT_689448	1.013855463	3.48967732	17.60543097	0.000241606480	0.007859429695	chr9	86581077	86581576
MRT_1244100	-1.013193532	3.804394382	11.06287877	0.002436837385	0.04807494678	chr22	50708312	50708811
MRT_759519	1.011114909	3.199210064	11.1401462	0.002365144257	0.04705579713	chr10	90695010	90695509
MRT_572564	1.010007788	2.900539391	13.57166971	0.002381300685	0.04729171732	chr7	94829074	94829573
MRT_544485	1.009845952	3.610836551	12.31883932	0.001512652711	0.03307288293	chr7	27191465	27191964
MRT_962570	1.008046472	3.589099643	17.69796236	0.000234478494	0.007668861625	chr14	61719420	61719919

peak_id	logFC	logCPM	F	PValue	FDR	seqnames	start	end
MRT_55380	1.006867543	3.26759992	12.73030228	0.001298827484	0.02933324164	chr1	109234091	109234590
MRT_1191379	1.004832051	3.478079062	24.97164686	7.63E-05	0.003189077139	chr20	34356959	34357458
MRT_784085	1.00332887	2.906124157	11.02310374	0.00252518	0.0494562508	chr11	1950271	1950770
MRT_3568	1.002650064	2.936242256	12.59755889	0.002096369434	0.04279589905	chr1	6516132	6516631
MRT_1099443	1.001112311	3.400712226	15.32525776	0.000516626106	0.0142593688	chr17	62225958	62226457
MRT_894048	1.000456526	3.088812428	11.16235485	0.002344961692	0.04676428793	chr12	111472287	111472786

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DEG	GO:0014706	striated muscle ti	38/268	389/18866	4.59E-21	1.42E-17	1.24E-17	KLHL41/MYF5/M	38
DEG	GO:0060537	muscle tissue de	38/268	409/18866	2.66E-20	4.10E-17	3.59E-17	KLHL41/MYF5/M	38
DEG	GO:0007517	muscle organ de	37/268	407/18866	1.82E-19	1.87E-16	1.64E-16	KLHL41/MYF5/T	37
DEG	GO:0051146	striated muscle c	30/268	295/18866	2.73E-17	2.10E-14	1.84E-14	CHRNA1/KLHL4	30
DEG	GO:0007519	skeletal muscle ti	22/268	158/18866	7.67E-16	4.73E-13	4.14E-13	KLHL41/MYF5/M	22
DEG	GO:0042692	muscle cell differ	32/268	390/18866	1.16E-15	5.96E-13	5.22E-13	CDH15/CHRNA1	32
DEG	GO:0055001	muscle cell devel	23/268	183/18866	1.64E-15	7.21E-13	6.31E-13	CHRNA1/KLHL4	23
DEG	GO:0060538	skeletal muscle c	22/268	168/18866	2.87E-15	1.11E-12	9.68E-13	KLHL41/MYF5/M	22
DEG	GO:0055002	striated muscle c	22/268	169/18866	3.26E-15	1.12E-12	9.77E-13	CHRNA1/KLHL4	22
DEG	GO:0003012	muscle system p	30/268	467/18866	5.49E-12	1.69E-09	1.48E-09	CHRNA1/KLHL4	30
DEG	GO:0035914	skeletal muscle c	13/268	69/18866	1.37E-11	3.83E-09	3.35E-09	KLHL41/MYF5/M	13
DEG	GO:0016202	regulation of stria	16/268	153/18866	5.91E-10	1.52E-07	1.33E-07	KLHL41/MYF5/S	16
DEG	GO:1901861	regulation of mus	16/268	156/18866	7.90E-10	1.87E-07	1.64E-07	KLHL41/MYF5/S	16
DEG	GO:0048634	regulation of mus	16/268	157/18866	8.68E-10	1.91E-07	1.67E-07	KLHL41/MYF5/S	16
DEG	GO:0048641	regulation of skel	10/268	49/18866	1.43E-09	2.93E-07	2.57E-07	KLHL41/MYF5/M	10
DEG	GO:0006936	muscle contractile	23/268	362/18866	2.31E-09	4.45E-07	3.90E-07	CHRNA1/KLHL4	23
DEG	GO:0048747	muscle fiber devel	10/268	60/18866	1.14E-08	2.04E-06	1.79E-06	CHRNA1/KLHL4	10
DEG	GO:0014902	myotube differen	13/268	117/18866	1.19E-08	2.04E-06	1.79E-06	KLHL41/MYF5/T	13
DEG	GO:0045445	myoblast differen	11/268	86/18866	3.70E-08	5.99E-06	5.24E-06	KLHL41/MYF5/S	11
DEG	GO:0006941	striated muscle c	15/268	178/18866	3.95E-08	6.08E-06	5.32E-06	CHRNA1/KLHL4	15
DEG	GO:0045661	regulation of myc	9/268	53/18866	5.29E-08	7.76E-06	6.79E-06	KLHL41/MYF5/S	9
DEG	GO:0003009	skeletal muscle c	8/268	43/18866	1.41E-07	1.97E-05	1.73E-05	CHRNA1/TNNC2	8
DEG	GO:0042693	muscle cell fate c	6/268	19/18866	1.81E-07	2.42E-05	2.12E-05	MYF5/MYOG/MY	6
DEG	GO:0035051	cardiocyte differe	13/268	158/18866	4.25E-07	5.46E-05	4.78E-05	CAV3/MYO18B/E	13
DEG	GO:0045663	positive regulatio	6/268	22/18866	4.79E-07	5.90E-05	5.17E-05	MYF5/SMYD1/M	6
DEG	GO:2000291	regulation of myc	6/268	24/18866	8.44E-07	0.000100003726	8.75E-05	KLHL41/PAX7/M	6
DEG	GO:0050879	multicellular orga	8/268	55/18866	1.02E-06	0.00011916746	9.79E-05	CHRNA1/TNNC2	8
DEG	GO:0050881	musculoskeletal	8/268	55/18866	1.02E-06	0.00011916746	9.79E-05	CHRNA1/TNNC2	8
DEG	GO:0010831	positive regulatio	7/268	39/18866	1.13E-06	0.00011916746	9.79E-05	MYF5/CAV3/SM	7
DEG	GO:0030049	muscle filament s	7/268	39/18866	1.13E-06	0.00011916746	9.79E-05	MYLK2/TNNC2/M	7
DEG	GO:0033275	actin-myosin filar	7/268	39/18866	1.13E-06	0.00011916746	9.79E-05	MYLK2/TNNC2/M	7
DEG	GO:0043403	skeletal muscle ti	7/268	40/18866	1.35E-06	0.000129833858	0.000113608505	PAX7/MYOG/MY	7
DEG	GO:0070252	actin-mediated c	11/268	123/18866	1.46E-06	0.000136805574	0.000119708965	MYLK2/TNNC2/M	11
DEG	GO:0055007	cardiac muscle c	11/268	126/18866	1.86E-06	0.000168605199	0.000147534588	CAV3/MYO18B/E	11

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DEG	GO:0051450	myoblast prolifer	6/268	28/18866	2.25E-06	0.000198247539	0.000173472521	KLHL41/PAX7/M	6
DEG	GO:0045165	cell fate commitr	16/268	278/18866	2.49E-06	0.000213118395	0.000186484965	MYF5/PAX7/MY	16
DEG	GO:0051147	regulation of mus	13/268	186/18866	2.70E-06	0.000219431643	0.000192009246	CDH15/MYF5/TF	13
DEG	GO:0055013	cardiac muscle c	9/268	83/18866	2.71E-06	0.000219431643	0.000192009246	CAV3/MYO18B/E	9
DEG	GO:0010830	regulation of myc	8/268	63/18866	2.94E-06	0.000232622861	0.000203551955	MYF5/TRIM72/C	8
DEG	GO:0007520	myoblast fusion	7/268	45/18866	3.09E-06	0.000237957060	0.000208219539	MYF5/CAV3/MY	7
DEG	GO:0030239	myofibril assemb	8/268	67/18866	4.72E-06	0.000354832998	0.000310489477	KLHL41/MYH3/C	8
DEG	GO:0055006	cardiac cell deve	9/268	89/18866	4.86E-06	0.000356496035	0.000311944685	CAV3/MYO18B/E	9
DEG	GO:0048741	skeletal muscle fi	6/268	32/18866	5.16E-06	0.000370067443	0.000323820072	KLHL41/MYF5/R	6
DEG	GO:0048738	cardiac muscle ti	14/268	231/18866	5.91E-06	0.000413740264	0.000362035096	MYLK2/CAV3/MY	14
DEG	GO:0051153	regulation of stri	10/268	119/18866	7.73E-06	0.000529515529	0.000463341912	MYF5/TRIM72/C	10
DEG	GO:0014904	myotube cell dev	6/268	35/18866	8.92E-06	0.000597882675	0.000523165208	KLHL41/MYF5/R	6
DEG	GO:0048742	regulation of skel	4/268	11/18866	1.21E-05	0.000782399993	0.000684623376	MYF5/MYOG/MY	4
DEG	GO:0030048	actin filament-ba	11/268	153/18866	1.22E-05	0.000782399993	0.000684623376	MYLK2/TNNC2/M	11
DEG	GO:0003002	regionalization	17/268	355/18866	1.40E-05	0.000877500965	0.000767839568	MYF5/PAX7/PRC	17
DEG	GO:0000768	syncytium format	7/268	58/18866	1.75E-05	0.0010566171	0.000924571539	MYF5/CAV3/MY	7
DEG	GO:0140253	cell-cell fusion	7/268	58/18866	1.75E-05	0.0010566171	0.000924571539	MYF5/CAV3/MY	7
DEG	GO:0006949	syncytium format	7/268	60/18866	2.19E-05	0.001297955797	0.001135750112	MYF5/CAV3/MY	7
DEG	GO:0060562	epithelial tube m	16/268	331/18866	2.23E-05	0.001297955797	0.001135750112	FMN1/BBS5/CAV	16
DEG	GO:0003015	heart process	15/268	297/18866	2.43E-05	0.001371020803	0.001199684176	MYLK2/RYR1/CA	15
DEG	GO:0045843	negative regulati	7/268	61/18866	2.45E-05	0.001371020803	0.001199684176	SIRT2/CAV3/TLL	7
DEG	GO:0071696	ectodermal plac	4/268	13/18866	2.57E-05	0.00141646808	0.001239451901	SIX4/EDA/TBX3/	4
DEG	GO:0048635	negative regulati	7/268	62/18866	2.72E-05	0.001473382987	0.001289254146	SIRT2/CAV3/TLL	7
DEG	GO:0048643	positive regulatio	5/268	26/18866	2.87E-05	0.001515046803	0.001325711229	MYF5/MYOG/MY	5
DEG	GO:0051149	positive regulatio	9/268	111/18866	2.94E-05	0.001515046803	0.001325711229	CDH15/MYF5/CA	9
DEG	GO:0048562	embryonic organ	15/268	302/18866	2.95E-05	0.001515046803	0.001325711229	CLRN1/MYF5/BE	15
DEG	GO:0010927	cellular compone	9/268	112/18866	3.16E-05	0.0015838816	0.001385943735	KLHL41/MYH3/C	9
DEG	GO:0031099	regeneration	12/268	201/18866	3.19E-05	0.0015838816	0.001385943735	MAP2K1/PAX7/M	12
DEG	GO:1901862	negative regulati	7/268	64/18866	3.36E-05	0.001643690019	0.001438277888	SIRT2/CAV3/TLL	7
DEG	GO:0045214	sarcomere organ	6/268	45/18866	3.98E-05	0.001914612472	0.001675343131	KLHL41/MYH3/C	6
DEG	GO:0007178	transmembrane r	16/268	359/18866	5.92E-05	0.002772575511	0.002426086431	AKAP4/GDF5/CA	16
DEG	GO:0007271	synaptic transmis	5/268	30/18866	5.94E-05	0.002772575511	0.002426086431	CHRNA1/CHRNA	5
DEG	GO:0060047	heart contraction	14/268	287/18866	6.60E-05	0.003035687183	0.002656317006	MYLK2/RYR1/CA	14

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DEG	GO:0030509	BMP signaling pa	10/268	155/18866	7.62E-05	0.00340563195	0.002980029734	GDF5/DSG4/RG	10
DEG	GO:0048754	branching morph	10/268	155/18866	7.62E-05	0.00340563195	0.002980029734	CAV3/SIX4/DLG	10
DEG	GO:0051155	positive regulatio	7/268	73/18866	7.91E-05	0.003480851194	0.003045848819	MYF5/CAV3/SM	7
DEG	GO:0048568	embryonic organ	18/268	451/18866	8.56E-05	0.003711476125	0.003247652526	NCOA1/CLRN1/I	18
DEG	GO:0003007	heart morphogen	13/268	258/18866	8.67E-05	0.003711476125	0.003247652526	MYLK2/RYR1/BE	13
DEG	GO:0007389	pattern specificat	18/268	455/18866	9.56E-05	0.004037462347	0.003532900213	MYF5/BBS5/PAX	18
DEG	GO:0042472	inner ear morpho	8/268	103/18866	0.000110846936	0.004616625099	0.004039684929	CLRN1/POU3F4	8
DEG	GO:0042246	tissue regenerati	7/268	79/18866	0.000130845521	0.005376878608	0.004704929469	PAX7/MYOG/MY	7
DEG	GO:0071772	response to BMF	10/268	168/18866	0.000148687004	0.005951342169	0.005207602253	GDF5/DSG4/RG	10
DEG	GO:0071773	cellular response	10/268	168/18866	0.000148687004	0.005951342169	0.005207602253	GDF5/DSG4/RG	10
DEG	GO:1901741	positive regulatio	4/268	20/18866	0.000161249224	0.006371411657	0.005575175609	MYF5/MYOG/MY	4
DEG	GO:0046716	muscle cell cellul	4/268	21/18866	0.000196975463	0.007684536423	0.006724199022	CHRNA1/CAV3/M	4
DEG	GO:1901739	regulation of myc	4/268	22/18866	0.000238072170	0.009171730372	0.008025538171	MYF5/MYOG/MY	4
DEG	GO:0061053	somite developm	7/268	89/18866	0.000275769498	0.01049285919	0.009181565371	MYF5/MYF6/MS	7
DEG	GO:0090092	regulation of tran	12/268	254/18866	0.000292514363	0.01099425938	0.009620305517	GDF5/CAV3/CHF	12
DEG	GO:0060675	ureteric bud morp	6/268	65/18866	0.000318111795	0.01181229583	0.01033611186	FMN1/SIX4/FOX	6
DEG	GO:0072171	mesonephric tubi	6/268	66/18866	0.000345811277	0.01268798044	0.01110236207	FMN1/SIX4/FOX	6
DEG	GO:0061138	morphogenesis c	10/268	187/18866	0.000353095182	0.01280281592	0.01120284654	CAV3/SIX4/DLG	10
DEG	GO:0072080	nephron tubule d	7/268	93/18866	0.000361375761	0.0129506988	0.01133224848	FMN1/SIX4/NOT	7
DEG	GO:0042471	ear morphogene	8/268	123/18866	0.000376431565	0.01333519637	0.01166869535	CLRN1/POU3F4	8
DEG	GO:0010592	positive regulatio	4/268	25/18866	0.000398141164	0.01394398941	0.01220140745	CLRN1/PLCE1/M	4
DEG	GO:0061326	renal tubule deve	7/268	95/18866	0.000411510622	0.01425028918	0.0124694289	FMN1/SIX4/NOT	7
DEG	GO:0043500	muscle adaptatio	8/268	125/18866	0.000419588614	0.01436857901	0.01257293604	CAV3/MYOG/MY	8
DEG	GO:0048642	negative regulati	3/268	11/18866	0.000429859331	0.0144002876	0.01260068201	TLL2/SIX4/MST	3
DEG	GO:2000818	negative regulati	3/268	11/18866	0.000429859331	0.0144002876	0.01260068201	MIR133A1/MYOI	3
DEG	GO:0043501	skeletal muscle a	4/268	26/18866	0.000465310602	0.01525624762	0.0133496726	MYOG/MYOZ1/M	4
DEG	GO:0060037	pharyngeal syste	4/268	26/18866	0.000465310602	0.01525624762	0.0133496726	SIX4/ISL1/FGF8	4
DEG	GO:0003143	embryonic heart	6/268	70/18866	0.000476000618	0.01544246218	0.01351261591	BBS5/NOTCH2/F	6
DEG	GO:0090596	sensory organ m	12/268	269/18866	0.000490278142	0.01573997121	0.01377294519	PITX3/CLRN1/P	12
DEG	GO:0001657	ureteric bud deve	7/268	98/18866	0.000496984188	0.01579077596	0.01381740087	FMN1/SIX4/FOX	7
DEG	GO:0090287	regulation of cell	13/268	310/18866	0.000518305310	0.01623865515	0.01420930855	GDF5/CAV3/TME	13
DEG	GO:0072163	mesonephric epit	7/268	99/18866	0.000528421871	0.01623865515	0.01420930855	FMN1/SIX4/FOX	7
DEG	GO:0072164	mesonephric tubi	7/268	99/18866	0.000528421871	0.01623865515	0.01420930855	FMN1/SIX4/FOX	7

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DEG	GO:0048839	inner ear develop	10/268	197/18866	0.000532155798	0.01623865515	0.01420930855	CLRN1/POU3F4	10
DEG	GO:0035282	segmentation	7/268	100/18866	0.000561422368	0.01680695762	0.01470659019	MYF5/MYF6/MS	7
DEG	GO:0060788	ectodermal plac	3/268	12/18866	0.000567139387	0.01680695762	0.01470659019	SIX4/EDA/TBX3	3
DEG	GO:0071697	ectodermal plac	3/268	12/18866	0.000567139387	0.01680695762	0.01470659019	SIX4/EDA/TBX3	3
DEG	GO:0072078	nephron tubule n	6/268	73/18866	0.000596502593	0.01740507069	0.01522995701	FMN1/SIX4/FOX	6
DEG	GO:0031032	actomyosin struc	10/268	200/18866	0.000598616967	0.01740507069	0.01522995701	KLHL41/MYH3/C	10
DEG	GO:0001763	morphogenesis c	10/268	201/18866	0.000622240011	0.01778490917	0.01556232702	CAV3/SIX4/DLG	10
DEG	GO:0060143	positive regulatio	4/268	28/18866	0.000623221995	0.01778490917	0.01556232702	MYF5/MYOG/MY	4
DEG	GO:0021536	diencephalon dev	6/268	74/18866	0.000641522870	0.01813920631	0.01587234761	NCOA1/PROP1/I	6
DEG	GO:0001823	mesonephros de	7/268	103/18866	0.000670359283	0.01861303886	0.01628696525	FMN1/SIX4/FOX	7
DEG	GO:0060079	excitatory postsy	7/268	103/18866	0.000670359283	0.01861303886	0.01628696525	CHRNA1/CHRNA	7
DEG	GO:0072088	nephron epitheliu	6/268	75/18866	0.000689132325	0.01896344488	0.01659358099	FMN1/SIX4/FOX	6
DEG	GO:0051451	myoblast migratio	3/268	13/18866	0.000729560028	0.01989826555	0.01741157701	SIX4/MSTN/MEC	3
DEG	GO:0060415	muscle tissue mo	6/268	76/18866	0.000739431229	0.01999058814	0.01749236204	MYF5/MYLK2/PA	6
DEG	GO:0048332	mesoderm morph	6/268	77/18866	0.000792521571	0.02069958884	0.01811275884	MSGN1/CHRD/T	6
DEG	GO:0060411	cardiac septum n	6/268	77/18866	0.000792521571	0.02069958884	0.01811275884	NOTCH2/ISL1/F	6
DEG	GO:0061333	renal tubule morph	6/268	77/18866	0.000792521571	0.02069958884	0.01811275884	FMN1/SIX4/FOX	6
DEG	GO:0072028	nephron morpho	6/268	77/18866	0.000792521571	0.02069958884	0.01811275884	FMN1/SIX4/FOX	6
DEG	GO:0060142	regulation of syn	4/268	30/18866	0.000815783209	0.02112809959	0.01848771855	MYF5/MYOG/MY	4
DEG	GO:0072132	mesenchyme mo	5/268	52/18866	0.000839669977	0.02156552393	0.01887047792	ISL1/ACTC1/FGF	5
DEG	GO:0060048	cardiac muscle c	8/268	140/18866	0.000887939022	0.02261676088	0.01979034167	MYLK2/CAV3/SC	8
DEG	GO:0014841	skeletal muscle s	3/268	14/18866	0.000918813598	0.0228369638	0.01998302581	MYOG/MSTN/ME	3
DEG	GO:0021527	spinal cord assoc	3/268	14/18866	0.000918813598	0.0228369638	0.01998302581	PAX7/MDGA1/W	3
DEG	GO:0060911	cardiac cell fate c	3/268	14/18866	0.000918813598	0.0228369638	0.01998302581	ISL1/TBX3/ACVF	3
DEG	GO:0035050	embryonic heart	6/268	80/18866	0.000969586122	0.02381632327	0.02083999461	BBS5/NOTCH2/F	6
DEG	GO:0072073	kidney epithelium	8/268	142/18866	0.000973671879	0.02381632327	0.02083999461	FMN1/SIX4/NOT	8
DEG	GO:0072009	nephron epitheliu	7/268	110/18866	0.000990068641	0.02402670515	0.02102408504	FMN1/SIX4/NOT	7
DEG	GO:0072006	nephron develop	8/268	143/18866	0.001018955993	0.02453454977	0.02146846426	FMN1/PLCE1/SI	8
DEG	GO:0014888	striated muscle a	5/268	55/18866	0.001085761368	0.02594043827	0.02269865871	MYOG/MYOZ1/M	5
DEG	GO:0099565	chemical synapti	7/268	112/18866	0.001100503793	0.0260904053	0.02282988435	CHRNA1/CHRNA	7
DEG	GO:0008016	regulation of hea	11/268	256/18866	0.001132516595	0.02633617048	0.02304493622	RYR1/CAV3/SCN	11
DEG	GO:0090257	regulation of mus	11/268	256/18866	0.001132516595	0.02633617048	0.02304493622	PLCE1/MYLK2/T	11
DEG	GO:0014856	skeletal muscle c	3/268	15/18866	0.001136505734	0.02633617048	0.02304493622	MYOG/MSTN/ME	3

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DEG	GO:0048644	muscle organ mo	6/268	83/18866	0.001175602272	0.02689586703	0.02353468744	MYF5/MYLK2/PA	6
DEG	GO:1902745	positive regulatio	4/268	33/18866	0.001178112281	0.02689586703	0.02353468744	CLRN1/PLCE1/M	4
DEG	GO:0008277	regulation of G p	8/268	148/18866	0.00127131207	0.02881017499	0.0252097641	PLCE1/GIT2/MIF	8
DEG	GO:0045844	positive regulatio	6/268	85/18866	0.001330511766	0.02971476278	0.02600130545	MYF5/MYOG/MY	6
DEG	GO:0048636	positive regulatio	6/268	85/18866	0.001330511766	0.02971476278	0.02600130545	MYF5/MYOG/MY	6
DEG	GO:1903522	regulation of bloc	12/268	303/18866	0.001378081004	0.03047124818	0.02666325279	RYR1/CAV3/SCN	12
DEG	GO:0060413	atrial septum mo	3/268	16/18866	0.001384157932	0.03047124818	0.02666325279	NOTCH2/ISL1/A	3
DEG	GO:0050808	synapse organiz	15/268	433/18866	0.001406009189	0.03056978636	0.02674947664	CHRNA1/DOCK1	15
DEG	GO:1901863	positive regulatio	6/268	86/18866	0.001413579032	0.03056978636	0.02674947664	MYF5/MYOG/MY	6
DEG	GO:0043583	ear development	10/268	224/18866	0.001418390477	0.03056978636	0.02674947664	CLRN1/POU3F4	10
DEG	GO:0030900	forebrain develop	14/268	391/18866	0.001480954909	0.03150205545	0.02756523995	NCOA1/PROP1/	14
DEG	GO:0001658	branching involve	5/268	59/18866	0.001492310219	0.03150205545	0.02756523995	SIX4/FOXD1/FG	5
DEG	GO:0071385	cellular response	5/268	59/18866	0.001492310219	0.03150205545	0.02756523995	ISL1/MYOD1/MS	5
DEG	GO:0007409	axonogenesis	16/268	482/18866	0.001527590985	0.03202745181	0.02802497747	COL25A1/MAP2I	16
DEG	GO:0042391	regulation of mer	15/268	443/18866	0.001756599713	0.03658000213	0.03200859505	CHRNA1/CHRNA	15
DEG	GO:0035137	hindlimb morpho	4/268	37/18866	0.001818853562	0.03762219246	0.03292054274	FMN1/GDF5/FGI	4
DEG	GO:0071384	cellular response	5/268	62/18866	0.001863559259	0.03828993092	0.03350483384	ISL1/MYOD1/MS	5
DEG	GO:0001656	metanephros dev	6/268	91/18866	0.001889755604	0.03857103823	0.03375081114	FMN1/SIX4/DLG	6
DEG	GO:0022612	gland morphogen	7/268	124/18866	0.00198124466	0.04017234239	0.03515200014	CAV3/PROP1/NO	7
DEG	GO:0010591	regulation of lam	4/268	38/18866	0.002010410953	0.04049729776	0.03543634579	CLRN1/PLCE1/M	4
DEG	GO:0030510	regulation of BM	6/268	93/18866	0.002110873619	0.04224488633	0.03696553802	GDF5/CHRD/NO	6
DEG	GO:0001947	heart looping	5/268	64/18866	0.00214593734	0.04266954117	0.0373371237	BBS5/NOTCH2/F	5
DEG	GO:0014741	negative regulati	4/268	39/18866	0.00221547137	0.04374659138	0.03827957482	CAV3/MIR133A1	4
DEG	GO:0060993	kidney morphoge	6/268	94/18866	0.002228492812	0.04374659138	0.03827957482	FMN1/SIX4/FOX	6
DEG	GO:0007179	transforming gro	9/268	202/18866	0.002460637458	0.04799800409	0.041999688	GDF5/CAV3/PTF	9
DEG	GO:0001822	kidney developm	11/268	283/18866	0.002496153804	0.04838456618	0.04233794138	FMN1/PLCE1/SI	11
DEG	GO:0007411	axon guidance	11/268	284/18866	0.002564879715	0.04940599552	0.04323172257	VAX1/SPTB/NOT	11
DEG	GO:0048706	embryonic skelet	7/268	130/18866	0.002588411253	0.04954958685	0.04335736928	MYF5/PAX7/SIX	7
DAP	GO:0007519	skeletal muscle ti	19/282	158/18866	2.79E-12	5.64E-09	5.08E-09	MYF5/CHRND/C	19
DAP	GO:0007517	muscle organ de	29/282	407/18866	3.57E-12	5.64E-09	5.08E-09	MYF5/CHRND/C	29
DAP	GO:0060538	skeletal muscle c	19/282	168/18866	8.38E-12	8.82E-09	7.95E-09	MYF5/CHRND/C	19
DAP	GO:0014706	striated muscle ti	25/282	389/18866	1.03E-09	8.13E-07	7.33E-07	MYF5/ACVR1/CH	25
DAP	GO:0060537	muscle tissue de	25/282	409/18866	2.87E-09	1.81E-06	1.64E-06	MYF5/ACVR1/CH	25

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DAP	GO:0035914	skeletal muscle c	11/282	69/18866	5.80E-09	3.05E-06	2.75E-06	MYF5/MYF6/SM	11
DAP	GO:0006936	muscle contractio	22/282	362/18866	2.95E-08	1.33E-05	1.20E-05	CHRND/CHRNA	22
DAP	GO:0045661	regulation of myc	9/282	53/18866	8.17E-08	3.23E-05	2.91E-05	MYF5/MYF6/SM	9
DAP	GO:0051146	striated muscle c	19/282	295/18866	1.08E-07	3.46E-05	3.12E-05	MYF5/ACVR1/CH	19
DAP	GO:0042692	muscle cell differ	22/282	390/18866	1.10E-07	3.46E-05	3.12E-05	MYF5/ACVR1/CH	22
DAP	GO:0003012	muscle system p	24/282	467/18866	1.61E-07	4.63E-05	4.18E-05	CHRND/CHRNA	24
DAP	GO:0046716	muscle cell cellu	6/282	21/18866	4.75E-07	1.25E-04	1.13E-04	CHRNA1/MSTN/	6
DAP	GO:0048641	regulation of skel	8/282	49/18866	5.98E-07	1.36E-04	1.22E-04	MYF5/MYF6/RBI	8
DAP	GO:0045445	myoblast differen	10/282	86/18866	6.18E-07	1.36E-04	1.22E-04	MYF5/MYF6/SM	10
DAP	GO:0045663	positive regulatio	6/282	22/18866	6.45E-07	1.36E-04	1.22E-04	MYF5/MYF6/SM	6
DAP	GO:0055001	muscle cell devel	14/282	183/18866	6.87E-07	0.000135589760	1.22E-04	MYF5/CHRNA1/I	14
DAP	GO:0055002	striated muscle c	13/282	169/18866	1.62E-06	0.000301281460	0.00027153153	MYF5/CHRNA1/I	13
DAP	GO:0060485	mesenchyme dev	17/282	290/18866	1.88E-06	0.000329517460	0.000296979376	ACVR1/IL17RD/I	17
DAP	GO:0048747	muscle fiber dev	8/282	60/18866	2.94E-06	0.000489294669	0.000440979440	MYF5/CHRNA1/I	8
DAP	GO:0060602	branch elongatio	5/282	19/18866	7.05E-06	0.001113331548	0.00100339602	SIX1/FGF1/FGF	5
DAP	GO:0048762	mesenchymal ce	14/282	229/18866	9.55E-06	0.001436053097	0.001294250545	ACVR1/IL17RD/I	14
DAP	GO:0014902	myotube differen	10/282	117/18866	1.04E-05	0.0014884252060	0.001341451188	MYF5/TRIM72/M	10
DAP	GO:0006941	striated muscle c	12/282	178/18866	1.57E-05	0.002161346055	0.001947924708	CHRND/CHRNA	12
DAP	GO:0003156	regulation of anir	6/282	38/18866	1.95E-05	0.002471346159	0.002227313961	FGF8/SIX1/SULF	6
DAP	GO:0016202	regulation of stria	11/282	153/18866	1.96E-05	0.002471346159	0.002227313961	MYF5/MYF6/FGF	11
DAP	GO:1901861	regulation of mus	11/282	156/18866	2.35E-05	0.002807564607	0.002530332638	MYF5/MYF6/FGF	11
DAP	GO:0001759	organ induction	5/282	24/18866	2.42E-05	0.002807564607	0.002530332638	FGF8/SIX1/FGF	5
DAP	GO:0048634	regulation of mus	11/282	157/18866	2.49E-05	0.002807564607	0.002530332638	MYF5/MYF6/FGF	11
DAP	GO:0003009	skeletal muscle c	6/282	43/18866	4.05E-05	0.00441020395	0.003974719929	CHRND/CHRNA	6
DAP	GO:0048645	animal organ for	7/282	65/18866	5.14E-05	0.005405734416	0.004871947094	MAP2K1/FGF8/S	7
DAP	GO:0007389	pattern specificat	19/282	455/18866	5.90E-05	0.006013010688	0.005419258086	MYF5/ACVR1/M	19
DAP	GO:0003401	axis elongation	5/282	30/18866	7.56E-05	0.007453532591	0.006717536166	SIX1/FGF1/FGF	5
DAP	GO:0003002	regionalization	16/282	355/18866	9.45E-05	0.009036638475	0.008144318823	MYF5/ACVR1/M	16
DAP	GO:0048741	skeletal muscle fi	5/282	32/18866	0.000104184745	0.009673860085	0.008718618212	MYF5/MYF6/SIX	5
DAP	GO:0060425	lung morphogene	6/282	52/18866	0.000120888728	0.01090416333	0.009827435605	MAP2K1/FGF8/F	6
DAP	GO:0042472	inner ear morpho	8/282	103/18866	0.000157311697	0.01276762253	0.01150688818	CTHRC1/FGF8/S	8
DAP	GO:0060079	excitatory postsy	8/282	103/18866	0.000157311697	0.01276762253	0.01150688818	CHRND/CHRNA	8
DAP	GO:0042693	muscle cell fate c	4/282	19/18866	0.000158672891	0.01276762253	0.01150688818	MYF5/ACVR1/M	4

Cluster	ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	geneID	Count
DAP	GO:0014904	myotube cell dev	5/282	35/18866	0.000161915823	0.01276762253	0.01150688818	MYF5/MYF6/SIX	5
DAP	GO:0050879	multicellular orga	6/282	55/18866	0.000165813279	0.01276762253	0.01150688818	CHRND/CHRNA	6
DAP	GO:0050881	musculoskeletal	6/282	55/18866	0.000165813279	0.01276762253	0.01150688818	CHRND/CHRNA	6
DAP	GO:0042246	tissue regenerati	7/282	79/18866	0.000179058473	0.01332772861	0.01201168679	NINJ2/MYF6/TM	7
DAP	GO:0010092	specification of a	5/282	36/18866	0.000185752315	0.01332772861	0.01201168679	FGF8/SIX1/FGF	5
DAP	GO:0031128	developmental in	5/282	36/18866	0.000185752315	0.01332772861	0.01201168679	FGF8/SIX1/FGF	5
DAP	GO:0003158	endothelium dev	9/282	135/18866	0.000198434252	0.01392126524	0.01254661486	ACVR1/PECAM1	9
DAP	GO:0030878	thyroid gland dev	4/282	21/18866	0.000239306896	0.01573941397	0.01418523114	MAP2K1/FGF8/S	4
DAP	GO:2000678	negative regulati	4/282	21/18866	0.000239306896	0.01573941397	0.01418523114	HEY1/MAD2L2/S	4
DAP	GO:2001014	regulation of skel	4/282	21/18866	0.000239306896	0.01573941397	0.01418523114	RBM24/SIX1/KLI	4
DAP	GO:0035904	aorta developme	6/282	60/18866	0.000269043307	0.01733407592	0.01562242876	LTBP1/FGF8/SIX	6
DAP	GO:0099565	chemical synapti	8/282	112/18866	0.000280310703	0.01758948256	0.01585261536	CHRND/CHRNA	8
DAP	GO:0050954	sensory percepti	10/282	173/18866	0.000284150652	0.01758948256	0.01585261536	SLC26A4/SIX1/C	10
DAP	GO:0007015	actin filament org	17/282	434/18866	0.000305979113	0.01857646271	0.0167421365	SVIL/ADD1/SYN	17
DAP	GO:0060078	regulation of pos	9/282	144/18866	0.000321270542	0.01913681328	0.01724715546	CHRND/CHRNA	9
DAP	GO:0045446	endothelial cell d	8/282	117/18866	0.000377070099	0.02204463528	0.01986784561	ACVR1/PECAM1	8
DAP	GO:0070296	sarcoplasmic reti	5/282	43/18866	0.000435539221	0.02499995129	0.02253133999	MRLN/CHD7/RYS	5
DAP	GO:0016331	morphogenesis c	9/282	151/18866	0.000455366569	0.02567129037	0.02313638793	CTHRC1/FGF8/S	9
DAP	GO:0001837	epithelial to mese	9/282	152/18866	0.000477816341	0.02646431911	0.02385110933	ACVR1/IL17RD/I	9
DAP	GO:0042471	ear morphogene	8/282	123/18866	0.000527378336	0.02870574844	0.02587120952	CTHRC1/FGF8/S	8
DAP	GO:0045214	sarcomere organ	5/282	45/18866	0.000539519847	0.02886888402	0.02601823633	MYPN/KLHL41/A	5
DAP	GO:0048643	positive regulatio	4/282	26/18866	0.000563645074	0.0291709426	0.02629046825	MYF5/MYF6/RBI	4
DAP	GO:0060384	innervation	4/282	26/18866	0.000563645074	0.0291709426	0.02629046825	COL25A1/SULF1	4
DAP	GO:0048839	inner ear develop	10/282	197/18866	0.00078790305	0.03991722124	0.03597560943	CTHRC1/FGF8/S	10
DAP	GO:0007188	adenylate cyclasi	11/282	233/18866	0.000796574259	0.03991722124	0.03597560943	CHRM3/GPR176	11
DAP	GO:0051451	myoblast migrati	3/282	13/18866	0.000845704793	0.04135148275	0.03726824529	SIX1/MEGF10/M	3
DAP	GO:0050808	synapse organiz	16/282	433/18866	0.000855281674	0.04135148275	0.03726824529	CHRNA1/CHRNA	16
DAP	GO:0035116	embryonic hindli	4/282	29/18866	0.000864490928	0.04135148275	0.03726824529	FGF8/CHD7/AFF	4
DAP	GO:0072175	epithelial tube for	8/282	133/18866	0.000882941290	0.04160366646	0.03749552722	CTHRC1/FGF8/S	8
DAP	GO:0007271	synaptic transmis	4/282	30/18866	0.000985866373	0.04577029619	0.04125072457	CHRNA1/CHRNA	4
DAP	GO:0060541	respiratory syste	10/282	204/18866	0.001028416273	0.04705377065	0.0424074628	MAP2K1/FGF8/S	10
DAP	GO:0014841	skeletal muscle s	3/282	14/18866	0.001064496759	0.04757851928	0.04288039531	SIX1/MEGF10/M	3
DAP	GO:0014812	muscle cell migra	7/282	106/18866	0.001070026883	0.04757851928	0.04288039531	MIR135B/SIX1/M	7

label	logFC.RNAseq	logCPM.RNAseq	FDR.RNAseq	PValue.RNAseq	FDR.RNAseq	ensembl_id	gene_symbol	peak_id	logFC.ATACseq	logCPM.ATACseq	FATACseq	PValue.ATACseq	FDR.ATACseq	seqnames	start	end	width	strand	peak_name	peak_score	specificity	annotation	distanceToSS	gene_name	MYRF_motif	MYRF_motif	MYO1_motif	MYO2_motif
ENSG000001110	10.30802762	5.13262011	65.3888021	1.17E-08	2.35E-05	ENSG00000111	MYRF	MRT_880029	4.46829148	3.25996868	120.1222873	1.14E-14	3.61E-10	chr12	81110993	81110982	500	+	PASVDV_bwa-m	8.86812075	Shared	Promoter		o myogenic factor 1	FALSE	FALSE	FALSE	FALSE
ENSG000001110	3.90532604	4.20941803	136.7551232	5.04E-12	7.01E-06	ENSG00000110	CHRNA1	MRT_1070521	6.70382136	6.70382136	67.70382136	5.14E-07	2.05E-06	chr17	7348371	7348376	500	+	PAWFWF_bwa-m	5.97732772	Shared	Promoter		o cholinergic recep	FALSE	FALSE	FALSE	FALSE
ENSG000001110	10.30202752	5.13262011	65.3888021	1.17E-08	2.35E-05	ENSG00000111	MYRF	MRT_880029	4.46844028	3.25207847	123.8544887	1.14E-12	2.21E-08	chr12	8110767	8111026	500	+	PASVDV_bwa-m	8.82024601	Shared	Promoter	-442	myogenic factor 1	FALSE	FALSE	FALSE	FALSE
ENSG000001662	2.58313881	4.90745986	47.9394094	2.03E-07	2.04E-04	ENSG00000166	USP5A	MRT_752180	3.51275504	3.11621415	37.416229	1.03E-12	1.04E-08	chr10	75312993	75313492	500	+	PARZBI_bwa-m	6.74166840	Shared	Promoter		o ubiquitin specific	FALSE	FALSE	TRUE	FALSE
ENSG000001662	2.58313881	4.90745986	47.9394094	2.03E-07	2.04E-04	ENSG00000166	USP5A	MRT_752181	3.50109056	6.28206965	119.851704	2.06E-11	2.83E-08	chr10	75313551	75314050	500	+	PAWFWF_bwa-m	3.66919721	Shared	Promoter	-453	ubiquitin specific	TRUE	TRUE	TRUE	TRUE
ENSG00000163	1.65429217	5.76187412	49.9056738	1.42E-07	1.54E-04	ENSG00000163	MSK1	MRT_191988	3.451718284	8.282832347	95.86158081	1.29E-10	1.55E-07	chr12	17819808	17824207	500	+	PAWFWF_bwa-m	8.27315447	Shared	Promoter	-448	structural metallo	FALSE	FALSE	FALSE	FALSE
ENSG00000163	5.79053470	2.91165947	3.71378005	3.62E-09	4.54E-06	ENSG00000175	SPS8A	MRT_281914	2.71346144	3.336161145	63.3789685	1.06E-08	3.50E-06	chr3	14078909	14077408	500	+	PALNPA_bwa-m	5.25432502	Shared	Promoter	-335	sp/Myosin re	FALSE	FALSE	FALSE	FALSE
ENSG00000163	1.65429217	5.76187412	49.9056738	1.42E-07	1.54E-04	ENSG00000163	MSK1	MRT_191988	3.451718284	8.282832347	95.86158081	1.29E-10	1.55E-07	chr12	17819808	17824207	500	+	PALNPA_bwa-m	5.25432502	Shared	Promoter	-335	sp/Myosin re	FALSE	FALSE	FALSE	FALSE
ENSG000001444	7.135122614	0.794506516	43.1174919	4.80E-07	3.55E-04	ENSG00000144	NYP2	MRT_100098	3.558767357	2.51664593	94.9829319	1.50E-10	1.72E-07	chr2	22620440	22620539	500	+	PAWFWF_bwa-m	7.28394478	Shared	Promoter	-263	neuronal tyrosine	FALSE	FALSE	FALSE	TRUE
ENSG00000169	1.45448063	5.71853287	43.3236808	4.80E-07	3.55E-04	ENSG00000169	MAPK1	MRT_100719	2.68257412	2.66450683	92.21462349	1.90E-10	1.21E-07	chr15	66939367	66943936	500	+	PAWFWF_bwa-m	4.91590678	Shared	Promoter		o neuronal activatio	FALSE	FALSE	FALSE	FALSE
ENSG00000138	6.371746879	5.247977238	45.8607175	2.98E-07	2.63E-04	ENSG00000138	CHRNA1	MRT_187243	3.138668428	3.51178364	75.29234197	1.74E-09	9.07E-07	chr2	175629008	175629507	500	+	PAWFWF_bwa-m	8.27403143	Shared	Promoter		o cholinergic recep	FALSE	TRUE	TRUE	FALSE
ENSG00000170	4.62725778	2.58690494	75.1634278	2.98E-09	8.40E-06	ENSG00000170	KCNK3	MRT_120020	1.88938478	3.11999198	44.5442204	2.81E-07	4.25E-05	chr2	18059610	18060190	500	+	PAWFWF_bwa-m	4.91739173	Shared	Promoter		o potassium voltag	FALSE	FALSE	FALSE	FALSE
ENSG00000177	8.646173218	1.2279353	57.2344067	4.11E-08	6.21E-05	ENSG00000177	TNNT2	MRT_120070	2.07969333	2.843072507	55.4269374	3.74E-08	8.93E-06	chr16	31225111	31225810	500	+	PATDVL_bwa-m	4.07200278	Shared	Promoter		o vippatein mol coo	FALSE	FALSE	FALSE	TRUE
ENSG00000138	6.371746879	5.247977238	45.8607175	2.98E-07	2.63E-04	ENSG00000138	CHRNA1	MRT_187242	3.035871363	2.51047453	64.4412378	8.58E-09	2.87E-06	chr2	175629008	175629507	500	+	PASVDV_bwa-m	4.19730511	Shared	Promoter		613 cholinergic resp	FALSE	FALSE	FALSE	FALSE
ENSG00000135	6.05476738	3.63208406	25.6015234	2.89E-05	0.00567564759	ENSG00000135	CHRNA2	MRT_213718	3.160314442	3.88366267	97.6250317	1.06E-10	1.36E-07	chr2	23330331	23330369	500	+	PASVDV_bwa-m	6.81919159	Shared	Promoter	-40	cholinergic recep	FALSE	FALSE	TRUE	TRUE
ENSG00000144	7.135122614	0.794506516	43.1174919	4.80E-07	0.00035464974	ENSG00000144	NYP2	MRT_100098	3.02642839	2.375899729	66.0702185	6.87E-09	2.47E-06	chr2	22625353	22625852	500	+	PAWFWF_bwa-m	3.83592665	Shared	Promoter		o neuronal tyrosine	FALSE	FALSE	TRUE	FALSE
ENSG00000143	3.05950732	3.541186072	29.446973	1.05E-05	0.00289542364	ENSG00000143	TUFT1	MRT_64416	2.285174513	3.95683819	86.6260791	3.91E-10	3.57E-07	chr1	15511927	15512426	500	+	PAWFWF_bwa-m	5.28212183	Shared	Promoter	-355	tuftelin 1	FALSE	FALSE	TRUE	TRUE
ENSG000000008	5.42054956	3.27887434	39.3198521	1.08E-06	0.00579188702	ENSG00000008	ADAM2	MRT_589530	1.86909979	3.76874967	69.1187712	4.22E-09	1.79E-06	chr7	87563238	87563737	500	+	PASVDV_bwa-m	14.94984184	Shared	Promoter		o ADAM metallopro	FALSE	FALSE	FALSE	FALSE
ENSG00000173	6.40573964	3.26273629	32.8861422	4.40E-06	0.015247813	ENSG00000173	TRAPP3C	MRT_500501	3.04978013	2.37673315	78.1743731	1.03E-09	7.06E-07	chr7	116866515	116866814	500	+	PASVDV_bwa-m	5.25432502	Shared	Promoter		959 trafficking pro	FALSE	FALSE	FALSE	FALSE
ENSG00000151	7.06014627	4.435374005	28.4114105	1.29E-05	0.00339387699	ENSG00000151	MSGN1	MRT_115980	3.04461013	2.97747478	86.2888414	3.87E-10	3.57E-07	chr2	17598323	17597322	500	+	PAWFWF_bwa-m	4.029404757	Shared	Promoter		454 mesoderm	FALSE	FALSE	FALSE	FALSE
ENSG00000170	4.62725778	2.58690494	75.1634278	2.98E-09	8.40E-06	ENSG00000170	KCNK3	MRT_120020	2.05298295	2.66343301	34.7038849	2.31E-06	2.16E-04	chr2	18002085	18006794	500	+	PASVDV_bwa-m	1.56639482	Shared	Promoter	-340	potassium voltag	FALSE	TRUE	TRUE	TRUE
ENSG00000138	6.371746879	5.247977238	45.8607175	2.98E-07	0.00026255007	ENSG00000138	CHRNA1	MRT_187244	2.63094091	5.47656002	55.666392	3.99E-06	8.65E-06	chr2	175629008	175630131	500	+	PASRHU_bwa-m	7.98989687	Shared	Promoter		432 cholinergic recep	FALSE	FALSE	FALSE	FALSE
ENSG000002039	6.68903861	1.47255952	65.3538703	8.21E-10	4.12E-06	ENSG00000203	KLHL41	MRT_184163	2.348534513	2.04019439	28.3401232	1.09E-05	7.08E-04	chr2	17035954	17036463	500	+	PASVDV_bwa-m	7.52036291	Shared	Promoter		o leich like family	FALSE	TRUE	TRUE	TRUE
ENSG00000118	2.38642334	6.028737495	20.3743496	1.14E-04	0.0151458962	ENSG00000118	SCK1	MRT_512760	1.92474384	2.68927398	31.1159858	2.26E-10	2.39E-07	chr2	13436805	13436884	500	+	PAWFWF_bwa-m	4.34862501	Shared	Promoter		612 serumglucocorti	FALSE	FALSE	FALSE	FALSE
ENSG00000111	1.25019651	5.76187412	49.9056738	1.42E-07	1.54E-04	ENSG00000111	ACV1	MRT_179868	3.569126429	3.569126429	3.569126429	1.73E-08	9.78E-08	chr24	10364334	10364354	500	+	PATDVL_bwa-m	1.91092603	Shared	Promoter		60 actin re	FALSE	FALSE	FALSE	FALSE
ENSG00000188	6.42214057	3.21036346	50.712791	1.23E-07	0.00013733530	ENSG00000188	COL25A1	MRT_249162	2.61194992	2.19871119	45.4900621	2.35E-07	3.70E-05	chr4	10223275	10223474	500	+	PATDVL_bwa-m	10.0926003	Shared	Promoter		o collagen type XX	FALSE	FALSE	FALSE	FALSE
ENSG00000135	3.806224925	4.753041991	74.7400865	3.26E-09	8.80E-06	ENSG00000135	DOXA2	MRT_209497	2.713441891	2.856705203	29.1007737	8.88E-06	0.0006933781	chr2	225069601	225067440	500	+	PATDVL_bwa-m	3.319113812	Shared	Promoter		o decellatn of cyto	FALSE	FALSE	FALSE	FALSE
ENSG00000164	2.86212438	4.46960522	24.6217279	2.11E-05	0.00475504625	ENSG00000164	CTHRC1	MRT_646372	1.21264009	3.12731497	71.4877019	3.00E-09	1.37E-06	chr8	104384305	104384804	500	+	PASVDV_bwa-m	7.540100576	Shared	Promoter		o cyclin like heli	FALSE	TRUE	TRUE	TRUE
ENSG00000166	2.36984569	1.55216796	31.06313976	5.86E-06	0.017395332	ENSG00000166	MS51	MRT_752009	3.175892302	2.911281	60.41199873	1.62E-08	4.74E-08	chr10	7519189	75193088	500	+	PAWFWF_bwa-m	4.50070739	Shared	Promoter		o MS5S1 inlithon	FALSE	TRUE	TRUE	TRUE
ENSG00000175	5.45349185	6.6223869	38.2526262	1.35E-06	0.0008727588	ENSG00000175	TRCL	MRT_545488	2.87476024	3.2638102	51.0094983	8.12E-08	1.65E-05	chr7	29989008	29989507	500	+	PAWFWF_bwa-m	6.08861211	Shared	Promoter		o T14 tricaric	TRUE	TRUE	FALSE	FALSE
ENSG00000175	6.40573964	3.26273629	32.8861422	4.40E-06	0.015247813	ENSG00000175	TRAPP3C	MRT_500501	3.04978013	2.37673315	78.1743731	1.03E-09	7.06E-07	chr7	116866515	116866814	500	+	PATDVL_bwa-m	4.07200278	Shared	Promoter		150 activatio	FALSE	FALSE	FALSE	FALSE
ENSG00000115	1.26309522	4.77707936	15.9635456	4.40E-04	0.0137982481	ENSG00000115	ACV1	MRT_179892	3.32679991	3.22383024	87.6511778	1.45E-10	3.24E-07	chr2	15895449	15895698	500	+	PASVDV_bwa-m	8.444720578	Shared	Promoter	-709	actin A receptor	FALSE	TRUE	FALSE	FALSE
ENSG00000151	7.06014627	4.435374005	28.4114105	1.29E-05	0.00339397999	ENSG00000151	MSGN1	MRT_115981	2.86991049	2.64267602	61.1473599	1.44E-08	4.32E-06	chr2	17998017	17998516	500	+	PATDVL_bwa-m	4.12420389	Shared	Promoter		231 mesogonin	FALSE	FALSE	TRUE	FALSE
ENSG00000133	3.47840053	3.13449348	30.9873258	6.88E-06	0.00210572074	ENSG00000133	TMT1	MRT_885327	2.74910663	2.401714867	56.7871459	2.97E-08	7.53E-08	chr12	29897378	29897237	500	+	PASVDV_bwa-m	6.94555471	Shared	Promoter		684 transmembrane	FALSE	FALSE	FALSE	FALSE
ENSG000000011	3.53382824	0.406884220	24.2115748	3.86E-05	0.00713231228	ENSG00000001	SLC26A4	MRT_579077	3.16516329	2.6240771	66.4284094	3.32E-07	2.38E-06	chr7	10734730	10733529	500	+	PARZBI_bwa-m	3.7801515	Shared	Promoter		953 solute carrier	FALSE	FALSE	TRUE	TRUE
ENSG00000114	6.03139165	3.2732452	47.3430313	2.62E-07	0.0002172458	ENSG00000114	TNMC2	MRT_119625	2.21381766	3.239816259	39.7875233	6.70E-07	8.86E-05	chr20	44454597	44454598	500	+	PAWFWF_bwa-m	5.23625695	Shared	Promoter		447 tropotin c2, last	FALSE	FALSE	FALSE	FALSE
ENSG00000144	7.06014627	4.435374005	28.4114105	1.29E-05	0.00339387699	ENSG00000144	MSGN1	MRT_115980	3.04461013	2.97747478	86.2888414	3.87E-10	3.57E-07	chr2	17598323	17597322	500	+	PATDVL_bwa-m	4.029404757	Shared	Prom						

	logFC.RNAseq	logCPM.RNAseq	F.RNAseq	PValue.RNAseq	FDR.RNAseq	ensembl_id	gene_symbol	peak_id	logFC.ATACseq	logCPM.ATACseq	F.ATACseq	PValue.ATACseq	FDR.ATACseq	seqnames	start	end	width	strand	peak_name	peak_score	specificity	annotation	distanceToTSS	gene_name	MYF6_motif	MYF6_motif	MYOD1_motif	MYOG_motif
ENSG0000002498	4.354139999	0.7331590488	14.68970482	0.000895719436	0.04701559037	ENSG0000002498 HS3ST5	MRT_504957	1.676442051	2.791233497	23.41385593	4.15E-05	1.97E-03	chr6	114663939	114664438	500	*	PASVDP_bwa-m	5.52780037	Shared	Promoter	-399	heparan sulfate-ε	FALSE	TRUE	FALSE	TRUE	
ENSG000001681	8.37559311	5.923572711	22.68798146	5.86E-05	0.00929495674	ENSG000001681 MYL1	MRT_202976	2.313897137	2.172618698	16.68169535	0.00326995505	0.09931443475	chr2	211168178	211168677	500	*	PASVDP_bwa-m	7.82550285	Shared	Promoter	0	myosin light chain	FALSE	FALSE	FALSE	FALSE	
ENSG000001988	5.488322709	1.345543804	26.95004241	1.87E-05	0.00436503927	ENSG000001988 RYR3	MRT_990557	1.330161871	2.489896757	15.67182484	9.75E-04	0.02356571953	chr15	33601831	33602330	500	*	PALEKIV_bwa-m	3.98714149	Shared	Promoter	-847	ryanodine receptor	FALSE	FALSE	FALSE	FALSE	
ENSG0000002331	4.742672271	-3.40340863	17.65106817	0.000263717384	0.02629030225	ENSG0000002331 MYCNOS	MRT_119154	1.427264272	2.780417227	20.04266644	1.12E-04	0.00249489571	chr2	16081647	16082146	500	*	PATDVL_bwa-m	1.921057088	Shared	Promoter	0	MYCN opposite 1	FALSE	FALSE	FALSE	FALSE	
ENSG000001665	4.337657733	2.620386041	16.65760098	0.000703095052	0.047195450261	ENSG000001665 PCZRN4	MRT_861225	2.252937745	2.083405845	22.54444346	5.32E-05	0.002365658285	chr1	41830158	41830657	500	*	PAWFWK_bwa-m	1.969081235	Shared	Promoter	-884	PCZ domain con	FALSE	FALSE	FALSE	FALSE	
ENSG000001661	2.340021211	2.911617532	14.69534956	0.000694380203	0.04701559037	ENSG000001661 GPR176	MRT_993644	1.310778434	3.290020348	22.45224568	5.47E-05	0.00244182249	chr15	40212237	40212736	500	*	PAWFWK_bwa-m	8.350722253	Shared	Promoter	357	G protein-coupled	FALSE	FALSE	FALSE	FALSE	
ENSG000001628	1.832193851	5.10838816	19.84275869	0.000134110686	0.01677375277	ENSG000001628 FAM102B	MRT_55298	1.04817782	3.214424385	23.36534996	2.18E-04	7.24E-03	chr1	109103479	109103978	500	*	PATXKA_bwa-m	5.462773253	Shared	Promoter	508	famly with seque	FALSE	FALSE	FALSE	FALSE	
ENSG000001989	2.66821793	3.859198927	19.10749554	0.00167482283	0.01966984923	ENSG000001989 SH3BGR2L	MRT_490901	1.131292252	3.267720351	18.8322752	0.002071336477	0.09678891612	chr6	80340968	80341197	500	*	PAJNFP_bwa-m	8.354169237	Shared	Promoter	0	SH3 domain bind	FALSE	FALSE	FALSE	FALSE	
ENSG0000002281	4.332786545	-5.64516864	19.60779547	0.000143919890	0.01748331718	ENSG0000002281 ARHGAP26-AS1	MRT_438360	1.613355169	2.382415508	17.56534457	2.45E-04	0.007935763448	chr5	142243004	14224903	500	*	PAWFWK_bwa-m	1.595206712	Shared	Promoter	-829	ARHGAP26 anti	TRUE	FALSE	FALSE	FALSE	
ENSG000000768	1.644660635	5.999769914	16.83770214	0.000193425592	0.02156281014	ENSG000000768 TPD52	MRT_862689	1.338900737	2.694018869	26.877004764	0.000195423702	0.006868002066	chr8	81084628	81085127	500	*	PASRHH_bwa-m	1.820655462	Shared	Promoter	-792	tumor protein D5	FALSE	FALSE	FALSE	FALSE	
ENSG0000001351	4.352426118	3.063440881	16.97506016	0.000133353748	0.01675160658	ENSG0000001351 MRAP2	MRT_492573	1.283090062	2.852464052	17.23508703	2.73E-04	0.00627217905	chr6	84743234	84743733	500	*	PASRHH_bwa-m	1.830619214	Shared	Promoter	-792	metanocortin 2 re	FALSE	FALSE	FALSE	FALSE	
ENSG000001402	1.142898113	7.24023608	24.58424415	3.34E-05	0.006667428023	ENSG000001402 TCF12	MRT_1002001	1.574229423	2.238598686	19.47517458	8.82E-04	0.02180793088	chr15	57543499	57543998	500	*	PASVDP_bwa-m	2.408585929	Shared	Promoter	-399	transcription fact	FALSE	FALSE	FALSE	FALSE	
ENSG0000002498	4.354139999	0.7331590488	14.68970482	0.000895719436	0.04701559037	ENSG0000002498 HS3ST5	MRT_504958	1.303877068	2.85290545	20.948526	8.52E-05	0.003474841776	chr6	114664531	114665030	500	*	PASVDP_bwa-m	5.164419969	Shared	Promoter	-991	heparan sulfate-ε	FALSE	FALSE	TRUE	FALSE	
ENSG0000000411	4.141322963	1.617940053	19.88455238	0.000128507125	0.01631423045	ENSG0000000411 RAB27B	MRT_1133430	1.338032327	2.847794697	17.38150904	3.41E-04	0.01027274504	chr18	52495833	52496132	500	*	PASNEO_bwa-m	8.315422235	Shared	Promoter	0	RAB27B, membe	FALSE	FALSE	FALSE	FALSE	
ENSG0000010051	4.915575786	3.413124976	19.68102574	0.000140782191	0.01740224309	ENSG0000010051 SHD	MRT_1147328	1.40524511	2.85421296	16.40275309	3.56E-04	1.07E-02	chr19	4277978	4278477	500	*	PASVDP_bwa-m	2.829068654	Shared	Promoter	-121	Src homology 2 c	FALSE	FALSE	FALSE	FALSE	
ENSG000001841	2.913125592	2.114111209	24.20423531	3.86E-05	0.00713212288	ENSG000001841 PRR16	MRT_426919	1.41865847	2.648770385	12.96254048	1.19E-03	2.74E-02	chr5	119800591	119801090	500	*	PAWFWK_bwa-m	4.69192862	Shared	Promoter	572	proline rich 16	FALSE	FALSE	FALSE	FALSE	
ENSG000001391	1.885835563	2.555944019	15.24508119	0.005576392109	0.04247461271	ENSG000001391 FGD4	MRT_859792	1.875394266	2.307601414	19.33806834	1.39E-04	5.08E-03	chr12	32655583	32656082	500	*	PAWFWK_bwa-m	1.493059561	Shared	Promoter	542	FYVE, RhoGEF i	FALSE	FALSE	FALSE	FALSE	
ENSG000001138	2.798633296	5.80718159	16.26448029	0.000411021351	0.03496182595	ENSG000001138 LOX	MRT_427280	1.658983005	3.032598935	18.3839666	1.88E-04	0.00648220613	chr5	121413845	121414344	500	*	PASVDP_bwa-m	7.185163826	Shared	Promoter	0	lysyl oxidase	FALSE	FALSE	FALSE	FALSE	
ENSG000001148	3.231210123	1.350487517	15.0193993	0.000625649763	0.04386117512	ENSG000001148 PLCH1	MRT_288367	1.751988705	2.330740953	19.11262307	1.50E-04	0.005358944543	chr3	155422432	155422801	500	*	PATDVL_bwa-m	3.838146562	Shared	Promoter	-435	phospholipase C	FALSE	FALSE	TRUE	FALSE	
ENSG0000000571	2.802521711	3.480081397	22.5209927	6.16E-05	0.009623711444	ENSG0000000571 TMCC3	MRT_865568	1.165431688	2.95459184	13.36544672	1.03E-03	2.48E-02	chr12	95044136	95044335	500	*	PAWFWK_bwa-m	7.174968311	Shared	Promoter	0	transmembrane 4	FALSE	TRUE	TRUE	FALSE	
ENSG00000002498	4.354139999	0.7331590488	14.68970482	0.000895719436	0.04701559037	ENSG0000002498 HS3ST5	MRT_504955	1.708747304	2.570175205	18.96126932	0.00056812092	0.005569617752	chr6	114662630	114663129	500	*	PASVDP_bwa-m	2.446647106	Shared	Promoter	411	heparan sulfate-ε	FALSE	FALSE	FALSE	FALSE	
ENSG000001682	1.130287698	5.415474676	19.07587776	0.0001691051	0.01969398926	ENSG000001682 WBPL1	MRT_767158	1.641173971	3.960535253	15.40219407	0.000503182785	0.01386043491	chr10	104535601	104536100	500	*	PASVDP_bwa-m	7.104928955	Shared	Promoter	0	WW domain bind	FALSE	TRUE	TRUE	TRUE	
ENSG0000011551	2.561593801	3.284445534	16.80730051	0.00034546941	0.03141506095	ENSG0000011551 PLCD4	MRT_206709	1.728612247	3.693288519	17.02768789	0.000291762759	0.00988890161	chr2	219472263	219472762	500	*	PAWFWK_bwa-m	9.605823895	Shared	Promoter	0	phospholipase C	FALSE	FALSE	FALSE	TRUE	
ENSG0000013331	4.36670179	2.132729701	21.99993987	7.14E-05	0.01085587707	ENSG0000013331 CHRM3	MRT_106164	1.62956809	2.142144568	15.88613754	0.00134037612	0.03012609491	chr1	239549107	239549606	500	*	PASILR_bwa-me	1.452128177	Shared	Promoter	-259	cholinergic recep	FALSE	FALSE	FALSE	FALSE	
ENSG000001989	1.885835563	2.555944019	15.24508119	0.005576392109	0.04247461271	ENSG000001989 FGD4	MRT_859813	1.488893483	2.51417596	17.40566712	2.58E-04	0.008244604599	chr12	32688136	32688335	500	*	PAWFWK_bwa-m	6.731109015	Shared	Promoter	878	FYVE, RhoGEF i	FALSE	TRUE	FALSE	TRUE	
ENSG000001989	2.668217953	3.859198927	19.10749554	0.000167482283	0.01966984923	ENSG000001989 SH3BGR2L	MRT_490900	1.510529197	2.309639025	20.90270032	7.76E-04	0.01965707681	chr6	80340076	80340575	500	*	PAJFVP_bwa-m	2.444694342	Shared	Promoter	-425	SH3 domain bind	FALSE	FALSE	FALSE	FALSE	
ENSG000001682	1.130287698	5.415474676	19.07587776	0.0001691051	0.01969398926	ENSG000001682 WBPL1	MRT_767160	1.6232734	3.549444204	14.10137798	0.000791563036	0.01997157474	chr10	104537076	104537205	500	*	PASVDP_bwa-m	9.541714006	Shared	Promoter	818	WW domain bind	TRUE	TRUE	FALSE	TRUE	
ENSG000001455	3.981363286	4.332822649	15.94380032	0.000456688402	0.03735674071	ENSG000001455 MEGF10	MRT_430145	1.147837043	3.175772554	16.07066654	4.01E-04	0.01166900718	chr5	126625597	126626096	500	*	PASVDP_bwa-m	8.66488691	Shared	Promoter	-380	multiple EGF like	FALSE	FALSE	FALSE	FALSE	
ENSG000001521	2.613646399	3.742113721	20.54755175	0.000108788938	0.01478523104	ENSG000001521 PTPRK	MRT_509976	1.178034298	3.459223681	11.76396791	1.86E-03	0.0390484341	chr6	128841554	128842053	500	*	PASDLA_bwa-m	12.59592633	Shared	Promoter	0	protein tyrosine p	FALSE	FALSE	FALSE	FALSE	
ENSG000001381	4.31637322	3.523007531	17.61357774	0.000266314321	0.0264904218	ENSG000001381 MSTN	MRT_193699	1.718707645	2.09395082	19.6605781	9.53E-04	0.02316163483	chr2	190927268	190927767	500	*	PAWFWK_bwa-m	2.374607366	Shared	Promoter	0	myostatin	FALSE	FALSE	FALSE	FALSE	
ENSG0000002498	4.354139999	0.7331590488	14.68970482	0.000895719436	0.04701559037	ENSG0000002498 HS3ST5	MRT_504956	1.287401684	2.678005993	14.10405028	7.91E-04	0.01995864113	chr6	114663421	114663920	500	*	PASWZT_bwa-m	2.110087725	Shared	Promoter	0	heparan sulfate-ε	FALSE	FALSE	FALSE	FALSE	

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
MYF5	ENSG000001111	ENSG000001111	10.30802792	1.17E-08	2.35E-05	TRUE	MA1641.2	MA1641.2_MYF5	1.018366615	7.37E-153	1.84E-150	TRUE	TRUE
MYOG	ENSG000001222	ENSG000001222	8.53562136	2.08E-06	0.000868827473	TRUE	MA0500.3	MA0500.3_MYOG	0.7220968571	2.18E-106	1.48E-104	TRUE	TRUE
MYF6	ENSG000001111	ENSG000001111	8.221697538	3.30E-06	0.00120211594	TRUE	MA0667.1	MA0667.1_MYF6	1.455817977	1.82E-127	1.95E-125	TRUE	TRUE
POU3F4	ENSG000001966	ENSG000001966	7.535153118	7.03E-06	0.002137204732	TRUE	MA0789.1	MA0789.1_POU3F4	0.4856840468	1.82E-07	4.37E-07	TRUE	TRUE
VAX1	ENSG000001488	ENSG000001488	7.083050405	1.32E-06	0.000657227585	TRUE	MA0722.2	MA0722.2_VAX1	0.7548708337	1.27E-31	1.12E-30	TRUE	TRUE
MSGN1	ENSG000001511	ENSG000001511	7.066014967	1.29E-05	0.003305397999	TRUE	MA1524.1	MA1524.1_MSGN1	0.8919940011	7.23E-30	5.96E-29	TRUE	TRUE
PROP1	ENSG000001755	ENSG000001755	6.474279694	1.85E-06	0.000806620322	TRUE	MA0715.1	MA0715.1_PRO1	0.6868123527	4.40E-08	1.14E-07	TRUE	TRUE
PAX7	ENSG000000009	ENSG000000009	6.408229598	7.26E-07	0.000451493787	TRUE	MA0680.1	MA0680.1_PAX7	0.7202123841	6.65E-05	1.34E-04	TRUE	TRUE
PITX3	ENSG000001077	ENSG000001077	6.117508703	3.65E-11	3.86E-07	TRUE	MA0714.2	MA0714.2_PITX3	0.5322681884	7.83E-55	9.18E-54	TRUE	TRUE
SRY	ENSG000001844	ENSG000001844	6.096618085	0.000463907069	0.03764236342	TRUE	MA0084.2	MA0084.2_SRY	0.6008932531	5.70E-34	5.41E-33	TRUE	TRUE
FOX11	ENSG000001688	ENSG000001688	4.999437098	0.000139737451	0.0173237559	TRUE	MA0042.2	MA0042.2_FOX11	0.3277655776	1.06E-07	2.61E-07	TRUE	TRUE
FOXD3	ENSG000001877	ENSG000001877	4.705681998	0.000110942737	0.01496016561	TRUE	MA0041.3	MA0041.3_FOXD3	0.3027787276	1.35E-07	3.27E-07	TRUE	TRUE
MYCN	ENSG000001344	ENSG000001344	4.612752231	0.000151080327	0.01824834525	TRUE	MA0104.5	MA0104.5_MYCN	-1.060973707	1	1	FALSE	FALSE
MYO1	ENSG000001299	ENSG000001299	4.54845701	0.000239638883	0.02483022994	TRUE	MA0499.3	MA0499.3_MYO1	0.9975405401	1.43E-198	1.07E-195	TRUE	TRUE
NR3C2	ENSG000001511	ENSG000001511	4.522585603	2.02E-06	0.000856887544	TRUE	MA0727.2	MA0727.2_NR3C2	0.153319535	0.06312177665	0.1035915372	FALSE	FALSE
EVX2	ENSG000001744	ENSG000001744	3.83541603	0.002260359524	0.09268351008	FALSE	MA0888.2	MA0888.2_EVX2	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
DRGX	ENSG000001654	ENSG000001654	3.548709438	0.007185677391	0.1542676146	FALSE	MA1481.2	MA1481.2_DRGX	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
DMRTC2	ENSG000001421	ENSG000001421	3.519160263	0.006488047369	0.1505606445	FALSE	MA1479.2	MA1479.2_DMRTC2	0.6963835526	1.97E-12	7.09E-12	TRUE	FALSE
POU4F3	ENSG000000091	ENSG000000091	3.452078661	0.000244204977	0.02505768303	TRUE	MA0791.2	MA0791.2_POU4F3	0.5455308711	1.02E-08	2.80E-08	TRUE	TRUE
POU3F2	ENSG000001844	ENSG000001844	3.252394065	0.008562897686	0.1646935849	FALSE	MA0787.1	MA0787.1_POU3F2	0.3876183508	3.40E-05	6.97E-05	TRUE	FALSE
OTX1	ENSG000001155	ENSG000001155	3.207283116	0.006370956182	0.1493800181	FALSE	MA0711.2	MA0711.2_OTX1	0.5322681884	7.83E-55	9.18E-54	TRUE	FALSE
EVX1	ENSG000001066	ENSG000001066	3.19267942	0.008134383493	0.1616366997	FALSE	MA0887.2	MA0887.2_EVX1	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
INSM1	ENSG000001734	ENSG000001734	3.175815357	0.006642345968	0.1521321531	FALSE	MA0155.1	MA0155.1_INSM1	-0.4191997376	1	1	FALSE	FALSE
NEUROG1	ENSG000001811	ENSG000001811	3.167837866	0.01529491556	0.2053686241	FALSE	MA0623.2	MA0623.2_NEUROG1	0.9518896163	4.43E-18	2.28E-17	TRUE	FALSE
TBX15	ENSG000000092	ENSG000000092	3.15015878	0.000725158283	0.04816558586	TRUE	MA0803.1	MA0803.1_TBX15	-0.1099904529	0.9116723011	1	FALSE	FALSE
HOXA13	ENSG000001066	ENSG000001066	3.038699827	0.01275223826	0.1919191429	FALSE	MA0650.2	MA0650.2_HOXA13	0.5867570228	9.96E-15	4.22E-14	TRUE	FALSE
GSX1	ENSG000001691	ENSG000001691	3.032728798	0.01245290707	0.1897105032	FALSE	MA0892.2	MA0892.2_GSX1	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
POU6F2	ENSG000001066	ENSG000001066	2.903014719	0.06372820146	0.320384181	FALSE	MA0793.2	MA0793.2_POU6F2	0.7664457397	1.52E-13	6.07E-13	TRUE	FALSE
OTX2	ENSG000001655	ENSG000001655	2.806228186	0.03480468859	0.2667879918	FALSE	MA0712.3	MA0712.3_OTX2	0.2736952465	7.34E-07	1.69E-06	TRUE	FALSE
POU4F1	ENSG000001522	ENSG000001522	2.777167232	0.004621007589	0.1289459378	FALSE	MA0790.2	MA0790.2_POU4F1	0.5030669852	1.46E-07	3.54E-07	TRUE	FALSE
EN2	ENSG000001644	ENSG000001644	2.516184613	0.02545417483	0.240031431	FALSE	MA0642.3	MA0642.3_EN2	0.7676605611	1.39E-24	9.63E-24	TRUE	FALSE
FOXD1	ENSG000000251	ENSG000000251	2.438703083	0.000232548668	0.02427406161	TRUE	MA0031.2	MA0031.2_FOXD1	0.3277655776	1.06E-07	2.61E-07	TRUE	TRUE
ARGFX	ENSG000001867	ENSG000001867	2.409499342	0.01950395139	0.2135988303	FALSE	MA1463.2	MA1463.2_ARGFX	0.774914881	3.41E-09	9.77E-09	TRUE	FALSE
TBX3	ENSG000001357	ENSG000001357	2.404314462	0.000299358189	0.02869697837	TRUE	MA1566.3	MA1566.3_TBX3	-0.2752573411	0.9994293088	1	FALSE	FALSE
SIX1	ENSG000001267	ENSG000001267	2.391764407	0.01993752038	0.2165233071	FALSE	MA1118.2	MA1118.2_SIX1	0.7192537145	1.17E-19	6.29E-19	TRUE	FALSE
SOX14	ENSG000001688	ENSG000001688	2.261328504	0.1163843216	0.4028528214	FALSE	MA1562.2	MA1562.2_SOX14	0.7102840745	1.41E-14	5.92E-14	TRUE	FALSE
ZIM3	ENSG000001411	ENSG000001411	2.194309595	0.02332172711	0.2328042535	FALSE	MA1709.2	MA1709.2_ZIM3	0.5359623447	2.20E-25	1.59E-24	TRUE	FALSE
MIXL1	ENSG000001857	ENSG000001857	2.081501571	0.00312745213	0.1089967344	FALSE	MA0662.2	MA0662.2_MIXL1	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
HEY1	ENSG000001644	ENSG000001644	2.062810055	0.04264632421	0.2822603172	FALSE	MA0823.1	MA0823.1_HEY1	-1.009281485	1	1	FALSE	FALSE
LHX6	ENSG000001066	ENSG000001066	2.046770447	0.007222875611	0.1542676146	FALSE	MA0658.2	MA0658.2_LHX6	1.096513179	7.48E-08	1.92E-07	TRUE	FALSE
HLF	ENSG000001088	ENSG000001088	2.011385039	0.04930814267	0.293570046	FALSE	MA0043.4	MA0043.4_HLF	0.6097636887	1.50E-08	4.05E-08	TRUE	FALSE
DPRX	ENSG000000204	ENSG000000204	1.967287619	0.1016660931	0.3766750925	FALSE	MA1480.2	MA1480.2_DPRX	0.6482800486	3.68E-09	1.05E-08	TRUE	FALSE
FOXA1	ENSG000001299	ENSG000001299	1.957430316	0.03368520842	0.2644460884	FALSE	MA0148.5	MA0148.5_FOXA1	0.2518290068	0.02869589106	0.04891345067	TRUE	FALSE
HNF4G	ENSG000001644	ENSG000001644	1.895291779	0.155566398	0.4589813904	FALSE	MA0484.3	MA0484.3_HNF4G	0.2939015946	6.56E-06	1.41E-05	TRUE	FALSE
ESR2	ENSG000001401	ENSG000001401	1.894737672	0.001124353898	0.06221160797	FALSE	MA0258.2	MA0258.2_ESR2	-0.211371561	0.9995503714	1	FALSE	FALSE
KLF12	ENSG000001188	ENSG000001188	1.877301459	0.01451722738	0.2024896055	FALSE	MA0742.2	MA0742.2_KLF12	-1.022415133	1	1	FALSE	FALSE
SOX9	ENSG000001255	ENSG000001255	1.781454184	0.1089784884	0.3903390617	FALSE	MA0077.2	MA0077.2_SOX9	0.5204550369	2.22E-09	6.42E-09	TRUE	FALSE
PAX2	ENSG000000075	ENSG000000075	1.765045841	0.08192147635	0.3522587104	FALSE	MA0067.3	MA0067.3_PAX2	0.08876998172	0.2061273452	0.3180977549	FALSE	FALSE

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
PAX6	ENSG000000007	ENSG000000007	1.75486083	0.2590960517	0.5872336646	FALSE	MA0069.1	MA0069.1_PAX6	0.6837045252	6.93E-12	2.36E-11	TRUE	FALSE
ARNT2	ENSG00000172	ENSG00000172	1.636188058	0.03284122751	0.262004863	FALSE	MA1464.2	MA1464.2_ARNT	-0.8818254475	1	1	FALSE	FALSE
TFAP2B	ENSG000000008	ENSG000000008	1.605603238	0.3142584493	0.6162573496	FALSE	MA0813.1	MA0813.1_TFAP	-0.9003093951	1	1	FALSE	FALSE
TFAP2B	ENSG000000008	ENSG000000008	1.605603238	0.3142584493	0.6162573496	FALSE	MA0811.2	MA0811.2_TFAP	-0.7971305842	1	1	FALSE	FALSE
TFAP2B	ENSG000000008	ENSG000000008	1.605603238	0.3142584493	0.6162573496	FALSE	MA0812.2	MA0812.2_TFAP	-1.099844795	1	1	FALSE	FALSE
CUX2	ENSG00000111	ENSG00000111	1.596919553	0.136165305	0.4387895116	FALSE	MA0755.2	MA0755.2_CUX2	0.1950091303	0.213260033	0.3270859401	FALSE	FALSE
ZBTB7C	ENSG00000184	ENSG00000184	1.574122157	0.1442145868	0.4394631052	FALSE	MA0695.2	MA0695.2_ZBTE	-0.5415488894	1	1	FALSE	FALSE
KLF1	ENSG00000105	ENSG00000105	1.57347512	0.04321392884	0.2838272027	FALSE	MA0493.3	MA0493.3_KLF1	-0.8232483695	1	1	FALSE	FALSE
SOX8	ENSG00000005	ENSG00000005	1.518169923	0.1130264588	0.3958407379	FALSE	MA0868.3	MA0868.3_SOX8	0.5796088613	2.54E-22	1.48E-21	TRUE	FALSE
FOXO6	ENSG00000204	ENSG00000204	1.514306644	0.06043703264	0.3124970101	FALSE	MA0849.1	MA0849.1_FOXO	0.3277655776	1.06E-07	2.61E-07	TRUE	FALSE
LHX9	ENSG00000143	ENSG00000143	1.496269031	0.3789089071	0.6772810471	FALSE	MA0701.3	MA0701.3_LHX9	0.8274010235	1.19E-26	8.72E-26	TRUE	FALSE
NKX2-3	ENSG00000119	ENSG00000119	1.477766095	0.2416987842	0.5691225091	FALSE	MA0672.2	MA0672.2_NKX2	0.4755536477	3.07E-07	7.24E-07	TRUE	FALSE
JUN	ENSG00000177	ENSG00000177	1.467819704	0.005482983948	0.1396344256	FALSE	MA0488.2	MA0488.2_JUN	0.5161584597	2.88E-11	9.32E-11	TRUE	FALSE
PAX9	ENSG00000198	ENSG00000198	1.432931774	0.2359329561	0.5619528232	FALSE	MA0781.2	MA0781.2_PAX9	0.04613586825	0.3027497317	0.4523153362	FALSE	FALSE
ZFP42	ENSG00000179	ENSG00000179	1.418230885	0.3373305956	0.6383982116	FALSE	MA1651.2	MA1651.2_ZFP4	0.08179589215	0.0932573096	0.1507391858	FALSE	FALSE
DMRTA2	ENSG00000142	ENSG00000142	1.378513134	0.1426638222	0.4387895116	FALSE	MA1478.2	MA1478.2_DMR	0.440765669	5.86E-31	4.99E-30	TRUE	FALSE
TBX4	ENSG00000121	ENSG00000121	1.361612785	0.04535076741	0.2859737013	FALSE	MA0806.1	MA0806.1_TBX4	-0.2137844785	0.9953668368	1	FALSE	FALSE
MYB	ENSG00000118	ENSG00000118	1.355415316	0.02338634336	0.2331284935	FALSE	MA0100.4	MA0100.4_MYB	0.4495588585	3.76E-48	4.21E-47	TRUE	FALSE
VSX1	ENSG00000100	ENSG00000100	1.35138816	0.4045564078	0.7006973999	FALSE	MA0725.2	MA0725.2_VSX1	0.8274010235	1.19E-26	8.72E-26	TRUE	FALSE
GCM2	ENSG00000124	ENSG00000124	1.278249	0.3461812426	0.6464266398	FALSE	MA0767.2	MA0767.2_GCM	-0.6081545798	0.9999999986	1	FALSE	FALSE
BHLHE23	ENSG00000125	ENSG00000125	1.260935103	0.3261151554	0.6275515683	FALSE	MA0817.2	MA0817.2_BHLH	0.9685456812	4.11E-20	2.25E-19	TRUE	FALSE
TBX18	ENSG00000112	ENSG00000112	1.199988148	0.3815412249	0.6797606721	FALSE	MA1565.2	MA1565.2_TBX1	-0.312684363	0.9999894444	1	FALSE	FALSE
NEUROD1	ENSG00000162	ENSG00000162	1.194076743	0.48477404	0.7232842508	FALSE	MA1109.2	MA1109.2_NEUR	0.4197010703	5.07E-18	2.57E-17	TRUE	FALSE
SOX13	ENSG00000143	ENSG00000143	1.146390412	0.02014118684	0.2175999677	FALSE	MA1120.2	MA1120.2_SOX1	0.3500647008	1.25E-07	3.05E-07	TRUE	FALSE
TCF12	ENSG00000140	ENSG00000140	1.142898113	3.49E-05	0.006667428023	TRUE	MA1648.2	MA1648.2_TCF1	0.02727467849	0.2606265607	0.3917232876	FALSE	FALSE
LHX2	ENSG00000106	ENSG00000106	1.115916371	0.2969380205	0.6030651389	FALSE	MA0700.3	MA0700.3_LHX2	0.7332112009	1.26E-92	4.96E-91	TRUE	FALSE
BARX2	ENSG00000043	ENSG00000043	1.104820754	0.5120660306	0.7435216777	FALSE	MA1471.2	MA1471.2_BARX	0.6475640412	7.91E-12	2.68E-11	TRUE	FALSE
ZIC4	ENSG00000174	ENSG00000174	1.10306018	0.41572535	0.7041181559	FALSE	MA0751.2	MA0751.2_ZIC4	-0.7389507785	1	1	FALSE	FALSE
SMAD3	ENSG00000166	ENSG00000166	1.100914065	0.000468248380	0.03766742475	TRUE	MA0795.1	MA0795.1_SMAI	0.1289573077	0.1525996428	0.2404406137	FALSE	FALSE
SIX2	ENSG00000170	ENSG00000170	1.095740672	0.2019113584	0.5200549921	FALSE	MA1119.2	MA1119.2_SIX2	0.7829008135	8.55E-34	8.02E-33	TRUE	FALSE
EBF3	ENSG00000108	ENSG00000108	1.083981147	0.5062260728	0.739229956	FALSE	MA1637.2	MA1637.2_EBF3	-0.2403710055	0.9999999987	1	FALSE	FALSE
LHX1	ENSG00000132	ENSG00000132	1.083316573	0.314489055	0.616383944	FALSE	MA1518.1	MA1518.1_LHX1	0.6657083642	5.32E-07	1.24E-06	TRUE	FALSE
KLF5	ENSG00000102	ENSG00000102	1.052694734	0.3840592025	0.6821605304	FALSE	MA0599.1	MA0599.1_KLF5	-0.6981462265	1	1	FALSE	FALSE
MYBL1	ENSG00000185	ENSG00000185	1.033336078	0.09228945782	0.3629250059	FALSE	MA0776.1	MA0776.1_MYBL	0.3837405511	0.01415049055	0.02456682388	TRUE	FALSE
ZIC5	ENSG00000139	ENSG00000139	1.029733664	0.3747191061	0.6729615312	FALSE	MA1584.2	MA1584.2_ZIC5	-0.9130241224	1	1	FALSE	FALSE
ZSCAN16	ENSG00000196	ENSG00000196	1.028166254	0.1877544585	0.5095211025	FALSE	MA2100.1	MA2100.1_ZSCA	0.2839585359	3.01E-05	6.19E-05	TRUE	FALSE
FOXO4	ENSG00000184	ENSG00000184	1.015957892	0.02189441779	0.2261941623	FALSE	MA0848.1	MA0848.1_FOXO	0.3277655776	1.06E-07	2.61E-07	TRUE	FALSE
ZIC1	ENSG00000152	ENSG00000152	1.012634263	0.4711565183	0.7123679004	FALSE	MA0696.1	MA0696.1_ZIC1	-0.7633544989	1	1	FALSE	FALSE
ZNF708	ENSG00000182	ENSG00000182	0.9995182224	0.002172734613	0.09137365854	FALSE	MA1730.2	MA1730.2_ZNF7	-0.129363358	0.9950829949	1	FALSE	FALSE
SOHLH2	ENSG00000120	ENSG00000120	0.9931161017	0.1843396216	0.50429697	FALSE	MA1560.2	MA1560.2_SOHL	-1.059002763	1	1	FALSE	FALSE
FOXN3	ENSG00000053	ENSG00000053	0.9886639402	0.01169047677	0.1876050197	FALSE	MA1489.1	MA1489.1_FOXN	0.5175081339	4.22E-06	9.20E-06	TRUE	FALSE
SPDEF	ENSG00000124	ENSG00000124	0.9736849739	0.3432363391	0.6438390658	FALSE	MA0686.2	MA0686.2_SPDE	-0.3561205984	0.9996220572	1	FALSE	FALSE
PITX1	ENSG00000069	ENSG00000069	0.9693987627	0.4179219026	0.7058031846	FALSE	MA0682.3	MA0682.3_PITX	0.5322681884	7.83E-55	9.18E-54	TRUE	FALSE
NFIA	ENSG00000162	ENSG00000162	0.9543661991	0.01405318854	0.1996969902	FALSE	MA0670.2	MA0670.2_NFIA	0.6424081259	5.71E-137	7.14E-135	TRUE	FALSE
DUXA	ENSG00000258	ENSG00000258	0.9135346696	0.5179017087	0.7478965792	FALSE	MA0884.2	MA0884.2_DUXA	0.7550047155	5.68E-07	1.32E-06	TRUE	FALSE
ZNF549	ENSG00000121	ENSG00000121	0.9023781929	0.003097637874	0.1084045043	FALSE	MA1728.2	MA1728.2_ZNF5	-0.2540101769	1	1	FALSE	FALSE
NHLH1	ENSG00000171	ENSG00000171	0.8965981284	0.1116186228	0.3952285531	FALSE	MA0048.3	MA0048.3_NHLH	0.4740950513	2.02E-49	2.29E-48	TRUE	FALSE
ZBED1	ENSG00000214	ENSG00000214	0.8944482364	0.01502865334	0.2053686241	FALSE	MA0749.2	MA0749.2_ZBED	-0.1952166595	0.6883359506	0.9806573119	FALSE	FALSE

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
VSX2	ENSG000001196	ENSG000001196	0.8838005497	0.5422034693	0.765151773	FALSE	MA0726.2	MA0726.2_VSX2	0.8274010235	1.19E-26	8.72E-26	TRUE	FALSE
NFIB	ENSG000001476	ENSG000001476	0.8825240252	0.07240518592	0.3317066915	FALSE	MA1643.2	MA1643.2_NFIB	0.4221620088	2.05E-27	1.67E-26	TRUE	FALSE
RAX	ENSG000001346	ENSG000001346	0.8502275042	0.5613806379	0.7769834972	FALSE	MA0718.2	MA0718.2_RAX	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
SHOX	ENSG000001856	ENSG000001856	0.8420864687	0.4244498138	0.7082381622	FALSE	MA0630.2	MA0630.2_SHOX	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
KLF7	ENSG000001186	ENSG000001186	0.8387643183	0.1483897985	0.447285471	FALSE	MA1959.2	MA1959.2_KLF7	-1.085925253	1	1	FALSE	FALSE
NR112	ENSG000001446	ENSG000001446	0.7957267858	0.5730305121	0.7858454438	FALSE	MA1533.2	MA1533.2_NR112	-0.02484060441	0.5851982804	0.8472948075	FALSE	FALSE
OSR2	ENSG000001646	ENSG000001646	0.7944860594	0.3693014989	0.6683599839	FALSE	MA1646.2	MA1646.2_OSR2	0.1568166782	0.000314039746	0.000602378029	TRUE	FALSE
HOXC11	ENSG000001236	ENSG000001236	0.7806950418	0.2449807089	0.5732307228	FALSE	MA0651.3	MA0651.3_HOXC11	0.8091788656	1.11E-09	3.27E-09	TRUE	FALSE
ZNF528	ENSG000001676	ENSG000001676	0.7749289557	0.09371164091	0.366656571	FALSE	MA1597.1	MA1597.1_ZNF528	0.184020317	1.16E-04	2.28E-04	TRUE	FALSE
ZNF320	ENSG000001826	ENSG000001826	0.7717547802	0.001849796682	0.08375268474	FALSE	MA1976.2	MA1976.2_ZNF320	-0.6343901293	1	1	FALSE	FALSE
ZIC3	ENSG000001566	ENSG000001566	0.7712959727	0.6199556098	0.8168173403	FALSE	MA0697.1	MA0697.1_ZIC3	-0.7724736844	1	1	FALSE	FALSE
ZSCAN4	ENSG000001806	ENSG000001806	0.7491596105	0.6329230099	0.8250594205	FALSE	MA1155.1	MA1155.1_ZSCAN4	-0.1881571404	0.999395969	1	FALSE	FALSE
STAT1	ENSG000001156	ENSG000001156	0.7479979006	0.05384921559	0.3005269204	FALSE	MA0137.4	MA0137.4_STAT1	0.4013307995	3.87E-12	1.35E-11	TRUE	FALSE
ZBTB18	ENSG000001796	ENSG000001796	0.7416565878	0.3266344108	0.6280288223	FALSE	MA0698.2	MA0698.2_ZBTB18	0.6348402246	4.15E-39	4.38E-38	TRUE	FALSE
PHOX2A	ENSG000001656	ENSG000001656	0.7409442238	0.1633529242	0.8125566379	FALSE	MA0713.1	MA0713.1_PHOX2A	0.6574302061	1.80E-08	4.81E-08	TRUE	FALSE
HES6	ENSG000001446	ENSG000001446	0.7403442181	0.4098150108	0.7040213005	FALSE	MA1493.1	MA1493.1_HES6	-0.1677672565	0.9722336868	1	FALSE	FALSE
OLIG1	ENSG000001846	ENSG000001846	0.7401955977	0.6245939051	0.8194816315	FALSE	MA0826.1	MA0826.1_OLIG1	1.019116483	5.59E-21	3.15E-20	TRUE	FALSE
POU5F1B	ENSG000002126	ENSG000002126	0.7340716547	0.4827005969	0.7218311897	FALSE	MA0792.1	MA0792.1_POU5F1B	0.4081729388	0.000235928858	0.000456048050	TRUE	FALSE
RFX7	ENSG000001816	ENSG000001816	0.7307463658	0.002423432357	0.09656041743	FALSE	MA1554.2	MA1554.2_RFX7	0.3528254089	0.000946022571	0.001756230022	TRUE	FALSE
BATF3	ENSG000001236	ENSG000001236	0.7280483901	0.2205235028	0.5412446014	FALSE	MA0835.3	MA0835.3_BATF3	0.332863393	1.57E-11	5.17E-11	TRUE	FALSE
NFIX	ENSG000000008	ENSG000000008	0.7272063056	0.03375987335	0.2646881761	FALSE	MA0671.2	MA0671.2_NFIX	0.6424081259	5.71E-137	7.14E-135	TRUE	FALSE
NFIX	ENSG000000008	ENSG000000008	0.7272063056	0.03375987335	0.2646881761	FALSE	MA1528.2	MA1528.2_NFIX	0.3693049098	1.08E-16	5.19E-16	TRUE	FALSE
NR2C2	ENSG000001776	ENSG000001776	0.7132617654	0.04005997965	0.2772728806	FALSE	MA1536.2	MA1536.2_NR2C2	-0.07609539893	0.9923350079	1	FALSE	FALSE
NR2C2	ENSG000001776	ENSG000001776	0.7132617654	0.04005997965	0.2772728806	FALSE	MA0504.2	MA0504.2_NR2C2	-0.3991593795	1	1	FALSE	FALSE
THRA	ENSG000001266	ENSG000001266	0.7129970033	0.02778222601	0.2493616995	FALSE	MA1969.2	MA1969.2_THRA	0.03596362976	0.2443052	0.3724164635	FALSE	FALSE
ZNF460	ENSG000001976	ENSG000001976	0.7036246564	0.1275576429	0.4242054243	FALSE	MA1596.1	MA1596.1_ZNF460	-0.7417100651	1	1	FALSE	FALSE
ZBTB33	ENSG000001776	ENSG000001776	0.6936902912	0.005815363401	0.1429328417	FALSE	MA0527.2	MA0527.2_ZBTB33	-1.659391738	1	1	FALSE	FALSE
ZNF135	ENSG000001766	ENSG000001766	0.6901789523	0.1444606413	0.4399320076	FALSE	MA1587.1	MA1587.1_ZNF135	-0.4748227472	1	1	FALSE	FALSE
SNAI1	ENSG000001246	ENSG000001246	0.6851159028	0.239696985	0.5664797653	FALSE	MA1558.2	MA1558.2_SNAI1	0.02727467849	0.2606265607	0.3917232876	FALSE	FALSE
RBPJ	ENSG000001686	ENSG000001686	0.6808285415	0.08581897764	0.3543964201	FALSE	MA1116.2	MA1116.2_RBPJ	0.09149230502	7.15E-06	1.53E-05	TRUE	FALSE
BACH1	ENSG000001566	ENSG000001566	0.6795648368	0.05462538822	0.3022970287	FALSE	MA1633.2	MA1633.2_BACH1	0.6084122179	1.27E-16	6.01E-16	TRUE	FALSE
ZNF675	ENSG000001976	ENSG000001976	0.6756951052	0.02346474124	0.2331308898	FALSE	MA1714.2	MA1714.2_ZNF675	0.3839724625	1.32E-11	4.41E-11	TRUE	FALSE
NHLH2	ENSG000001776	ENSG000001776	0.6693191638	0.6295727629	0.8226917131	FALSE	MA1529.2	MA1529.2_NHLH2	0.311487272	1.07E-14	4.51E-14	TRUE	FALSE
FOXP1	ENSG000001146	ENSG000001146	0.6631511584	0.2874385919	0.6030651389	FALSE	MA0481.4	MA0481.4_FOXP1	0.3277655776	1.06E-07	2.61E-07	TRUE	FALSE
IRF9	ENSG000002136	ENSG000002136	0.647262565	0.08594172918	0.3543964201	FALSE	MA0653.1	MA0653.1_IRF9	0.2757419249	4.69E-05	9.55E-05	TRUE	FALSE
NR6A1	ENSG000001486	ENSG000001486	0.6436454716	0.2680001679	0.598723421	FALSE	MA1541.2	MA1541.2_NR6A1	0.1771968417	0.009942571685	0.01750452761	TRUE	FALSE
RFX4	ENSG000001116	ENSG000001116	0.6333036254	0.6692791577	0.8480487763	FALSE	MA0799.3	MA0799.3_RFX4	0.1423513169	0.07295477065	0.1186899739	FALSE	FALSE
MEOX2	ENSG000001066	ENSG000001066	0.6252906646	0.6047956527	0.8070623807	FALSE	MA0706.2	MA0706.2_MEOX2	0.7858185843	5.44E-24	3.49E-23	TRUE	FALSE
TCF7L1	ENSG000001526	ENSG000001526	0.6174191553	0.2511243118	0.5781972812	FALSE	MA1421.1	MA1421.1_TCF7L1	0.2008165598	0.00420774133	0.007495976241	TRUE	FALSE
ZNF682	ENSG000001976	ENSG000001976	0.6156720684	0.1825237476	0.501591439	FALSE	MA1599.2	MA1599.2_ZNF682	-0.5214061576	1	1	FALSE	FALSE
ZNF8	ENSG000000086	ENSG000000086	0.6129971172	0.1464847933	0.4437891098	FALSE	MA1718.1	MA1718.1_ZNF8	0.421368802	1.94E-05	4.02E-05	TRUE	FALSE
ZNF184	ENSG000000096	ENSG000000096	0.6117199984	0.03335183418	0.2632957591	FALSE	MA2120.1	MA2120.1_ZNF184	0.3791003826	8.30E-09	2.31E-08	TRUE	FALSE
ESR1	ENSG000000091	ENSG000000091	0.6099912191	0.4171665143	0.7050901324	FALSE	MA0112.4	MA0112.4_ESR1	-0.3856385158	0.9999991808	1	FALSE	FALSE
TFAP2C	ENSG000000087	ENSG000000087	0.6053800555	0.6482956072	0.8348573411	FALSE	MA0815.1	MA0815.1_TFAP2C	-0.9249964086	1	1	FALSE	FALSE
TFAP2C	ENSG000000087	ENSG000000087	0.6053800555	0.6482956072	0.8348573411	FALSE	MA0524.3	MA0524.3_TFAP2C	-0.7855772892	1	1	FALSE	FALSE
TFAP2C	ENSG000000087	ENSG000000087	0.6053800555	0.6482956072	0.8348573411	FALSE	MA0814.3	MA0814.3_TFAP2C	-0.6772788592	1	1	FALSE	FALSE
SOX15	ENSG000001296	ENSG000001296	0.6007967243	0.5213033949	0.7492781278	FALSE	MA1152.2	MA1152.2_SOX15	0.5425475449	2.18E-13	8.66E-13	TRUE	FALSE
ATF7	ENSG000001706	ENSG000001706	0.5974319931	0.01553416634	0.2053686241	FALSE	MA0834.2	MA0834.2_ATF7	0.2872393543	0.008003259087	0.01415670829	TRUE	FALSE

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
FOXP4	ENSG00000137	ENSG00000137	0.5960967687	0.1463271449	0.443598426	FALSE	MA2117.1	MA2117.1_FOXP	0.3277655776	1.06E-07	2.61E-07	TRUE	FALSE
VEZF1	ENSG00000136	ENSG00000136	0.5875605631	0.007749219486	0.1573123495	FALSE	MA1578.2	MA1578.2_VEZF	-0.8037604302	1	1	FALSE	FALSE
TEAD1	ENSG00000187	ENSG00000187	0.5747092201	0.1442916963	0.4396345879	FALSE	MA0090.4	MA0090.4_TEAD	0.6655479156	1.56E-33	1.45E-32	TRUE	FALSE
ETV1	ENSG00000006	ENSG00000006	0.5740222496	0.5261326185	0.7530048225	FALSE	MA0761.3	MA0761.3_ETV1	0.3195129234	1.15E-12	4.27E-12	TRUE	FALSE
ZBTB12	ENSG00000204	ENSG00000204	0.5674295486	0.2855691032	0.6030651389	FALSE	MA1649.2	MA1649.2_ZBTE	0.03509532134	0.2601172087	0.3917232876	FALSE	FALSE
ZNF281	ENSG00000162	ENSG00000162	0.5567194839	0.2258636215	0.5485370597	FALSE	MA1630.3	MA1630.3_ZNF2	-0.6224686584	1	1	FALSE	FALSE
ZNF416	ENSG00000083	ENSG00000083	0.5510081794	0.05345740494	0.2997178475	FALSE	MA1979.2	MA1979.2_ZNF4	0.07312516363	0.05520740566	0.09140298951	FALSE	FALSE
SNAI3	ENSG00000185	ENSG00000185	0.5478408306	0.4136938836	0.7040213005	FALSE	MA1559.2	MA1559.2_SNAI	0.5050078328	3.01E-38	3.14E-37	TRUE	FALSE
ELF1	ENSG00000120	ENSG00000120	0.529170316	0.02796350401	0.250086129	FALSE	MA0473.4	MA0473.4_ELF1	0.07135034761	0.03828836681	0.06467629529	FALSE	FALSE
PKNOX2	ENSG00000165	ENSG00000165	0.5190210757	0.5283088459	0.7546587533	FALSE	MA0783.1	MA0783.1_PKN	0.8118306391	1.57E-44	1.74E-43	TRUE	FALSE
FOXC1	ENSG00000054	ENSG00000054	0.5161552858	0.5551183811	0.7728258434	FALSE	MA0032.2	MA0032.2_FOXC	0.4456444978	2.44E-09	7.00E-09	TRUE	FALSE
RAX2	ENSG00000173	ENSG00000173	0.5076744451	0.7254697203	0.8774671672	FALSE	MA0717.2	MA0717.2_RAX2	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
ETV6	ENSG00000139	ENSG00000139	0.5009789598	0.1592838578	0.4648436483	FALSE	MA0645.2	MA0645.2_ETV6	-0.2806803222	0.9999723183	1	FALSE	FALSE
ZNF701	ENSG00000167	ENSG00000167	0.4824041862	0.0469749943	0.2883794213	FALSE	MA1987.2	MA1987.2_ZNF7	-0.1894915112	0.9999999992	1	FALSE	FALSE
EBF1	ENSG00000164	ENSG00000164	0.4805934686	0.5728095446	0.7857122359	FALSE	MA0154.5	MA0154.5_EBF1	-0.259305858	1	1	FALSE	FALSE
ZNF610	ENSG00000167	ENSG00000167	0.4796896429	0.1518607127	0.4528271052	FALSE	MA1713.2	MA1713.2_ZNF6	-1.542370713	1	1	FALSE	FALSE
TCF7	ENSG00000081	ENSG00000081	0.479320787	0.3882605757	0.6857409035	FALSE	MA0769.3	MA0769.3_TCF7	0.426451491	5.28E-11	1.66E-10	TRUE	FALSE
ZNF136	ENSG00000196	ENSG00000196	0.4692803888	0.0650771798	0.3230551639	FALSE	MA1588.1	MA1588.1_ZNF1	0.3400037602	6.52E-05	1.32E-04	TRUE	FALSE
IKZF2	ENSG00000030	ENSG00000030	0.4648030047	0.6062824493	0.8079752393	FALSE	MA2326.1	MA2326.1_IKZF2	0.03566435161	0.02360560191	0.04042055122	TRUE	FALSE
ELK3	ENSG00000111	ENSG00000111	0.4642556557	0.2586883337	0.5868238521	FALSE	MA0759.3	MA0759.3_ELK3	-1.387838295	1	1	FALSE	FALSE
HOXB7	ENSG00000260	ENSG00000260	0.4567499502	0.5142352249	0.744978828	FALSE	MA1501.2	MA1501.2_HOXI	0.7858185843	5.44E-24	3.49E-23	TRUE	FALSE
ZNF418	ENSG00000196	ENSG00000196	0.4538503798	0.4127822167	0.7040213005	FALSE	MA1980.1	MA1980.1_ZNF4	0.3412645249	3.03E-10	9.28E-10	TRUE	FALSE
POU5F1	ENSG00000204	ENSG00000204	0.4483379644	0.6639590189	0.8446082967	FALSE	MA1115.2	MA1115.2_POU5	0.4681675852	1.52E-19	8.14E-19	TRUE	FALSE
SP2	ENSG00000167	ENSG00000167	0.4452340052	0.2249119006	0.5470742576	FALSE	MA0516.3	MA0516.3_SP2	-0.8675207691	1	1	FALSE	FALSE
NRL	ENSG00000129	ENSG00000129	0.4444500385	0.2031321675	0.5200549921	FALSE	MA0842.3	MA0842.3_NRL	0.4565124731	1.33E-09	3.88E-09	TRUE	FALSE
PLAGL2	ENSG00000126	ENSG00000126	0.4400013673	0.1253036942	0.4201137023	FALSE	MA1548.2	MA1548.2_PLAC	-0.9465731638	1	1	FALSE	FALSE
REST	ENSG00000084	ENSG00000084	0.4244384015	0.03198205648	0.2603584513	FALSE	MA0138.3	MA0138.3_REST	-0.2449051051	0.9999992568	1	FALSE	FALSE
ZNF354C	ENSG00000177	ENSG00000177	0.4244189374	0.08875243415	0.3547530423	FALSE	MA0130.1	MA0130.1_ZNF3	0.1305923768	1.49E-04	2.93E-04	TRUE	FALSE
HOXB13	ENSG00000159	ENSG00000159	0.4192268537	0.7242078403	0.8766412914	FALSE	MA0901.3	MA0901.3_HOXI	0.6685695378	5.78E-16	2.68E-15	TRUE	FALSE
ZNF669	ENSG00000188	ENSG00000188	0.4166586452	0.2085158047	0.5241411371	FALSE	MA1985.1	MA1985.1_ZNF6	-0.504796186	0.9999999998	1	FALSE	FALSE
ELF4	ENSG00000102	ENSG00000102	0.4123978779	0.3716966863	0.6703987974	FALSE	MA0641.1	MA0641.1_ELF4	-0.4929945479	0.9999999988	1	FALSE	FALSE
ETV5	ENSG00000244	ENSG00000244	0.4077405855	0.1980202578	0.5200549921	FALSE	MA0765.4	MA0765.4_ETV5	-1.411281461	1	1	FALSE	FALSE
IRF7	ENSG00000185	ENSG00000185	0.396889006	0.4828944691	0.7219490345	FALSE	MA0772.2	MA0772.2_IRF7	0.3795096163	1.14E-08	3.11E-08	TRUE	FALSE
RARA	ENSG00000131	ENSG00000131	0.3910114642	0.1737231979	0.4876524959	FALSE	MA0729.1	MA0729.1_RARA	0.06421853757	0.1904808496	0.2945580149	FALSE	FALSE
RARA	ENSG00000131	ENSG00000131	0.3910114642	0.1737231979	0.4876524959	FALSE	MA0730.1	MA0730.1_RARA	-0.160620625	0.9863884325	1	FALSE	FALSE
ZNF384	ENSG00000126	ENSG00000126	0.3859524702	0.02084496814	0.2213029135	FALSE	MA1125.2	MA1125.2_ZNF3	0.2086631026	1.62E-07	3.88E-07	TRUE	FALSE
KLF3	ENSG00000109	ENSG00000109	0.3809590679	0.4288078196	0.7082381622	FALSE	MA1516.2	MA1516.2_KLF3	-1.292877167	1	1	FALSE	FALSE
ATOH7	ENSG00000179	ENSG00000179	0.3750656856	0.554295326	0.7723178036	FALSE	MA1468.1	MA1468.1_ATOH	0.9870309635	3.42E-31	2.98E-30	TRUE	FALSE
POU6F1	ENSG00000184	ENSG00000184	0.3688996098	0.375947304	0.6742966599	FALSE	MA0628.2	MA0628.2_POU6	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
POU6F1	ENSG00000184	ENSG00000184	0.3688996098	0.375947304	0.6742966599	FALSE	MA1549.2	MA1549.2_POU6	0.8229267107	1.07E-43	1.16E-42	TRUE	FALSE
ZNF530	ENSG00000183	ENSG00000183	0.3638585172	0.2279303771	0.5512176399	FALSE	MA1981.2	MA1981.2_ZNF5	-0.4304244037	1	1	FALSE	FALSE
MSC	ENSG00000178	ENSG00000178	0.363239845	0.8133312387	0.9230683836	FALSE	MA0665.1	MA0665.1_MSC	1.238970476	3.49E-167	1.31E-164	TRUE	FALSE
ZNF677	ENSG00000197	ENSG00000197	0.3613938351	0.260649257	0.5895953416	FALSE	MA2101.1	MA2101.1_ZNF6	0.617048995	8.20E-24	5.17E-23	TRUE	FALSE
ETV4	ENSG00000175	ENSG00000175	0.3607895811	0.6160907745	0.8143717557	FALSE	MA0764.4	MA0764.4_ETV4	-0.8864102606	1	1	FALSE	FALSE
ZKSCAN3	ENSG00000189	ENSG00000189	0.3589914554	0.4170338458	0.7049778091	FALSE	MA1973.2	MA1973.2_ZKSC	-0.3944650346	1	1	FALSE	FALSE
ZBTB24	ENSG00000112	ENSG00000112	0.3548785411	0.06826671576	0.3295997497	FALSE	MA2330.1	MA2330.1_ZBTE	-0.6730358993	1	1	FALSE	FALSE
RHOXF1	ENSG00000101	ENSG00000101	0.3539321067	0.7513871276	0.8927904951	FALSE	MA0719.2	MA0719.2_RHOX	0.5322681884	7.83E-55	9.18E-54	TRUE	FALSE
FOXP2	ENSG00000128	ENSG00000128	0.3521133605	0.8257712285	0.9286658691	FALSE	MA0593.2	MA0593.2_FOXP	0.3564022771	2.95E-06	6.59E-06	TRUE	FALSE

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
TCF4	ENSG000001966	ENSG000001966	0.3476373269	0.5637746323	0.7792868281	FALSE	MA0830.3	MA0830.3_TCF4	0.1159510675	3.74E-04	0.000714602551	TRUE	FALSE
E2F8	ENSG00000129	ENSG00000129	0.3475156851	0.4766800702	0.7170640133	FALSE	MA0865.3	MA0865.3_E2F8	-1.270794819	1	1	FALSE	FALSE
HIF1A	ENSG000001006	ENSG000001006	0.3441251374	0.210635571	0.5266823661	FALSE	MA1106.2	MA1106.2_HIF1A	-0.7546814272	1	1	FALSE	FALSE
NR1D2	ENSG00000174	ENSG00000174	0.3406742425	0.5205718207	0.7491038778	FALSE	MA1532.2	MA1532.2_NR1D	-0.02504880053	0.6031493424	0.8682572107	FALSE	FALSE
MEIS3	ENSG00000105	ENSG00000105	0.3364221818	0.4462165955	0.7082381622	FALSE	MA0775.2	MA0775.2_MEIS	0.4585473081	2.58E-12	9.22E-12	TRUE	FALSE
TBX19	ENSG00000143	ENSG00000143	0.3360932062	0.42470159	0.7082381622	FALSE	MA0804.2	MA0804.2_TBX1	0.2608932159	0.0159872393	0.02762771768	TRUE	FALSE
MEOX1	ENSG000000005	ENSG000000005	0.3326625539	0.7079283475	0.8676196119	FALSE	MA0661.2	MA0661.2_MEO	0.8274010235	1.19E-26	8.72E-26	TRUE	FALSE
ZNF766	ENSG00000196	ENSG00000196	0.3223015499	0.1949636889	0.5200549921	FALSE	MA2098.1	MA2098.1_ZNF7	0.4009790365	1.73E-08	4.64E-08	TRUE	FALSE
ATF3	ENSG00000162	ENSG00000162	0.3212211627	0.506853611	0.7397885791	FALSE	MA0605.3	MA0605.3_ATF3	0.1778132815	0.05800338156	0.0956099696	FALSE	FALSE
RXRB	ENSG00000204	ENSG00000204	0.3193518809	0.06506271405	0.3230212844	FALSE	MA0855.1	MA0855.1_RXRB	-0.06217932187	0.7771259394	1	FALSE	FALSE
RXRB	ENSG00000204	ENSG00000204	0.3193518809	0.06506271405	0.3230212844	FALSE	MA1555.1	MA1555.1_RXRB	-0.2894812455	0.9970185819	1	FALSE	FALSE
ZNF274	ENSG00000171	ENSG00000171	0.3136695004	0.1706203607	0.482678657	FALSE	MA1592.2	MA1592.2_ZNF2	0.1259245684	0.03746387209	0.06342642002	FALSE	FALSE
ZFP14	ENSG00000142	ENSG00000142	0.312966395	0.2428727921	0.570557943	FALSE	MA1972.1	MA1972.1_ZFP1	-0.2409099497	1	1	FALSE	FALSE
ZNF816	ENSG00000180	ENSG00000180	0.3115123189	0.249830106	0.5768233166	FALSE	MA1719.2	MA1719.2_ZNF8	-0.4404627593	1	1	FALSE	FALSE
HOXB1	ENSG00000120	ENSG00000120	0.3057138846	0.8071459045	0.9200330446	FALSE	MA2093.1	MA2093.1_HOX	0.7858185843	5.44E-24	3.49E-23	TRUE	FALSE
ZNF558	ENSG00000167	ENSG00000167	0.3056150956	0.2157761616	0.5342959646	FALSE	MA2335.1	MA2335.1_ZNF5	0.2999521871	9.87E-06	2.09E-05	TRUE	FALSE
PDX1	ENSG00000139	ENSG00000139	0.3019630565	0.8323378958	0.9323798867	FALSE	MA0132.3	MA0132.3_PDX1	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
BARHL1	ENSG00000125	ENSG00000125	0.2959170704	0.8210124671	0.9264688372	FALSE	MA0877.4	MA0877.4_BAR	-0.01771328094	0.5732397472	0.8315857068	FALSE	FALSE
CREB3L1	ENSG00000157	ENSG00000157	0.2885080015	0.5726926988	0.7856802718	FALSE	MA0839.2	MA0839.2_CRE	-0.3031462188	0.9980549662	1	FALSE	FALSE
MEF2A	ENSG00000068	ENSG00000068	0.2882533341	0.194650665	0.5196953937	FALSE	MA0052.5	MA0052.5_MEF2	0.3155986734	5.98E-07	1.38E-06	TRUE	FALSE
ZBTB6	ENSG00000186	ENSG00000186	0.2878726257	0.1646446628	0.4733646029	FALSE	MA1581.2	MA1581.2_ZBT	-0.1731189287	0.9998697514	1	FALSE	FALSE
ZSCAN29	ENSG00000140	ENSG00000140	0.2803925996	0.1981543665	0.5200549921	FALSE	MA1602.2	MA1602.2_ZSC	-0.1670654001	0.920060722	1	FALSE	FALSE
RREB1	ENSG00000124	ENSG00000124	0.2798327634	0.1807848415	0.4986031693	FALSE	MA0073.2	MA0073.2_RRE	-0.4416864754	1	1	FALSE	FALSE
JDP2	ENSG00000140	ENSG00000140	0.2783913781	0.5562412782	0.7735088883	FALSE	MA0655.1	MA0655.1_JDP2	0.584283947	6.27E-10	1.88E-09	TRUE	FALSE
JDP2	ENSG00000140	ENSG00000140	0.2783913781	0.5562412782	0.7735088883	FALSE	MA0656.2	MA0656.2_JDP2	0.140630956	0.113034449	0.1807587138	FALSE	FALSE
SOX4	ENSG00000124	ENSG00000124	0.2723108605	0.7370156382	0.8842723458	FALSE	MA0867.3	MA0867.3_SOX4	0.4613163761	8.52E-17	4.12E-16	TRUE	FALSE
SP4	ENSG00000105	ENSG00000105	0.2688778724	0.3182847687	0.6198921163	FALSE	MA0685.2	MA0685.2_SP4	-0.8008381742	1	1	FALSE	FALSE
SP1	ENSG00000185	ENSG00000185	0.2684139089	0.1505771691	0.4511125946	FALSE	MA0079.5	MA0079.5_SP1	-0.830178616	1	1	FALSE	FALSE
TBX21	ENSG00000073	ENSG00000073	0.2662568951	0.7561084906	0.8949295182	FALSE	MA0690.3	MA0690.3_TBX2	-0.165573912	0.9556754429	1	FALSE	FALSE
MYBL2	ENSG00000101	ENSG00000101	0.2642028509	0.2658717131	0.5958459972	FALSE	MA0777.1	MA0777.1_MYB	0.3618915257	0.01754514571	0.03011180613	TRUE	FALSE
ZNF189	ENSG00000136	ENSG00000136	0.2636403968	0.2119203493	0.5288314011	FALSE	MA1725.2	MA1725.2_ZNF1	0.1892665166	7.33E-06	1.57E-05	TRUE	FALSE
HINFP	ENSG00000172	ENSG00000172	0.2634264886	0.206044358	0.5207152818	FALSE	MA0131.3	MA0131.3_HINF	-1.76258334	1	1	FALSE	FALSE
NFATC4	ENSG00000100	ENSG00000100	0.2626583044	0.3333497072	0.6349053376	FALSE	MA1525.3	MA1525.3_NFAT	0.5719427397	1.86E-17	9.25E-17	TRUE	FALSE
ZNF382	ENSG00000161	ENSG00000161	0.2602175415	0.3201971844	0.6218742118	FALSE	MA1594.1	MA1594.1_ZNF3	0.4375872997	1.90E-07	4.53E-07	TRUE	FALSE
CREB1	ENSG00000118	ENSG00000118	0.256286848	0.1919422565	0.5157941237	FALSE	MA0018.5	MA0018.5_CRE	0.0941370684	0.1616354483	0.2536121051	FALSE	FALSE
GLIS2	ENSG00000126	ENSG00000126	0.2556125482	0.4057017603	0.7016788426	FALSE	MA0736.1	MA0736.1_GLIS	-0.9128530621	1	1	FALSE	FALSE
TLX2	ENSG00000115	ENSG00000115	0.2490444099	0.850649801	0.9417064344	FALSE	MA1577.2	MA1577.2_TLX2	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
HOXA3	ENSG00000105	ENSG00000105	0.2461820374	0.6751835428	0.8516853934	FALSE	MA2119.1	MA2119.1_HOX	0.7858185843	5.44E-24	3.49E-23	TRUE	FALSE
CREB3L4	ENSG00000143	ENSG00000143	0.2447315538	0.4010915493	0.6972010308	FALSE	MA1475.2	MA1475.2_CRE	-0.5915428143	0.9999706844	1	FALSE	FALSE
CREB3L4	ENSG00000143	ENSG00000143	0.2447315538	0.4010915493	0.6972010308	FALSE	MA1474.2	MA1474.2_CRE	-0.3615098218	0.999794065	1	FALSE	FALSE
ZNF547	ENSG00000152	ENSG00000152	0.2396281724	0.4369690277	0.7082381622	FALSE	MA2334.1	MA2334.1_ZNF5	0.5312182672	1.17E-12	4.32E-12	TRUE	FALSE
E2F3	ENSG00000112	ENSG00000112	0.228678384	0.4729678137	0.7140035876	FALSE	MA0469.4	MA0469.4_E2F3	0.1827689127	0.1623486359	0.2536697436	FALSE	FALSE
POU2F3	ENSG00000137	ENSG00000137	0.2252235333	0.7808469348	0.9074748232	FALSE	MA0627.3	MA0627.3_POU	0.4185179501	1.74E-06	3.93E-06	TRUE	FALSE
ZNF175	ENSG00000105	ENSG00000105	0.2205206446	0.3332205586	0.6348023575	FALSE	MA2332.1	MA2332.1_ZNF1	0.351898303	2.94E-15	1.30E-14	TRUE	FALSE
E2F2	ENSG00000007	ENSG00000007	0.2159697222	0.5365718244	0.7609277739	FALSE	MA0864.3	MA0864.3_E2F2	-0.8068650711	0.9999896912	1	FALSE	FALSE
TGIF1	ENSG00000177	ENSG00000177	0.2143449985	0.5642154817	0.7795253683	FALSE	MA0796.1	MA0796.1_TGIF	0.7747445511	3.42E-33	3.13E-32	TRUE	FALSE
ATF6	ENSG00000118	ENSG00000118	0.2141152283	0.4662120447	0.7092792449	FALSE	MA1466.2	MA1466.2_ATF6	-0.1981367411	0.9492738683	1	FALSE	FALSE
PRDM4	ENSG00000110	ENSG00000110	0.2102089811	0.3571805067	0.6574043928	FALSE	MA1647.1	MA1647.1_PRDM	0.5642743954	3.76E-31	3.24E-30	TRUE	FALSE

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
ZNF740	ENSG000001396	ENSG000001396	0.2100562158	0.7301721862	0.8802586241	FALSE	MA0753.3	MA0753.3_ZNF7	-0.7266793525	1	1	FALSE	FALSE
ZNF417	ENSG000001734	ENSG000001734	0.2097495042	0.5614313609	0.7769834972	FALSE	MA1727.2	MA1727.2_ZNF4	-1.824052353	1	1	FALSE	FALSE
ZKSCAN5	ENSG000001966	ENSG000001966	0.2053457142	0.292678144	0.6030651389	FALSE	MA1652.2	MA1652.2_ZKSC	-0.1142526756	0.9935595157	1	FALSE	FALSE
ZNF449	ENSG000001733	ENSG000001733	0.2050199855	0.3640042503	0.6635739405	FALSE	MA1656.2	MA1656.2_ZNF4	-0.2022135931	0.9999936243	1	FALSE	FALSE
ZNF211	ENSG000001214	ENSG000001214	0.2046929493	0.4879901391	0.7253536489	FALSE	MA1974.2	MA1974.2_ZNF2	0.359464483	0.002357120216	0.00427014532	TRUE	FALSE
HOXA7	ENSG000001221	ENSG000001221	0.2032391692	0.689421099	0.8595565557	FALSE	MA1498.3	MA1498.3_HOXA	0.7332112009	1.26E-92	4.96E-91	TRUE	FALSE
MTF1	ENSG000001881	ENSG000001881	0.2019053089	0.5786916385	0.7896975599	FALSE	MA0863.1	MA0863.1_MTF1	-0.2658192825	0.999125247	1	FALSE	FALSE
ZNF157	ENSG000001477	ENSG000001477	0.2012413382	0.8333842796	0.93278582	FALSE	MA2331.1	MA2331.1_ZNF1	0.5509870782	1.17E-09	3.42E-09	TRUE	FALSE
SPIB	ENSG000001421	ENSG000001421	0.1979443679	0.8522192145	0.9417064344	FALSE	MA0081.3	MA0081.3_SPIB	0.1162340217	0.002439187885	0.004408170876	TRUE	FALSE
HOXA10	ENSG000002533	ENSG000002533	0.1975302739	0.8413197687	0.9369344923	FALSE	MA0899.2	MA0899.2_HOXA	0.6995355375	4.65E-18	2.37E-17	TRUE	FALSE
OLIG2	ENSG000002055	ENSG000002055	0.1958224766	0.9047354448	0.9640259481	FALSE	MA0678.1	MA0678.1_OLIG	0.8062220091	5.62E-14	2.28E-13	TRUE	FALSE
ZNF707	ENSG000001811	ENSG000001811	0.1951297297	0.5660001812	0.7806230477	FALSE	MA1715.1	MA1715.1_ZNF7	-0.2667897906	0.9999999433	1	FALSE	FALSE
HOXA4	ENSG000001971	ENSG000001971	0.1879870462	0.7214250373	0.875243627	FALSE	MA1496.2	MA1496.2_HOXA	0.7020987696	3.54E-25	2.53E-24	TRUE	FALSE
TBR1	ENSG000001361	ENSG000001361	0.1864177462	0.9185664279	0.9689688526	FALSE	MA0802.2	MA0802.2_TBR1	0.04313922868	0.3105712811	0.4620996502	FALSE	FALSE
ZNF148	ENSG000001631	ENSG000001631	0.1835895719	0.2175154086	0.5637271314	FALSE	MA1653.2	MA1653.2_ZNF1	-0.7168033009	1	1	FALSE	FALSE
SP5	ENSG000002043	ENSG000002043	0.1816208406	0.9016751118	0.9627295891	FALSE	MA1965.2	MA1965.2_SP5	-0.4809004159	1	1	FALSE	FALSE
FOS	ENSG000001701	ENSG000001701	0.1796278015	0.7692955883	0.9016599018	FALSE	MA0476.2	MA0476.2_FOS	0.5353319046	6.53E-13	2.44E-12	TRUE	FALSE
FOS	ENSG000001701	ENSG000001701	0.1796278015	0.7692955883	0.9016599018	FALSE	MA1951.2	MA1951.2_FOS	0.08279031955	0.2237376504	0.3424555874	FALSE	FALSE
ZNF75A	ENSG000001621	ENSG000001621	0.1792780027	0.4801245216	0.7196080321	FALSE	MA2097.1	MA2097.1_ZNF7	0.1089873316	0.0243514371	0.04160268297	TRUE	FALSE
SP3	ENSG000001721	ENSG000001721	0.171461699	0.4185557703	0.7063650774	FALSE	MA0746.3	MA0746.3_SP3	-1.138396948	1	1	FALSE	FALSE
NR5A1	ENSG000001361	ENSG000001361	0.1648397647	0.9119564065	0.9670635901	FALSE	MA1540.1	MA1540.1_NR5A	0.0602397643	0.1608258591	0.2528708477	FALSE	FALSE
HESX1	ENSG000001631	ENSG000001631	0.1621016521	0.6760463067	0.8521958459	FALSE	MA0894.2	MA0894.2_HESX	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
NFYA	ENSG000000001	ENSG000000001	0.1606779114	0.4708361201	0.7122627714	FALSE	MA0060.4	MA0060.4_NFYA	-0.04273779306	0.6899339901	0.9806573119	FALSE	FALSE
KLF4	ENSG000001361	ENSG000001361	0.1559384045	0.8163707342	0.9242075241	FALSE	MA0039.5	MA0039.5_KLF4	-0.7552176537	1	1	FALSE	FALSE
CUX1	ENSG000002571	ENSG000002571	0.1544579439	0.4711159184	0.7123679004	FALSE	MA0754.3	MA0754.3_CUX1	0.09092349765	0.3269933507	0.4837179744	FALSE	FALSE
MGA	ENSG000001741	ENSG000001741	0.1476886821	0.5713239328	0.7846122619	FALSE	MA0801.1	MA0801.1_MGA	-0.3151305403	0.9988015275	1	FALSE	FALSE
PRDM1	ENSG000000057	ENSG000000057	0.1461997056	0.788167573	0.9105258826	FALSE	MA0508.4	MA0508.4_PRDM	0.2530010941	2.75E-11	8.94E-11	TRUE	FALSE
HOXA2	ENSG000001051	ENSG000001051	0.1461868013	0.8659392364	0.9480636371	FALSE	MA0900.3	MA0900.3_HOXA	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
ZBTB14	ENSG000001981	ENSG000001981	0.139140473	0.4650984983	0.7085930163	FALSE	MA1650.2	MA1650.2_ZBTB	-1.710328115	1	1	FALSE	FALSE
SOX12	ENSG000001771	ENSG000001771	0.1385557139	0.4457131868	0.7082381622	FALSE	MA1561.2	MA1561.2_SOX1	0.7017147671	5.52E-10	1.66E-09	TRUE	FALSE
ZNF341	ENSG000001311	ENSG000001311	0.1367548871	0.5202230819	0.7488984563	FALSE	MA1655.2	MA1655.2_ZNF3	0.4309693308	1.20E-15	5.49E-15	TRUE	FALSE
ZNF680	ENSG000001731	ENSG000001731	0.1353406609	0.6891695575	0.8594722663	FALSE	MA1729.2	MA1729.2_ZNF6	0.4616181256	2.85E-15	1.27E-14	TRUE	FALSE
HIC2	ENSG000001691	ENSG000001691	0.1299887206	0.7034052349	0.864909581	FALSE	MA0738.2	MA0738.2_HIC2	-0.04060157212	0.8646940192	1	FALSE	FALSE
ZNF317	ENSG000001301	ENSG000001301	0.1281663616	0.4779334528	0.718029664	FALSE	MA1593.2	MA1593.2_ZNF3	0.3407243871	4.13E-12	1.44E-11	TRUE	FALSE
OVOL2	ENSG000001251	ENSG000001251	0.1280682155	0.8311260907	0.9316148875	FALSE	MA1545.2	MA1545.2_OVOL	-0.1481311755	0.7275539177	1	FALSE	FALSE
ZNF85	ENSG000001051	ENSG000001051	0.1243586294	0.6016937533	0.8051341569	FALSE	MA1720.2	MA1720.2_ZNF8	0.4532797805	4.42E-09	1.25E-08	TRUE	FALSE
TFCP2	ENSG000001351	ENSG000001351	0.123413924	0.5116868355	0.7433258823	FALSE	MA1968.2	MA1968.2_TFCP	0.4311824158	1.24E-05	2.61E-05	TRUE	FALSE
KLF14	ENSG000001741	ENSG000001741	0.1226961411	0.8617813027	0.9461086185	FALSE	MA0740.2	MA0740.2_KLF1	-0.8700795846	1	1	FALSE	FALSE
ZNF684	ENSG000001171	ENSG000001171	0.1204610216	0.7015104508	0.8637605379	FALSE	MA1600.2	MA1600.2_ZNF6	-0.07827523401	0.9384498532	1	FALSE	FALSE
STAT3	ENSG000001681	ENSG000001681	0.1162835	0.6249400633	0.819625678	FALSE	MA0144.3	MA0144.3_STAT	0.3482302077	1.29E-11	4.33E-11	TRUE	FALSE
ZNF140	ENSG000001961	ENSG000001961	0.1115220842	0.6611269183	0.8426791832	FALSE	MA1589.2	MA1589.2_ZNF1	0.2932226748	7.02E-06	1.51E-05	TRUE	FALSE
ZNF213	ENSG000000851	ENSG000000851	0.1115024867	0.5963155418	0.8010444169	FALSE	MA2121.1	MA2121.1_ZNF2	-0.583103643	1	1	FALSE	FALSE
PPARD	ENSG000001121	ENSG000001121	0.1110978198	0.54464561	0.7666298651	FALSE	MA1550.2	MA1550.2_PPARD	-0.1156681208	0.9276510327	1	FALSE	FALSE
EOMES	ENSG000001631	ENSG000001631	0.1109104095	0.9045856475	0.9639625482	FALSE	MA0800.2	MA0800.2_EOMES	-0.1774574682	0.9866008687	1	FALSE	FALSE
ZBTB26	ENSG000001711	ENSG000001711	0.1093352474	0.6979087801	0.862073371	FALSE	MA1579.2	MA1579.2_ZBTB	0.2513040902	8.66E-06	1.84E-05	TRUE	FALSE
ZSCAN21	ENSG000001661	ENSG000001661	0.1078019107	0.6250878427	0.8197273873	FALSE	MA2336.1	MA2336.1_ZSCAN	0.3423892099	8.40E-10	2.48E-09	TRUE	FALSE
RELA	ENSG000001731	ENSG000001731	0.1067892215	0.5041290635	0.7374887247	FALSE	MA0107.1	MA0107.1_RELAT	0.05688305455	0.1622423031	0.2536697436	FALSE	FALSE
FOXE1	ENSG000001781	ENSG000001781	0.1061562018	0.932718793	0.9747524714	FALSE	MA1487.3	MA1487.3_FOXA	0.4737939921	3.04E-12	1.08E-11	TRUE	FALSE

TF	Ensembl_ID	Label.Gex	Log2FC.Gex	pVal.Gex	FDR.Gex	Sig.Gex	Motif_ID	Label.Motif	Log2FC.Motif	pVal.Motif	FDR.Motif	Sig.Motif	Sig.Both
TP73	ENSG000000078	ENSG000000078	0.1060793233	0.8654561663	0.9479322755	FALSE	MA0861.2	MA0861.2_TP73	0.03350338182	0.34995068	0.5166594685	FALSE	FALSE
MAZ	ENSG00000103	ENSG00000103	0.1051842909	0.5828707647	0.7920805116	FALSE	MA1522.2	MA1522.2_MAZ	-0.911789783	1	1	FALSE	FALSE
KLF17	ENSG00000171	ENSG00000171	0.1035107577	0.9299527221	0.9738674977	FALSE	MA1514.2	MA1514.2_KLF1	-0.6707779822	1	1	FALSE	FALSE
SREBF2	ENSG00000198	ENSG00000198	0.1031315678	0.7603988979	0.8973042622	FALSE	MA0596.1	MA0596.1_SREBF2	-0.09732832855	0.9014763694	1	FALSE	FALSE
SREBF2	ENSG00000198	ENSG00000198	0.1031315678	0.7603988979	0.8973042622	FALSE	MA0828.3	MA0828.3_SREBF2	-0.1419509021	0.8220718204	1	FALSE	FALSE
BARX1	ENSG00000131	ENSG00000131	0.09999408684	0.9166517379	0.9687022192	FALSE	MA0875.2	MA0875.2_BARX1	0.7332112009	1.26E-92	4.96E-91	TRUE	FALSE
ZKSCAN1	ENSG00000106	ENSG00000106	0.09500232018	0.7700801629	0.9020118791	FALSE	MA1585.2	MA1585.2_ZKSCAN1	-0.03692890963	0.6142452313	0.8825362519	FALSE	FALSE
ZNF574	ENSG00000105	ENSG00000105	0.09483513666	0.6522035669	0.837236044	FALSE	MA1982.2	MA1982.2_ZNF574	-0.4327553442	1	1	FALSE	FALSE
PATZ1	ENSG00000100	ENSG00000100	0.09221120288	0.7258029988	0.8776095045	FALSE	MA1961.2	MA1961.2_PATZ1	-0.8216278157	1	1	FALSE	FALSE
GCM1	ENSG00000137	ENSG00000137	0.08725566623	0.9364050383	0.976191452	FALSE	MA0646.2	MA0646.2_GCM1	-0.2985726684	0.9978749966	1	FALSE	FALSE
ZNF692	ENSG00000171	ENSG00000171	0.07394799756	0.8118833274	0.9227435118	FALSE	MA1986.2	MA1986.2_ZNF692	-0.6985737289	1	1	FALSE	FALSE
FOXO3	ENSG00000118	ENSG00000118	0.07350604912	0.789143868	0.9111128431	FALSE	MA0157.2	MA0157.2_FOXO3	0.5175081339	4.22E-06	9.20E-06	TRUE	FALSE
TCF3	ENSG00000071	ENSG00000071	0.07304344869	0.7244797563	0.8767337166	FALSE	MA0522.4	MA0522.4_TCF3	0.02727467849	0.2606265607	0.3917232876	FALSE	FALSE
FOXA3	ENSG00000170	ENSG00000170	0.0723168578	0.7393707961	0.9763962198	FALSE	MA1683.2	MA1683.2_FOXA3	0.3277655776	1.06E-07	2.61E-07	TRUE	FALSE
ZNF343	ENSG00000088	ENSG00000088	0.07080893463	0.9604219097	0.8973046456	FALSE	MA1711.2	MA1711.2_ZNF343	-0.4477572207	1	1	FALSE	FALSE
MNX1	ENSG00000130	ENSG00000130	0.06811621187	0.9615438561	0.9843749973	FALSE	MA0707.3	MA0707.3_MNX1	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
POU1F1	ENSG00000064	ENSG00000064	0.06712302704	0.9707526819	0.9884746656	FALSE	MA0784.3	MA0784.3_POU1F1	0.496397116	9.79E-08	2.50E-07	TRUE	FALSE
ZNF93	ENSG00000184	ENSG00000184	0.06707834829	0.8882334531	0.9569578539	FALSE	MA1721.2	MA1721.2_ZNF93	-0.5688503215	1	1	FALSE	FALSE
MEF2B	ENSG00000213	ENSG00000213	0.06653432177	0.7568348297	0.895421259	FALSE	MA0660.1	MA0660.1_MEF2B	0.2933307128	9.74E-05	1.93E-04	TRUE	FALSE
IRF2	ENSG00000168	ENSG00000168	0.06022764675	0.828555139	0.93001536	FALSE	MA0051.2	MA0051.2_IRF2	0.4148288442	7.13E-11	2.22E-10	TRUE	FALSE
YY2	ENSG00000230	ENSG00000230	0.0577954063	0.873306363	0.9509497295	FALSE	MA0748.3	MA0748.3_YY2	-1.785176862	1	1	FALSE	FALSE
ZNF454	ENSG00000178	ENSG00000178	0.05617619805	0.9402445595	0.9763962198	FALSE	MA1712.2	MA1712.2_ZNF454	-0.9230708935	1	1	FALSE	FALSE
ZNF582	ENSG00000018	ENSG00000018	0.05142234738	0.8493867895	0.9412514746	FALSE	MA1983.2	MA1983.2_ZNF582	0.6577128935	6.01E-24	3.82E-23	TRUE	FALSE
TEAD2	ENSG00000074	ENSG00000074	0.05046175558	0.8080125893	0.9202988446	FALSE	MA1121.2	MA1121.2_TEAD2	0.5367466207	1.59E-23	9.85E-23	TRUE	FALSE
IRF1	ENSG00000125	ENSG00000125	0.04869483898	0.9300349256	0.9738674977	FALSE	MA0050.2	MA0050.2_IRF1	0.2667185579	9.52E-14	3.84E-13	TRUE	FALSE
ZNF16	ENSG00000170	ENSG00000170	0.04766157283	0.8192842092	0.925531504	FALSE	MA1654.2	MA1654.2_ZNF16	-0.04572527305	0.8178102872	1	FALSE	FALSE
ZBED4	ENSG00000100	ENSG00000100	0.0474284649	0.8347006105	0.9334471024	FALSE	MA2328.1	MA2328.1_ZBED4	-1.578110982	1	1	FALSE	FALSE
ZBED2	ENSG00000177	ENSG00000177	0.04585054176	0.971918691	0.9889337886	FALSE	MA1971.2	MA1971.2_ZBED2	-0.9265302109	0.9999999942	1	FALSE	FALSE
ELK1	ENSG00000126	ENSG00000126	0.04550499695	0.8538572506	0.9421477282	FALSE	MA0028.3	MA0028.3_ELK1	-0.8385972899	1	1	FALSE	FALSE
CDX1	ENSG00000113	ENSG00000113	0.04489326151	0.9728687184	0.9891338942	FALSE	MA0878.3	MA0878.3_CDX1	0.6970833054	4.04E-19	2.12E-18	TRUE	FALSE
HOXC13	ENSG00000123	ENSG00000123	0.04066978039	0.948237882	0.9789173748	FALSE	MA0907.2	MA0907.2_HOXC13	0.7447976835	3.22E-12	1.13E-11	TRUE	FALSE
TFEB	ENSG00000112	ENSG00000112	0.0359012882	0.9087581238	0.965695856	FALSE	MA0692.2	MA0692.2_TFEB	0.1151757416	0.06595600203	0.1080065535	FALSE	FALSE
ZBTB17	ENSG00000116	ENSG00000116	0.03466395923	0.8704478163	0.949603503	FALSE	MA2102.1	MA2102.1_ZBTB17	0.2854825991	0.2114361585	0.3249531124	FALSE	FALSE
PKNOX1	ENSG00000160	ENSG00000160	0.03431644127	0.9172171339	0.9687022192	FALSE	MA0782.3	MA0782.3_PKNOX1	0.280577482	4.47E-07	1.04E-06	TRUE	FALSE
USF1	ENSG00000158	ENSG00000158	0.0339599296	0.8606678147	0.9457212036	FALSE	MA0093.4	MA0093.4_USF1	0.2434344576	0.000698626571	0.001306658175	TRUE	FALSE
HOXA1	ENSG00000105	ENSG00000105	0.03348408172	0.9545043402	0.9820075194	FALSE	MA1495.2	MA1495.2_HOXA1	0.7804978645	1.69E-64	2.26E-63	TRUE	FALSE
POU2F1	ENSG00000143	ENSG00000143	0.024729945	0.9175886305	0.9687022192	FALSE	MA0785.2	MA0785.2_POU2F1	0.4081729388	0.000235928858	0.000456048050	TRUE	FALSE
ZNF410	ENSG00000119	ENSG00000119	0.01962555256	0.8928117812	0.9593542516	FALSE	MA0752.2	MA0752.2_ZNF410	0.4323239875	2.01E-05	4.16E-05	TRUE	FALSE
ZNF263	ENSG00000006	ENSG00000006	0.01846888895	0.9362883329	0.976191452	FALSE	MA0528.3	MA0528.3_ZNF263	-0.4979280673	1	1	FALSE	FALSE
NFIC	ENSG00000141	ENSG00000141	0.01802851851	0.9524639071	0.9809586979	FALSE	MA0161.3	MA0161.3_NFIC	0.6749902246	2.99E-50	3.45E-49	TRUE	FALSE
NFIC	ENSG00000141	ENSG00000141	0.01802851851	0.9524639071	0.9809586979	FALSE	MA1527.2	MA1527.2_NFIC	0.5538389325	1.19E-34	1.16E-33	TRUE	FALSE
EGR1	ENSG00000120	ENSG00000120	0.01468939769	0.9809398282	0.9923955114	FALSE	MA0162.5	MA0162.5_EGR1	-1.248841987	1	1	FALSE	FALSE
KLF6	ENSG00000067	ENSG00000067	0.00996516465	0.9801024491	0.9919650694	FALSE	MA1517.2	MA1517.2_KLF6	-0.9170546234	1	1	FALSE	FALSE
HMBX1	ENSG00000147	ENSG00000147	0.005083037256	0.9866255483	0.9946331312	FALSE	MA0895.2	MA0895.2_HMBX1	0.6074750986	7.05E-15	3.05E-14	TRUE	FALSE
ZNF75D	ENSG00000186	ENSG00000186	0.004953855916	0.9841689947	0.9937343478	FALSE	MA1601.2	MA1601.2_ZNF75D	0.09988160264	0.04218337687	0.0707412135	FALSE	FALSE
ZNF282	ENSG00000170	ENSG00000170	0.001099878746	0.9951173032	0.9979026969	FALSE	MA1154.2	MA1154.2_ZNF282	0.1370516326	0.01566236993	0.02712881627	TRUE	FALSE

Cell_Type	Pearson_R	P_Value	Adj_P	Significanc
T.cells.CD8	0.9721257778	9.12E-41	1.05E-39	TRUE
NK.cells.activated	0.6522149629	5.27E-09	3.03E-08	TRUE
T.cells.gamma.delta	0.6022412162	1.41E-07	6.46E-07	TRUE
T.cells.follicular.helper	0.5774404823	5.87E-07	2.25E-06	TRUE
T.cells.CD4.memory.activated	0.4778843487	6.51E-05	1.66E-04	TRUE
Macrophages.M1	0.2195501569	8.13E-02	1.25E-01	FALSE
T.cells.regulatory..Tregs.	0.1406870445	2.67E-01	3.08E-01	FALSE
B.cells.memory	-0.05779342555	6.50E-01	6.50E-01	FALSE
Mast.cells.activated	-0.1056001577	0.4062694157	4.25E-01	FALSE
Plasma.cells	-0.1137575903	3.71E-01	4.06E-01	FALSE
Neutrophils	-0.1674677306	1.86E-01	2.25E-01	FALSE
Dendritic.cells.resting	-0.1760444539	1.64E-01	2.10E-01	FALSE
Mast.cells.resting	-0.1830104184	0.1477614015	2.00E-01	FALSE
T.cells.CD4.naive	-0.1838758257	0.1458222078	2.00E-01	FALSE
Macrophages.M0	-0.2534220697	0.04332813206	7.12E-02	FALSE
B.cells.naive	-0.2757223598	2.74E-02	4.85E-02	TRUE
Eosinophils	-0.2813489313	0.02431380346	4.66E-02	TRUE
Dendritic.cells.activated	-0.3633370179	0.003167716362	6.62E-03	TRUE
Monocytes	-0.4071476496	0.000841080230	1.93E-03	TRUE
Macrophages.M2	-0.5194137442	1.09E-05	3.14E-05	TRUE
NK.cells.resting	-0.5708240326	8.43E-07	2.77E-06	TRUE
T.cells.CD4.memory.resting	-0.6779552298	7.56E-10	5.80E-09	TRUE

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
BNC2	8.29E-189	2.46741874	0.86	0.03	2.41E-184	TAM
FRMD4A	1.67E-186	2.801647455	0.918	0.078	4.86E-182	TAM
APOE	4.42E-178	3.829499696	0.86	0.055	1.28E-173	TAM
RNASE1	9.03E-172	3.041247173	0.743	0.001	2.62E-167	TAM
SPP1	3.53E-159	4.955424266	0.711	0.007	1.03E-154	TAM
COL3A1	1.50E-153	1.71441436	0.83	0.067	4.36E-149	TAM
DOCK4	4.21E-153	3.182256875	0.939	0.263	1.22E-148	TAM
SLCO2B1	3.87E-150	1.795490759	0.667	0.002	1.12E-145	TAM
LGMN	3.22E-146	2.477764978	0.74	0.045	9.36E-142	TAM
NRP1	2.08E-145	2.771933038	0.754	0.055	6.04E-141	TAM
RIPOR2	4.28E-143	-2.653586779	0.041	0.942	1.24E-138	Monocyte
FCN1	1.40E-141	-3.130366982	0.015	0.921	4.08E-137	Monocyte
C1QB	5.77E-136	2.262509009	0.646	0.014	1.68E-131	TAM
ABCA1	8.27E-136	2.722251948	0.836	0.166	2.41E-131	TAM
LYZ	3.85E-134	-3.824593031	0.155	0.928	1.12E-129	Monocyte
SLC16A10	3.81E-133	2.752667738	0.617	0.008	1.11E-128	TAM
FOS	7.57E-133	-2.703596408	0.263	0.948	2.20E-128	Monocyte
MTRNR2L12	7.71E-132	-2.891529734	0.778	0.982	2.24E-127	Monocyte
MT-ND2	1.27E-131	-2.907453425	0.933	0.989	3.68E-127	Monocyte
STK17B	1.83E-131	-2.192947781	0.281	0.978	5.33E-127	Monocyte
LYST	2.76E-130	-2.348633024	0.298	0.953	8.01E-126	Monocyte
FMNL2	2.87E-130	3.076898498	0.857	0.196	8.35E-126	TAM
MT-CO1	1.66E-129	-2.294235377	0.982	0.999	4.83E-125	Monocyte
IGF2BP3	2.66E-126	1.265580778	0.711	0.055	7.73E-122	TAM
DAB2	5.54E-125	2.129248357	0.705	0.072	1.61E-120	TAM
MT-ND3	7.03E-125	-2.466604751	0.956	0.998	2.04E-120	Monocyte
AOAH	1.09E-124	-2.451855302	0.409	0.957	3.18E-120	Monocyte
PTPRC	1.19E-124	-1.784222638	0.772	0.994	3.46E-120	Monocyte
MT-ND1	8.79E-124	-2.307779717	0.959	0.996	2.56E-119	Monocyte
S100A9	1.18E-123	-3.437501307	0.117	0.894	3.42E-119	Monocyte
C1QA	2.67E-123	1.808406791	0.635	0.028	7.77E-119	TAM

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
MT-ND4	9.48E-122	-2.269384054	0.962	1	2.76E-117	Monocyte
C1QC	5.60E-121	1.731461729	0.553	0.001	1.63E-116	TAM
PABPC1	8.70E-121	-2.034761088	0.754	0.972	2.53E-116	Monocyte
IRF1	6.32E-120	-2.247918954	0.099	0.88	1.84E-115	Monocyte
MIR99AHG	1.90E-119	1.692184413	0.795	0.12	5.53E-115	TAM
NRP2	9.28E-119	1.642049581	0.594	0.019	2.70E-114	TAM
ARHGAP18	1.41E-118	2.150669075	0.795	0.175	4.09E-114	TAM
COLEC12	4.11E-118	2.107890774	0.591	0.021	1.20E-113	TAM
ANK2	4.30E-117	1.98327027	0.757	0.105	1.25E-112	TAM
JAK2	1.57E-116	-2.0004804	0.365	0.965	4.57E-112	Monocyte
PRKCB	2.04E-116	-1.887783082	0.38	0.978	5.94E-112	Monocyte
MT-CYB	4.55E-116	-1.967557353	0.971	0.996	1.32E-111	Monocyte
MERTK	2.65E-115	2.150300798	0.684	0.08	7.72E-111	TAM
MT-ND5	9.28E-115	-2.026625517	0.939	0.993	2.70E-110	Monocyte
ADGRE5	7.30E-114	-2.238050819	0.161	0.891	2.12E-109	Monocyte
FMN1	9.30E-113	2.408415556	0.836	0.227	2.70E-108	TAM
KCNMA1	2.49E-112	2.438556683	0.64	0.057	7.24E-108	TAM
MT-ATP8	3.31E-112	-1.866378385	0.711	0.962	9.63E-108	Monocyte
FOSB	3.89E-112	-2.313264351	0.073	0.836	1.13E-107	Monocyte
GPNMB	5.21E-112	1.71745738	0.526	0.005	1.52E-107	TAM
STARD13	5.28E-112	1.849345226	0.57	0.021	1.53E-107	TAM
DUSP1	6.75E-112	-1.932790548	0.281	0.928	1.96E-107	Monocyte
DOCK1	4.06E-111	1.110707247	0.635	0.046	1.18E-106	TAM
CTSS	1.01E-110	-2.049724847	0.488	0.961	2.93E-106	Monocyte
JAML	3.21E-110	-1.655410015	0.038	0.822	9.33E-106	Monocyte
MSR1	1.08E-108	2.132714987	0.731	0.128	3.15E-104	TAM
NAV3	1.99E-107	1.52145252	0.652	0.063	5.79E-103	TAM
S100A8	7.24E-107	-2.989447792	0.023	0.793	2.10E-102	Monocyte
TYMP	1.72E-105	-1.778914288	0.591	0.962	4.99E-101	Monocyte
RAB11FIP1	2.15E-105	-1.977036574	0.111	0.842	6.25E-101	Monocyte

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
SLC1A3	4.55E-105	1.657425913	0.591	0.041	1.32E-100	TAM
MDK	9.10E-105	1.150885409	0.629	0.055	2.65E-100	TAM
MNDA	1.06E-102	-1.89648822	0.199	0.87	3.07E-98	Monocyte
MT-ATP6	2.02E-102	-1.668442065	0.98	0.999	5.88E-98	Monocyte
MRC1	8.74E-102	1.865131253	0.576	0.038	2.54E-97	TAM
TTC28	1.20E-98	1.393672957	0.719	0.115	3.48E-94	TAM
LINC00278	1.27E-98	1.42727105	0.497	0.012	3.69E-94	TAM
UTY	2.49E-98	1.162313261	0.55	0.028	7.25E-94	TAM
AGAP1	5.52E-98	1.066182114	0.564	0.038	1.60E-93	TAM
WARS	1.39E-97	-2.23482088	0.111	0.799	4.04E-93	Monocyte
CD63	9.59E-97	1.785101511	0.942	0.561	2.79E-92	TAM
A2M	2.25E-96	1.356432303	0.477	0.009	6.55E-92	TAM
APOC1	3.01E-96	1.930193439	0.459	0.004	8.75E-92	TAM
FYN	6.16E-96	-1.737024238	0.082	0.793	1.79E-91	Monocyte
RASAL2	3.55E-95	1.311294975	0.623	0.071	1.03E-90	TAM
INPP4B	4.54E-95	1.247274671	0.658	0.084	1.32E-90	TAM
KLF4	7.05E-94	-1.592667905	0.038	0.745	2.05E-89	Monocyte
NCF1	7.62E-94	-1.847383588	0.056	0.762	2.21E-89	Monocyte
ZFP36	5.45E-92	-1.533764793	0.231	0.863	1.58E-87	Monocyte
PLTP	7.61E-91	1.335144976	0.444	0.006	2.21E-86	TAM
KLF2	8.09E-91	-1.544740461	0.047	0.74	2.35E-86	Monocyte
SMYD3	2.66E-90	1.37392955	0.851	0.235	7.74E-86	TAM
USP15	4.06E-90	-1.442390224	0.675	0.976	1.18E-85	Monocyte
HLA-B	7.36E-90	-1.77600104	0.535	0.954	2.14E-85	Monocyte
SLCO3A1	3.67E-89	-1.621418085	0.205	0.861	1.07E-84	Monocyte
VSIR	9.05E-89	-1.313122732	0.149	0.835	2.63E-84	Monocyte
CD163L1	4.00E-88	1.783355303	0.48	0.024	1.16E-83	TAM
ANKH	7.11E-88	2.19509151	0.576	0.077	2.07E-83	TAM
ERBB4	1.64E-87	1.222847573	0.611	0.078	4.77E-83	TAM
ANKRD44	2.67E-87	-1.416796503	0.482	0.961	7.75E-83	Monocyte

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
SEMA3A	3.67E-87	1.196472764	0.614	0.081	1.07E-82	TAM
STX11	3.91E-87	-1.447187953	0.105	0.773	1.14E-82	Monocyte
MITF	1.02E-86	2.049173305	0.719	0.189	2.95E-82	TAM
B2M	1.54E-86	-1.675410655	0.892	0.994	4.47E-82	Monocyte
CTSL	1.77E-86	1.842174057	0.611	0.1	5.14E-82	TAM
AL356124.1	7.49E-86	1.401987279	0.48	0.027	2.18E-81	TAM
MT-CO2	7.78E-86	-1.412096027	0.991	0.999	2.26E-81	Monocyte
PARD3	1.54E-85	1.027569799	0.561	0.059	4.47E-81	TAM
DMD	5.60E-85	1.121471007	0.579	0.067	1.63E-80	TAM
MYO1F	9.90E-85	-1.382921471	0.447	0.926	2.88E-80	Monocyte
LRRK2	3.05E-84	-1.719973615	0.234	0.85	8.87E-80	Monocyte
FGR	7.73E-84	-1.265427549	0.085	0.75	2.25E-79	Monocyte
HLA-A	3.01E-83	-1.452825054	0.579	0.954	8.75E-79	Monocyte
CSF3R	4.97E-83	-1.632012172	0.149	0.776	1.44E-78	Monocyte
ATP2B1-AS1	5.92E-83	-1.623033521	0.091	0.736	1.72E-78	Monocyte
LINC00486	6.42E-83	-1.140063118	0.015	0.665	1.87E-78	Monocyte
CADM2	7.30E-83	1.429084584	0.637	0.107	2.12E-78	TAM
STAT1	3.93E-82	-1.460026122	0.363	0.898	1.14E-77	Monocyte
NLRP1	5.63E-82	-1.465570128	0.12	0.769	1.64E-77	Monocyte
H3F3B	3.44E-81	-1.496513964	0.462	0.928	9.99E-77	Monocyte
CLEC12A	6.78E-81	-1.321110093	0.044	0.694	1.97E-76	Monocyte
JUNB	9.67E-81	-1.594639865	0.199	0.8	2.81E-76	Monocyte
XIST	1.38E-80	-1.220041409	0.143	0.884	4.02E-76	Monocyte
POU2F2	1.42E-80	-1.615798132	0.184	0.797	4.13E-76	Monocyte
LCP1	1.76E-80	-1.470577145	0.371	0.9	5.10E-76	Monocyte
NFKBIZ	2.00E-80	-1.430974199	0.12	0.771	5.81E-76	Monocyte
HLA-E	2.26E-80	-1.418826093	0.494	0.937	6.57E-76	Monocyte
TNFSF10	5.93E-80	-1.668364576	0.061	0.699	1.72E-75	Monocyte
FARP1	1.64E-79	1.180458977	0.462	0.031	4.76E-75	TAM
ACTB	1.65E-79	-1.923127112	0.939	0.991	4.79E-75	Monocyte

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
AC020916.1	2.14E-79	-1.748451664	0.161	0.766	6.23E-75	Monocyte
ANXA1	3.56E-79	-2.302934643	0.307	0.841	1.03E-74	Monocyte
AC100849.1	6.22E-79	1.213671234	0.386	0.004	1.81E-74	TAM
LYN	9.15E-79	-1.374145802	0.69	0.978	2.66E-74	Monocyte
SELENOP	1.83E-78	1.459858862	0.38	0.002	5.33E-74	TAM
DLG2	4.82E-78	1.345801451	0.585	0.083	1.40E-73	TAM
IRAK3	7.15E-78	-1.467441676	0.278	0.854	2.08E-73	Monocyte
NPL	1.00E-77	1.45690115	0.76	0.268	2.92E-73	TAM
MT-ND4L	1.99E-77	-1.364843591	0.769	0.936	5.78E-73	Monocyte
RGS1	3.13E-77	1.422986118	0.48	0.043	9.09E-73	TAM
ZEB1	3.81E-77	1.144126148	0.538	0.059	1.11E-72	TAM
MT-CO3	5.74E-77	-1.246346266	0.994	0.998	1.67E-72	Monocyte
SAMHD1	1.03E-76	-1.30740712	0.52	0.927	2.99E-72	Monocyte
PSD3	1.16E-76	1.535107328	0.482	0.047	3.38E-72	TAM
NLGN1	1.18E-76	1.624511387	0.681	0.155	3.43E-72	TAM
TMEM131L	1.53E-76	-1.422624842	0.213	0.815	4.44E-72	Monocyte
AC022217.3	2.85E-76	-1.507209784	0.102	0.718	8.27E-72	Monocyte
CTSB	4.53E-76	2.027972399	0.854	0.556	1.32E-71	TAM
CD163	5.24E-76	1.487986715	0.681	0.198	1.52E-71	TAM
COL5A2	8.93E-76	1.011712876	0.444	0.027	2.60E-71	TAM
COL11A1	1.05E-75	1.094576636	0.711	0.187	3.05E-71	TAM
CORO1A	1.28E-75	-1.454562214	0.102	0.708	3.71E-71	Monocyte
MGAT4A	1.34E-75	1.403618104	0.579	0.111	3.90E-71	TAM
FAM20A	3.60E-75	1.512484293	0.482	0.05	1.05E-70	TAM
PCDH7	1.34E-74	1.051245845	0.442	0.027	3.89E-70	TAM
FRY	1.52E-74	-1.571913221	0.076	0.685	4.41E-70	Monocyte
HMGA2	1.87E-74	1.009151762	0.632	0.124	5.42E-70	TAM
SERPINA1	1.96E-74	-1.748955936	0.114	0.71	5.71E-70	Monocyte
PSTPIP2	2.35E-74	-1.370236566	0.14	0.743	6.84E-70	Monocyte
CD81	3.09E-74	1.362651664	0.632	0.148	8.99E-70	TAM

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
PRKN	1.00E-73	1.149961318	0.629	0.123	2.91E-69	TAM
C9orf72	2.78E-73	-1.299962634	0.295	0.843	8.07E-69	Monocyte
RRP12	1.52E-72	-1.643681132	0.088	0.682	4.42E-68	Monocyte
MEGF9	1.53E-72	-1.67308113	0.152	0.736	4.44E-68	Monocyte
MACF1	2.89E-72	1.325908201	0.977	0.667	8.39E-68	TAM
AUTS2	3.60E-72	1.243186092	0.652	0.125	1.05E-67	TAM
TEX14	8.46E-72	-1.626567494	0.085	0.682	2.46E-67	Monocyte
CPPED1	7.69E-71	-1.282449583	0.266	0.834	2.24E-66	Monocyte
ITGAL	2.30E-70	-1.282023929	0.102	0.695	6.70E-66	Monocyte
PELI2	7.72E-70	-1.281584571	0.058	0.658	2.25E-65	Monocyte
DPYD	9.26E-70	-1.366484473	0.947	0.974	2.69E-65	Monocyte
NEDD9	9.53E-70	-1.25327897	0.132	0.743	2.77E-65	Monocyte
LSP1	1.07E-69	-1.350092703	0.105	0.695	3.11E-65	Monocyte
S100A6	1.25E-69	-1.732769198	0.588	0.863	3.63E-65	Monocyte
NTS	1.92E-69	2.23531192	0.368	0.009	5.57E-65	TAM
DOCK8	2.58E-69	-1.098237758	0.766	0.983	7.49E-65	Monocyte
AGTPBP1	2.85E-69	-1.330673529	0.392	0.872	8.30E-65	Monocyte
LIMD2	1.09E-68	-1.161344761	0.035	0.613	3.16E-64	Monocyte
FYB1	1.83E-68	-1.243411384	0.594	0.952	5.31E-64	Monocyte
PRAM1	1.56E-67	-1.149999286	0.056	0.633	4.52E-63	Monocyte
SRGAP1	1.66E-67	1.068966798	0.421	0.033	4.83E-63	TAM
KLF6	2.10E-67	-1.227264705	0.541	0.939	6.11E-63	Monocyte
SCLT1	2.31E-67	-1.388759685	0.415	0.89	6.71E-63	Monocyte
COTL1	3.25E-67	-1.588981178	0.275	0.797	9.46E-63	Monocyte
SFMBT2	3.98E-67	1.841384843	0.757	0.365	1.16E-62	TAM
TNFAIP2	4.15E-67	-1.269217326	0.208	0.779	1.20E-62	Monocyte
SRGN	7.84E-67	-1.221902749	0.617	0.976	2.28E-62	Monocyte
ITGB1	8.72E-67	1.197112788	0.901	0.486	2.54E-62	TAM
FCHO2	9.71E-67	1.368347749	0.617	0.172	2.82E-62	TAM
SH3PXD2B	2.02E-66	1.174623613	0.404	0.03	5.88E-62	TAM

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
FHIT	3.08E-66	1.223094879	0.833	0.289	8.96E-62	TAM
FRMD4B	4.05E-66	1.771864633	0.816	0.465	1.18E-61	TAM
ELL2	2.43E-65	1.930813101	0.681	0.253	7.06E-61	TAM
TMEM117	8.22E-65	1.178245669	0.444	0.051	2.39E-60	TAM
AIF1	1.20E-64	-1.907222388	0.175	0.713	3.48E-60	Monocyte
NOTCH2	1.41E-64	-1.137939425	0.298	0.826	4.10E-60	Monocyte
MBNL1	1.71E-64	-1.026474182	0.936	0.999	4.97E-60	Monocyte
S100A4	1.72E-64	-1.835183942	0.558	0.837	5.00E-60	Monocyte
TAGAP	1.77E-64	-1.170571564	0.064	0.627	5.14E-60	Monocyte
PLCB1	3.00E-64	-1.999062881	0.132	0.694	8.73E-60	Monocyte
RGL1	1.27E-63	1.40390493	0.515	0.096	3.70E-59	TAM
DTNA	1.33E-63	1.527053538	0.453	0.058	3.87E-59	TAM
SDC2	1.56E-63	1.103935702	0.351	0.013	4.55E-59	TAM
MYADM	1.58E-63	-1.170694781	0.053	0.603	4.60E-59	Monocyte
PSMB9	2.75E-63	-1.174346798	0.064	0.626	7.99E-59	Monocyte
HSPB1	3.66E-63	1.505525638	0.564	0.116	1.06E-58	TAM
LRRFIP1	4.15E-63	-1.031552494	0.766	0.972	1.21E-58	Monocyte
RAP1GAP2	5.31E-63	-1.21446845	0.135	0.702	1.54E-58	Monocyte
FGL2	5.68E-63	-1.346247288	0.199	0.738	1.65E-58	Monocyte
TMEM163	9.12E-63	1.367595195	0.333	0.009	2.65E-58	TAM
MGAT5	2.31E-62	1.687897716	0.766	0.392	6.70E-58	TAM
JUN	3.42E-62	-1.761119456	0.222	0.739	9.94E-58	Monocyte
PTPRM	4.65E-62	1.092636953	0.456	0.06	1.35E-57	TAM
GCH1	1.22E-61	-1.246392786	0.041	0.583	3.56E-57	Monocyte
RNF150	3.09E-61	1.101659332	0.327	0.009	8.97E-57	TAM
LNCAROD	3.44E-61	1.28120823	0.316	0.006	1.00E-56	TAM
TSC22D3	4.53E-61	-1.110360782	0.117	0.668	1.32E-56	Monocyte
USP3	5.24E-61	-1.136041678	0.439	0.884	1.52E-56	Monocyte
TMTC2	7.00E-61	-1.554494185	0.085	0.626	2.03E-56	Monocyte
TRIM22	1.73E-60	-1.09927936	0.167	0.701	5.02E-56	Monocyte

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
SCG2	1.82E-60	1.324704381	0.319	0.007	5.29E-56	TAM
ADAMTSL4-AS1	2.49E-60	-1.251518895	0.325	0.837	7.23E-56	Monocyte
HLA-DRA	2.63E-60	-1.546972552	0.509	0.91	7.66E-56	Monocyte
BCAT1	9.52E-60	1.065534809	0.465	0.073	2.77E-55	TAM
TCF12	2.57E-59	1.413437637	0.977	0.791	7.48E-55	TAM
CD52	5.23E-59	-1.348791409	0.056	0.593	1.52E-54	Monocyte
AC253572.2	9.25E-59	-1.03283778	0	0.514	2.69E-54	Monocyte
HCK	1.36E-58	-1.130680188	0.401	0.844	3.96E-54	Monocyte
SULF2	2.25E-58	-1.068227426	0.146	0.714	6.53E-54	Monocyte
UTRN	3.40E-58	-1.219872502	0.667	0.954	9.89E-54	Monocyte
SIK3	3.79E-58	-1.183918389	0.64	0.923	1.10E-53	Monocyte
MCL1	4.65E-58	-1.02736399	0.386	0.861	1.35E-53	Monocyte
RGS2	5.85E-58	-1.217703167	0.234	0.763	1.70E-53	Monocyte
LST1	7.79E-58	-1.508770298	0.079	0.596	2.26E-53	Monocyte
LINC00910	8.89E-58	-1.026545171	0.023	0.541	2.58E-53	Monocyte
TMEM154	3.53E-57	-1.010289176	0.023	0.535	1.03E-52	Monocyte
GBP1	3.59E-57	-1.397059395	0.102	0.615	1.04E-52	Monocyte
PEAK1	4.71E-57	1.371027074	0.673	0.246	1.37E-52	TAM
EEPD1	4.12E-56	1.379670679	0.605	0.192	1.20E-51	TAM
PPARG	4.50E-56	1.057598578	0.363	0.031	1.31E-51	TAM
ITSN1	6.37E-56	1.580409885	0.675	0.293	1.85E-51	TAM
SP110	8.83E-56	-1.051599821	0.263	0.778	2.57E-51	Monocyte
PTPN6	9.20E-56	-1.075814729	0.076	0.59	2.68E-51	Monocyte
PLAC8	3.27E-55	-1.291201269	0.006	0.499	9.50E-51	Monocyte
SLC31A2	3.67E-55	-1.049101975	0.135	0.647	1.07E-50	Monocyte
SPRED1	6.13E-55	2.141816088	0.605	0.216	1.78E-50	TAM
ITGB2	1.10E-54	-1.070980148	0.38	0.839	3.20E-50	Monocyte
ARHGAP10	1.63E-54	1.372664138	0.561	0.161	4.73E-50	TAM
SNX24	1.68E-54	1.198276193	0.485	0.104	4.89E-50	TAM
EPB41L2	1.71E-54	1.318247156	0.635	0.2	4.96E-50	TAM

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
MPEG1	3.45E-54	-1.114525413	0.196	0.699	1.00E-49	Monocyte
ARL4C	4.20E-54	1.152332674	0.442	0.076	1.22E-49	TAM
LHFPL2	4.90E-54	1.165530866	0.494	0.109	1.42E-49	TAM
ITGA4	6.08E-54	-1.177791846	0.374	0.824	1.77E-49	Monocyte
CD74	7.43E-54	-1.294516504	0.699	0.969	2.16E-49	Monocyte
GBP5	5.38E-53	-1.278627392	0.023	0.508	1.56E-48	Monocyte
VCAN	7.70E-53	-1.495292427	0.383	0.817	2.24E-48	Monocyte
CCDC200	8.09E-53	-1.141933892	0.094	0.588	2.35E-48	Monocyte
TUBA1A	2.56E-52	-1.335924373	0.249	0.728	7.44E-48	Monocyte
DST	2.95E-52	1.023756579	0.757	0.283	8.57E-48	TAM
GBP2	3.04E-52	-1.097728281	0.222	0.725	8.83E-48	Monocyte
CCNL1	5.48E-52	-1.025788753	0.418	0.86	1.59E-47	Monocyte
CBLB	7.89E-52	1.685282619	0.675	0.307	2.29E-47	TAM
ABCC5	1.28E-51	1.054368563	0.415	0.067	3.73E-47	TAM
SLC38A6	3.46E-51	1.246843297	0.52	0.148	1.01E-46	TAM
NCKAP5	2.72E-50	1.914319042	0.31	0.021	7.89E-46	TAM
TMEM51	3.16E-50	1.000243349	0.462	0.102	9.18E-46	TAM
IL15	3.47E-50	-1.182683905	0.158	0.636	1.01E-45	Monocyte
CLEC7A	5.51E-50	-1.068416935	0.325	0.791	1.60E-45	Monocyte
HDAC9	5.51E-49	-1.267180115	0.31	0.8	1.60E-44	Monocyte
GLT1D1	7.93E-49	-1.004644386	0.032	0.492	2.30E-44	Monocyte
GABARAP	9.34E-49	-1.122898059	0.269	0.73	2.71E-44	Monocyte
YPEL5	1.06E-48	-1.055096916	0.12	0.597	3.09E-44	Monocyte
SMAP2	1.19E-48	-1.054452172	0.389	0.818	3.46E-44	Monocyte
HSP90B1	1.85E-48	1.114901086	0.88	0.517	5.39E-44	TAM
SPIRE1	4.96E-48	1.033578057	0.465	0.11	1.44E-43	TAM
DUSP6	6.25E-48	-1.101888062	0.211	0.668	1.82E-43	Monocyte
ASPH	8.57E-48	1.254784604	0.585	0.217	2.49E-43	TAM
FAM13A	1.30E-47	1.292792841	0.678	0.273	3.78E-43	TAM
PSME2	1.42E-47	-1.062160324	0.143	0.615	4.14E-43	Monocyte

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
SYT1	1.64E-47	1.053533052	0.298	0.021	4.76E-43	TAM
GPR137B	3.46E-47	1.028160962	0.541	0.168	1.01E-42	TAM
AP2A2	1.92E-46	1.169750026	0.62	0.261	5.58E-42	TAM
SH3RF3	8.30E-46	1.070018117	0.427	0.085	2.41E-41	TAM
DTNB	8.33E-46	1.126425267	0.503	0.138	2.42E-41	TAM
SMCHD1	1.31E-45	-1.008400745	0.722	0.927	3.81E-41	Monocyte
HRH1	1.52E-45	1.049602	0.31	0.031	4.43E-41	TAM
PID1	2.01E-45	-1.395637443	0.175	0.638	5.85E-41	Monocyte
RIPK2	1.43E-44	-1.016410813	0.243	0.704	4.16E-40	Monocyte
DIRC3	1.62E-43	1.169930047	0.357	0.057	4.71E-39	TAM
CYFIP1	2.24E-43	1.046487708	0.64	0.311	6.52E-39	TAM
MPP7	3.47E-43	-1.002073351	0.026	0.444	1.01E-38	Monocyte
TMSB10	8.34E-43	-1.276750392	0.892	0.945	2.43E-38	Monocyte
TANC2	8.35E-43	1.33729283	0.561	0.214	2.43E-38	TAM
NAMPT	2.22E-42	-1.036736641	0.529	0.928	6.44E-38	Monocyte
TNS3	5.84E-42	1.291662766	0.807	0.628	1.70E-37	TAM
CD109	1.34E-41	1.311578775	0.319	0.043	3.90E-37	TAM
ARID5B	1.53E-41	1.028257725	0.667	0.27	4.45E-37	TAM
MAML2	1.74E-41	1.155847536	0.974	0.744	5.07E-37	TAM
PLIN2	3.16E-41	1.577707454	0.433	0.116	9.19E-37	TAM
SH3BGRL3	1.58E-40	-1.12640392	0.24	0.671	4.59E-36	Monocyte
OAZ1	3.85E-40	-1.059850998	0.319	0.732	1.12E-35	Monocyte
IPCEF1	5.64E-39	-1.007831145	0.161	0.577	1.64E-34	Monocyte
TPRG1	6.54E-39	1.429531334	0.398	0.092	1.90E-34	TAM
RBPJ	7.21E-39	2.479320922	0.924	0.708	2.10E-34	TAM
ARHGDIB	7.74E-39	-1.028796964	0.234	0.633	2.25E-34	Monocyte
BMP2K	2.67E-38	1.529477378	0.734	0.549	7.76E-34	TAM
F13A1	8.50E-38	3.019722141	0.465	0.151	2.47E-33	TAM
RAD51B	4.43E-36	1.07623284	0.909	0.575	1.29E-31	TAM
CENPP	1.73E-35	1.067357545	0.395	0.102	5.02E-31	TAM

gene	p_val	avg_log2FC	pct.1	pct.2	p_val_adj	cluster
MYO1E	6.81E-35	1.192395282	0.632	0.314	1.98E-30	TAM
PDGFC	1.30E-34	1.38036283	0.509	0.209	3.79E-30	TAM
BCL2	1.62E-27	1.032807513	0.333	0.09	4.70E-23	TAM
LDLRAD4	6.83E-27	1.030454569	0.751	0.608	1.99E-22	TAM
ZNF331	9.05E-26	1.268759764	0.383	0.138	2.63E-21	TAM
LIMS1	1.15E-25	1.075725869	0.678	0.499	3.34E-21	TAM
HLA-DQA1	2.93E-25	-1.175192335	0.184	0.498	8.51E-21	Monocyte
ALCAM	1.35E-24	1.16103446	0.538	0.274	3.92E-20	TAM
HLA-DPA1	6.13E-24	-1.106167328	0.357	0.661	1.78E-19	Monocyte
TGFBI	1.56E-22	1.2485918	0.652	0.483	4.53E-18	TAM
TFRC	1.66E-22	1.185756336	0.462	0.23	4.83E-18	TAM
ATP8B4	5.33E-22	1.096812455	0.602	0.416	1.55E-17	TAM
FTL	2.99E-21	1.572548967	0.936	0.865	8.70E-17	TAM
TCF7L2	3.52E-21	-1.140257892	0.5	0.673	1.02E-16	Monocyte
HIF1A-AS3	1.30E-19	1.839453558	0.535	0.362	3.77E-15	TAM
FNIP2	6.55E-17	1.11528043	0.547	0.38	1.90E-12	TAM
GBE1	9.80E-15	1.151254779	0.462	0.285	2.85E-10	TAM
SAMD4A	1.30E-13	1.066493799	0.456	0.292	3.77E-09	TAM
WWP1	3.14E-09	1.201923947	0.491	0.4	9.12E-05	TAM

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_size	significant	adj_p_value	term_id	source	term_name	term_size	intersection_size	significant	adj_p_value
GO:0006898	GO:BP	receptor-mediated endocytosis	256	14	TRUE	1.17E-07	GO:0007159	GO:BP	leukocyte cell-cell adhesion	403	30	TRUE	3.40E-18
GO:0038024	GO:MF	cargo receptor activity	88	7	TRUE	4.40E-06	GO:1903037	GO:BP	regulation of leukocyte cell-cell adhesion	365	27	TRUE	2.06E-16
REAC:R-HSA-30	REAC	Scavenging by Class A Receptors	19	5	TRUE	1.03E-05	GO:0051249	GO:BP	regulation of lymphocyte activation	497	30	TRUE	4.93E-16
GO:0062023	GO:CC	collagen-containing extracellular matrix	425	16	TRUE	1.31E-05	GO:0022407	GO:BP	regulation of cell-cell adhesion	477	28	TRUE	1.83E-14
GO:1905954	GO:BP	positive regulation of lipid localization	107	8	TRUE	1.51E-05	GO:1903039	GO:BP	positive regulation of leukocyte cell-cell adhesion	270	22	TRUE	3.48E-14
GO:1905952	GO:BP	regulation of lipid localization	162	11	TRUE	1.71E-05	GO:0050863	GO:BP	regulation of T cell activation	374	25	TRUE	5.83E-14
GO:0071813	GO:MF	lipoprotein particle binding	28	4	TRUE	2.05E-05	GO:0022409	GO:BP	positive regulation of cell-cell adhesion	318	22	TRUE	1.11E-12
GO:0071814	GO:MF	protein-lipid complex binding	28	4	TRUE	2.05E-05	GO:0050870	GO:BP	positive regulation of T cell activation	247	20	TRUE	1.24E-12
GO:0060560	GO:BP	developmental growth involved in morphogenesis	248	13	TRUE	2.61E-05	GO:0046651	GO:BP	lymphocyte proliferation	308	22	TRUE	1.35E-12
GO:0051056	GO:BP	regulation of small GTPase mediated signaling	306	12	TRUE	5.05E-05	GO:0070661	GO:BP	leukocyte proliferation	351	23	TRUE	1.84E-12
GO:1990138	GO:BP	neuron projection extension	180	11	TRUE	7.43E-05	GO:0032943	GO:BP	mononuclear cell proliferation	315	22	TRUE	2.16E-12
GO:0001667	GO:BP	ameboid-type cell migration	428	16	TRUE	9.40E-05	GO:0002683	GO:BP	negative regulation of immune system process	495	26	TRUE	4.33E-12
GO:0032488	GO:BP	Cdc42 protein signal transduction	17	3	TRUE	9.71E-05	GO:0045785	GO:BP	positive regulation of cell adhesion	477	25	TRUE	6.31E-12
GO:0048588	GO:BP	developmental cell growth	233	12	TRUE	1.17E-04	GO:0002696	GO:BP	positive regulation of leukocyte activation	354	22	TRUE	1.03E-11
GO:0009925	GO:CC	basal plasma membrane	281	12	TRUE	1.81E-04	GO:0050670	GO:BP	regulation of lymphocyte proliferation	237	19	TRUE	1.76E-11
GO:0010631	GO:BP	epithelial cell migration	304	13	TRUE	1.86E-04	GO:0051251	GO:BP	positive regulation of lymphocyte activation	323	21	TRUE	1.83E-11
GO:0031904	GO:CC	endosome lumen	38	4	TRUE	1.99E-04	GO:0032944	GO:BP	regulation of mononuclear cell proliferation	241	19	TRUE	2.39E-11
GO:0090132	GO:BP	epithelium migration	307	13	TRUE	2.08E-04	GO:0050867	GO:BP	positive regulation of cell activation	371	22	TRUE	2.69E-11
GO:0031589	GO:BP	cell-substrate adhesion	351	14	TRUE	2.59E-04	GO:1903706	GO:BP	regulation of hemopoiesis	418	23	TRUE	8.90E-11
GO:0090130	GO:BP	tissue migration	313	13	TRUE	2.60E-04	GO:0070663	GO:BP	regulation of leukocyte proliferation	266	19	TRUE	1.43E-10
GO:0048675	GO:BP	axon extension	124	9	TRUE	3.08E-04	GO:0042098	GO:BP	T cell proliferation	214	17	TRUE	5.58E-10
GO:0005581	GO:CC	collagen trimer	91	5	TRUE	3.42E-04	GO:0045088	GO:BP	regulation of innate immune response	415	22	TRUE	1.04E-09
GO:0045178	GO:CC	basal part of cell	300	12	TRUE	3.61E-04	GO:0002757	GO:BP	immune response-activating signaling	465	23	TRUE	1.25E-09
GO:0043542	GO:BP	endothelial cell migration	219	11	TRUE	3.78E-04	GO:0002697	GO:BP	regulation of immune effector process	378	21	TRUE	1.49E-09
GO:0032368	GO:BP	regulation of lipid transport	134	9	TRUE	4.40E-04	GO:1903131	GO:BP	mononuclear cell differentiation	484	23	TRUE	1.89E-09
GO:0030055	GO:CC	cell-substrate junction	432	14	TRUE	5.40E-04	GO:0001819	GO:BP	positive regulation of cytokine production	490	23	TRUE	3.69E-09
GO:0097060	GO:CC	synaptic membrane	399	13	TRUE	5.64E-04	GO:0002764	GO:BP	immune response-regulating signaling	492	23	TRUE	4.01E-09
GO:0010632	GO:BP	regulation of epithelial cell migration	228	11	TRUE	5.66E-04	GO:1902105	GO:BP	regulation of leukocyte differentiation	323	19	TRUE	5.12E-09
GO:0043394	GO:MF	proteoglycan binding	36	4	TRUE	6.03E-04	HP:0001427	HP	Mitochondrial inheritance	16	10	TRUE	7.12E-09
TF:M12546	TF	Factor: ONECUT1; motif: NNNAATCAAT	73	6	TRUE	6.61E-04	GO:0050777	GO:BP	negative regulation of immune response	188	15	TRUE	7.71E-09
GO:0010594	GO:BP	regulation of endothelial cell migration	167	7	TRUE	6.95E-04	GO:0042129	GO:BP	regulation of T cell proliferation	181	15	TRUE	7.98E-09
GO:0030695	GO:MF	GTPase regulator activity	492	15	TRUE	7.12E-04	GO:0042611	GO:CC	MHC protein complex	24	7	TRUE	1.54E-08
GO:0060589	GO:MF	nucleoside-triphosphatase regulator activity	492	15	TRUE	7.12E-04	HP:0000576	HP	Centrocecal scotoma	13	9	TRUE	2.28E-08
TF:M12605_1	TF	Factor: FOXJ3; motif: TGTTTACNYW; motif: TGTTTACNYW	193	9	TRUE	8.32E-04	HPA:0461443	HPA	skin 1; fibrohistiocytic cells[High]	408	26	TRUE	3.25E-08
GO:0021604	GO:BP	cranial nerve structural organization	12	4	TRUE	8.92E-04	GO:0050900	GO:BP	leukocyte migration	396	20	TRUE	3.44E-08
GO:0098883	GO:BP	synapse pruning	14	4	TRUE	8.95E-04	GO:0031348	GO:BP	negative regulation of defense response	247	15	TRUE	3.62E-08
TF:M07357	TF	Factor: HNF-6; motif: RNNWAAATCAATA	225	11	TRUE	1.01E-03	REAC:R-HSA-87	REAC	Interferon gamma signaling	87	13	TRUE	4.65E-08
GO:0048770	GO:CC	pigment granule	111	7	TRUE	1.05E-03	GO:0030098	GO:BP	lymphocyte differentiation	434	20	TRUE	4.65E-08
GO:0042470	GO:CC	melanosome	111	7	TRUE	1.05E-03	GO:0002366	GO:BP	leukocyte activation involved in immune response	300	15	TRUE	5.06E-08
GO:0048638	GO:BP	regulation of developmental growth	322	5	TRUE	1.10E-03	HP:0001112	HP	Leber optic atrophy	10	8	TRUE	5.09E-08
GO:0040013	GO:BP	negative regulation of locomotion	336	13	TRUE	1.13E-03	GO:0015453	GO:MF	oxidoreduction-driven active transmembrane transport	66	10	TRUE	5.64E-08
GO:0010875	GO:BP	positive regulation of cholesterol efflux	26	5	TRUE	1.19E-03	GO:0002263	GO:BP	cell activation involved in immune response	304	15	TRUE	6.11E-08
GO:0046332	GO:MF	SMAD binding	78	7	TRUE	1.28E-03	HPA:0401332	HPA	rectum; mucosal lymphoid cells[2Mexican]	398	24	TRUE	1.06E-07
GO:0032535	GO:BP	regulation of cellular component size	376	6	TRUE	1.30E-03	GO:0050727	GO:BP	regulation of inflammatory response	375	19	TRUE	1.07E-07
GO:0005096	GO:MF	GTPase activator activity	271	11	TRUE	1.41E-03	GO:0002695	GO:BP	negative regulation of leukocyte activation	186	14	TRUE	1.55E-07
GO:0033700	GO:BP	phospholipid efflux	14	3	TRUE	1.57E-03	GO:0002478	GO:BP	antigen processing and presentation	38	8	TRUE	2.25E-07
GO:0032370	GO:BP	positive regulation of lipid transport	85	6	TRUE	1.72E-03	GO:0002819	GO:BP	regulation of adaptive immune response	202	14	TRUE	2.71E-07
GO:0035023	GO:BP	regulation of Rho protein signal transduction	88	5	TRUE	1.80E-03	GO:0051250	GO:BP	negative regulation of lymphocyte activation	160	13	TRUE	2.88E-07
GO:0046718	GO:BP	symbiont entry into host cell	156	8	TRUE	2.00E-03	HPA:0030442	HPA	appendix; non-germinal center cells[2Mexican]	263	20	TRUE	2.94E-07
GO:0005925	GO:CC	focal adhesion	422	13	TRUE	2.26E-03	GO:0098803	GO:CC	respiratory chain complex	93	10	TRUE	3.64E-07
GO:0006706	GO:BP	steroid catabolic process	24	2	TRUE	2.31E-03	GO:0005746	GO:CC	mitochondrial respirasome	96	10	TRUE	5.00E-07
TF:M09926_1	TF	Factor: HNF-3beta; motif: TGTTTACWYV	177	8	TRUE	2.50E-03	HP:0000631	HP	Retinal arterial tortuosity	12	8	TRUE	5.31E-07
GO:0055094	GO:BP	response to lipoprotein particle	30	5	TRUE	2.52E-03	HP:0007768	HP	Central retinal vessel vascular tortuosity	12	8	TRUE	5.31E-07
GO:0044409	GO:BP	symbiont entry into host	163	8	TRUE	2.78E-03	GO:0045619	GO:BP	regulation of lymphocyte differentiation	213	14	TRUE	5.47E-07
REAC:R-HSA-89	REAC	Plasma lipoprotein assembly	18	4	TRUE	3.14E-03	GO:0098800	GO:CC	inner mitochondrial membrane protein complex	162	12	TRUE	5.80E-07
GO:0033344	GO:BP	cholesterol efflux	56	6	TRUE	3.15E-03	HPA:0471443	HPA	skin 2; fibrohistiocytic cells[High]	467	26	TRUE	5.98E-07
REAC:R-HSA-16	REAC	Trafficking and processing of endosomal T cell growth	13	3	TRUE	3.21E-03	HPA:0131332	HPA	colon; mucosal lymphoid cells[2Mexican]	365	22	TRUE	6.22E-07
GO:0016049	GO:BP	cell growth	499	15	TRUE	3.30E-03	GO:0050866	GO:BP	negative regulation of cell activation	208	14	TRUE	6.82E-07
GO:0048762	GO:BP	mesenchymal cell differentiation	248	11	TRUE	3.42E-03	HPA:0030441	HPA	appendix; non-germinal center cells[2Mexican]	336	22	TRUE	6.88E-07

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_size	significant	adj_p_value	term_id	source	term_name	term_size	intersection_size	significant	adj_p_value
GO:0005788	GO:CC	endoplasmic reticulum lumen	313	11	TRUE	3.80E-03	GO:0046634	GO:BP	regulation of alpha-beta T cell activation	113	11	TRUE	7.26E-07
GO:0015850	GO:BP	organic hydroxy compound transport	286	6	TRUE	4.06E-03	GO:0031349	GO:BP	positive regulation of defense response	471	20	TRUE	7.42E-07
GO:0036019	GO:CC	endolysosome	29	3	TRUE	4.09E-03	GO:0045580	GO:BP	regulation of T cell differentiation	181	13	TRUE	8.11E-07
GO:0071402	GO:BP	cellular response to lipoprotein particle stimulation	33	5	TRUE	4.14E-03	GO:0002429	GO:BP	immune response-activating cell surface	299	15	TRUE	9.28E-07
GO:0034358	GO:CC	plasma lipoprotein particle	38	4	TRUE	4.26E-03	GO:0009055	GO:MF	electron transfer activity	115	11	TRUE	9.95E-07
GO:1990777	GO:CC	lipoprotein particle	38	4	TRUE	4.26E-03	GO:0070469	GO:CC	respirasome	104	10	TRUE	1.10E-06
GO:0010810	GO:BP	regulation of cell-substrate adhesion	215	10	TRUE	4.37E-03	GO:0002699	GO:BP	positive regulation of immune effector	250	15	TRUE	1.12E-06
GO:0038084	GO:BP	vascular endothelial growth factor signaling	45	5	TRUE	4.49E-03	GO:0048002	GO:BP	antigen processing and presentation	68	9	TRUE	1.21E-06
GO:0030139	GO:CC	endocytic vesicle	346	11	TRUE	4.70E-03	GO:0002822	GO:BP	regulation of adaptive immune response	187	13	TRUE	1.21E-06
TF:M09925_1	TF	Factor: HNF-3alpha; motif: TGTTTACWYV	193	8	TRUE	4.80E-03	GO:0030666	GO:CC	endocytic vesicle membrane	200	12	TRUE	1.31E-06
GO:0016032	GO:BP	viral process	429	14	TRUE	5.05E-03	GO:0032102	GO:BP	negative regulation of response to external	405	17	TRUE	1.36E-06
GO:0048532	GO:BP	anatomical structure arrangement	18	4	TRUE	5.37E-03	GO:0019884	GO:BP	antigen processing and presentation	47	8	TRUE	1.37E-06
GO:0034446	GO:BP	substrate adhesion-dependent cell spreading	101	7	TRUE	5.76E-03	GO:0006119	GO:BP	oxidative phosphorylation	145	12	TRUE	1.40E-06
GO:0032374	GO:BP	regulation of cholesterol transport	62	6	TRUE	5.78E-03	GO:0098553	GO:CC	luminal side of endoplasmic reticulum	25	6	TRUE	1.47E-06
GO:0032371	GO:BP	regulation of sterol transport	62	6	TRUE	5.78E-03	GO:0046633	GO:BP	alpha-beta T cell proliferation	47	8	TRUE	1.72E-06
GO:0060485	GO:BP	mesenchyme development	316	12	TRUE	5.79E-03	GO:0001906	GO:BP	cell killing	217	14	TRUE	1.98E-06
GO:0032994	GO:CC	protein-lipid complex	41	4	TRUE	5.80E-03	GO:0019646	GO:BP	aerobic electron transport chain	92	10	TRUE	2.62E-06
WP:WP4300	WP	Extracellular vesicles in the crosstalk of cancer	21	4	TRUE	5.96E-03	GO:0070665	GO:BP	positive regulation of leukocyte proliferation	164	12	TRUE	3.14E-06
REAC:R-HSA-21	REAC	Binding and Uptake of Ligands by Scavenger	97	6	TRUE	6.02E-03	GO:0002768	GO:BP	immune response-regulating cell surface	327	15	TRUE	3.17E-06
GO:0097006	GO:BP	regulation of plasma lipoprotein particle level	75	4	TRUE	6.13E-03	GO:0007229	GO:BP	integrin-mediated signaling pathway	117	8	TRUE	3.73E-06
GO:0019058	GO:BP	viral life cycle	320	12	TRUE	6.59E-03	GO:0050851	GO:BP	antigen receptor-mediated signaling pathway	191	12	TRUE	4.35E-06
GO:0010874	GO:BP	regulation of cholesterol efflux	37	5	TRUE	7.44E-03	HP:0200125	HP	Mitochondrial respiratory chain defect	20	9	TRUE	4.43E-06
GO:0032376	GO:BP	positive regulation of cholesterol transport	37	5	TRUE	7.44E-03	GO:0006909	GO:BP	phagocytosis	234	14	TRUE	4.45E-06
GO:0032373	GO:BP	positive regulation of sterol transport	37	5	TRUE	7.44E-03	GO:0007162	GO:BP	negative regulation of cell adhesion	285	15	TRUE	4.74E-06
GO:0045211	GO:CC	postsynaptic membrane	278	9	TRUE	8.13E-03	GO:0042102	GO:BP	positive regulation of T cell proliferation	103	10	TRUE	4.78E-06
GO:0072583	GO:BP	clathrin-dependent endocytosis	47	5	TRUE	8.14E-03	KEGG:05140	KEGG	Leishmaniasis	72	11	TRUE	5.07E-06
GO:0030301	GO:BP	cholesterol transport	111	6	TRUE	8.22E-03	GO:0002218	GO:BP	activation of innate immune response	279	15	TRUE	5.07E-06
GO:0008202	GO:BP	steroid metabolic process	325	6	TRUE	8.48E-03	GO:0030595	GO:BP	leukocyte chemotaxis	237	14	TRUE	5.70E-06
GO:0016323	GO:CC	basolateral plasma membrane	248	8	TRUE	8.68E-03	GO:0042775	GO:BP	mitochondrial ATP synthesis coupled	100	10	TRUE	5.97E-06
GO:0030336	GO:BP	negative regulation of cell migration	285	11	TRUE	8.78E-03	GO:0042773	GO:BP	ATP synthesis coupled electron transport	100	10	TRUE	5.97E-06
GO:0005044	GO:MF	scavenger receptor activity	50	4	TRUE	9.09E-03	GO:0042742	GO:BP	defense response to bacterium	325	16	TRUE	6.28E-06
GO:0030165	GO:MF	PDZ domain binding	85	6	TRUE	9.27E-03	GO:0046631	GO:BP	alpha-beta T cell activation	178	12	TRUE	7.99E-06
GO:0043535	GO:BP	regulation of blood vessel endothelial cell	91	5	TRUE	9.61E-03	GO:0006979	GO:BP	response to oxidative stress	393	17	TRUE	8.48E-06
GO:0007160	GO:BP	cell-matrix adhesion	235	10	TRUE	9.64E-03	GO:0019882	GO:BP	antigen processing and presentation	115	10	TRUE	8.76E-06
GO:0097746	GO:BP	blood vessel diameter maintenance	149	4	TRUE	9.93E-03	GO:0034341	GO:BP	response to type II interferon	146	11	TRUE	9.04E-06
GO:0035296	GO:BP	regulation of tube diameter	149	4	TRUE	9.93E-03	GO:0050671	GO:BP	positive regulation of lymphocyte proliferation	144	11	TRUE	9.71E-06
GO:0007044	GO:BP	cell-substrate junction assembly	96	7	TRUE	1.01E-02	GO:0002824	GO:BP	positive regulation of adaptive immune	120	10	TRUE	1.08E-05
GO:0035150	GO:BP	regulation of tube size	150	4	TRUE	1.02E-02	GO:0032946	GO:BP	positive regulation of mononuclear cell	147	11	TRUE	1.21E-05
GO:0050808	GO:BP	synapse organization	485	12	TRUE	1.02E-02	GO:0045089	GO:BP	positive regulation of innate immune	345	16	TRUE	1.22E-05
GO:0006869	GO:BP	lipid transport	435	13	TRUE	1.03E-02	GO:0030134	GO:CC	COPII-coated ER to Golgi transport vesicle	89	8	TRUE	1.22E-05
GO:0010324	GO:BP	membrane invagination	66	6	TRUE	1.07E-02	HP:0004309	HP	Ventricular preexcitation	29	10	TRUE	1.25E-05
GO:0048844	GO:BP	artery morphogenesis	71	3	TRUE	1.10E-02	GO:0012507	GO:CC	ER to Golgi transport vesicle membrane	59	7	TRUE	1.29E-05
GO:0034377	GO:BP	plasma lipoprotein particle assembly	26	3	TRUE	1.11E-02	GO:0098576	GO:CC	luminal side of membrane	36	6	TRUE	1.54E-05
GO:1900026	GO:BP	positive regulation of substrate adhesion-dependent	43	5	TRUE	1.23E-02	GO:0030139	GO:CC	endocytic vesicle	346	14	TRUE	1.55E-05
GO:0008361	GO:BP	regulation of cell size	195	4	TRUE	1.24E-02	GO:0002758	GO:BP	innate immune response-activating signal	258	14	TRUE	1.56E-05
GO:0050750	GO:MF	low-density lipoprotein particle receptor binding	24	4	TRUE	1.36E-02	REAC:R-HSA-91	REAC	Interferon Signaling	193	15	TRUE	1.72E-05
GO:0005905	GO:CC	clathrin-coated pit	76	5	TRUE	1.41E-02	GO:0002821	GO:BP	positive regulation of adaptive immune	126	10	TRUE	1.73E-05
GO:0030100	GO:BP	regulation of endocytosis	283	7	TRUE	1.42E-02	GO:0002274	GO:BP	myeloid leukocyte activation	238	13	TRUE	2.26E-05
GO:2000146	GO:BP	negative regulation of cell motility	301	11	TRUE	1.47E-02	GO:1902107	GO:BP	positive regulation of leukocyte differentiation	187	12	TRUE	2.36E-05
GO:0150146	GO:BP	cell junction disassembly	27	4	TRUE	1.50E-02	GO:1903708	GO:BP	positive regulation of hemopoiesis	187	12	TRUE	2.36E-05
GO:0005178	GO:MF	integrin binding	158	8	TRUE	1.53E-02	GO:0022408	GO:BP	negative regulation of cell-cell adhesion	189	12	TRUE	2.47E-05
REAC:R-HSA-90	REAC	NR1H3 & NR1H2 regulate gene expression	36	5	TRUE	1.53E-02	GO:0018108	GO:BP	peptidyl-tyrosine phosphorylation	258	13	TRUE	2.52E-05
GO:0061387	GO:BP	regulation of extent of cell growth	113	3	TRUE	1.54E-02	HPA:0131333	HPA	colon; mucosal lymphoid cells[High]	155	13	TRUE	2.62E-05
GO:0065005	GO:BP	protein-lipid complex assembly	29	3	TRUE	1.56E-02	GO:0018212	GO:BP	peptidyl-tyrosine modification	260	13	TRUE	2.76E-05
GO:0015918	GO:BP	sterol transport	124	6	TRUE	1.56E-02	GO:0002833	GO:BP	positive regulation of response to biological	369	16	TRUE	3.15E-05
GO:0061448	GO:BP	connective tissue development	291	11	TRUE	1.58E-02	GO:0046640	GO:BP	regulation of alpha-beta T cell proliferation	44	7	TRUE	3.26E-05
GO:0150115	GO:BP	cell-substrate junction organization	103	7	TRUE	1.62E-02	GO:0019883	GO:BP	antigen processing and presentation	31	6	TRUE	3.99E-05
HPA:0461431	HPA	skin 1; extracellular matrix[Low]	60	4	TRUE	1.74E-02	GO:0005884	GO:CC	actin filament	121	9	TRUE	4.13E-05
TF:M04259_1	TF	Factor: FOXO3; motif: GTAACAAW; match	165	8	TRUE	1.78E-02	GO:0022904	GO:BP	respiratory electron transport chain	122	10	TRUE	4.14E-05

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_siz	significant	adj_p_value	term_id	source	term_name	term_size	intersection_siz	significant	adj_p_value
GO:0051701	GO:BP	biological process involved in interaction w	211	8	TRUE	1.88E-02	GO:0002703	GO:BP	regulation of leukocyte mediated imm	243	12	TRUE	4.14E-05
GO:0008045	GO:BP	motor neuron axon guidance	26	4	TRUE	1.93E-02	KEGG:05416	KEGG	Viral myocarditis	63	9	TRUE	4.17E-05
GO:0007266	GO:BP	Rho protein signal transduction	143	5	TRUE	1.96E-02	GO:0009060	GO:BP	aerobic respiration	196	12	TRUE	4.28E-05
GO:0043113	GO:BP	receptor clustering	59	5	TRUE	2.11E-02	GO:0042776	GO:BP	proton motive force-driven mitochonc	66	8	TRUE	5.01E-05
GO:0043534	GO:BP	blood vessel endothelial cell migration	117	7	TRUE	2.16E-02	GO:0002285	GO:BP	lymphocyte activation involved in imm	211	12	TRUE	5.36E-05
GO:0044403	GO:BP	biological process involved in symbiotic int	319	10	TRUE	2.21E-02	GO:0046635	GO:BP	positive regulation of alpha-beta T ce	71	8	TRUE	5.95E-05
GO:0030169	GO:MF	low-density lipoprotein particle binding	16	3	TRUE	2.23E-02	GO:0071674	GO:BP	mononuclear cell migration	205	12	TRUE	6.10E-05
TF:M01261_1	TF	Factor: HNF3A; motif: RWGTAAACAN; m	367	10	TRUE	2.31E-02	GO:0009615	GO:BP	response to virus	406	16	TRUE	6.20E-05
GO:0010811	GO:BP	positive regulation of cell-substrate adhesi	125	7	TRUE	2.36E-02	GO:0030217	GO:BP	T cell differentiation	308	14	TRUE	6.23E-05
GO:0005583	GO:CC	fibrillar collagen trimer	12	3	TRUE	2.44E-02	REAC:R-HSA-12	REAC	Endosomal/Vacuolar pathway	11	5	TRUE	6.59E-05
GO:0098643	GO:CC	banded collagen fibril	12	3	TRUE	2.44E-02	WP:WP111	WP	Electron transport chain OXPHOS sy	104	12	TRUE	7.47E-05
GO:0090287	GO:BP	regulation of cellular response to growth fa	318	11	TRUE	2.47E-02	HP:0003200	HP	Ragged-red muscle fibers	54	12	TRUE	9.82E-05
GO:0034380	GO:BP	high-density lipoprotein particle assembly	12	2	TRUE	2.48E-02	HP:0007763	HP	Retinal telangiectasia	27	9	TRUE	1.02E-04
GO:0030175	GO:CC	filopodium	107	6	TRUE	2.55E-02	GO:1903038	GO:BP	negative regulation of leukocyte cell-	136	10	TRUE	1.03E-04
GO:0035924	GO:BP	cellular response to vascular endothelial g	64	5	TRUE	2.61E-02	GO:0006754	GO:BP	ATP biosynthetic process	102	9	TRUE	1.12E-04
WP:WP5090	WP	Complement system in neuronal developn	106	5	TRUE	2.64E-02	GO:0045335	GO:CC	phagocytic vesicle	143	9	TRUE	1.14E-04
WP:WP430	WP	Statin inhibition of cholesterol production	31	3	TRUE	2.64E-02	HPA:0401333	HPA	rectum; mucosal lymphoid cells[High]	176	13	TRUE	1.15E-04
WP:WP545	WP	Complement activation	22	3	TRUE	2.64E-02	GO:0022900	GO:BP	electron transport chain	175	11	TRUE	1.28E-04
GO:0051590	GO:BP	positive regulation of neurotransmitter tran	23	4	TRUE	2.72E-02	GO:1990204	GO:CC	oxidoreductase complex	132	9	TRUE	1.37E-04
GO:0034362	GO:CC	low-density lipoprotein particle	13	2	TRUE	2.78E-02	GO:0006935	GO:BP	chemotaxis	463	17	TRUE	1.37E-04
GO:0003018	GO:BP	vascular process in circulatory system	271	10	TRUE	2.78E-02	GO:0042605	GO:MF	peptide antigen binding	42	6	TRUE	1.45E-04
HPA:0471431	HPA	skin 2; extracellular matrix[Low]	68	4	TRUE	2.84E-02	GO:0042330	GO:BP	taxis	465	17	TRUE	1.46E-04
GO:0034103	GO:BP	regulation of tissue remodeling	76	6	TRUE	2.85E-02	KEGG:04612	KEGG	Antigen processing and presentation	69	9	TRUE	1.51E-04
WP:WP4522	WP	Metabolic pathway of LDL HDL and TG inc	17	2	TRUE	2.88E-02	GO:0001916	GO:BP	positive regulation of T cell mediated	38	6	TRUE	1.59E-04
GO:0070325	GO:MF	lipoprotein particle receptor binding	29	4	TRUE	2.97E-02	GO:0010950	GO:BP	positive regulation of endopeptidase	138	10	TRUE	1.61E-04
GO:0010876	GO:BP	lipid localization	483	10	TRUE	3.01E-02	GO:0015986	GO:BP	proton motive force-driven ATP synth	77	8	TRUE	1.71E-04
GO:0060837	GO:BP	blood vessel endothelial cell differentiation	12	2	TRUE	3.03E-02	GO:0002443	GO:BP	leukocyte mediated immunity	460	15	TRUE	1.73E-04
GO:0010977	GO:BP	negative regulation of neuron projection de	143	4	TRUE	3.04E-02	GO:0052548	GO:BP	regulation of endopeptidase activity	219	12	TRUE	1.80E-04
GO:0140058	GO:BP	neuron projection arborization	32	4	TRUE	0.03128343863	HP:0007327	HP	Mixed demyelinating and axonal poly	10	6	TRUE	1.90E-04
GO:0060840	GO:BP	artery development	102	3	TRUE	0.03290127982	GO:0032680	GO:BP	regulation of tumor necrosis factor pr	163	10	TRUE	2.01E-04
GO:0021610	GO:BP	facial nerve morphogenesis	11	3	TRUE	0.03290127982	GO:0032640	GO:BP	tumor necrosis factor production	163	10	TRUE	2.01E-04
GO:0021561	GO:BP	facial nerve development	11	3	TRUE	0.03290127982	GO:0034774	GO:CC	secretory granule lumen	320	13	TRUE	2.02E-04
TF:M11547_1	TF	Factor: foxo4; motif: NCGTMMACAN; mat	420	10	TRUE	0.0332375734	GO:0030670	GO:CC	phagocytic vesicle membrane	81	7	TRUE	2.24E-04
TF:M12607_1	TF	Factor: FOXO1A; motif: NGTAAACAN; m	471	11	TRUE	0.0339576402	GO:0060205	GO:CC	cytoplasmic vesicle lumen	323	13	TRUE	2.24E-04
GO:0001540	GO:MF	amyloid-beta binding	84	4	TRUE	0.03399949057	GO:0031983	GO:CC	vesicle lumen	324	13	TRUE	2.32E-04
GO:0048639	GO:BP	positive regulation of developmental growt	165	8	TRUE	0.03416582149	GO:0050852	GO:BP	T cell receptor signaling pathway	138	9	TRUE	2.40E-04
GO:0043537	GO:BP	negative regulation of blood vessel endoth	34	3	TRUE	0.03433893911	GO:0060326	GO:BP	cell chemotaxis	320	14	TRUE	2.48E-04
TF:M04255_1	TF	Factor: FOXO1; motif: GTAAACAW; match	472	11	TRUE	0.03463652493	HP:0100611	HP	Multiple glomerular cysts	10	6	TRUE	2.51E-04
GO:1903035	GO:BP	negative regulation of response to woundin	94	2	TRUE	0.03660309814	GO:0071706	GO:BP	tumor necrosis factor superfamily cyt	168	10	TRUE	2.67E-04
TF:M12606_1	TF	Factor: FOXK1; motif: GTAAACA; match c	475	11	TRUE	0.03674460334	GO:1903555	GO:BP	regulation of tumor necrosis factor su	168	10	TRUE	2.67E-04
TF:M04267_1	TF	Factor: FOXP3; motif: RTAAACA; match c	475	11	TRUE	0.03674460334	GO:0009206	GO:BP	purine ribonucleoside triphosphate bi	113	9	TRUE	2.72E-04
TF:M04265_1	TF	Factor: FOXO6; motif: GTAAACA; match c	475	11	TRUE	0.03674460334	GO:0098562	GO:CC	cytoplasmic side of membrane	212	10	TRUE	2.93E-04
TF:M04253_1	TF	Factor: FOXL1; motif: RTAAACA; match c	475	11	TRUE	0.03674460334	GO:0009145	GO:BP	purine nucleoside triphosphate biosy	114	9	TRUE	2.94E-04
TF:M04239_1	TF	Factor: FOXD2; motif: GTAAACA; match c	475	11	TRUE	0.03674460334	GO:0010952	GO:BP	positive regulation of peptidase activi	148	10	TRUE	3.11E-04
TF:M04244_1	TF	Factor: FOXK1; motif: GTAAACA; match c	475	11	TRUE	0.03674460334	GO:0042113	GO:BP	B cell activation	281	12	TRUE	3.14E-04
GO:0120020	GO:MF	cholesterol transfer activity	23	2	TRUE	0.03695451323	GO:0071346	GO:BP	cellular response to type II interferon	124	9	TRUE	3.23E-04
GO:0001952	GO:BP	regulation of cell-matrix adhesion	121	7	TRUE	0.03717930857	GO:0002286	GO:BP	T cell activation involved in immune r	122	8	TRUE	3.29E-04
GO:0007229	GO:BP	integrin-mediated signaling pathway	117	7	TRUE	0.03726875998	KEGG:05415	KEGG	Diabetic cardiomyopathy	202	15	TRUE	3.40E-04
GO:0098858	GO:CC	actin-based cell projection	223	8	TRUE	0.03784947216	GO:0050730	GO:BP	regulation of peptidyl-tyrosine phosph	220	11	TRUE	3.68E-04
WP:WP5323	WP	Fatty Acids and Lipoproteins Transport in l	35	3	TRUE	0.03811175951	GO:0000302	GO:BP	response to reactive oxygen species	197	11	TRUE	3.98E-04
GO:0036465	GO:BP	synaptic vesicle recycling	83	6	TRUE	0.03885899845	GO:0050672	GO:BP	negative regulation of lymphocyte pro	87	8	TRUE	4.05E-04
GO:0048813	GO:BP	dendrite morphogenesis	142	7	TRUE	0.03981261998	GO:0004715	GO:MF	non-membrane spanning protein tyro	45	6	TRUE	4.19E-04
GO:0120015	GO:MF	sterol transfer activity	24	2	TRUE	0.04030337483	GO:0002483	GO:BP	antigen processing and presentation	24	5	TRUE	4.23E-04
TF:M09619_1	TF	Factor: HNF-3beta; motif: TGTTTACWYW	258	8	TRUE	0.04067436818	GO:0097529	GO:BP	myeloid leukocyte migration	237	12	TRUE	4.23E-04
GO:0010596	GO:BP	negative regulation of endothelial cell migr	52	5	TRUE	0.0410272677	GO:0009201	GO:BP	ribonucleoside triphosphate biosynth	119	9	TRUE	4.25E-04
HPA:0471443	HPA	skin 2; fibrohistiocytic cells[High]	467	10	TRUE	0.04135899447	GO:0032945	GO:BP	negative regulation of mononuclear c	88	8	TRUE	4.42E-04
GO:0034381	GO:BP	plasma lipoprotein particle clearance	40	3	TRUE	0.04167383498	KEGG:04145	KEGG	Phagosome	147	12	TRUE	4.48E-04
REAC:R-HSA-89	REAC	Post-translational protein phosphorylation	107	2	TRUE	0.04307872859	GO:0031343	GO:BP	positive regulation of cell killing	73	7	TRUE	4.49E-04
TF:M00290_1	TF	Factor: Freac-2; motif: NNANNGTAAACA/	269	7	TRUE	0.04487420878	GO:0015399	GO:MF	primary active transmembrane transp	166	10	TRUE	4.61E-04

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_size	significant	adj_p_value	term_id	source	term_name	term_size	intersection_size	significant	adj_p_value
REAC:R-HSA-90	REAC	NR1H2 and NR1H3-mediated signaling	45	5	TRUE	0.04589567028	GO:0045333	GO:BP	cellular respiration	244	12	TRUE	4.70E-04
GO:0045177	GO:CC	apical part of cell	473	6	TRUE	0.04672655958	GO:0009898	GO:CC	cytoplasmic side of plasma membrane	173	9	TRUE	4.70E-04
GO:0072148	GO:BP	epithelial cell fate commitment	15	2	TRUE	0.04818123519	GO:0008137	GO:MF	NADH dehydrogenase (ubiquinone) h	41	6	TRUE	4.89E-04
GO:0048041	GO:BP	focal adhesion assembly	85	6	TRUE	0.0481922462	KEGG:00190	KEGG	Oxidative phosphorylation	134	12	TRUE	4.92E-04
GO:0042627	GO:CC	chylomicron	13	2	TRUE	0.0486976073	GO:0071216	GO:BP	cellular response to biotic stimulus	250	10	TRUE	5.00E-04
GO:0050678	GO:BP	regulation of epithelial cell proliferation	363	11	TRUE	0.04910730287	GO:0071675	GO:BP	regulation of mononuclear cell migration	123	9	TRUE	5.05E-04
GO:0007409	GO:BP	axonogenesis	466	13	TRUE	0.0491854355	GO:0001933	GO:BP	negative regulation of protein phosphorylation	270	12	TRUE	5.37E-04
TF:M00292_1	TF	Factor: Freac-4; motif: CTWAWGTAAACA	253	10	TRUE	0.04976155288	GO:0050136	GO:MF	NADH dehydrogenase (quinone) activity	42	6	TRUE	5.67E-04
							GO:0052547	GO:BP	regulation of peptidase activity	244	12	TRUE	5.78E-04
							GO:0050868	GO:BP	negative regulation of T cell activation	125	9	TRUE	5.79E-04
							GO:0042613	GO:CC	MHC class II protein complex	17	4	TRUE	5.81E-04
							GO:0001914	GO:BP	regulation of T cell mediated cytotoxicity	47	6	TRUE	5.93E-04
							GO:0098798	GO:CC	mitochondrial protein-containing complex	306	12	TRUE	6.15E-04
							GO:0045271	GO:CC	respiratory chain complex I	53	6	TRUE	6.52E-04
							GO:0030964	GO:CC	NADH dehydrogenase complex	53	6	TRUE	6.52E-04
							GO:0005747	GO:CC	mitochondrial respiratory chain complex	53	6	TRUE	6.52E-04
							GO:0045621	GO:BP	positive regulation of lymphocyte differentiation	132	9	TRUE	6.56E-04
							GO:0002460	GO:BP	adaptive immune response based on antigen	375	14	TRUE	6.94E-04
							GO:0009142	GO:BP	nucleoside triphosphate biosynthetic process	127	9	TRUE	7.40E-04
							GO:0003954	GO:MF	NADH dehydrogenase activity	44	6	TRUE	7.53E-04
							GO:0032635	GO:BP	interleukin-6 production	151	9	TRUE	7.72E-04
							GO:0032675	GO:BP	regulation of interleukin-6 production	151	9	TRUE	7.72E-04
							HP:0012766	HP	Widened cerebral subarachnoid space	12	6	TRUE	7.96E-04
							GO:0001909	GO:BP	leukocyte mediated cytotoxicity	133	9	TRUE	8.30E-04
							GO:0002237	GO:BP	response to molecule of bacterial origin	354	14	TRUE	8.42E-04
							GO:0003955	GO:MF	NAD(P)H dehydrogenase (quinone) activity	45	6	TRUE	8.64E-04
							GO:0070664	GO:BP	negative regulation of leukocyte proliferation	96	8	TRUE	8.69E-04
							REAC:R-HSA-16	REAC	Respiratory electron transport, ATP synthase	127	11	TRUE	8.69E-04
							GO:0046641	GO:BP	positive regulation of alpha-beta T cell activation	25	5	TRUE	8.99E-04
							HP:0003737	HP	Mitochondrial myopathy	54	11	TRUE	9.17E-04
							HP:0007924	HP	Slow decrease in visual acuity	34	9	TRUE	9.49E-04
							GO:0031400	GO:BP	negative regulation of protein modification	400	14	TRUE	9.83E-04
							KEGG:05208	KEGG	Chemical carcinogenesis - reactive oxygen species	221	15	TRUE	1.02E-03
							HP:0000622	HP	Blurred vision	44	10	TRUE	1.04E-03
							GO:0042326	GO:BP	negative regulation of phosphorylation	288	12	TRUE	1.07E-03
							GO:0002468	GO:BP	dendritic cell antigen processing and presentation	15	4	TRUE	1.13E-03
							KEGG:04514	KEGG	Cell adhesion molecules	153	11	TRUE	1.28E-03
							REAC:R-HSA-12	REAC	Antigen processing-Cross presentation	105	10	TRUE	1.30E-03
							GO:0002440	GO:BP	production of molecular mediator of inflammation	220	10	TRUE	1.37E-03
							REAC:R-HSA-44	REAC	Signaling by Interleukins	471	21	TRUE	1.37E-03
							GO:2000116	GO:BP	regulation of cysteine-type endopeptidase activity	174	10	TRUE	1.39E-03
							HP:0007067	HP	Distal peripheral sensory neuropathy	13	6	TRUE	1.44E-03
							HP:0005157	HP	Concentric hypertrophic cardiomyopathy	13	6	TRUE	1.44E-03
							GO:0001913	GO:BP	T cell mediated cytotoxicity	55	6	TRUE	1.54E-03
							HP:0005116	HP	Arterial tortuosity	27	8	TRUE	1.59E-03
							GO:0045862	GO:BP	positive regulation of proteolysis	320	13	TRUE	1.62E-03
							GO:0006887	GO:BP	exocytosis	346	13	TRUE	1.71E-03
							GO:0002685	GO:BP	regulation of leukocyte migration	230	11	TRUE	1.74E-03
							GO:0008305	GO:CC	integrin complex	32	4	TRUE	1.74E-03
							GO:0019886	GO:BP	antigen processing and presentation	28	5	TRUE	1.82E-03
							REAC:R-HSA-90	REAC	Interferon alpha/beta signaling	71	8	TRUE	1.90E-03
							TF:M12544_1	TF	Factor: ELF3; motif: NNCCACTTCCCT	384	14	TRUE	1.98E-03
							GO:0005767	GO:CC	secondary lysosome	21	4	TRUE	1.99E-03
							GO:0010720	GO:BP	positive regulation of cell development	450	15	TRUE	2.01E-03
							GO:0002431	GO:BP	Fc receptor mediated stimulatory signaling	32	5	TRUE	2.09E-03
							GO:0050731	GO:BP	positive regulation of peptidyl-tyrosine phosphorylation	163	9	TRUE	2.14E-03
							GO:0015980	GO:BP	energy derivation by oxidation of organic compounds	335	13	TRUE	2.18E-03
							HPA:0030443	HPA	appendix; non-germinal center cells[follicle]	105	9	TRUE	2.20E-03
							GO:0034614	GO:BP	cellular response to reactive oxygen species	146	9	TRUE	2.27E-03

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_size	significant	adj_p_value	term_id	source	term_name	term_size	intersection_size	significant	adj_p_value
							HP:0002401	HP	Stroke-like episode	21	7	TRUE	2.34E-03
							HP:0007159	HP	Fluctuations in consciousness	14	6	TRUE	2.46E-03
							REAC:R-HSA-67	REAC	Neutrophil degranulation	476	21	TRUE	2.71E-03
							HP:0000590	HP	Progressive external ophthalmoplegia	30	8	TRUE	2.73E-03
							GO:0043299	GO:BP	leukocyte degranulation	82	6	TRUE	2.75E-03
							GO:0030041	GO:BP	actin filament polymerization	168	9	TRUE	2.75E-03
							GO:0032496	GO:BP	response to lipopolysaccharide	336	13	TRUE	2.80E-03
							GO:0045582	GO:BP	positive regulation of T cell differentiation	117	8	TRUE	2.91E-03
							GO:0019221	GO:BP	cytokine-mediated signaling pathway	499	15	TRUE	3.07E-03
							GO:0002428	GO:BP	antigen processing and presentation	16	4	TRUE	3.31E-03
							HP:0008316	HP	Abnormal mitochondria in muscle tissue	39	9	TRUE	3.35E-03
							GO:0006120	GO:BP	mitochondrial electron transport, NADH dehydrogenase complex	51	6	TRUE	3.43E-03
							GO:0002698	GO:BP	negative regulation of immune effect	120	8	TRUE	3.52E-03
							GO:0002221	GO:BP	pattern recognition receptor signaling	241	11	TRUE	3.53E-03
							GO:0002474	GO:BP	antigen processing and presentation	36	5	TRUE	3.54E-03
							GO:0016655	GO:MF	oxidoreductase activity, acting on NADH	57	6	TRUE	3.57E-03
							GO:0007015	GO:BP	actin filament organization	463	14	TRUE	3.58E-03
							GO:0002495	GO:BP	antigen processing and presentation	32	5	TRUE	3.66E-03
							GO:0045055	GO:BP	regulated exocytosis	227	10	TRUE	3.69E-03
							GO:0016651	GO:MF	oxidoreductase activity, acting on NADH	88	7	TRUE	3.78E-03
							HPA:0461473	HPA	skin 1; lymphocytes[High]	394	16	TRUE	3.98E-03
							GO:0034612	GO:BP	response to tumor necrosis factor	249	11	TRUE	4.01E-03
							WP:WP286	WP	IL 3 signaling pathway	48	7	TRUE	4.12E-03
							GO:0051607	GO:BP	defense response to virus	312	12	TRUE	4.41E-03
							GO:0002705	GO:BP	positive regulation of leukocyte mediated immunity	146	8	TRUE	4.55E-03
							GO:0002711	GO:BP	positive regulation of T cell mediated immunity	66	6	TRUE	4.57E-03
							GO:0001912	GO:BP	positive regulation of leukocyte mediated immunity	66	6	TRUE	4.57E-03
							GO:0003779	GO:MF	actin binding	443	13	TRUE	4.63E-03
							GO:0048872	GO:BP	homeostasis of number of cells	321	12	TRUE	4.78E-03
							GO:0050728	GO:BP	negative regulation of inflammatory response	163	9	TRUE	4.81E-03
							GO:1901653	GO:BP	cellular response to peptide	364	13	TRUE	5.06E-03
							GO:0051770	GO:BP	positive regulation of nitric-oxide synthase activity	16	4	TRUE	5.09E-03
							HP:0004948	HP	Vascular tortuosity	31	8	TRUE	5.09E-03
							GO:0009144	GO:BP	purine nucleoside triphosphate metabolic process	254	11	TRUE	5.18E-03
							HP:0003572	HP	Low plasma citrulline	15	6	TRUE	5.25E-03
							HP:0000816	HP	Abnormality of Krebs cycle metabolism	15	6	TRUE	5.25E-03
							HP:0002572	HP	Episodic vomiting	52	10	TRUE	5.33E-03
							GO:0031341	GO:BP	regulation of cell killing	105	7	TRUE	5.36E-03
							GO:2001056	GO:BP	positive regulation of cysteine-type protein phosphorylation	119	8	TRUE	5.67E-03
							WP:WP619	WP	Type II interferon signaling	37	6	TRUE	5.87E-03
							REAC:R-HSA-97	REAC	Inactivation of CSF3 (G-CSF) signaling	25	5	TRUE	5.90E-03
							HP:0001716	HP	Wolff-Parkinson-White syndrome	24	7	TRUE	6.47E-03
							GO:0002504	GO:BP	antigen processing and presentation	36	5	TRUE	6.70E-03
							GO:0097305	GO:BP	response to alcohol	260	11	TRUE	6.90E-03
							REAC:R-HSA-61	REAC	Respiratory electron transport	103	9	TRUE	7.17E-03
							GO:0032655	GO:BP	regulation of interleukin-12 production	62	6	TRUE	7.18E-03
							GO:0032615	GO:BP	interleukin-12 production	62	6	TRUE	7.18E-03
							HPA:0471463	HPA	skin 2; langerhans cells[High]	266	14	TRUE	7.23E-03
							GO:0030099	GO:BP	myeloid cell differentiation	437	14	TRUE	7.33E-03
							GO:0002886	GO:BP	regulation of myeloid leukocyte mediated immunity	59	5	TRUE	7.38E-03
							HPA:0030433	HPA	appendix; germinal center cells[High]	92	8	TRUE	7.39E-03
							GO:0002832	GO:BP	negative regulation of response to biotic stimulus	112	7	TRUE	7.41E-03
							GO:0002718	GO:BP	regulation of cytokine production involved in immunity	118	7	TRUE	7.52E-03
							GO:0002367	GO:BP	cytokine production involved in immunity	118	7	TRUE	7.52E-03
							GO:0023026	GO:MF	MHC class II protein complex binding	24	4	TRUE	7.62E-03
							GO:0002861	GO:BP	regulation of inflammatory response	43	5	TRUE	7.76E-03
							GO:0045429	GO:BP	positive regulation of nitric oxide biosynthesis	38	5	TRUE	7.94E-03
							GO:0002437	GO:BP	inflammatory response to antigenic stimulus	76	6	TRUE	8.28E-03
							KEGG:05012	KEGG	Parkinson disease	265	15	TRUE	8.43E-03

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_size	significant	adj_p_value	term_id	source	term_name	term_size	intersection_size	significant	adj_p_value
							GO:0030183	GO:BP	B cell differentiation	159	8	TRUE	8.58E-03
							GO:0050853	GO:BP	B cell receptor signaling pathway	71	6	TRUE	8.83E-03
							GO:0032623	GO:BP	interleukin-2 production	63	6	TRUE	8.88E-03
							GO:0032663	GO:BP	regulation of interleukin-2 production	63	6	TRUE	8.88E-03
							GO:1904407	GO:BP	positive regulation of nitric oxide metabolism	39	5	TRUE	9.06E-03
							GO:0005925	GO:CC	focal adhesion	422	12	TRUE	9.14E-03
							HPA:0471473	HPA	skin 2; lymphocytes[High]	456	18	TRUE	9.14E-03
							GO:0043123	GO:BP	positive regulation of canonical NF-kappaB signaling	207	9	TRUE	9.29E-03
							GO:0009141	GO:BP	nucleoside triphosphate metabolic process	270	11	TRUE	9.29E-03
							GO:0045936	GO:BP	negative regulation of phosphate metabolism	355	12	TRUE	9.34E-03
							KEGG:04650	KEGG	Natural killer cell mediated cytotoxicity	124	9	TRUE	9.42E-03
							HP:0012429	HP	Aplasia/Hypoplasia of the cerebral white matter	17	6	TRUE	9.42E-03
							HP:0025268	HP	Stuttering	17	6	TRUE	9.42E-03
							GO:0010563	GO:BP	negative regulation of phosphorus metabolism	356	12	TRUE	9.61E-03
							GO:0051345	GO:BP	positive regulation of hydrolase activity	378	13	TRUE	1.01E-02
							GO:0008154	GO:BP	actin polymerization or depolymerization	197	9	TRUE	1.02E-02
							KEGG:05330	KEGG	Allograft rejection	34	5	TRUE	1.03E-02
							GO:0071621	GO:BP	granulocyte chemotaxis	129	8	TRUE	1.03E-02
							GO:1904813	GO:CC	ficolin-1-rich granule lumen	124	7	TRUE	1.04E-02
							GO:0002720	GO:BP	positive regulation of cytokine production	81	6	TRUE	1.04E-02
							GO:0051769	GO:BP	regulation of nitric-oxide synthase biosynthesis	19	4	TRUE	1.07E-02
							GO:0051767	GO:BP	nitric-oxide synthase biosynthetic process	19	4	TRUE	1.07E-02
							KEGG:05020	KEGG	Prion disease	271	15	TRUE	1.08E-02
							GO:0001818	GO:BP	negative regulation of cytokine production	290	11	TRUE	1.10E-02
							WP:WP4919	WP	Neuroinflammation	13	4	TRUE	1.14E-02
							GO:0030055	GO:CC	cell-substrate junction	432	12	TRUE	1.15E-02
							GO:0001891	GO:CC	phagocytic cup	28	4	TRUE	1.17E-02
							GO:0006809	GO:BP	nitric oxide biosynthetic process	71	6	TRUE	1.19E-02
							HPA:0030432	HPA	appendix; germinal center cells[≥Mec]	227	12	TRUE	1.23E-02
							HP:0004885	HP	Episodic respiratory distress	17	6	TRUE	1.23E-02
							KEGG:05152	KEGG	Tuberculosis	175	11	TRUE	1.25E-02
							HP:0012841	HP	Retinal vascular tortuosity	57	10	TRUE	1.27E-02
							GO:0019885	GO:BP	antigen processing and presentation	22	4	TRUE	1.30E-02
							GO:0043409	GO:BP	negative regulation of MAPK cascade	158	8	TRUE	1.30E-02
							GO:0043122	GO:BP	regulation of canonical NF-kappaB signaling	274	10	TRUE	1.30E-02
							GO:2000403	GO:BP	positive regulation of lymphocyte migration	44	5	TRUE	1.34E-02
							GO:0071222	GO:BP	cellular response to lipopolysaccharide	214	8	TRUE	1.35E-02
							GO:0038096	GO:BP	Fc-gamma receptor signaling pathway	23	4	TRUE	1.42E-02
							GO:0002433	GO:BP	immune response-regulating cell surface receptor activity	23	4	TRUE	1.42E-02
							GO:0042608	GO:MF	T cell receptor binding	11	3	TRUE	1.43E-02
							GO:0045824	GO:BP	negative regulation of innate immune response	82	6	TRUE	1.49E-02
							REAC:R-HSA-96	REAC	Signaling by CSF3 (G-CSF)	30	5	TRUE	1.50E-02
							GO:0031252	GO:CC	cell leading edge	427	12	TRUE	1.52E-02
							GO:0002475	GO:BP	antigen processing and presentation	23	4	TRUE	1.56E-02
							KEGG:05332	KEGG	Graft-versus-host disease	37	5	TRUE	1.57E-02
							GO:0002456	GO:BP	T cell mediated immunity	124	7	TRUE	1.61E-02
							GO:2001185	GO:BP	regulation of CD8-positive, alpha-beta T cell mediated immunity	20	4	TRUE	1.62E-02
							GO:1904724	GO:CC	tertiary granule lumen	55	5	TRUE	1.63E-02
							GO:0045622	GO:BP	regulation of T-helper cell differentiation	41	5	TRUE	1.64E-02
							GO:0001911	GO:BP	negative regulation of leukocyte mediated immunity	23	4	TRUE	1.66E-02
							GO:0046209	GO:BP	nitric oxide metabolic process	76	6	TRUE	1.77E-02
							HP:0003481	HP	Segmental peripheral demyelination/	18	6	TRUE	1.80E-02
							GO:0030658	GO:CC	transport vesicle membrane	235	8	TRUE	1.80E-02
							GO:0101002	GO:CC	ficolin-1-rich granule	184	8	TRUE	1.82E-02
							WP:WP623	WP	Oxidative phosphorylation	60	7	TRUE	1.87E-02
							GO:0071219	GO:BP	cellular response to molecule of bacterial origin	224	8	TRUE	1.88E-02
							GO:2001057	GO:BP	reactive nitrogen species metabolic process	77	6	TRUE	1.91E-02
							HP:0100027	HP	Recurrent pancreatitis	19	6	TRUE	1.97E-02
							HP:0001045	HP	Vitiligo	28	7	TRUE	2.00E-02

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_size	significant	adj_p_value	term_id	source	term_name	term_size	intersection_size	significant	adj_p_value
							GO:0098636	GO:CC	protein complex involved in cell adhe	59	4	TRUE	2.05E-02
							REAC:R-HSA-14	REAC	The citric acid (TCA) cycle and respir	177	11	TRUE	2.07E-02
							GO:2000401	GO:BP	regulation of lymphocyte migration	70	6	TRUE	2.07E-02
							GO:0034599	GO:BP	cellular response to oxidative stress	242	10	TRUE	2.10E-02
							GO:0042267	GO:BP	natural killer cell mediated cytotoxicit	72	6	TRUE	2.18E-02
							REAC:R-HSA-12	REAC	ER-Phagosome pathway	90	8	TRUE	2.18E-02
							GO:0005178	GO:MF	integrin binding	158	7	TRUE	2.22E-02
							KEGG:04940	KEGG	Type I diabetes mellitus	40	5	TRUE	2.28E-02
							GO:0001774	GO:BP	microglial cell activation	47	5	TRUE	2.31E-02
							GO:0009897	GO:CC	external side of plasma membrane	384	10	TRUE	2.32E-02
							REAC:R-HSA-96	REAC	Signaling by KIT in disease	17	4	TRUE	2.32E-02
							REAC:R-HSA-96	REAC	Signaling by phosphorylated juxtame	17	4	TRUE	2.32E-02
							GO:0050830	GO:BP	defense response to Gram-positive b	120	6	TRUE	2.35E-02
							GO:2000514	GO:BP	regulation of CD4-positive, alpha-bet	75	6	TRUE	2.46E-02
							HP:0004389	HP	Intestinal pseudo-obstruction	29	7	TRUE	2.57E-02
							GO:0009205	GO:BP	purine ribonucleoside triphosphate m	247	10	TRUE	2.66E-02
							GO:0030593	GO:BP	neutrophil chemotaxis	106	7	TRUE	2.66E-02
							GO:0062197	GO:BP	cellular response to chemical stress	304	11	TRUE	2.66E-02
							GO:1902600	GO:BP	proton transmembrane transport	159	8	TRUE	2.69E-02
							KEGG:05166	KEGG	Human T-cell leukemia virus 1 infecti	218	11	TRUE	2.73E-02
							WP:WP3972	WP	PDGFR beta pathway	29	5	TRUE	2.73E-02
							GO:0002228	GO:BP	natural killer cell mediated immunity	75	6	TRUE	2.76E-02
							KEGG:04714	KEGG	Thermogenesis	232	13	TRUE	2.76E-02
							GO:0031342	GO:BP	negative regulation of cell killing	26	4	TRUE	2.77E-02
							GO:0002702	GO:BP	positive regulation of production of m	135	7	TRUE	2.81E-02
							GO:0023023	GO:MF	MHC protein complex binding	33	4	TRUE	2.82E-02
							GO:0072678	GO:BP	T cell migration	74	6	TRUE	2.85E-02
							GO:0002700	GO:BP	regulation of production of molecular	188	8	TRUE	2.92E-02
							GO:0031234	GO:CC	extrinsic component of cytoplasmic s	72	5	TRUE	2.94E-02
							GO:0001910	GO:BP	regulation of leukocyte mediated cyt	91	6	TRUE	2.97E-02
							GO:0070269	GO:BP	pyroptosis	35	4	TRUE	3.04E-02
							GO:0045123	GO:BP	cellular extravasation	75	6	TRUE	3.08E-02
							GO:0061133	GO:MF	endopeptidase activator activity	15	3	TRUE	3.13E-02
							GO:0002269	GO:BP	leukocyte activation involved in infla	50	5	TRUE	3.15E-02
							GO:0002862	GO:BP	negative regulation of inflammatory r	28	4	TRUE	3.20E-02
							GO:0002707	GO:BP	negative regulation of lymphocyte me	55	5	TRUE	3.24E-02
							GO:0051258	GO:BP	protein polymerization	287	10	TRUE	3.30E-02
							GO:0009199	GO:BP	ribonucleoside triphosphate metaboli	254	10	TRUE	3.38E-02
							GO:0043254	GO:BP	regulation of protein-containing comp	417	11	TRUE	3.43E-02
							HP:0000603	HP	Central scotoma	51	9	TRUE	3.49E-02
							WP:WP304	WP	Kit receptor signaling pathway	53	6	TRUE	3.52E-02
							HP:0011965	HP	Abnormal circulating citrulline concen	20	6	TRUE	3.57E-02
							GO:0007249	GO:BP	canonical NF-kappaB signal transduc	309	10	TRUE	3.68E-02
							GO:0006164	GO:BP	purine nucleotide biosynthetic proces	257	10	TRUE	3.74E-02
							HPA:0400202	HPA	rectum; endothelial cells[2Medium]	185	10	TRUE	3.75E-02
							GO:0002709	GO:BP	regulation of T cell mediated immunit	95	6	TRUE	3.80E-02
							GO:0070227	GO:BP	lymphocyte apoptotic process	81	5	TRUE	3.93E-02
							GO:0050786	GO:MF	RAGE receptor binding	10	3	TRUE	3.97E-02
							GO:0005938	GO:CC	cell cortex	314	9	TRUE	4.00E-02
							GO:0045581	GO:BP	negative regulation of T cell differenti	49	5	TRUE	4.00E-02
							GO:0097530	GO:BP	granulocyte migration	156	8	TRUE	4.15E-02
							WP:WP4493	WP	Cells and molecules involved in local	17	3	TRUE	4.19E-02
							GO:0043549	GO:BP	regulation of kinase activity	483	13	TRUE	4.28E-02
							HPA:0030431	HPA	appendix; germinal center cells[2Low	287	13	TRUE	4.32E-02
							GO:0030662	GO:CC	coated vesicle membrane	199	7	TRUE	4.39E-02
							TF:M08320_1	TF	Factor: GCMA:HOXB13; motif: RTGC	24	4	TRUE	4.49E-02
							GO:0002292	GO:BP	T cell differentiation involved in immu	84	6	TRUE	4.71E-02
							GO:0002520	GO:BP	immune system development	201	8	TRUE	4.72E-02
							GO:0045637	GO:BP	regulation of myeloid cell differentiat	215	8	TRUE	4.74E-02

DEGs in TAMs							DEGs in Monocytes						
term_id	source	term_name	term_size	intersection_siz	significant	adj_p_value	term_id	source	term_name	term_size	intersection_siz	significant	adj_p_value
							GO:0070069	GO:CC	cytochrome complex	40	4	TRUE	4.79E-02
							GO:0003823	GO:MF	antigen binding	174	8	TRUE	4.86E-02
							WP:WP2328	WP	Allograft rejection	88	7	TRUE	4.99E-02

Regulon	TAM	T_NK	Endothelial_Pro	Fibroblast	Unknown	Monocyte	Endothelial_Cel	Adipocyte	B_Cell
ATF3	0.2748088424	0.3734227969	0.1991094326	0.2739584985	0.1967748254	0.5088378658	0.2005710603	0.1778322923	0.211449617
BACH1	0.2848435648	0.360273271	0.2049343474	0.276329394	0.2011222024	0.5014138101	0.2084356758	0.1793633187	0.2143897538
BACH2	0.2237679686	0.5441046459	0.1986466166	0.2427084833	0.2084724099	0.3346639748	0.2033386817	0.1734884384	0.2396028699
BCL11A	0.2611432292	0.3814865856	0.2013038315	0.2606849677	0.2132313096	0.4300694069	0.2054236031	0.1782918463	0.3183484589
BHLHE40	0.2981307002	0.4136729367	0.2171298479	0.3389142003	0.2129690856	0.3575567627	0.2285072151	0.1835054115	0.2120215651
BNC1	0.255366855	0.3064561961	0.2199466109	0.4168982947	0.2188061157	0.299938873	0.2429794394	0.2030216921	0.1965467654
BRCA1	0.2854217316	0.3893555147	0.2306540491	0.338055432	0.2395822239	0.3250725357	0.2269782143	0.1856602771	0.2190328935
CEBPA	0.2403142344	0.4073632936	0.1866395898	0.2336987244	0.1823331199	0.4979793228	0.1921787177	0.1730895052	0.2208337991
CEBPB	0.2514116052	0.4197558559	0.1893306048	0.230153319	0.1836740354	0.4993613064	0.1950081638	0.1734139559	0.2181112199
CEBPD	0.2927185587	0.3543569464	0.1927647811	0.2625123385	0.1901558444	0.5289478015	0.1974427863	0.1768416408	0.2079478552
CEBPE	0.2292660842	0.4648170324	0.1868572433	0.2324094117	0.1891621857	0.4670582146	0.192979229	0.1731907232	0.2230762762
CEBPG	0.2532371983	0.4157803519	0.2076723761	0.3156300005	0.2076227082	0.4044797241	0.2215785291	0.1809950598	0.2175162756
CREB1	0.2621485621	0.419802881	0.2068080259	0.2865872353	0.2094820823	0.4077720694	0.2122849718	0.1852145479	0.2210459856
CREB3L1	0.2469149299	0.2870504515	0.2234458257	0.5731521897	0.2216441437	0.2464396714	0.2250994645	0.1942465836	0.1889094023
CREB3L2	0.2738060028	0.3441832442	0.2257098861	0.4164323231	0.2511692106	0.3219989264	0.2422126704	0.1897550453	0.2061776196
CREB5	0.2785927092	0.3445438234	0.2138464686	0.3100549731	0.2075313638	0.4785476903	0.2233248902	0.1815502322	0.2076288572
CREM	0.3791401581	0.3402031772	0.2046778964	0.2970725127	0.199998556	0.4152994465	0.2126658703	0.1845230175	0.2051604974
CTCFL	0.3126130175	0.4159232366	0.2019391809	0.2876534094	0.2022095459	0.3777101646	0.2184501847	0.179528118	0.2198169626
CUX1	0.2903742547	0.3583000559	0.2159217233	0.3086792866	0.2145166315	0.4542650659	0.2189681	0.1830540187	0.2098805041
DLX1	0.3125200235	0.2720318212	0.2171208231	0.3733750157	0.2372772714	0.2189911958	0.2470895363	0.2160810406	0.1985222265
E2F1	0.2699166902	0.4478689986	0.2221357733	0.3367086522	0.2164625655	0.3151938294	0.2277107123	0.1851703878	0.2192164729
E2F3	0.2866826205	0.3724094658	0.2234558797	0.3133436406	0.2118830659	0.4222757453	0.2270274084	0.1823769359	0.2150710381
E2F6	0.2640959103	0.3692085735	0.2396160557	0.3420297445	0.2309131532	0.3274401699	0.2578081486	0.1863901203	0.2079320235
E2F7	0.2847402879	0.3854822644	0.2396175781	0.3650336297	0.2361269929	0.3014077194	0.2357516598	0.1935294922	0.221157146
E2F8	0.2871535438	0.3918589551	0.2326181709	0.329845506	0.2214369619	0.3154920531	0.240026262	0.1855149187	0.215357115
EGR1	0.2547037864	0.2769820095	0.2206848468	0.5544192134	0.2168967975	0.2869935387	0.221291863	0.1943378686	0.1895358824
ELF1	0.2606182481	0.4259587871	0.200437358	0.2716046777	0.2012502458	0.4608530856	0.2044002684	0.179016073	0.2232357952
ELF2	0.2754485578	0.3635280179	0.2256302686	0.3139438252	0.2132918899	0.4329537123	0.2333224827	0.1835733076	0.217262243
ELK3	0.2545166984	0.343714813	0.2821260173	0.3403393627	0.2271828033	0.3174146904	0.3364507054	0.1850287221	0.2074259686
ENO1	0.2760642676	0.448876374	0.2067211772	0.313934977	0.2111516663	0.3371982981	0.2211995011	0.1812740761	0.2144681756
EOMES	0.225152976	0.5740799973	0.1963159569	0.2479959519	0.1894679489	0.3315956488	0.2000490653	0.1748364456	0.2197678894
EP300	0.2916710742	0.3599964945	0.2170782844	0.364734991	0.2102534581	0.3628718884	0.2234345366	0.1871823955	0.2129738249
ERG	0.2491041331	0.322925815	0.2969011965	0.4069261678	0.2246928809	0.285315795	0.3092244256	0.1896808024	0.2027599084
ESRRA	0.2910596138	0.3616036632	0.2034309041	0.2803176041	0.2041080194	0.469223195	0.2149399033	0.1786024322	0.2132346604

Regulon	TAM	T_NK	Endothelial_Pro	Fibroblast	Unknown	Monocyte	Endothelial_Cel	Adipocyte	B_Cell
ETS1	0.2288324602	0.5674980913	0.2246726152	0.2750956875	0.2033821496	0.296953901	0.2239593004	0.179361262	0.2245873893
ETV2	0.2473828052	0.4736237625	0.2047062865	0.3418920681	0.2043499243	0.32454892	0.2152019555	0.1834550274	0.2282708555
ETV5	0.4121444183	0.3227615974	0.223228587	0.3097710369	0.2192257494	0.3552129559	0.2344082903	0.1834936533	0.2030556693
ETV6	0.2935061927	0.3570385508	0.2155344461	0.3012444229	0.2297515143	0.449335461	0.2203184351	0.1833402262	0.2143805864
EZH2	0.2875580701	0.3812257989	0.2285737022	0.3532610752	0.2315653776	0.3178472304	0.2339512696	0.1871606584	0.2173576865
FLI1	0.2792486372	0.3875576116	0.2575771593	0.2951254365	0.2092796713	0.3955766678	0.2558011398	0.1813971316	0.2174738535
FOS	0.2501289662	0.3891809242	0.1911295651	0.2413161013	0.1890451872	0.5435911678	0.1937489716	0.1746996475	0.2146049105
FOSB	0.2499638255	0.3957022038	0.1950187439	0.2603230854	0.1947423711	0.5170132114	0.1975718738	0.1764172612	0.2138510643
FOSL1	0.2788777891	0.3777099422	0.2218086103	0.3536941225	0.2121636689	0.3782234246	0.2239490486	0.1876216404	0.2096810612
FOSL2	0.3049815478	0.3559364109	0.2173748147	0.3507473987	0.2081710564	0.4015291289	0.2163302622	0.18505547	0.2034461376
FOXA1	0.2299071611	0.3283801427	0.2289629737	0.3038495408	0.2767650166	0.2738424987	0.2041654577	0.1956832324	0.2134688598
FOXD2	0.2513676248	0.466959477	0.2104294519	0.2851632597	0.2164533761	0.3406179701	0.2096484277	0.1827419066	0.2263374481
FO XK1	0.2517754034	0.434880815	0.2285274178	0.3708327826	0.2225705183	0.2877451446	0.2375420829	0.1908439861	0.2051579226
FOXN2	0.2590990053	0.4355490451	0.2004976439	0.2663668354	0.2022993628	0.4487435666	0.2078745593	0.1786972797	0.221944033
FOXO1	0.2441008357	0.4214898081	0.2423419726	0.3467235733	0.2287928666	0.3191874072	0.2674339392	0.1851589203	0.2213757558
FOXO3	0.2899007951	0.3529761328	0.2159884576	0.3467772999	0.2173596083	0.4216941305	0.2211455239	0.1878855623	0.2081319596
FOXP1	0.2353570633	0.5317057748	0.2078396534	0.2684976939	0.2113634291	0.3396447757	0.2193454791	0.1801715546	0.2292205591
FOXP2	0.2383038059	0.3150941689	0.228400303	0.4739117372	0.2329441264	0.2692549573	0.2472750386	0.1996135603	0.2021508687
FOXP3	0.2381601238	0.5296588026	0.1975549813	0.2619505836	0.196285754	0.3399531198	0.2035742746	0.1776790692	0.2276175698
GABPA	0.2634105696	0.3824418793	0.2213953754	0.2972943541	0.2146399523	0.3438245207	0.2263061866	0.1887691246	0.2286812818
GATA1	0.257461319	0.3708853856	0.2395775942	0.3074661541	0.2234431292	0.3048971731	0.3136328132	0.1812195684	0.2060788459
GATA2	0.253593243	0.3637405967	0.2944406135	0.3353015829	0.2145153931	0.3272059154	0.291254407	0.1851810776	0.2166718901
GATA3	0.2399376761	0.5680495954	0.1969173892	0.2460756911	0.1918346439	0.31499948	0.2056055102	0.1740758724	0.2194382775
GBX1	0.2601447021	0.4012506276	0.2422212787	0.3448723606	0.2415339442	0.289739298	0.2414094775	0.1864126107	0.2069746952
GFI1	0.2345140599	0.4660569324	0.2059387584	0.2688258688	0.2170857812	0.3436050067	0.2092213921	0.1796152454	0.2222453032
GLIS2	0.2479282982	0.2524272509	0.2275602572	0.421856328	0.2641958246	0.2282412511	0.2037344237	0.2054018818	0.1932807998
GRHL1	0.2628934562	0.3728291278	0.2238378386	0.3475459924	0.3364689003	0.3008789587	0.2215238089	0.1921128776	0.2042199957
GRHL2	0.2633918051	0.3547543	0.2253409308	0.3398309181	0.3438295861	0.3221990558	0.2328005303	0.1938580005	0.2087452161
HCFC1	0.232075989	0.4350139089	0.2002009316	0.2602302573	0.187467929	0.4293507146	0.2104765671	0.1752148695	0.2370904717
HEYL	0.2212978859	0.2145078988	0.2321603629	0.5597476459	0.1996610655	0.1946144532	0.2352657885	0.1840468396	0.1771974565
HIF1A	0.3748556074	0.3023347194	0.2256904272	0.3302659986	0.2185600258	0.3797526495	0.2283172291	0.1860641962	0.1931258315
HMGA2	0.2904220395	0.3521913171	0.2286529088	0.4273470588	0.2446948309	0.2582415492	0.2308435697	0.2040072831	0.2090928394
HNF1A	0.277529264	0.3579906018	0.2380263628	0.3305806187	0.234655279	0.2785337498	0.2333311568	0.2602397935	0.2169554776

Regulon	TAM	T_NK	Endothelial_Pro	Fibroblast	Unknown	Monocyte	Endothelial_Cel	Adipocyte	B_Cell
HOXA6	0.2339701246	0.2640998696	0.2036888721	0.3802249519	0.2727394995	0.2329487632	0.2256055841	0.2013350683	0.1895693105
HOXA9	0.2593416375	0.3484314399	0.2134990938	0.4394411666	0.2565111167	0.2779713481	0.2306728229	0.1975071916	0.2024451794
HOXC12	0.2790327216	0.3588046581	0.2296349712	0.3721195529	0.239258131	0.2784159823	0.2336925619	0.2013721668	0.2057557207
HOXC9	0.2450044756	0.3187450804	0.2067534181	0.352525628	0.2147163198	0.2897747368	0.2254723235	0.1853262691	0.2000575086
IKZF1	0.2363539605	0.5511441332	0.1881847173	0.2260497188	0.186648055	0.3962150321	0.1910698484	0.1735880429	0.2346403522
IRF1	0.2378118665	0.4558890624	0.1887227036	0.2273340411	0.1852388608	0.494989213	0.1913500899	0.1730661532	0.2269045277
IRF2	0.2735203261	0.4165070132	0.2152532125	0.2696415655	0.2023995778	0.4316959648	0.2079163859	0.1881520637	0.2138511568
IRF4	0.272213365	0.4161616214	0.2050259199	0.2724735869	0.205521772	0.4277054035	0.2129597055	0.1789657781	0.2521520354
IRF5	0.281632968	0.358264425	0.1816962763	0.2085015643	0.1782949668	0.5428471871	0.1837102073	0.1714882508	0.2475111339
IRF6	0.2552478283	0.3117151555	0.2019518651	0.3295790816	0.339951443	0.2497478733	0.2493938939	0.2082399384	0.2068024942
IRF7	0.2595599035	0.4124250468	0.1991587589	0.2575340218	0.1980146926	0.4550282269	0.2056412523	0.1753959519	0.2508342364
IRF8	0.2726334735	0.3698614105	0.195779224	0.2451420788	0.1940849178	0.5081843652	0.2000826946	0.1751345303	0.2582134069
IRX4	0.2443195723	0.3956176856	0.1989864857	0.2894946354	0.2763966007	0.3055642808	0.221121766	0.182525693	0.2166896212
JDP2	0.2634425575	0.3100067446	0.2229720876	0.4176126503	0.2117991787	0.350082964	0.2323808145	0.1877544159	0.2023868832
JUN	0.2276380469	0.4685833782	0.189724672	0.2420081931	0.1872022518	0.4713696784	0.192799315	0.1733719158	0.2258981567
JUNB	0.2231725598	0.5435026981	0.1879286253	0.2226561656	0.1828976827	0.4052195384	0.1924350537	0.17202987	0.2396777535
JUND	0.2288486489	0.4772700052	0.1873583895	0.2360422673	0.1857222237	0.4654270263	0.1910695319	0.1731083509	0.2350715783
KDM5A	0.3442185035	0.3420464054	0.2064691437	0.2560913012	0.1998236118	0.3673042091	0.2063495498	0.1783681394	0.2186362411
KLF12	0.2109150641	0.6182087269	0.2006500207	0.273452734	0.1957169326	0.2644911476	0.2030618192	0.1767811638	0.2219818196
KLF13	0.2348068995	0.523643027	0.1966089909	0.2557083298	0.1930107645	0.3824621686	0.2019967114	0.1763509145	0.2245854635
KLF16	0.253706691	0.4424788743	0.1943083753	0.262149437	0.1948693749	0.4365455417	0.205604261	0.1769911588	0.2184281362
KLF2	0.2204941834	0.5576141629	0.1864975914	0.215343746	0.1791360913	0.4004699622	0.1908922762	0.1709346282	0.2382590331
KLF4	0.2522636779	0.3457114311	0.1915359859	0.2599678717	0.1878198113	0.5595189728	0.1965146084	0.1761492412	0.2128005452
KLF6	0.2463823642	0.4221863713	0.1969043796	0.2577846958	0.1898457257	0.491230376	0.2018909578	0.1748116037	0.2204255594
LEF1	0.2195909044	0.6162129803	0.1933011432	0.2400337335	0.1990367617	0.2821524789	0.202098276	0.1744305518	0.21622541
LHX1	0.2790509681	0.390789351	0.2279003828	0.3638772289	0.2474020414	0.2689383134	0.2281718906	0.2101884982	0.2107641059
MAF	0.3128018161	0.3916723851	0.2197613692	0.3247449173	0.2061451307	0.3267732836	0.2858835201	0.1812842645	0.2145120486
MAFA	0.2649303219	0.3150545265	0.241972519	0.4168194085	0.2414086555	0.2828741155	0.2639086121	0.1963429861	0.2203077946
MAFB	0.3171598157	0.3421073173	0.189928532	0.2392638361	0.1880092616	0.5113377424	0.1986165547	0.1755831722	0.2088912659
MAFK	0.2342551251	0.3175850628	0.2122657468	0.4459600248	0.2068994043	0.3004598601	0.2182216973	0.1897020176	0.199842975
MAZ	0.2326860507	0.5300746326	0.1952168366	0.2518205028	0.1909517939	0.3717185636	0.1997509003	0.1749338698	0.2332555631
MEF2C	0.2999285265	0.3328083752	0.2121146592	0.2427289	0.1885625398	0.5082883858	0.21974173	0.1759784352	0.248856604
MITF	0.3604561457	0.3527449893	0.2222435607	0.331740155	0.218087737	0.3653971332	0.2322331844	0.1869823315	0.2068330076

Regulon	TAM	T_NK	Endothelial_Pro	Fibroblast	Unknown	Monocyte	Endothelial_Cel	Adipocyte	B_Cell
MSC	0.2323051769	0.3123831912	0.2186929004	0.4297991879	0.2187145988	0.2918671097	0.240617303	0.1830360681	0.2041919511
MX1	0.3388668635	0.365183989	0.2109558316	0.3123708129	0.2212228127	0.3359767348	0.2231950039	0.1864675665	0.2076075095
NFAT5	0.2367102857	0.2909846839	0.260114849	0.3714051275	0.2579661336	0.2629249105	0.3711523573	0.1857993085	0.202596677
NFATC1	0.253827822	0.3301278468	0.2451407024	0.4260962532	0.2175498621	0.315319818	0.2765553163	0.1875382266	0.2010451096
NFATC2	0.2884417964	0.3906869781	0.22791877	0.3893396452	0.2087338864	0.3200306315	0.2250666501	0.1865793643	0.202290308
NFE2	0.2357323617	0.3507084101	0.1876982337	0.2451826724	0.1869303696	0.5817675048	0.1885416441	0.1750536508	0.208358652
NFE2L2	0.3653788435	0.3481067947	0.2156691928	0.3239283351	0.2142478561	0.3693086754	0.214889872	0.1868413104	0.2044560727
NFE2L3	0.2760357378	0.4288233631	0.2090690139	0.2819148215	0.2050052273	0.3977537244	0.2046031826	0.1822622124	0.2207097495
NFIL3	0.2635580489	0.3553242942	0.2064248943	0.3293441711	0.1997778157	0.4740336888	0.2095207508	0.1837971491	0.2060193035
NFKB1	0.279772211	0.4164407383	0.2072199393	0.2797340438	0.209923094	0.4309558151	0.2154217619	0.1803384272	0.2278959989
NKX25	0.3213374987	0.3255594785	0.2231527905	0.3717303391	0.212715658	0.3044309436	0.2282218146	0.1907409582	0.2164719855
NR1H3	0.3548385434	0.3385980589	0.2065859228	0.2696453472	0.2061827988	0.4001977067	0.2195690442	0.1866381995	0.205314118
NR1I3	0.2538858497	0.3329876173	0.1918278058	0.2089857869	0.1932094859	0.4522260442	0.1936760126	0.1770942504	0.2256433604
NRL	0.3148976765	0.3507365465	0.2201958351	0.306621168	0.2105033192	0.4023442357	0.2237423232	0.1849810704	0.2136522002
PAX5	0.2350471054	0.4095927833	0.193334035	0.2553293831	0.2068210813	0.3288104672	0.2012177201	0.1761121185	0.4076785629
PHF8	0.2747665159	0.4391473762	0.211740959	0.2995847517	0.2165388266	0.3572330562	0.2137568677	0.1812316488	0.2284178202
PITX1	0.2457346554	0.2940268294	0.2224623692	0.4236173981	0.25057181	0.2192616032	0.2377912826	0.2162997062	0.2046533697
POU2F2	0.2415171855	0.3617172369	0.1785757903	0.2027507499	0.1770316245	0.5759899417	0.185991938	0.1719149719	0.2455446986
POU2F3	0.2533521792	0.351523112	0.2155039665	0.3464769793	0.2528407806	0.3606877359	0.2243576771	0.1877058563	0.2087101469
POU3F1	0.2639687775	0.427937837	0.2130121418	0.2814915157	0.2164301524	0.350478851	0.2311019659	0.1815705346	0.2344599503
PPARG	0.2899947711	0.3249200237	0.2396054638	0.3845947959	0.217544437	0.3249869728	0.2464518381	0.2439394992	0.2133007056
RARA	0.241143139	0.383665439	0.1897934274	0.2454626952	0.1858911717	0.5365650398	0.1983918791	0.1741947112	0.2186719378
RCOR1	0.2841239972	0.3739112679	0.2204282155	0.3459160028	0.2189530288	0.3998775768	0.2235411874	0.1874114669	0.2129398192
REL	0.2902235364	0.3879064244	0.1981406231	0.2475250761	0.1969699776	0.4786478495	0.2037729451	0.1758016608	0.2523749829
RFX2	0.2678265068	0.3489392199	0.2256019551	0.3714562163	0.2140167894	0.4033812875	0.2204840967	0.1820856835	0.2135099331
RREB1	0.3488660154	0.3515781312	0.2147912355	0.3052093028	0.2219830043	0.3847244789	0.2250763571	0.1842808338	0.2095093257
RUNX3	0.2257338876	0.576827561	0.1909498806	0.2314099115	0.1857525477	0.3539054021	0.1956939203	0.1728396277	0.2248188032
RXRA	0.2673497556	0.3405615322	0.1995500212	0.256218214	0.1930932202	0.5483606104	0.20848905	0.1771420249	0.2098184032
RXRG	0.266592056	0.3320948408	0.2278423521	0.3716157992	0.2387604564	0.2808960601	0.2325914126	0.1978853561	0.2034313582
SETBP1	0.2385716595	0.2852403515	0.2379047017	0.5054827697	0.2280425336	0.2986642788	0.2297451375	0.1992305056	0.2179423715
SIX1	0.2650804422	0.2732698211	0.2142449546	0.3861856211	0.2344895258	0.2467467687	0.2049025784	0.2229311821	0.2056935819
SIX5	0.2615433326	0.4030815927	0.2151383265	0.3177555715	0.2384577736	0.3042294165	0.2212979862	0.1831077007	0.2247801902
SNAI1	0.304716013	0.3077455987	0.2120020629	0.3784173503	0.2233665525	0.3649365651	0.2281697893	0.1813019864	0.2011823911

Regulon	TAM	T_NK	Endothelial_Pro	Fibroblast	Unknown	Monocyte	Endothelial_Cel	Adipocyte	B_Cell
SOX10	0.2593915628	0.3649222628	0.2274688302	0.3253894382	0.3532045983	0.3025745863	0.2280221351	0.1943911208	0.2037594427
SOX18	0.2199508305	0.3046433317	0.3249105776	0.2887093918	0.1870890534	0.2277668038	0.3521098187	0.1752802728	0.1930896135
SOX2	0.2748325258	0.3925170249	0.2321578885	0.3581432164	0.2424648622	0.2785909626	0.225584125	0.2040985294	0.2151268331
SOX4	0.2786198844	0.3790614026	0.231064383	0.3877743813	0.2242719704	0.3257798185	0.2533852013	0.1881694996	0.2107476096
SOX9	0.2421208014	0.3487796302	0.2213222964	0.3626250556	0.3059145266	0.2713452471	0.2253475027	0.1887735267	0.2033505437
SP1	0.2743688888	0.3813886141	0.2249500074	0.3406737723	0.2251336107	0.3774409301	0.2257565071	0.1873061445	0.2155487484
SP3	0.33047681	0.3707811551	0.2070795297	0.2977464951	0.2116913097	0.4049173501	0.2222673371	0.190263988	0.2134135543
SP4	0.2588005986	0.4796120595	0.2016116243	0.264880946	0.2115503118	0.3424330025	0.2021179027	0.1809942457	0.2319611132
SP6	0.2530389654	0.375725305	0.2682909377	0.3257956865	0.2073734619	0.3459911171	0.288578916	0.1833582129	0.2130664104
SPDEF	0.2347577062	0.265173852	0.2134772195	0.2896564282	0.4272979253	0.2628829415	0.2072449265	0.1867506918	0.1965095539
SPI1	0.2666390547	0.3927206925	0.1911707685	0.2352216533	0.1881971908	0.5263977948	0.1954277136	0.1744947173	0.223419492
SPIB	0.2568606143	0.3876496392	0.1978263876	0.2527699492	0.2001770052	0.414676754	0.1996568168	0.1756057109	0.3470174095
SREBF2	0.2731064088	0.3839098967	0.2247927421	0.3277804981	0.2210282689	0.3760346875	0.2358315456	0.1906570925	0.2273608652
STAT1	0.247424852	0.4175438185	0.1929428208	0.2395542841	0.1873549279	0.5153523842	0.1917365661	0.1748312115	0.2200011506
STAT2	0.2542975699	0.3855704235	0.1950276248	0.2451973568	0.186950153	0.5338597979	0.1921192325	0.1751334784	0.2178682684
STAT3	0.2505475551	0.3519048484	0.2235263529	0.4566026599	0.2233677005	0.304943194	0.228083545	0.1965074705	0.1963869412
STAT4	0.2076235148	0.6711049341	0.1825686683	0.2346447739	0.19174128	0.2361291477	0.1882868731	0.1774835723	0.2210549225
STAT5A	0.2679061272	0.4151280616	0.1882441582	0.2234009152	0.1902342856	0.4650442684	0.1968723984	0.1766463431	0.219478648
STAT6	0.266296006	0.3934073268	0.1929022691	0.2420922847	0.190957128	0.5059706419	0.1937874464	0.1744736911	0.2187782977
TAL1	0.2587930762	0.3132068565	0.3060364709	0.3059936394	0.2290181605	0.3085358112	0.3420150156	0.1852072593	0.203450041
TBX15	0.2474065953	0.2897873962	0.2288047237	0.5419282023	0.2270181789	0.2662037065	0.2330194711	0.2035578527	0.1986275184
TBX2	0.2167247778	0.2150559576	0.1963628966	0.4286285466	0.1970920485	0.1981665043	0.1914188703	0.2017689662	0.1776177283
TBX21	0.2232057943	0.5622164203	0.1901105551	0.2408036087	0.1856050682	0.3432375045	0.1970449553	0.1733966977	0.2150929563
TCF4	0.2766429774	0.3422545886	0.2642154237	0.4040545982	0.2285226905	0.3005142312	0.2743587973	0.1907784817	0.2123190155
TCF7L1	0.2497432544	0.2901908613	0.2639442322	0.4595596194	0.258877823	0.2509271407	0.2821761489	0.20375196	0.2041004021
TEAD1	0.266385653	0.3179955945	0.2475099609	0.4774798239	0.2364413736	0.2685835073	0.2559992124	0.1979175452	0.2006185088
TEAD4	0.2460763702	0.3679924686	0.2987932223	0.3715749836	0.2098006347	0.2935453338	0.2752104165	0.1828900624	0.2043127741
TEF	0.2592597892	0.3646799604	0.2298298763	0.3753970265	0.2140054867	0.2753488192	0.2367270785	0.2380335831	0.2139427916
TFAP2B	0.2737354962	0.3647577028	0.2137970215	0.3316266761	0.3205109636	0.3400206712	0.2265157449	0.1932971235	0.2123144345
TFAP4	0.2476083341	0.4568220599	0.1911419569	0.2476934663	0.1959867983	0.3474942715	0.2017463225	0.1771477121	0.2410545767
TFEB	0.2710119548	0.3845436289	0.2037120333	0.2579255182	0.2074450542	0.411148281	0.2049463523	0.1828425864	0.2748407307
TFEC	0.3045499488	0.345149464	0.1986272999	0.2586819604	0.1981575496	0.5206385893	0.2019506179	0.178422891	0.2138588048
TP73	0.2621421474	0.4430042439	0.2093746587	0.3208300974	0.2270095486	0.3067576012	0.2212148615	0.1825228099	0.2203431724

Regulon	TAM	T_NK	Endothelial_Pro	Fibroblast	Unknown	Monocyte	Endothelial_Cel	Adipocyte	B_Cell
TWIST1	0.241693505	0.3071409389	0.2247756027	0.5047079958	0.2251946105	0.28370384	0.2304234376	0.2074656479	0.2125806722
VENTX	0.2564612602	0.3618986062	0.1980790463	0.2818416909	0.2029865249	0.4783691746	0.2060060028	0.1853148018	0.2149848847
WT1	0.2801566491	0.3887612106	0.2209803048	0.2826180608	0.2191166713	0.317854501	0.2325001654	0.1845294365	0.2232056979
YBX1	0.2590735205	0.5011675618	0.2082853369	0.2958385948	0.2083154488	0.3259090785	0.2162503113	0.1810716451	0.2301421706
YY1	0.3132545511	0.4016369713	0.201917188	0.267421349	0.2004452407	0.3657050006	0.2050070268	0.1778476405	0.2283144321
ZBTB7A	0.2309671528	0.441171305	0.1956304588	0.2306185818	0.185842981	0.4546953092	0.2002391515	0.1731248388	0.2151660613
ZBTB7B	0.2347753799	0.3660112234	0.1913063545	0.2284506586	0.1939826551	0.4805420203	0.1973090657	0.1733302714	0.2173911227
ZEB1	0.2641413376	0.3564475317	0.263036689	0.4080077141	0.2220960236	0.2874613241	0.2877197031	0.1883754409	0.2092211943
ZNF263	0.2640044491	0.4020898421	0.2255849112	0.339959083	0.2194985485	0.3229900914	0.2243406317	0.1885372889	0.2237355287
ZNF467	0.2322766294	0.2998692816	0.2013046025	0.2325566442	0.1893333585	0.5461209609	0.2107084388	0.178495034	0.207688273
ZNF878	0.2667854822	0.4364910308	0.2047325538	0.2894086332	0.2083834059	0.314530887	0.2096567602	0.1807548242	0.22910809

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
TAM	RBPJ	0.7374117111	4.73E-37	TAM	MA1116.1	0.7935990113	1.33E-55	0.7655053612
TAM	TEAD1	0.7069032775	1.12E-71	TAM	MA0090.3	0.8185650076	3.46E-65	0.7627341425
TAM	MITF	0.8083362677	3.11E-84	TAM	MA0620.3	0.7143823747	1.56E-30	0.7613593212
TAM	NFATC2	0.6646644159	5.05E-52	TAM	MA0152.1	0.8330295436	4.64E-71	0.7488469797
TAM	RREB1	0.6366277263	4.01E-13	TAM	MA0073.1	0.8506458985	1.30E-78	0.7436368124
TAM	MAF	0.677323474	6.53E-59	TAM	MA1520.1	0.7740045707	1.10E-48	0.7256640223
TAM	NFIB	0.6931705987	5.92E-66	TAM	MA1643.1	0.7579623991	2.34E-43	0.7255664989
TAM	KLF5	0.5262018683	3.58E-05	TAM	MA0599.1	0.885319359	1.80E-94	0.7057606137
TAM	PPARD	0.6322952699	4.11E-20	TAM	MA1550.1	0.774277291	9.04E-49	0.7032862804
TAM	TCF4	0.731964208	3.12E-40	TAM	MA0830.2	0.6738713174	1.06E-20	0.7029177627
TAM	ZEB1	0.7381539248	8.15E-75	TAM	MA0103.3	0.6628796509	2.21E-18	0.7005167878
TAM	RORA	0.7111062781	8.00E-67	TAM	MA0071.1	0.6808377694	3.06E-22	0.6959720237
TAM	PRDM1	0.6098234567	5.00E-25	TAM	MA0508.3	0.768588137	7.75E-47	0.6892057969
TAM	PPARG	0.6683530451	4.92E-54	TAM	MA0066.1	0.6994759626	1.10E-26	0.6839145039
TAM	MEF2A	0.5527558566	0.01754407206	TAM	MA0052.4	0.814891913	9.66E-64	0.6838238848
TAM	ZNF354C	0.5213395058	1.16E-05	TAM	MA0130.1	0.8442525045	7.61E-76	0.6827960052
TAM	NFIA	0.6740094037	5.92E-28	TAM	MA0670.1	0.6901309748	2.09E-24	0.6820701892
TAM	E2F6	0.5190369174	0.01174123018	TAM	MA0471.2	0.8427093906	3.45E-75	0.680873154
TAM	THRB	0.5742438051	7.60E-24	TAM	MA1574.1	0.7862252049	6.30E-53	0.680234505
TAM	ZNF682	0.5274653576	4.93E-07	TAM	MA1599.1	0.8319697315	1.26E-70	0.6797175446
TAM	GLIS3	0.6369850245	9.42E-43	TAM	MA0737.1	0.7125389231	4.85E-30	0.6747619738
TAM	PBX3	0.6046521262	1.29E-08	TAM	MA1114.1	0.740076776	8.04E-38	0.6723644511
TAM	ZNF135	0.5104824734	0.02449635669	TAM	MA1587.1	0.8195316114	1.48E-65	0.6650070424
TAM	TEAD2	0.5116959064	6.19E-05	TAM	MA1121.1	0.8173705614	9.97E-65	0.6645332339
TAM	ZNF449	0.5212877234	0.002383521882	TAM	MA1656.1	0.8050498146	6.55E-60	0.663168769
TAM	TFDP1	0.5318219792	0.01912029385	TAM	MA1122.1	0.7911928582	9.73E-55	0.6615074187
TAM	TEAD4	0.5073099415	0.002336827007	TAM	MA0809.2	0.8116330772	1.83E-62	0.6594715094
TAM	HIF1A	0.643918681	6.28E-14	TAM	MA1106.1	0.6746100789	7.31E-21	0.65926438
TAM	MEOX2	0.6490468596	7.91E-53	TAM	MA0706.1	0.6634561611	1.68E-18	0.6562515103
TAM	NFATC4	0.514619883	5.39E-06	TAM	MA1525.1	0.7968854643	8.25E-57	0.6557526737
TAM	GLI3	0.5148856991	6.18E-05	TAM	MA1491.1	0.7875853546	2.04E-53	0.6512355268

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
TAM	GLI2	0.5125623977	0.000128353833	TAM	MA0734.2	0.7817719229	2.25E-51	0.6471671603
TAM	NR6A1	0.6462903126	2.30E-22	TAM	MA1541.1	0.6446211949	7.54E-15	0.6454557537
TAM	TEAD3	0.5043859649	0.02563111442	TAM	MA0808.1	0.78192727	2.01E-51	0.6431566174
TAM	HOXD9	0.514619883	5.39E-06	TAM	MA0913.2	0.7635652492	3.68E-45	0.6390925661
TAM	NR2F1	0.5412291058	1.50E-14	TAM	MA0017.2	0.7352299481	2.18E-36	0.638229527
TAM	SIX1	0.5216381173	7.55E-07	TAM	MA1118.1	0.7493837901	1.16E-40	0.6355109537
TAM	EBF1	0.5149253989	5.88E-05	TAM	MA0154.4	0.7505091931	5.24E-41	0.632717296
TAM	EBF3	0.5228101245	2.52E-08	TAM	MA1637.1	0.742393173	1.62E-38	0.6326016487
TAM	HOXB13	0.5043859649	0.02563111442	TAM	MA0901.2	0.7580901289	2.17E-43	0.6312380469
TAM	NR2F2	0.5345198395	1.13E-12	TAM	MA1111.1	0.7253222588	1.51E-33	0.6299210492
TAM	POU2F1	0.5521448249	0.007340388144	TAM	MA0785.1	0.7032250047	1.26E-27	0.6276849148
TAM	PLAG1	0.5186709888	0.000236297754	TAM	MA0163.1	0.7346361772	3.21E-36	0.626653583
TAM	ZNF528	0.5149029599	0.04098196068	TAM	MA1597.1	0.7374807542	4.75E-37	0.6261918571
TAM	FOXP2	0.5155433349	0.000698158323	TAM	MA0593.1	0.7356925371	1.59E-36	0.625617936
TAM	GLIS2	0.5043859649	0.02563111442	TAM	MA0736.1	0.7464598134	9.54E-40	0.6254228892
TAM	TFAP2C	0.5043859649	0.02563111442	TAM	MA0524.2	0.7414748994	3.03E-38	0.6229304321
TAM	HNF4G	0.5058479532	0.007784205743	TAM	MA0484.2	0.7370733998	6.27E-37	0.6214606765
TAM	ONECUT2	0.5073099415	0.002336827007	TAM	MA0756.1	0.7348156894	2.86E-36	0.6210628154
TAM	E2F8	0.5075947444	0.01639132637	TAM	MA0865.1	0.7311840207	3.30E-35	0.6193893825
TAM	ZNF382	0.5178321147	5.65E-06	TAM	MA1594.1	0.7155319428	7.67E-31	0.6166820288
TAM	ZIC1	0.5154932787	1.15E-05	TAM	MA0696.1	0.7157943067	6.53E-31	0.6156437927
TAM	CLOCK	0.548333644	0.001883840305	TAM	MA0819.1	0.6820391198	1.64E-22	0.6151863819
TAM	ESR1	0.5835404627	1.26E-14	TAM	MA0112.3	0.6453841215	5.48E-15	0.6144622921
TAM	ZNF140	0.5289635936	0.000766519154	TAM	MA1589.1	0.6998453434	8.98E-27	0.6144044685
TAM	TCF7L1	0.5406698565	1.79E-11	TAM	MA1421.1	0.6866373924	1.43E-23	0.6136536244
TAM	SOX2	0.5175438596	4.63E-07	TAM	MA0143.4	0.7030385882	1.40E-27	0.6102912239
TAM	TBX18	0.5058479532	0.007784205743	TAM	MA1565.1	0.7116448145	8.40E-30	0.6087463839
TAM	PRRX1	0.5295159386	3.45E-10	TAM	MA0716.1	0.6846489502	4.07E-23	0.6070824444
TAM	MYF5	0.5043859649	0.02563111442	TAM	MA1641.1	0.7076265043	9.50E-29	0.6060062346
TAM	HOXD10	0.5175438596	4.63E-07	TAM	MA1506.1	0.691943357	7.73E-25	0.6047436083

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
TAM	ETV5	0.6457880238	1.25E-47	TAM	MA0765.2	0.559798256	0.001328675776	0.6027931399
TAM	MSANTD3	0.52518003	1.34E-06	TAM	MA1523.1	0.6792808467	6.78E-22	0.6022304384
TAM	SHOX	0.514619883	5.39E-06	TAM	MA0630.1	0.6860919516	1.90E-23	0.6003559173
TAM	TWIST1	0.5058479532	0.007784205743	TAM	MA1123.2	0.6932758894	3.67E-25	0.5995619213
TAM	PAX6	0.5043859649	0.02563111442	TAM	MA0069.1	0.6944703356	1.88E-25	0.5994281503
TAM	HOXC9	0.5163580439	1.87E-05	TAM	MA0485.2	0.6819148422	1.74E-22	0.599136443
TAM	TP63	0.5357073814	2.06E-11	TAM	MA0525.2	0.6568487334	3.64E-17	0.5962780574
TAM	HOXD11	0.5073099415	0.002336827007	TAM	MA0908.1	0.6849734529	3.45E-23	0.5961416972
TAM	HOXC4	0.5175438596	4.63E-07	TAM	MA1504.1	0.6744271146	7.98E-21	0.5959854871
TAM	HEY1	0.5175438596	4.63E-07	TAM	MA0823.1	0.6729841132	1.65E-20	0.5952639864
TAM	SOX12	0.5102270138	0.01390770694	TAM	MA1561.1	0.6782382955	1.16E-21	0.5942326546
TAM	MSX1	0.5438596491	6.73E-17	TAM	MA0666.1	0.6444796564	7.99E-15	0.5941696528
TAM	MEIS3	0.5221870102	1.61E-07	TAM	MA0775.1	0.6623134972	2.90E-18	0.5922502537
TAM	SMAD5	0.5500234747	5.49E-05	TAM	MA1557.1	0.6323591348	1.09E-12	0.5911913047
TAM	SOX9	0.5058479532	0.007784205743	TAM	MA0077.1	0.6756250129	4.40E-21	0.5907364831
TAM	SNAI2	0.5058479532	0.007784205743	TAM	MA0745.2	0.6755628741	4.52E-21	0.5907054137
TAM	HAND2	0.5087719298	0.000702847876	TAM	MA1638.1	0.6721901172	2.45E-20	0.5904810235
TAM	HOXC10	0.5073099415	0.002336827007	TAM	MA0905.1	0.6725042634	2.10E-20	0.5899071025
TAM	BHLHE40	0.5421059536	0.00213187169	TAM	MA0464.2	0.6347169577	4.32E-13	0.5884114556
TAM	GLIS1	0.5058479532	0.007784205743	TAM	MA0735.1	0.6698909809	7.57E-20	0.5878694671
TAM	POU6F1	0.5124864503	0.02349806736	TAM	MA0628.1	0.6616058051	4.03E-18	0.5870461277
TAM	NKX2-5	0.5058479532	0.007784205743	TAM	MA0063.2	0.6658726707	5.27E-19	0.5858603119
TAM	NR3C2	0.5405611135	8.75E-08	TAM	MA0727.1	0.6271360219	7.99E-12	0.5838485677
TAM	SREBF1	0.533075112	0.01493417635	TAM	MA0595.1	0.6331013484	8.17E-13	0.5830882302
TAM	TBX1	0.5257030317	2.23E-09	TAM	MA0805.1	0.6383106527	1.03E-13	0.5820068422
TAM	LHX2	0.5058479532	0.007784205743	TAM	MA0700.2	0.6532377776	1.82E-16	0.5795428654
TAM	HOXD4	0.5116959064	6.19E-05	TAM	MA1507.1	0.646961757	2.80E-15	0.5793288317
TAM	ETV1	0.5237076852	3.97E-06	TAM	MA0761.2	0.6348826612	4.06E-13	0.5792951732
TAM	BHLHE41	0.5411617888	1.67E-14	TAM	MA0636.1	0.6163860063	3.86E-10	0.5787738976
TAM	HOXB3	0.5116924543	0.02706384384	TAM	MA0903.1	0.6356317792	3.04E-13	0.5736621167

RNA.group	gene	RNA.auc	RNA.padj	motif.group	motif.feature	motif.auc	motif.padj	avg_auc
TAM	PRRX2	0.518147987	2.88E-05	TAM	MA0075.3	0.6284754586	4.82E-12	0.5733117228
TAM	TBX2	0.5058479532	0.007784205743	TAM	MA0688.1	0.638648964	9.01E-14	0.5722484586
TAM	MGA	0.5385916582	0.02477505993	TAM	MA0801.1	0.6025704758	3.44E-08	0.570581067
TAM	HOXA7	0.5058479532	0.007784205743	TAM	MA1498.1	0.6352796592	3.49E-13	0.5705638062
TAM	MEIS2	0.5245448332	7.21E-08	TAM	MA0774.1	0.6164757624	3.75E-10	0.5705102978
TAM	HOXD8	0.5102339181	0.000208297655	TAM	MA0910.2	0.6291693421	3.71E-12	0.5697016301
TAM	CREB3L1	0.514619883	5.39E-06	TAM	MA0839.1	0.6232523457	3.37E-11	0.5689361144
TAM	CREB3L4	0.5067196227	0.01388799977	TAM	MA1474.1	0.6296388354	3.11E-12	0.5681792291
TAM	HOXC8	0.5102339181	0.000208297655	TAM	MA1505.1	0.615937226	4.50E-10	0.5630855721
TAM	HOXD3	0.5219298246	1.13E-08	TAM	MA0912.2	0.6032954287	2.77E-08	0.5626126266
TAM	TBX15	0.5210443464	3.13E-06	TAM	MA0803.1	0.6025704758	3.44E-08	0.5618074111
TAM	PKNOX2	0.5102339181	0.000208297655	TAM	MA0783.1	0.6115667958	1.97E-09	0.560900357
TAM	HOXB7	0.5061327561	0.04580323119	TAM	MA1501.1	0.614218052	8.09E-10	0.5601754041
TAM	GRHL1	0.5075947444	0.01639132637	TAM	MA0647.1	0.5695505983	0.000187542541	0.5385726713
TAM	ELF5	0.5058479532	0.007784205743	TAM	MA0136.2	0.5580031346	0.001851296396	0.5319255439

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT1	TAM	0.008823244947	0	0	MRT1	TGFB2 - (TGFB1+TGFB2)	TGFB2	TGFB1_R2	TGFb	Secreted Signaling
TAM	TAM	0.00539014928	0	0	MRT1	TGFB2 - (TGFB1+TGFB2)	TGFB2	TGFB1_R2	TGFb	Secreted Signaling
T_NK	TAM	0.005873145753	0	0	MRT1	TGFB2 - (TGFB1+TGFB2)	TGFB2	TGFB1_R2	TGFb	Secreted Signaling
MRT1	TAM	0.02020072703	0	0	MRT1	TGFB2 - (ACVR1+TGFB1)	TGFB2	ACVR1_TGFbR	TGFb	Secreted Signaling
TAM	TAM	0.009650494235	0	0	MRT1	TGFB2 - (ACVR1+TGFB1)	TGFB2	ACVR1_TGFbR	TGFb	Secreted Signaling
T_NK	TAM	0.01075573226	0	0	MRT1	TGFB2 - (ACVR1+TGFB1)	TGFB2	ACVR1_TGFbR	TGFb	Secreted Signaling
TAM	MRT1	0.01001715233	0	0	MRT1	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
MRT1	TAM	0.01074621	0	0	MRT1	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
MRT1	T_NK	0.003410376335	0	0	MRT1	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
MRT1	TAM	0.005892234716	0	0	MRT1	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
MRT1	T_NK	0.01090000883	0	0	MRT1	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
MRT1	TAM	0.002710800549	0	0	MRT1	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT1	TAM	0.02605406747	0	0	MRT1	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	TAM	0.007406744912	0	0	MRT1	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT1	TAM	0.007406744912	0	0	MRT1	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT1	TAM	0.02605406747	0	0	MRT1	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	TAM	0.007406744912	0	0	MRT1	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	TAM	0.02189588034	0	0	MRT1	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT1	TAM	0.007406744912	0	0	MRT1	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT1	TAM	0.01520980941	0	0	MRT1	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	TAM	0.004289714944	0	0	MRT1	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT1	T_NK	0.009650494235	0	0	MRT1	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	T_NK	0.002710800549	0	0	MRT1	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT1	TAM	0.004289714944	0	0	MRT1	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
MRT1	T_NK	0.002710800549	0	0	MRT1	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
MRT1	TAM	0.01520980941	0	0	MRT1	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
TAM	TAM	0.004289714944	0	0	MRT1	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
T_NK	TAM	0.0127596741	0	0	MRT1	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
MRT1	T_NK	0.009650494235	0	0	MRT1	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
TAM	T_NK	0.002710800549	0	0	MRT1	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
T_NK	T_NK	0.008088548762	0	0	MRT1	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
MRT1	TAM	0.004289714944	0	0	MRT1	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
MRT1	T_NK	0.002710800549	0	0	MRT1	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
TAM	T_NK	0.002710800549	0	0	MRT1	ALCAM - CD6	ALCAM	CD6	ALCAM	Cell-Cell Contact
MRT1	TAM	0.1509702435	0	0	MRT1	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	TAM	0.08941396676	0	0	MRT1	APP - CD74	APP	CD74	APP	Cell-Cell Contact
T_NK	TAM	0.0987434272	0	0	MRT1	APP - CD74	APP	CD74	APP	Cell-Cell Contact
MRT1	T_NK	0.02720723796	0	0	MRT1	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	T_NK	0.01520980941	0	0	MRT1	APP - CD74	APP	CD74	APP	Cell-Cell Contact
T_NK	T_NK	0.01694084558	0	0	MRT1	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	TAM	0.07978645997	0	0	MRT1	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
T_NK	TAM	0.1148014796	0	0	MRT1	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
T_NK	TAM	0.002710800549	0	0	MRT1	CD6 - ALCAM	CD6	ALCAM	CD6	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	CD86 - CD28	CD86	CD28	CD86	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	HLA-DPA1 - CD4	HLA-DPA1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.009650494235	0	0	MRT1	HLA-DPB1 - CD4	HLA-DPB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	HLA-DQA1 - CD4	HLA-DQA1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	HLA-DMA - CD4	HLA-DMA	CD4	MHC-II	Cell-Cell Contact
T_NK	TAM	0.002710800549	0	0	MRT1	HLA-DMA - CD4	HLA-DMA	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	HLA-DMB - CD4	HLA-DMB	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	HLA-DQB1 - CD4	HLA-DQB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.01470822344	0	0	MRT1	HLA-DRA - CD4	HLA-DRA	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.01802988027	0	0	MRT1	HLA-DRB1 - CD4	HLA-DRB1	CD4	MHC-II	Cell-Cell Contact
T_NK	TAM	0.002710800549	0	0	MRT1	HLA-DRB1 - CD4	HLA-DRB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002710800549	0	0	MRT1	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Monocyte	TAM	0.001964561523	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Fibroblast	TAM	0.001001914666	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	TAM	0.002004626443	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Monocyte	Fibroblast	0.0004339845804	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Fibroblast	Fibroblast	0.000221329549	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	Fibroblast	0.000442835185	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.001876715433	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.0009571136833	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.001914988834	0	0	MRT2	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Fibroblast	TAM	0.001001914666	0	0	MRT2	TGFB3 - (TGFB1+TGFB2)	TGFB3	TGFbR1_R2	TGFb	Secreted Signaling
Fibroblast	Fibroblast	0.000221329549	0	0	MRT2	TGFB3 - (TGFB1+TGFB2)	TGFB3	TGFbR1_R2	TGFb	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.0009571136833	0	0	MRT2	TGFB3 - (TGFB1+TGFB2)	TGFB3	TGFbR1_R2	TGFb	Secreted Signaling
Monocyte	TAM	0.002944729679	0	0	MRT2	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Fibroblast	TAM	0.002944729679	0	0	MRT2	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Endothelial_Cell	TAM	0.002944729679	0	0	MRT2	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Monocyte	Fibroblast	0.002238828635	0	0	MRT2	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Fibroblast	Fibroblast	0.002238828635	0	0	MRT2	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Endothelial_Cell	Fibroblast	0.002238828635	0	0	MRT2	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Fibroblast	TAM	0.002944729679	0	0	MRT2	TGFB3 - (ACVR1+TGFB1)	TGFB3	ACVR1_TGFbR	TGFb	Secreted Signaling
Fibroblast	Fibroblast	0.002238828635	0	0	MRT2	TGFB3 - (ACVR1+TGFB1)	TGFB3	ACVR1_TGFbR	TGFb	Secreted Signaling
MRT2	Fibroblast	0.001463961959	0	0	MRT2	MSTN - (TGFB1+ACVR2A)	MSTN	TGFB1_ACVR2A	MSTN	Secreted Signaling
MRT2	Endothelial_Progenitor	0.001755461925	0	0	MRT2	MSTN - (TGFB1+ACVR2A)	MSTN	TGFB1_ACVR2A	MSTN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.001292463048	0	0	MRT2	WNT2B - (FZD4+LRP6)	WNT2B	FZD4_LRP6	WNT	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.0009912707966	0	0	MRT2	WNT2B - (FZD4+LRP6)	WNT2B	FZD4_LRP6	WNT	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.0009912707966	0	0	MRT2	WNT2B - (FZD6+LRP6)	WNT2B	FZD6_LRP6	WNT	Secreted Signaling
T_NK	MRT2	0.01825053912	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling
T_NK	TAM	0.007495504739	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling
T_NK	Monocyte	0.00920930697	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling
T_NK	T_NK	0.00920930697	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
T_NK	Fibroblast	0.01486110792	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling
T_NK	Endothelial_Cell	0.002318339467	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling
T_NK	Endothelial_Progenitor	0.006922919049	0	0	MRT2	AREG - EGFR	AREG	EGFR	EGF	Secreted Signaling
TAM	MRT2	0.01159289477	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	MRT2	0.008719943425	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	TAM	0.004742255781	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	TAM	0.003560913527	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	Monocyte	0.005830242077	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.004379064309	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	T_NK	0.005830242077	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	T_NK	0.004379064309	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	Fibroblast	0.009428025929	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.007087725261	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	Endothelial_Cell	0.001463961959	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.001098373463	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	Endothelial_Progenitor	0.004379064309	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.003287897711	0	0	MRT2	HBEGF - EGFR	HBEGF	EGFR	EGF	Secreted Signaling
TAM	MRT2	0.03112343334	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	MRT2	0.02352562456	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
TAM	TAM	0.009428025929	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	TAM	0.007087725261	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
TAM	Monocyte	0.01192052599	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.008967117684	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
TAM	T_NK	0.01366712048	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	T_NK	0.0102854836	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
TAM	Fibroblast	0.005830242077	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.004379064309	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
TAM	Endothelial_Cell	0.003775526319	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.002834320001	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
TAM	Endothelial_Progenitor	0.009312231471	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.007000471105	0	0	MRT2	HBEGF - ERBB4	HBEGF	ERBB4	EGF	Secreted Signaling
MRT2	MRT2	0.4651875333	0	0	MRT2	NRG1 - ERBB4	NRG1	ERBB4	NRG	Secreted Signaling
MRT2	Endothelial_Cell	0.07355672341	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
TAM	Endothelial_Cell	0.02401707775	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
Monocyte	Endothelial_Cell	0.0276233234	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
T_NK	Endothelial_Cell	0.03233523797	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
Fibroblast	Endothelial_Cell	0.02004872112	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.01493296586	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01867993693	0	0	MRT2	NRG1 - (ITGAV+ITGB3)	NRG1	ITGAV_ITGB3	NRG	Secreted Signaling
MRT2	MRT2	0.01187088178	0.02	1	MRT2	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
MRT2	Fibroblast	0.03770866098	0	0	MRT2	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
Fibroblast	MRT2	0.002318339467	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	TAM	0.001463961959	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Monocyte	0.004379064309	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	T_NK	0.004379064309	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Fibroblast	0.007522650672	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.002318339467	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.002318339467	0	0	MRT2	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Endothelial_Cell	Fibroblast	0.001006241696	0	0	MRT2	PDGFA - PDGFRA	PDGFA	PDGFRA	PDGF	Secreted Signaling
Endothelial_Cell	Fibroblast	0.003890992055	0	0	MRT2	PDGFA - PDGFRB	PDGFA	PDGFRB	PDGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.002872015404	0	0	MRT2	PDGFB - PDGFRA	PDGFB	PDGFRA	PDGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01091919068	0	0	MRT2	PDGFB - PDGFRB	PDGFB	PDGFRB	PDGF	Secreted Signaling
TAM	Fibroblast	0.004890146052	0	0	MRT2	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Fibroblast	Fibroblast	0.001551062843	0	0	MRT2	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
T_NK	Fibroblast	0.00672742481	0	0	MRT2	PDGFD - PDGFRB	PDGFD	PDGFRB	PDGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01885500309	0	0	MRT2	PDGFD - PDGFRB	PDGFD	PDGFRB	PDGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.03469875403	0	0	MRT2	VEGFA - VEGFR1	VEGFA	FLT1	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.01914873229	0	0	MRT2	VEGFA - VEGFR2	VEGFA	KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.02277218427	0	0	MRT2	VEGFA - VEGFR2	VEGFA	KDR	VEGF	Secreted Signaling
MRT2	Endothelial_Cell	0.1026672266	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
TAM	Endothelial_Cell	0.04114004384	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Monocyte	Endothelial_Cell	0.0541113441	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
T_NK	Endothelial_Cell	0.0541113441	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.04114004384	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.01410006617	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.07789798297	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
MRT2	Endothelial_Progenitor	0.01659455049	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
TAM	Endothelial_Progenitor	0.006288174829	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.008366696023	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
T_NK	Endothelial_Progenitor	0.008366696023	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.006288174829	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.002104882188	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01230620506	0	0	MRT2	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
MRT2	Endothelial_Cell	0.08969999342	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
TAM	Endothelial_Cell	0.03563530148	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Monocyte	Endothelial_Cell	0.0469559719	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
T_NK	Endothelial_Cell	0.0469559719	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.03563530148	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.0121674954	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.06782273691	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
MRT2	Endothelial_Progenitor	0.1052412112	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
TAM	Endothelial_Progenitor	0.04224409128	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.05554332921	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
T_NK	Endothelial_Progenitor	0.05554332921	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Endothelial_Progenitor	0.04224409128	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.0144894255	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.07990627297	0	0	MRT2	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.02217647442	0	0	MRT2	PGF - VEGFR1	PGF	FLT1	VEGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.03448453985	0	0	MRT2	VEGFA - VEGFR1R2	VEGFA	FLT1_KDR	VEGF	Secreted Signaling
MRT2	Endothelial_Cell	0.1102428748	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
TAM	Endothelial_Cell	0.04440034137	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Monocyte	Endothelial_Cell	0.05833706003	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
T_NK	Endothelial_Cell	0.05833706003	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.04440034137	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.01525156354	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.08381666622	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
MRT2	Endothelial_Progenitor	0.05211324194	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
TAM	Endothelial_Progenitor	0.02020040872	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.02675373285	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
T_NK	Endothelial_Progenitor	0.02675373285	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.02020040872	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.00682538664	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.03901030155	0	0	MRT2	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Endothelial_Cell	MRT2	0.01513075603	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	TAM	0.004489120943	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Monocyte	0.0176235822	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	T_NK	0.01270790945	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Fibroblast	0.01837585101	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.02984920895	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.009643945731	0	0	MRT2	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.008595570007	0	0	MRT2	IGF1 - (ITGAV+ITGB3)	IGF1	ITGAV_ITGB3	IGF	Secreted Signaling
Fibroblast	TAM	0.01246442	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Endothelial_Cell	TAM	0.04328968221	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Endothelial_Progenitor	TAM	0.01246442	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Fibroblast	Monocyte	0.01467697866	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Endothelial_Cell	Monocyte	0.05069314847	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.01467697866	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Fibroblast	T_NK	0.006814655149	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Endothelial_Cell	T_NK	0.02400737812	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Endothelial_Progenitor	T_NK	0.006814655149	0	0	MRT2	MIF - (CD74+CD44)	MIF	CD74_CD44	MIF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.0003663927785	0	0	MRT2	MIF - ACKR3	MIF	ACKR3	MIF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.001312261513	0	0	MRT2	MIF - ACKR3	MIF	ACKR3	MIF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.0003663927785	0	0	MRT2	MIF - ACKR3	MIF	ACKR3	MIF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.001463961959	0	0	MRT2	MIF - ACKR3	MIF	ACKR3	MIF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.005228462722	0	0	MRT2	MIF - ACKR3	MIF	ACKR3	MIF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.001463961959	0	0	MRT2	MIF - ACKR3	MIF	ACKR3	MIF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	TAM	0.001463961959	0	0	MRT2	IL16 - CD4	IL16	CD4	IL16	Secreted Signaling
TAM	MRT2	0.1964158776	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	MRT2	0.02288001201	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	TAM	0.1545583986	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.01721202372	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Monocyte	0.1447450375	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.01595461452	0.01	0.0625	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	T_NK	0.2098834377	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	T_NK	0.02481627284	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Fibroblast	0.1301765951	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01413456877	0.03	0.176470586	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.02368172598	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.08844342506	0	0	MRT2	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.04626775175	0	0	MRT2	SPP1 - (ITGAV+ITGB3)	SPP1	ITGAV_ITGB3	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.004625954402	0	0	MRT2	SPP1 - (ITGAV+ITGB3)	SPP1	ITGAV_ITGB3	SPP1	Secreted Signaling
TAM	MRT2	0.1565984478	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	MRT2	0.01747668379	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.1315804856	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.01430758814	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Monocyte	0.1163061261	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.01245151736	0.02	0.1	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	T_NK	0.1423234765	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	T_NK	0.01564827372	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.1697004504	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01920392573	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.1453054172	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01602572569	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.1379385713	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01509745951	0	0	MRT2	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.08412595182	0	0	MRT2	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.008722731237	0	0	MRT2	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
TAM	Fibroblast	0.1232095093	0	0	MRT2	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01328323965	0	0	MRT2	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
TAM	TAM	0.1315804856	0	0	MRT2	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.01430758814	0	0	MRT2	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
TAM	Monocyte	0.1421429057	0	0	MRT2	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.0156254922	0	0	MRT2	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
TAM	T_NK	0.09457670609	0	0	MRT2	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	T_NK	0.009907665266	0	0	MRT2	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.08757961011	0	0	MRT2	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.009111625573	0	0	MRT2	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.2314815777	0	0	MRT2	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Endothelial_Cell	0.02804600246	0	0	MRT2	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.1643995122	0	0	MRT2	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01849931105	0	0	MRT2	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.138634313	0	0	MRT2	SPP1 - (ITGA8+ITGB1)	SPP1	ITGA8_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01518452248	0	0	MRT2	SPP1 - (ITGA8+ITGB1)	SPP1	ITGA8_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.1379385713	0	0	MRT2	SPP1 - (ITGA8+ITGB1)	SPP1	ITGA8_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01509745951	0	0	MRT2	SPP1 - (ITGA8+ITGB1)	SPP1	ITGA8_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.09172557296	0	0	MRT2	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.009581974018	0	0	MRT2	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.1202359146	0	0	MRT2	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01292355152	0	0	MRT2	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.09203686948	0	0	MRT2	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.009617445031	0	0	MRT2	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
TAM	MRT2	0.0160788418	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Monocyte	MRT2	0.01225050658	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	MRT2	0.002318339467	0.01	0.052631571	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Monocyte	0.02524690109	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Monocyte	Monocyte	0.01927844255	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Endothelial_Cell	0.0160788418	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Monocyte	Endothelial_Cell	0.01225050658	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
T_NK	Endothelial_Cell	0.002318339467	0.04	0.190476190	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.002318339467	0.01	0.052631571	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
MRT2	Endothelial_Progenitor	0.02331295705	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Endothelial_Progenitor	0.2101444887	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.1679990879	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
T_NK	Endothelial_Progenitor	0.03645304503	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.02331295705	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.02331295705	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.03645304503	0	0	MRT2	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
MRT2	Fibroblast	0.006067008004	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
TAM	Fibroblast	0.06370294813	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Monocyte	Fibroblast	0.04910129017	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
T_NK	Fibroblast	0.009581974018	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Fibroblast	0.006067008004	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Cell	Fibroblast	0.006067008004	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.009581974018	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
MRT2	Endothelial_Cell	0.008192930982	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
TAM	Endothelial_Cell	0.08431175871	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Monocyte	Endothelial_Cell	0.06531579044	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
T_NK	Endothelial_Cell	0.01292355152	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Cell	0.008192930982	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.008192930982	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Endothelial_Cell	0.01292355152	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
MRT2	Endothelial_Progenitor	0.006089547149	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
TAM	Endothelial_Progenitor	0.06392583547	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.04927577717	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
T_NK	Endothelial_Progenitor	0.009617445031	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.006089547149	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.006089547149	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.009617445031	0	0	MRT2	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Fibroblast	0.006067008004	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Endothelial_Cell	Fibroblast	0.009581974018	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01553361723	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Cell	0.008192930982	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.01292355152	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.02090693263	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.006089547149	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.009617445031	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.0155907735	0	0	MRT2	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	TAM	0.001463961959	0	0	MRT2	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Endothelial_Cell	TAM	0.002318339467	0	0	MRT2	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Endothelial_Progenitor	TAM	0.003775526319	0	0	MRT2	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Cell	0.001463961959	0	0	MRT2	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.002318339467	0	0	MRT2	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.003775526319	0	0	MRT2	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Endothelial_Cell	MRT2	0.00537897585	0	0	MRT2	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Progenitor	MRT2	0.01024088565	0	0	MRT2	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.00471265382	0	0	MRT2	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.008977729545	0	0	MRT2	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.007752636664	0	0	MRT2	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01472826365	0	0	MRT2	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Cell	Fibroblast	0.02202029908	0	0	MRT2	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.04129927942	0	0	MRT2	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.02540381529	0	0	MRT2	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.04750121494	0	0	MRT2	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.01871415222	0	0	MRT2	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.0352027606	0	0	MRT2	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
MRT2	MRT2	0.03833775429	0	0	MRT2	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
Fibroblast	MRT2	0.04258716429	0	0	MRT2	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
MRT2	TAM	0.03178785112	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Monocyte	TAM	0.0267396855	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
T_NK	TAM	0.03533793888	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Fibroblast	TAM	0.03533793888	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	TAM	0.01300462963	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT2	Monocyte	0.03465928487	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Monocyte	Monocyte	0.02916885044	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
T_NK	Monocyte	0.03851729881	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Fibroblast	Monocyte	0.03851729881	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.01420424477	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
MRT2	T_NK	0.02213303783	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Monocyte	T_NK	0.01858869689	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
T_NK	T_NK	0.02463230173	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Fibroblast	T_NK	0.02463230173	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	T_NK	0.009001738144	0	0	MRT2	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
MRT2	MRT2	0.04603646687	0	0	MRT2	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Fibroblast	MRT2	0.05109387447	0	0	MRT2	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.05480415654	0	0	MRT2	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Fibroblast	MRT2	0.005830242077	0.01	0.05555555555	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT2	TAM	0.01849389083	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Monocyte	TAM	0.01552306464	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
T_NK	TAM	0.02059087502	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Fibroblast	TAM	0.02059087502	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Progenitor	TAM	0.007505088215	0.01	0.05555555555	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT2	Fibroblast	0.02805550624	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Monocyte	Fibroblast	0.02358525328	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
T_NK	Fibroblast	0.03120170433	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Fibroblast	Fibroblast	0.03120170433	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01145143251	0	0	MRT2	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Fibroblast	MRT2	0.03667479107	0	0	MRT2	MDK - NCL	MDK	NCL	MK	Secreted Signaling
T_NK	Endothelial_Cell	0.004625954402	0	0	MRT2	POSTN - (ITGAV+ITGB3)	POSTN	ITGAV_ITGB3	PERIOSTIN	Secreted Signaling
Fibroblast	Endothelial_Cell	0.05283091508	0	0	MRT2	POSTN - (ITGAV+ITGB3)	POSTN	ITGAV_ITGB3	PERIOSTIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.004625954402	0	0	MRT2	POSTN - (ITGAV+ITGB3)	POSTN	ITGAV_ITGB3	PERIOSTIN	Secreted Signaling
T_NK	TAM	0.008722731237	0	0	MRT2	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Fibroblast	TAM	0.09552150825	0	0	MRT2	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Endothelial_Progenitor	TAM	0.008722731237	0	0	MRT2	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
T_NK	Fibroblast	0.01328323965	0	0	MRT2	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Fibroblast	Fibroblast	0.1390952199	0	0	MRT2	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01328323965	0	0	MRT2	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
MRT2	TAM	0.09803215654	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Cell	TAM	0.08598466407	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	Fibroblast	0.05943347572	0.01	0.07692307692	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.2357459409	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.08808329096	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.1083840942	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
T_NK	Endothelial_Progenitor	0.127413267	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.08808329096	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Endothelial_Progenitor	0.2107283581	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.08988916381	0	0	MRT2	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	TAM	0.02782483892	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	Fibroblast	0.01636760259	0.01	0.083333333	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.07512750563	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.04272929229	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.04272929229	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
T_NK	Endothelial_Progenitor	0.05617232187	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.04272929229	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.04272929229	0	0	MRT2	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	TAM	0.02215582357	0	0	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
TAM	TAM	0.01548405539	0.04	0.307692307	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Monocyte	TAM	0.02053939614	0.04	0.307692307	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
T_NK	TAM	0.02053939614	0.02	0.181818181	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	Fibroblast	0.01300165915	0.01	0.1	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.06042003337	0	0	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.04272929229	0	0	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.05617232187	0	0	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
T_NK	Endothelial_Progenitor	0.05617232187	0	0	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.02889778888	0	0	MRT2	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT2	MRT2	0.03429720517	0	0	MRT2	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT2	Endothelial_Cell	0.05248260142	0	0	MRT2	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.04866758656	0	0	MRT2	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT2	T_NK	0.0197554714	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
TAM	T_NK	0.01095326532	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Monocyte	T_NK	0.01095326532	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
T_NK	T_NK	0.01455122595	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	T_NK	0.01095326532	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	T_NK	0.003677945449	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	T_NK	0.01095326532	0	0	MRT2	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
MRT2	Endothelial_Cell	0.04200690138	0	0	MRT2	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.0389220956	0	0	MRT2	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT2	T_NK	0.01570394698	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
TAM	T_NK	0.01095326532	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Monocyte	T_NK	0.01455122595	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
T_NK	T_NK	0.01455122595	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	T_NK	0.003677945449	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	T_NK	0.003677945449	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	T_NK	0.007328935473	0	0	MRT2	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	MRT2	0.006463261734	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	TAM	0.003267605539	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Monocyte	0.005408035276	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	T_NK	0.005053084736	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.002923643814	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01004376917	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.009283452128	0	0	MRT2	SEMA3F - (NRP2+PLXNA2)	SEMA3F	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	T_NK	0.003677945449	0	0	MRT2	SEMA3F - (NRP2+PLXNA4)	SEMA3F	NRP2_PLXNA4	SEMA3	Secreted Signaling
MRT2	TAM	0.03597343574	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
TAM	TAM	0.02009330905	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Monocyte	TAM	0.02009330905	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
T_NK	TAM	0.02661283212	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Fibroblast	TAM	0.02009330905	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Endothelial_Cell	TAM	0.00678870809	0.02	0.0625	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Endothelial_Progenitor	TAM	0.02009330905	0.01	0.035714285	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
MRT2	Fibroblast	0.02027664584	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
TAM	Fibroblast	0.01124489022	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Monocyte	Fibroblast	0.01124489022	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
T_NK	Fibroblast	0.01493719791	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.01124489022	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Endothelial_Cell	Fibroblast	0.003776608438	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01124489022	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.05220465091	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.02937776042	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.02937776042	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
T_NK	Endothelial_Progenitor	0.038790488	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.02937776042	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.009988207586	0.02	0.0625	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.02937776042	0	0	MRT2	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
MRT2	TAM	0.01252730257	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
TAM	TAM	0.006922919049	0.01	0.026315785	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Monocyte	TAM	0.006922919049	0.01	0.026315785	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
T_NK	TAM	0.00920930697	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	TAM	0.006922919049	0.01	0.026315785	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Cell	TAM	0.002318339467	0.04	0.093023255	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Progenitor	TAM	0.006922919049	0.01	0.026315785	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
MRT2	Fibroblast	0.007940560746	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
TAM	Fibroblast	0.004379064309	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Monocyte	Fibroblast	0.004379064309	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
T_NK	Fibroblast	0.005830242077	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.004379064309	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Cell	Fibroblast	0.001463961959	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.004379064309	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
MRT2	Endothelial_Cell	0.04987030968	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
TAM	Endothelial_Cell	0.02803393751	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Monocyte	Endothelial_Cell	0.02803393751	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
T_NK	Endothelial_Cell	0.03703252749	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.02803393751	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.009522616798	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.02803393751	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.03973637098	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.02223344316	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.02223344316	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
T_NK	Endothelial_Progenitor	0.0294265067	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.02223344316	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.007522650672	0.02	0.05	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.02223344316	0	0	MRT2	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
MRT2	TAM	0.003669504751	0	0	MRT2	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT2	Fibroblast	0.002318339467	0	0	MRT2	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT2	Endothelial_Cell	0.01500938266	0	0	MRT2	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT2	Endothelial_Progenitor	0.01187088178	0	0	MRT2	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
Monocyte	TAM	0.007522650672	0	0	MRT2	GRN - SORT1	GRN	SORT1	GRN	Secreted Signaling
Monocyte	TAM	0.01215449662	0	0	MRT2	LGALS9 - CD45	LGALS9	PTPRC	GALECTIN	Secreted Signaling
Monocyte	Monocyte	0.01743998074	0	0	MRT2	LGALS9 - CD45	LGALS9	PTPRC	GALECTIN	Secreted Signaling
Monocyte	T_NK	0.01642798467	0	0	MRT2	LGALS9 - CD45	LGALS9	PTPRC	GALECTIN	Secreted Signaling
MRT2	TAM	0.002318339467	0	0	MRT2	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Endothelial_Cell	TAM	0.002318339467	0	0	MRT2	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Endothelial_Progenitor	TAM	0.008261649471	0	0	MRT2	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
MRT2	Fibroblast	0.001463961959	0	0	MRT2	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Endothelial_Cell	Fibroblast	0.001463961959	0	0	MRT2	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.005228462722	0	0	MRT2	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Fibroblast	TAM	0.001463961959	0	0	MRT2	RARRES2 - CMKLR1	RARRES2	CMKLR1	CHEMERIN	Secreted Signaling
Monocyte	TAM	0.005228462722	0	0	MRT2	LGALS9 - HAVCR2	LGALS9	HAVCR2	GALECTIN	Secreted Signaling
Monocyte	Monocyte	0.002318339467	0	0	MRT2	LGALS9 - HAVCR2	LGALS9	HAVCR2	GALECTIN	Secreted Signaling
Monocyte	MRT2	0.01455861814	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
Monocyte	TAM	0.01092900379	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
Monocyte	Monocyte	0.01012586589	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
Monocyte	T_NK	0.01580205511	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
Monocyte	Fibroblast	0.008964685608	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
Monocyte	Endothelial_Cell	0.001463961959	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
Monocyte	Endothelial_Progenitor	0.005830242077	0	0	MRT2	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
MRT2	Fibroblast	0.007626096425	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.00482511173	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Fibroblast	0.01708475108	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.02366874136	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1029825252	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.00482511173	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT2	Endothelial_Cell	0.008077587443	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.005111629029	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.01808602111	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.02504604087	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1084624211	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.005111629029	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.02133397695	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.0135670643	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.04698947918	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.0643435113	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.2456624223	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0135670643	0	0	MRT2	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.00482511173	0	0	MRT2	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1012645044	0	0	MRT2	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.005111629029	0	0	MRT2	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1066638518	0	0	MRT2	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.0135670643	0	0	MRT2	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.2422068307	0	0	MRT2	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.0205248006	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04583213804	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.06558660698	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02172322271	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04843515875	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.06923017247	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.0561071919	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1199166508	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1660460449	0	0	MRT2	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.03195094626	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04542095215	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.06026955282	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03379351117	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04800179454	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.06363785416	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.0856106641	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1189236509	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1539264169	0	0	MRT2	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.007626096425	0	0	MRT2	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.008077587443	0	0	MRT2	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.02133397695	0	0	MRT2	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Fibroblast	0.03051529761	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01433698013	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Fibroblast	0.01433698013	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
T_NK	Fibroblast	0.0190250529	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.07152829656	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.00482511173	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01433698013	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.03227783127	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.01517970109	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.01517970109	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.02013770666	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07547528205	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.005111629029	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01517970109	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.08196808385	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.03962597657	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.03962597657	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.05214585857	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1793419195	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.0135670643	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.03962597657	0	0	MRT2	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Fibroblast	0.02445345362	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01433698013	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Fibroblast	0.01433698013	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.0190250529	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.07539345992	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01708475108	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.0190250529	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.02587520587	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.01517970109	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.01517970109	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.02013770666	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07953545766	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01808602111	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.02013770666	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.06638506039	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.03962597657	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.03962597657	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.05214585857	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1878542562	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04698947918	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.05214585857	0	0	MRT2	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.08620527373	0	0	MRT2	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.09088287066	0	0	MRT2	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.211111222	0	0	MRT2	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT2	Fibroblast	0.00482511173	0	0	MRT2	COL9A3 - (ITGA1+ITGB1)	COL9A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.005111629029	0	0	MRT2	COL9A3 - (ITGA1+ITGB1)	COL9A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.0135670643	0	0	MRT2	COL9A3 - (ITGA1+ITGB1)	COL9A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.01827505437	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.01160857281	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.04040386996	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.05546728018	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.2175899952	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01160857281	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.01131981	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.00717196802	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.02524324511	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.03485978699	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1460643201	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.00717196802	0	0	MRT2	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.01160857281	0	0	MRT2	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.2144170398	0	0	MRT2	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.00717196802	0	0	MRT2	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1437427522	0	0	MRT2	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04830850365	0	0	MRT2	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1042280657	0	0	MRT2	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1453189005	0	0	MRT2	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03027542528	0	0	MRT2	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.06678564021	0	0	MRT2	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.09467532702	0	0	MRT2	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07403274981	0	0	MRT2	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1033497231	0	0	MRT2	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1344682006	0	0	MRT2	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04686998908	0	0	MRT2	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.06619951099	0	0	MRT2	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.08722019292	0	0	MRT2	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01827505437	0	0	MRT2	COL4A5 - (ITGA2+ITGB1)	COL4A5	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01131981	0	0	MRT2	COL4A5 - (ITGA2+ITGB1)	COL4A5	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.07084462212	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.034035511	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.034035511	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.04487160533	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1572680688	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01160857281	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.034035511	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.04479500428	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.02121164557	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Monocyte	Endothelial_Progenitor	0.02121164557	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.02808362745	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1029618786	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.00717196802	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.02121164557	0	0	MRT2	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.05724442679	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.034035511	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.034035511	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.04487160533	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.164943266	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04040386996	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.04487160533	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.03600184512	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.02121164557	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.02121164557	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.02808362745	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1083274363	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.02524324511	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.02808362745	0	0	MRT2	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1860134371	0	0	MRT2	COL6A3 - (ITGA2+ITGB1)	COL6A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1232326791	0	0	MRT2	COL6A3 - (ITGA2+ITGB1)	COL6A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.01160857281	0	0	MRT2	COL9A3 - (ITGA2+ITGB1)	COL9A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.00717196802	0	0	MRT2	COL9A3 - (ITGA2+ITGB1)	COL9A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1347500655	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.07255174137	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	TAM	0.01300462963	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Fibroblast	Monocyte	0.1455242825	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Monocyte	0.07880571553	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.01420424477	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Fibroblast	T_NK	0.09695443587	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	T_NK	0.05117019583	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	T_NK	0.009001738144	0	0	MRT2	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.09403906789	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04955598653	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.008705565277	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1231709799	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06591023155	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01174513211	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.09435740024	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04973200484	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.008737820581	0	0	MRT2	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1419460359	0	0	MRT2	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Endothelial_Cell	0.07672069174	0	0	MRT2	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01380282191	0	0	MRT2	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1412363993	0	0	MRT2	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.07630813974	0	0	MRT2	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01372357075	0	0	MRT2	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
MRT2	Fibroblast	0.00482511173	0	0	MRT2	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.05290703071	0	0	MRT2	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05588833203	0	0	MRT2	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1367881628	0	0	MRT2	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Fibroblast	0.0190250529	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
TAM	Fibroblast	0.00482511173	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Monocyte	Fibroblast	0.00482511173	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
T_NK	Fibroblast	0.0190250529	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.03051529761	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04591124337	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.0428295359	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.02013770666	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.02013770666	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03227783127	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04851852839	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.04527011566	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.05214585857	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Progenitor	0.05214585857	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.08196808385	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1201075289	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.112633473	0	0	MRT2	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.02593666155	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.03057469324	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.03949700402	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02744222342	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0323405431	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.04175596847	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.07022851022	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.0821191453	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1044623158	0	0	MRT2	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Fibroblast	0.00482511173	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.00482511173	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.00482511173	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Fibroblast	0.007626096425	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Monocyte	Fibroblast	0.00482511173	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
T_NK	Fibroblast	0.00482511173	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.02445345362	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.03936282898	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.03051529761	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.008077587443	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.005111629029	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02587520587	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.041614452	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.03227783127	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.02133397695	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Progenitor	0.0135670643	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06638506039	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1041313736	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.08196808385	0	0	MRT2	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1191912296	0	0	MRT2	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.07683456864	0	0	MRT2	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.04487160533	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.04487160533	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07084462212	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1043969336	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.09779186165	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.02808362745	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Progenitor	0.02808362745	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04479500428	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Endothelial_Progenitor	0.06689837525	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.06250022755	0	0	MRT2	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.06059301415	0	0	MRT2	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.07097676872	0	0	MRT2	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.09058749418	0	0	MRT2	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03815811483	0	0	MRT2	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04488090755	0	0	MRT2	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.05772944702	0	0	MRT2	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.01827505437	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.01160857281	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05724442679	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.09029607611	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.07084462212	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.01131981	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Progenitor	0.00717196802	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03600184512	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.05753704491	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.04479500428	0	0	MRT2	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT2	MRT2	0.01328245779	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.1342705042	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.08802759776	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Monocyte	0.08395994318	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.1035897446	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.05290703071	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05588833203	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1431098889	0	0	MRT2	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT2	MRT2	0.05109387447	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.08036548012	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.1178549691	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.1105034816	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.07676429193	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.07176740953	0.03	0.2	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Monocyte	0.07317534052	0.03	0.2	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.0905329014	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	T_NK	0.08472201314	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.08600871189	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1257706733	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1179914678	0	0	MRT2	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.06883822246	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.08051384711	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.1024690042	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.04398532589	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.05167960944	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.06633930041	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Monocyte	0.04185940154	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Monocyte	0.0492009394	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.06320438022	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.05220709185	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.06124745576	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	T_NK	0.07839683964	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.02593666155	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.03057469324	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.03949700402	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02744222342	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0323405431	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.04175596847	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.07373691622	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.086166521	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1094795639	0	0	MRT2	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT2	MRT2	0.01328245779	0	0	MRT2	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.01328245779	0.03	1	MRT2	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.06506553538	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.1021436566	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.08036548012	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.06612021673	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.05158139605	0.03	0.2	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Monocyte	0.062994951	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.07814126892	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	T_NK	0.0611322315	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06971585619	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1091346638	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.08600871189	0	0	MRT2	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04467697046	0	0	MRT2	TNC - (ITGA8+ITGB1)	TNC	ITGA8_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04442843635	0	0	MRT2	TNC - (ITGA8+ITGB1)	TNC	ITGA8_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	TAM	0.02713385	0	0	MRT2	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08047755735	0	0	MRT2	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Endothelial_Progenitor	0.05407645067	0	0	MRT2	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
MRT2	TAM	0.009111625573	0.02	0.125	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	TAM	0.02819053192	0.01	0.071428571	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1207822841	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.02804600246	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.06126784136	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.08343346264	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.3012285281	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.01849931105	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Progenitor	0.04088836376	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.05612183934	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.2197126997	0	0	MRT2	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	TAM	0.00576819313	0.01	0.111111111	MRT2	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1188066458	0	0	MRT2	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.0178801337	0	0	MRT2	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.2972993708	0	0	MRT2	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.01175200309	0	0	MRT2	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.2165173565	0	0	MRT2	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.02446100582	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.05435241257	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.07748106358	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07294403071	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1528018558	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.2085833326	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04888295552	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1053938351	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1468689086	0	0	MRT2	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.03799343588	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.05386910207	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.07127328621	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1102667289	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1515834444	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1940814843	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.07488902589	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1045068145	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.1359208781	0	0	MRT2	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.009111625573	0	0	MRT2	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.02804600246	0	0	MRT2	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01849931105	0	0	MRT2	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	TAM	0.03629646063	0.02	0.125	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.0844029755	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.1056963419	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Endothelial_Cell	0.05178843289	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.05178843289	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.06787945368	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.2243689264	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.05178843289	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.0716668777	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.04540713789	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1589218308	0	0	MRT2	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	TAM	0.02912068793	0.02	0.1	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.08889723486	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.08602502611	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.05178843289	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Endothelial_Cell	0.05178843289	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.06787945368	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.2344079879	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06126784136	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.06787945368	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.05791867174	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Progenitor	0.04540713789	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1666617757	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04088836376	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.04540713789	0	0	MRT2	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1014331169	0	0	MRT2	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.261572174	0	0	MRT2	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1879020755	0	0	MRT2	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	TAM	0.00576819313	0.02	0.6666666666	MRT2	COL9A3 - (ITGA9+ITGB1)	COL9A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Cell	0.0178801337	0	0	MRT2	COL9A3 - (ITGA9+ITGB1)	COL9A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Endothelial_Progenitor	0.01175200309	0	0	MRT2	COL9A3 - (ITGA9+ITGB1)	COL9A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT2	TAM	0.00576819313	0.02	0.2222222222	MRT2	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.06265617423	0	0	MRT2	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.0178801337	0	0	MRT2	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1733885758	0	0	MRT2	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.01175200309	0	0	MRT2	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1205018452	0	0	MRT2	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	TAM	0.02268029948	0.02	0.105263157	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.03629646063	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.0544453846	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.05082135198	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.06787945368	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.06787945368	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1056963419	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1530359768	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Endothelial_Cell	0.1438478376	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.04540713789	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
T_NK	Endothelial_Progenitor	0.04540713789	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.0716668777	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.1055643692	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.09889359092	0	0	MRT2	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.03087802353	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.03636668675	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.04689745076	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.09089485348	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1058860891	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1337535182	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06130413524	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.07180043954	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.09161630063	0	0	MRT2	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	TAM	0.00576819313	0.02	0.285714285	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.0178801337	0	0	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0178801337	0	0	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0178801337	0	0	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Progenitor	0.01175200309	0	0	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01175200309	0.02	0.285714285	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01175200309	0.01	0.2	MRT2	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.02912068793	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.04673935906	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.03629646063	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.02804600246	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08602502611	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1333435971	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1056963419	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.05791867174	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.09132190525	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0716668777	0	0	MRT2	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT2	Fibroblast	0.007626096425	0	0	MRT2	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.00482511173	0	0	MRT2	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Fibroblast	0.01708475108	0	0	MRT2	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.02366874136	0	0	MRT2	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1029825252	0	0	MRT2	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.00482511173	0	0	MRT2	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.00482511173	0	0	MRT2	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1012645044	0	0	MRT2	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.0205248006	0	0	MRT2	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04583213804	0	0	MRT2	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Fibroblast	0.06558660698	0	0	MRT2	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.03195094626	0	0	MRT2	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04542095215	0	0	MRT2	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.06026955282	0	0	MRT2	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.007626096425	0	0	MRT2	COL4A5 - (ITGA11+ITGB1)	COL4A5	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Fibroblast	0.03051529761	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01433698013	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Fibroblast	0.01433698013	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.0190250529	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.07152829656	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.00482511173	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01433698013	0	0	MRT2	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Fibroblast	0.02445345362	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01433698013	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Monocyte	Fibroblast	0.01433698013	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.0190250529	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.07539345992	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01708475108	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.0190250529	0	0	MRT2	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.08620527373	0	0	MRT2	COL6A3 - (ITGA11+ITGB1)	COL6A3	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
MRT2	Fibroblast	0.00482511173	0	0	MRT2	COL9A3 - (ITGA11+ITGB1)	COL9A3	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.1602594603	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	MRT2	0.08747685956	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	MRT2	0.01588977555	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	TAM	0.1347500655	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.07255174137	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	TAM	0.01300462963	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Monocyte	0.1191582548	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Monocyte	0.06362760661	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	T_NK	0.1457084191	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	T_NK	0.07891322755	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	T_NK	0.01422498409	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.1736047171	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.0954502143	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01746296896	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1487489807	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.08069159927	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.014568613	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1412363993	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.07630813974	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01372357075	0	0	MRT2	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04749466671	0	0	MRT2	FN1 - (ITGAV+ITGB3)	FN1	ITGAV_ITGB3	FN1	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Endothelial_Cell	0.0244345629	0	0	MRT2	FN1 - (ITGAV+ITGB3)	FN1	ITGAV_ITGB3	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.00420092193	0	0	MRT2	FN1 - (ITGAV+ITGB3)	FN1	ITGAV_ITGB3	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.03385526137	0	0	MRT2	VWF - (ITGAV+ITGB3)	VWF	ITGAV_ITGB3	VWF	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01390026477	0	0	MRT2	TNC - (ITGAV+ITGB3)	TNC	ITGAV_ITGB3	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.005830242077	0	0	MRT2	THBS1 - (ITGAV+ITGB3)	THBS1	ITGAV_ITGB3	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.002923643814	0	0	MRT2	THBS1 - (ITGAV+ITGB3)	THBS1	ITGAV_ITGB3	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01584809597	0	0	MRT2	THBS2 - (ITGAV+ITGB3)	THBS2	ITGAV_ITGB3	THBS	ECM-Receptor
MRT2	Endothelial_Cell	0.002923643814	0	0	MRT2	THBS3 - (ITGAV+ITGB3)	THBS3	ITGAV_ITGB3	THBS	ECM-Receptor
MRT2	Endothelial_Cell	0.002923643814	0	0	MRT2	THBS4 - (ITGAV+ITGB3)	THBS4	ITGAV_ITGB3	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.002923643814	0	0	MRT2	THBS4 - (ITGAV+ITGB3)	THBS4	ITGAV_ITGB3	THBS	ECM-Receptor
Fibroblast	MRT2	0.2007861473	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	MRT2	0.1120541548	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	MRT2	0.02081286678	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	TAM	0.1581806631	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.08624519508	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	TAM	0.01564876424	0.01	0.04347826	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Monocyte	0.1481776231	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Monocyte	0.08035697876	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	T_NK	0.2144733853	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	T_NK	0.1206054695	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	T_NK	0.02257823407	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.1333175489	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.07172563713	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02432498693	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.09068240291	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04770351136	0	0	MRT2	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
T_NK	MRT2	0.06878729865	0.02	0.16666666	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.2591602117	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.2073822459	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.1949884815	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
T_NK	T_NK	0.07431307811	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.275455225	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1764061413	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1219298207	0	0	MRT2	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.2555790834	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.2043192713	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.1920642026	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.2717315179	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1737004128	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03294830813	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1199379727	0	0	MRT2	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.0600186384	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	MRT2	0.1276747894	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	MRT2	0.1761911052	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.04557958507	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.09866778331	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.1379040056	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.04233908752	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Monocyte	0.09201684791	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.1289867501	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.06488910335	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.1372339414	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	T_NK	0.1885973844	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.03762427417	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.08224509636	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.1157896335	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.006296517246	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01431663141	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.02078322956	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02471913559	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.05490822325	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.07825381712	0	0	MRT2	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.09137978818	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	MRT2	0.1266267896	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	MRT2	0.1634761472	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.0699575027	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.09783118041	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.127524353	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.06510206859	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Monocyte	0.0912309302	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.1191854838	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.09852842689	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.1361197206	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	T_NK	0.1751774996	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.05800594287	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.08153514477	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.1068681333	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.009881696961	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01418398579	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01902439957	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03838874987	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.05442025481	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.07198895818	0	0	MRT2	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	MRT2	0.02288001201	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	TAM	0.01721202372	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Monocyte	0.01595461452	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.02481627284	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01413456877	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.002318339467	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.00920930697	0	0	MRT2	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.1901141403	0	0	MRT2	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1493500099	0	0	MRT2	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.1398126565	0	0	MRT2	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.2032589047	0	0	MRT2	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1256677085	0	0	MRT2	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.1990137811	0	0	MRT2	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1567106382	0	0	MRT2	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.1467843504	0	0	MRT2	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.212612341	0	0	MRT2	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1320423424	0	0	MRT2	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.2232725112	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1769520069	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Monocyte	0.165995977	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.2380360626	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1496629372	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02773498462	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.1024182341	0	0	MRT2	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	MRT2	0.1454574191	0	0	MRT2	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.112933341	0	0	MRT2	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	Monocyte	0.1054332854	0	0	MRT2	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.1561097104	0	0	MRT2	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.09438487608	0	0	MRT2	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06329121637	0	0	MRT2	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.08751523532	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.1278762222	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.1199846577	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.066932185	0.02	0.117647058	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.09882863648	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.09253946234	0.01	0.066666666	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Monocyte	0.09216796714	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.08626208572	0.01	0.066666666	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.09439295739	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.1374480794	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	T_NK	0.1290532213	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.0823816235	0	0	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.07704960343	0.04	0.210526315	MRT2	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	MRT2	0.07504613693	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.08767554345	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.1113471173	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.05721186805	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.06705756042	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.08568529192	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Monocyte	0.05319045834	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Monocyte	0.06238989631	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.07983196215	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.08103094729	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.09456455832	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	T_NK	0.119851758	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.04732697152	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.05557182484	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.07125264457	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.00798734005	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.009446776786	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01228164772	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03120170433	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03674572127	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.04738084629	0	0	MRT2	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.07095915122	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.1109970671	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.08751523532	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.05403938617	0.02	0.1111111111	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.08540816306	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.066932185	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Monocyte	0.07957211693	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.06227266535	0.01	0.0625	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.07664503875	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.1194785659	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	T_NK	0.09439295739	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.07101856895	0	0	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.0554666472	0.01	0.0625	MRT2	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT2	MRT2	0.001463961959	0	0	MRT2	LAMA2 - SV2A	LAMA2	SV2A	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.01661131693	0	0	MRT2	LAMA2 - SV2A	LAMA2	SV2A	LAMININ	ECM-Receptor
MRT2	MRT2	0.005830242077	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor
TAM	MRT2	0.001463961959	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor
Monocyte	MRT2	0.001463961959	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor
T_NK	MRT2	0.005830242077	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.009428025929	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.01434215924	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	MRT2	0.01334981853	0	0	MRT2	LAMA4 - SV2A	LAMA4	SV2A	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.00798734005	0	0	MRT2	LAMB1 - SV2A	LAMB1	SV2A	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.009446776786	0	0	MRT2	LAMB1 - SV2A	LAMB1	SV2A	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.01228164772	0	0	MRT2	LAMB1 - SV2A	LAMB1	SV2A	LAMININ	ECM-Receptor
MRT2	MRT2	0.001463961959	0	0	MRT2	LAMB2 - SV2A	LAMB2	SV2A	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.001463961959	0	0	MRT2	LAMB2 - SV2A	LAMB2	SV2A	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.001463961959	0	0	MRT2	LAMB2 - SV2A	LAMB2	SV2A	LAMININ	ECM-Receptor
MRT2	MRT2	0.002318339467	0	0	MRT2	LAMC1 - SV2A	LAMC1	SV2A	LAMININ	ECM-Receptor
Monocyte	MRT2	0.001463961959	0	0	MRT2	LAMC1 - SV2A	LAMC1	SV2A	LAMININ	ECM-Receptor
T_NK	MRT2	0.001463961959	0	0	MRT2	LAMC1 - SV2A	LAMC1	SV2A	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.007522650672	0	0	MRT2	LAMC1 - SV2A	LAMC1	SV2A	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.01223874777	0	0	MRT2	LAMC1 - SV2A	LAMC1	SV2A	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.009428025929	0	0	MRT2	LAMC1 - SV2A	LAMC1	SV2A	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMA2 - SV2B	LAMA2	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01661131693	0	0	MRT2	LAMA2 - SV2B	LAMA2	SV2B	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.005830242077	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
TAM	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Monocyte	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.005830242077	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.009428025929	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01434215924	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01334981853	0	0	MRT2	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.00798734005	0	0	MRT2	LAMB1 - SV2B	LAMB1	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.009446776786	0	0	MRT2	LAMB1 - SV2B	LAMB1	SV2B	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01228164772	0	0	MRT2	LAMB1 - SV2B	LAMB1	SV2B	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMB2 - SV2B	LAMB2	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMB2 - SV2B	LAMB2	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMB2 - SV2B	LAMB2	SV2B	LAMININ	ECM-Receptor
MRT2	Endothelial_Cell	0.002318339467	0	0	MRT2	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Monocyte	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
T_NK	Endothelial_Cell	0.001463961959	0	0	MRT2	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.007522650672	0	0	MRT2	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01223874777	0	0	MRT2	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.009428025929	0	0	MRT2	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.03642459732	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	MRT2	0.01855013934	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.02561618154	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	TAM	0.01297426635	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	Monocyte	0.01659455049	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.008366696023	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	T_NK	0.01825053912	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	T_NK	0.00920930697	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.01040253617	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.005228462722	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02004872112	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01012586589	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01942210349	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.009806281045	0	0	MRT2	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	MRT2	0.0940388961	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.06732893557	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Monocyte	0.04428437156	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	T_NK	0.04856709315	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Fibroblast	0.0280550624	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05319045834	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.05158252842	0	0	MRT2	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
MRT2	MRT2	0.01855013934	0	0	MRT2	THBS3 - CD36	THBS3	CD36	THBS	ECM-Receptor
MRT2	MRT2	0.01855013934	0	0	MRT2	THBS4 - CD36	THBS4	CD36	THBS	ECM-Receptor
Fibroblast	MRT2	0.01855013934	0	0	MRT2	THBS4 - CD36	THBS4	CD36	THBS	ECM-Receptor
Fibroblast	MRT2	0.02101822848	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	MRT2	0.01062072869	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	TAM	0.01415363643	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	TAM	0.007127256515	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	Monocyte	0.01326575682	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	Monocyte	0.006677167249	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	T_NK	0.01536527001	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	T_NK	0.007742114847	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	Fibroblast	0.008719943425	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.004379064309	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.008719943425	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.004379064309	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.008719943425	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.004379064309	0	0	MRT2	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	MRT2	0.05567157182	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	TAM	0.03792760894	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	Monocyte	0.03560220974	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	T_NK	0.04108960704	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	Fibroblast	0.02358525328	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02358525328	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02358525328	0	0	MRT2	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
MRT2	MRT2	0.01062072869	0	0	MRT2	THBS3 - CD47	THBS3	CD47	THBS	ECM-Receptor
MRT2	MRT2	0.01062072869	0	0	MRT2	THBS4 - CD47	THBS4	CD47	THBS	ECM-Receptor
Fibroblast	MRT2	0.01062072869	0	0	MRT2	THBS4 - CD47	THBS4	CD47	THBS	ECM-Receptor
Fibroblast	MRT2	0.005830242077	0	0	MRT2	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor
Endothelial_Cell	MRT2	0.005830242077	0	0	MRT2	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	MRT2	0.01632813899	0	0	MRT2	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor
Fibroblast	MRT2	0.01661131693	0	0	MRT2	LAMA2 - DAG1	LAMA2	DAG1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.009428025929	0	0	MRT2	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.01434215924	0	0	MRT2	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.01334981853	0	0	MRT2	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.00798734005	0	0	MRT2	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.009446776786	0	0	MRT2	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.01228164772	0	0	MRT2	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor
Fibroblast	MRT2	0.007522650672	0	0	MRT2	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT2	0.01223874777	0	0	MRT2	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT2	0.009428025929	0	0	MRT2	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
Monocyte	Monocyte	0.01921664751	0	0	MRT2	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
T_NK	Monocyte	0.005970880699	0	0	MRT2	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
Monocyte	Fibroblast	0.007522650672	0	0	MRT2	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
T_NK	Fibroblast	0.002318339467	0	0	MRT2	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
Monocyte	Endothelial_Cell	0.007522650672	0	0	MRT2	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
T_NK	Endothelial_Cell	0.002318339467	0	0	MRT2	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
MRT2	TAM	0.1053765299	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	TAM	0.0672396749	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Monocyte	TAM	0.08558498302	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
T_NK	TAM	0.0620043485	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Fibroblast	TAM	0.08558498302	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Cell	TAM	0.1910917954	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.1687150936	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
MRT2	Monocyte	0.1505320388	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	Monocyte	0.09784020289	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Monocyte	Monocyte	0.1234296085	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
T_NK	Monocyte	0.09045334646	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Fibroblast	Monocyte	0.1234296085	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.2622120711	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.2339155215	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
MRT2	T_NK	0.02339552649	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	T_NK	0.01444924133	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Monocyte	T_NK	0.01867993693	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
T_NK	T_NK	0.01326575682	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Fibroblast	T_NK	0.01867993693	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Cell	T_NK	0.04584301198	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.03964131202	0	0	MRT2	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Monocyte	Monocyte	0.001463961959	0	0	MRT2	CADM1 - CADM1	CADM1	CADM1	CADM	Cell-Cell Contact
TAM	TAM	0.0504921702	0	0	MRT2	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
Monocyte	TAM	0.07124671003	0	0	MRT2	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
T_NK	TAM	0.06732639325	0	0	MRT2	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Endothelial_Cell	0.1000570088	0	0	MRT2	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
Monocyte	Endothelial_Cell	0.1382191775	0	0	MRT2	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
T_NK	Endothelial_Cell	0.1311340488	0	0	MRT2	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
MRT2	Fibroblast	0.001463961959	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	Fibroblast	0.001463961959	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Monocyte	Fibroblast	0.002318339467	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
T_NK	Fibroblast	0.002318339467	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Fibroblast	Fibroblast	0.001463961959	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.001463961959	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.006527046798	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
MRT2	Endothelial_Cell	0.008964685608	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	Endothelial_Cell	0.008964685608	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Monocyte	Endothelial_Cell	0.01413456877	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
T_NK	Endothelial_Cell	0.01413456877	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.008964685608	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.008964685608	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.03895681705	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
MRT2	Endothelial_Progenitor	0.002318339467	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.002318339467	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Monocyte	Endothelial_Progenitor	0.003669504751	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
T_NK	Endothelial_Progenitor	0.003669504751	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.002318339467	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.002318339467	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.01030577616	0	0	MRT2	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	TAM	0.005830242077	0	0	MRT2	CD86 - CD28	CD86	CD28	CD86	Cell-Cell Contact
Monocyte	TAM	0.00798734005	0	0	MRT2	CD86 - CD28	CD86	CD28	CD86	Cell-Cell Contact
T_NK	Endothelial_Cell	0.002104882188	0	0	MRT2	CD96 - PVR	CD96	PVR	CD96	Cell-Cell Contact
Fibroblast	MRT2	0.005830242077	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	MRT2	0.01215449662	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	MRT2	0.007733796685	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	TAM	0.005830242077	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	TAM	0.01215449662	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.007733796685	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
T_NK	Monocyte	0.006762355244	0.01	0.022222222	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	Monocyte	0.01159289477	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.02401707775	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.01534888819	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Monocyte	T_NK	0.006762355244	0.01	0.022222222	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	T_NK	0.01343386591	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	T_NK	0.02777558654	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.01777559064	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
MRT2	Fibroblast	0.005830242077	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Fibroblast	0.005830242077	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Monocyte	Fibroblast	0.01159289477	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
T_NK	Fibroblast	0.01343386591	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	Fibroblast	0.02292007947	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.04690757269	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.03023372236	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
MRT2	Endothelial_Cell	0.01215449662	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
TAM	Endothelial_Cell	0.01215449662	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Monocyte	Endothelial_Cell	0.02401707775	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
T_NK	Endothelial_Cell	0.02777558654	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.04690757269	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.09359490149	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.06139451074	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
MRT2	Endothelial_Progenitor	0.007733796685	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.007733796685	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Monocyte	Endothelial_Progenitor	0.01534888819	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
T_NK	Endothelial_Progenitor	0.01777559064	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.03023372236	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.06139451074	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.03978607122	0	0	MRT2	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.02292007947	0	0	MRT2	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.005830242077	0	0	MRT2	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.005830242077	0	0	MRT2	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.001463961959	0	0	MRT2	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.001463961959	0	0	MRT2	EFNA1 - EPHA3	EFNA1	EPHA3	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001463961959	0	0	MRT2	EFNA1 - EPHA3	EFNA1	EPHA3	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.003775526319	0	0	MRT2	EFNA1 - EPHA4	EFNA1	EPHA4	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.003775526319	0	0	MRT2	EFNA1 - EPHA4	EFNA1	EPHA4	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT2	0.01131688978	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	MRT2	0.01131688978	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	TAM	0.004379064309	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.004379064309	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.005830242077	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.005830242077	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	T_NK	0.005830242077	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.005830242077	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.001463961959	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001463961959	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.001463961959	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.001463961959	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.004379064309	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.004379064309	0	0	MRT2	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT2	Fibroblast	0.006677167249	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
TAM	Fibroblast	0.002923643814	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
Monocyte	Fibroblast	0.004379064309	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
T_NK	Fibroblast	0.005830242077	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
Fibroblast	Fibroblast	0.001463961959	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.01690454356	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.004379064309	0	0	MRT2	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
MRT2	Endothelial_Progenitor	0.01707947386	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.007522650672	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Monocyte	Endothelial_Progenitor	0.01124169235	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
T_NK	Endothelial_Progenitor	0.01493296586	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.003775526319	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.04255736874	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.01124169235	0	0	MRT2	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
MRT2	MRT2	0.04986448203	0	0	MRT2	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT2	0.1183595224	0	0	MRT2	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
MRT2	TAM	0.006677167249	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
TAM	TAM	0.002923643814	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Monocyte	TAM	0.004379064309	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
T_NK	TAM	0.005830242077	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Fibroblast	TAM	0.001463961959	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Cell	TAM	0.01690454356	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.004379064309	0	0	MRT2	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.0200960689	0	0	MRT2	EFNB2 - EPHA4	EFNB2	EPHA4	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.05715309686	0	0	MRT2	EFNB2 - EPHB1	EFNB2	EPHB1	EPHB	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.007871208505	0	0	MRT2	EFNB2 - EPHB2	EFNB2	EPHB2	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.007871208505	0	0	MRT2	EFNB2 - EPHB4	EFNB2	EPHB4	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.01849389083	0	0	MRT2	ESAM - ESAM	ESAM	ESAM	ESAM	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.001510990651	0	0	MRT2	ICAM2 - (ITGAL+ITGB2)	ICAM2	ITGAL_ITGB2	ICAM	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.006016689123	0	0	MRT2	ICAM2 - (ITGAL+ITGB2)	ICAM2	ITGAL_ITGB2	ICAM	Cell-Cell Contact
TAM	Endothelial_Cell	0.0003663927785	0	0	MRT2	ITGB2 - ICAM2	ITGB2	ICAM2	ITGB2	Cell-Cell Contact
Monocyte	Endothelial_Cell	0.001739762941	0	0	MRT2	ITGB2 - ICAM2	ITGB2	ICAM2	ITGB2	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.001463961959	0	0	MRT2	ITGB2 - ICAM2	ITGB2	ICAM2	ITGB2	Cell-Cell Contact
Monocyte	Endothelial_Progenitor	0.006922919049	0	0	MRT2	ITGB2 - ICAM2	ITGB2	ICAM2	ITGB2	Cell-Cell Contact
MRT2	MRT2	0.03867685801	0	0	MRT2	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
MRT2	Fibroblast	0.04240890166	0	0	MRT2	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
MRT2	Fibroblast	0.008261649471	0	0	MRT2	JAM2 - JAM3	JAM2	JAM3	JAM	Cell-Cell Contact
Fibroblast	MRT2	0.008261649471	0	0	MRT2	JAM3 - JAM2	JAM3	JAM2	JAM	Cell-Cell Contact
Fibroblast	MRT2	0.002318339467	0	0	MRT2	JAM3 - JAM3	JAM3	JAM3	JAM	Cell-Cell Contact
MRT2	Fibroblast	0.002318339467	0	0	MRT2	JAM3 - JAM3	JAM3	JAM3	JAM	Cell-Cell Contact
Fibroblast	Fibroblast	0.003669504751	0	0	MRT2	JAM3 - JAM3	JAM3	JAM3	JAM	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.002318339467	0.03	0.6	MRT2	JAM3 - JAM3	JAM3	JAM3	JAM	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Endothelial_Cell	0.002318339467	0.03	0.6	MRT2	JAM3 - JAM3	JAM3	JAM3	JAM	Cell-Cell Contact
MRT2	T_NK	0.002318339467	0	0	MRT2	HLA-E - KLRC1	HLA-E	KLRC1	MHC-I	Cell-Cell Contact
TAM	T_NK	0.005970880699	0	0	MRT2	HLA-E - KLRC1	HLA-E	KLRC1	MHC-I	Cell-Cell Contact
Monocyte	T_NK	0.00920930697	0	0	MRT2	HLA-E - KLRC1	HLA-E	KLRC1	MHC-I	Cell-Cell Contact
T_NK	T_NK	0.004625954402	0	0	MRT2	HLA-E - KLRC1	HLA-E	KLRC1	MHC-I	Cell-Cell Contact
Endothelial_Cell	T_NK	0.01732010609	0	0	MRT2	HLA-E - KLRC1	HLA-E	KLRC1	MHC-I	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.01486110792	0	0	MRT2	HLA-E - KLRC1	HLA-E	KLRC1	MHC-I	Cell-Cell Contact
MRT2	T_NK	0.001463961959	0	0	MRT2	HLA-E - KLRC2	HLA-E	KLRC2	MHC-I	Cell-Cell Contact
TAM	T_NK	0.003775526319	0	0	MRT2	HLA-E - KLRC2	HLA-E	KLRC2	MHC-I	Cell-Cell Contact
Monocyte	T_NK	0.005830242077	0	0	MRT2	HLA-E - KLRC2	HLA-E	KLRC2	MHC-I	Cell-Cell Contact
T_NK	T_NK	0.002923643814	0	0	MRT2	HLA-E - KLRC2	HLA-E	KLRC2	MHC-I	Cell-Cell Contact
Endothelial_Cell	T_NK	0.01099807365	0	0	MRT2	HLA-E - KLRC2	HLA-E	KLRC2	MHC-I	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.009428025929	0	0	MRT2	HLA-E - KLRC2	HLA-E	KLRC2	MHC-I	Cell-Cell Contact
MRT2	T_NK	0.002318339467	0	0	MRT2	HLA-E - KLRK1	HLA-E	KLRK1	MHC-I	Cell-Cell Contact
TAM	T_NK	0.005970880699	0	0	MRT2	HLA-E - KLRK1	HLA-E	KLRK1	MHC-I	Cell-Cell Contact
Monocyte	T_NK	0.00920930697	0	0	MRT2	HLA-E - KLRK1	HLA-E	KLRK1	MHC-I	Cell-Cell Contact
T_NK	T_NK	0.004625954402	0	0	MRT2	HLA-E - KLRK1	HLA-E	KLRK1	MHC-I	Cell-Cell Contact
Endothelial_Cell	T_NK	0.01732010609	0	0	MRT2	HLA-E - KLRK1	HLA-E	KLRK1	MHC-I	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.01486110792	0	0	MRT2	HLA-E - KLRK1	HLA-E	KLRK1	MHC-I	Cell-Cell Contact
MRT2	T_NK	0.002318339467	0	0	MRT2	HLA-E - CD94:NKG2A	HLA-E	CD94:NKG2A	MHC-I	Cell-Cell Contact
TAM	T_NK	0.005970880699	0	0	MRT2	HLA-E - CD94:NKG2A	HLA-E	CD94:NKG2A	MHC-I	Cell-Cell Contact
Monocyte	T_NK	0.00920930697	0	0	MRT2	HLA-E - CD94:NKG2A	HLA-E	CD94:NKG2A	MHC-I	Cell-Cell Contact
T_NK	T_NK	0.004625954402	0	0	MRT2	HLA-E - CD94:NKG2A	HLA-E	CD94:NKG2A	MHC-I	Cell-Cell Contact
Endothelial_Cell	T_NK	0.01732010609	0	0	MRT2	HLA-E - CD94:NKG2A	HLA-E	CD94:NKG2A	MHC-I	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.01486110792	0	0	MRT2	HLA-E - CD94:NKG2A	HLA-E	CD94:NKG2A	MHC-I	Cell-Cell Contact
MRT2	T_NK	0.001842360776	0	0	MRT2	HLA-E - CD94:NKG2C	HLA-E	CD94:NKG2C	MHC-I	Cell-Cell Contact
TAM	T_NK	0.004748567356	0	0	MRT2	HLA-E - CD94:NKG2C	HLA-E	CD94:NKG2C	MHC-I	Cell-Cell Contact
Monocyte	T_NK	0.007328935473	0	0	MRT2	HLA-E - CD94:NKG2C	HLA-E	CD94:NKG2C	MHC-I	Cell-Cell Contact
T_NK	T_NK	0.003677945449	0	0	MRT2	HLA-E - CD94:NKG2C	HLA-E	CD94:NKG2C	MHC-I	Cell-Cell Contact
Endothelial_Cell	T_NK	0.01380673578	0	0	MRT2	HLA-E - CD94:NKG2C	HLA-E	CD94:NKG2C	MHC-I	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.01184053329	0	0	MRT2	HLA-E - CD94:NKG2C	HLA-E	CD94:NKG2C	MHC-I	Cell-Cell Contact
TAM	TAM	0.002318339467	0	0	MRT2	HLA-DPA1 - CD4	HLA-DPA1	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.008964685608	0	0	MRT2	HLA-DPA1 - CD4	HLA-DPA1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002923643814	0	0	MRT2	HLA-DPB1 - CD4	HLA-DPB1	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.009428025929	0	0	MRT2	HLA-DPB1 - CD4	HLA-DPB1	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.005830242077	0	0	MRT2	HLA-DQA1 - CD4	HLA-DQA1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.001098373463	0	0	MRT2	HLA-DMA - CD4	HLA-DMA	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.001463961959	0	0	MRT2	HLA-DMA - CD4	HLA-DMA	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.001098373463	0	0	MRT2	HLA-DMB - CD4	HLA-DMB	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002104882188	0	0	MRT2	HLA-DQB1 - CD4	HLA-DQB1	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.002318339467	0	0	MRT2	HLA-DQB1 - CD4	HLA-DQB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.008366696023	0	0	MRT2	HLA-DRA - CD4	HLA-DRA	CD4	MHC-II	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Monocyte	TAM	0.01189977141	0	0	MRT2	HLA-DRA - CD4	HLA-DRA	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.008271884233	0	0	MRT2	HLA-DRB1 - CD4	HLA-DRB1	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.01267294805	0	0	MRT2	HLA-DRB1 - CD4	HLA-DRB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.001463961959	0	0	MRT2	HLA-DRB5 - CD4	HLA-DRB5	CD4	MHC-II	Cell-Cell Contact
Monocyte	TAM	0.005228462722	0	0	MRT2	HLA-DRB5 - CD4	HLA-DRB5	CD4	MHC-II	Cell-Cell Contact
Fibroblast	MRT2	0.002318339467	0.01	0.2	MRT2	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
MRT2	Fibroblast	0.002318339467	0.01	0.2	MRT2	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Fibroblast	0.003669504751	0.01	0.2	MRT2	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
T_NK	MRT2	0.005970880699	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	MRT2	0.002318339467	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	TAM	0.003775526319	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	TAM	0.001463961959	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	Monocyte	0.01124169235	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.004379064309	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	T_NK	0.01124169235	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	T_NK	0.004379064309	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	Fibroblast	0.01921664751	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.007522650672	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	Endothelial_Cell	0.005970880699	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.002318339467	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	Endothelial_Progenitor	0.005970880699	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.002318339467	0	0	MRT2	NCAM1 - FGFR1	NCAM1	FGFR1	NCAM	Cell-Cell Contact
T_NK	T_NK	0.009701539287	0	0	MRT2	NCAM1 - NCAM1	NCAM1	NCAM1	NCAM	Cell-Cell Contact
Endothelial_Cell	T_NK	0.003775526319	0	0	MRT2	NCAM1 - NCAM1	NCAM1	NCAM1	NCAM	Cell-Cell Contact
T_NK	Endothelial_Cell	0.003775526319	0	0	MRT2	NCAM1 - NCAM1	NCAM1	NCAM1	NCAM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.001463961959	0	0	MRT2	NCAM1 - NCAM1	NCAM1	NCAM1	NCAM	Cell-Cell Contact
T_NK	MRT2	0.003775526319	0	0	MRT2	NCAM1 - NCAM2	NCAM1	NCAM2	NCAM	Cell-Cell Contact
Endothelial_Cell	MRT2	0.001463961959	0	0	MRT2	NCAM1 - NCAM2	NCAM1	NCAM2	NCAM	Cell-Cell Contact
Endothelial_Cell	MRT2	0.001463961959	0	0	MRT2	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.001463961959	0	0	MRT2	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.005228462722	0	0	MRT2	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.0003663927785	0	0	MRT2	NECTIN3 - PVR	NECTIN3	PVR	NECTIN	Cell-Cell Contact
Monocyte	Monocyte	0.009701539287	0	0	MRT2	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Fibroblast	Monocyte	0.003775526319	0	0	MRT2	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Monocyte	Fibroblast	0.003775526319	0	0	MRT2	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Fibroblast	Fibroblast	0.001463961959	0	0	MRT2	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.0003663927785	0	0	MRT2	DLL4 - NOTCH1	DLL4	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001463961959	0	0	MRT2	DLL4 - NOTCH1	DLL4	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.0009465619067	0	0	MRT2	DLL4 - NOTCH1	DLL4	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.003775526319	0	0	MRT2	DLL4 - NOTCH1	DLL4	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.000580594378	0	0	MRT2	DLL4 - NOTCH1	DLL4	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.002318339467	0	0	MRT2	DLL4 - NOTCH1	DLL4	NOTCH1	NOTCH	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	MRT2	0.0003663927785	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	MRT2	0.001463961959	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	TAM	0.0003663927785	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.001463961959	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.000732517168	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.002923643814	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.001312261513	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.005228462722	0	0	MRT2	DLL4 - NOTCH2	DLL4	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.0003663927785	0	0	MRT2	DLL4 - NOTCH3	DLL4	NOTCH3	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001463961959	0	0	MRT2	DLL4 - NOTCH3	DLL4	NOTCH3	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.001581598232	0	0	MRT2	DLL4 - NOTCH4	DLL4	NOTCH4	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.006296517246	0	0	MRT2	DLL4 - NOTCH4	DLL4	NOTCH4	NOTCH	Cell-Cell Contact
Fibroblast	Fibroblast	0.001463961959	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.008964685608	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.002318339467	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.003775526319	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.02284872566	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.005970880699	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.002318339467	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.01413456877	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.003669504751	0	0	MRT2	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Fibroblast	MRT2	0.001463961959	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	MRT2	0.008964685608	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	MRT2	0.002318339467	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	TAM	0.001463961959	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	TAM	0.008964685608	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.002318339467	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Monocyte	0.002923643814	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.01777006814	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.004625954402	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Fibroblast	0.005228462722	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.03141018178	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.008261649471	0	0	MRT2	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Fibroblast	0.001463961959	0	0	MRT2	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.008964685608	0	0	MRT2	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.002318339467	0	0	MRT2	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.006296517246	0	0	MRT2	JAG1 - NOTCH4	JAG1	NOTCH4	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.03762427417	0	0	MRT2	JAG1 - NOTCH4	JAG1	NOTCH4	NOTCH	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.009943120953	0	0	MRT2	JAG1 - NOTCH4	JAG1	NOTCH4	NOTCH	Cell-Cell Contact
TAM	TAM	0.001463961959	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Monocyte	TAM	0.002318339467	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	TAM	0.009068246906	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	TAM	0.01334981853	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	Monocyte	0.002318339467	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Monocyte	Monocyte	0.003669504751	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.01429699169	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.02099500873	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	Endothelial_Cell	0.009068246906	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Monocyte	Endothelial_Cell	0.01429699169	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.05403418164	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.07787788409	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.01334981853	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Monocyte	Endothelial_Progenitor	0.02099500873	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.07787788409	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.1110084205	0	0	MRT2	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	TAM	0.0463071702	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	TAM	0.0783588502	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	TAM	0.1040795176	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.1197591614	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Fibroblast	0.0783588502	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Fibroblast	0.1295809236	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.1690312392	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.1923946147	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Endothelial_Cell	0.1040795176	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.1690312392	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.2174909752	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.2455729659	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.1197591614	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.1923946147	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.2455729659	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.2760019437	0	0	MRT2	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	MRT2	0.002318339467	0	0	MRT2	SEMA4D - PLXNB2	SEMA4D	PLXNB2	SEMA4	Cell-Cell Contact
Monocyte	MRT2	0.001463961959	0.01	0.1666666666	MRT2	SEMA4D - PLXNB2	SEMA4D	PLXNB2	SEMA4	Cell-Cell Contact
T_NK	MRT2	0.002923643814	0	0	MRT2	SEMA4D - PLXNB2	SEMA4D	PLXNB2	SEMA4	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.002318339467	0	0	MRT2	SEMA4D - PLXNB2	SEMA4D	PLXNB2	SEMA4	Cell-Cell Contact
Monocyte	Endothelial_Progenitor	0.001463961959	0.01	0.1666666666	MRT2	SEMA4D - PLXNB2	SEMA4D	PLXNB2	SEMA4	Cell-Cell Contact
T_NK	Endothelial_Progenitor	0.002923643814	0	0	MRT2	SEMA4D - PLXNB2	SEMA4D	PLXNB2	SEMA4	Cell-Cell Contact
Endothelial_Cell	MRT2	0.001463961959	0	0	MRT2	SEMA4C - PLXNB2	SEMA4C	PLXNB2	SEMA4	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.001463961959	0	0	MRT2	SEMA4C - PLXNB2	SEMA4C	PLXNB2	SEMA4	Cell-Cell Contact
Endothelial_Cell	MRT2	0.04463921643	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	MRT2	0.02059087502	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	TAM	0.01286591516	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.03762947034	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.01728912664	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	T_NK	0.03762947034	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.01728912664	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.01286591516	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.04463921643	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.02059087502	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
MRT2	Endothelial_Progenitor	0.01183622055	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.09623601594	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.04572137728	0	0	MRT2	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	MRT2	0.005228462722	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.001463961959	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.004379064309	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.004379064309	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001463961959	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.005228462722	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.01183622055	0	0	MRT2	SEMA6B - PLXNA2	SEMA6B	PLXNA2	SEMA6	Cell-Cell Contact
MRT2	T_NK	0.002318339467	0	0	MRT2	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Cell	T_NK	0.02023966775	0	0	MRT2	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.00920930697	0	0	MRT2	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	T_NK	0.002318339467	0	0	MRT2	SEMA6B - PLXNA4	SEMA6B	PLXNA4	SEMA6	Cell-Cell Contact
MRT2	TAM	0.001842360776	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Fibroblast	TAM	0.007328935473	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Endothelial_Cell	TAM	0.002111219945	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.001842360776	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
MRT2	Monocyte	0.003186764475	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Fibroblast	Monocyte	0.01262634632	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Endothelial_Cell	Monocyte	0.003651097367	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Endothelial_Progenitor	Monocyte	0.003186764475	0	0	MRT2	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
MRT2	Endothelial_Cell	0.002923643814	0	0	MRT2	THY1 - (ITGAV+ITGB3)	THY1	ITGAV_ITGB3	THY1	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.01159289477	0	0	MRT2	THY1 - (ITGAV+ITGB3)	THY1	ITGAV_ITGB3	THY1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.003349767102	0	0	MRT2	THY1 - (ITGAV+ITGB3)	THY1	ITGAV_ITGB3	THY1	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.002923643814	0	0	MRT2	THY1 - (ITGAV+ITGB3)	THY1	ITGAV_ITGB3	THY1	Cell-Cell Contact
Fibroblast	TAM	0.000923377136	0	0	MRT3	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFB1_R2	TGFB	Secreted Signaling
Endothelial_Cell	TAM	0.00122221282	0	0	MRT3	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFB1_R2	TGFB	Secreted Signaling
Fibroblast	Fibroblast	0.002516948558	0	0	MRT3	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
MRT3	Fibroblast	0.00701314006	0	0	MRT3	PDGFD - PDGFRB	PDGFD	PDGFRB	PDGF	Secreted Signaling
Fibroblast	Fibroblast	0.01892138747	0	0	MRT3	PDGFD - PDGFRB	PDGFD	PDGFRB	PDGF	Secreted Signaling
TAM	Endothelial_Cell	0.008102513725	0	0	MRT3	VEGFA - VEGFR2	VEGFA	KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.008102513725	0	0	MRT3	VEGFA - VEGFR2	VEGFA	KDR	VEGF	Secreted Signaling
MRT3	Endothelial_Cell	0.01320573399	0	0	MRT3	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.01320573399	0	0	MRT3	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
MRT3	Endothelial_Cell	0.01278159989	0	0	MRT3	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.01278159989	0	0	MRT3	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT3	Endothelial_Cell	0.01505998204	0	0	MRT3	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.01505998204	0	0	MRT3	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
Endothelial_Cell	Fibroblast	0.01021013763	0	0	MRT3	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.003452193573	0	0	MRT3	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	T_NK	0.008169148938	0	0	MRT3	CCL21 - CCR7	CCL21	CCR7	CCL	Secreted Signaling
TAM	TAM	0.03183306254	0	0	MRT3	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	T_NK	0.09607238735	0	0	MRT3	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Fibroblast	0.02032319614	0	0	MRT3	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	MRT3	0.1452710451	0	0	MRT3	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.09393097717	0	0	MRT3	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	T_NK	0.09921427691	0	0	MRT3	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.1607140459	0	0	MRT3	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.1102361597	0	0	MRT3	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.05314998005	0	0	MRT3	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
TAM	T_NK	0.04673382856	0	0	MRT3	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.1598223816	0	0	MRT3	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.03168075919	0	0	MRT3	SPP1 - (ITGA8+ITGB1)	SPP1	ITGA8_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.06609006018	0	0	MRT3	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.06141581862	0	0	MRT3	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
TAM	MRT3	0.01168265067	0	0	MRT3	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Endothelial_Cell	0.01168265067	0	0	MRT3	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Fibroblast	0.03876128721	0	0	MRT3	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
TAM	Endothelial_Cell	0.03594548882	0	0	MRT3	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Fibroblast	0.005727620998	0	0	MRT3	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Cell	0.005298313078	0	0	MRT3	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
TAM	Fibroblast	0.005727620998	0	0	MRT3	ANGPTL4 - (ITGA5+ITGB1)	ANGPTL4	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	Fibroblast	0.005727620998	0	0	MRT3	ANGPTL4 - (ITGA5+ITGB1)	ANGPTL4	ITGA5_ITGB1	ANGPTL	Secreted Signaling
TAM	Endothelial_Cell	0.005298313078	0	0	MRT3	ANGPTL4 - (ITGA5+ITGB1)	ANGPTL4	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Cell	0.005298313078	0	0	MRT3	ANGPTL4 - (ITGA5+ITGB1)	ANGPTL4	ITGA5_ITGB1	ANGPTL	Secreted Signaling
TAM	Endothelial_Cell	0.005040499656	0	0	MRT3	ANGPTL4 - CDH5	ANGPTL4	CDH5	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Cell	0.005040499656	0	0	MRT3	ANGPTL4 - CDH5	ANGPTL4	CDH5	ANGPTL	Secreted Signaling
TAM	Fibroblast	0.00670939331	0	0	MRT3	ANGPTL4 - CDH11	ANGPTL4	CDH11	ANGPTL	Secreted Signaling
Fibroblast	Fibroblast	0.00670939331	0	0	MRT3	ANGPTL4 - CDH11	ANGPTL4	CDH11	ANGPTL	Secreted Signaling
TAM	TAM	0.00670939331	0	0	MRT3	ANGPTL4 - SDC2	ANGPTL4	SDC2	ANGPTL	Secreted Signaling
Fibroblast	TAM	0.00670939331	0	0	MRT3	ANGPTL4 - SDC2	ANGPTL4	SDC2	ANGPTL	Secreted Signaling
Endothelial_Cell	MRT3	0.01007254355	0	0	MRT3	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Cell	Fibroblast	0.03354586527	0	0	MRT3	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.03024516243	0	0	MRT3	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
MRT3	TAM	0.04200850813	0	0	MRT3	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
TAM	TAM	0.01986166055	0	0	MRT3	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
T_NK	TAM	0.03267017825	0	0	MRT3	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
Fibroblast	TAM	0.02364287255	0	0	MRT3	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	TAM	0.02364287255	0	0	MRT3	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
MRT3	T_NK	0.02525314396	0	0	MRT3	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
TAM	T_NK	0.01183062188	0	0	MRT3	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
T_NK	T_NK	0.01956340497	0	0	MRT3	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Fibroblast	T_NK	0.01410490774	0	0	MRT3	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Endothelial_Cell	T_NK	0.01410490774	0	0	MRT3	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
MRT3	TAM	0.01707864369	0	0	MRT3	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
T_NK	TAM	0.01320573399	0.02	0.231428571	MRT3	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT3	Fibroblast	0.01794954539	0	0	MRT3	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
TAM	Fibroblast	0.01611712887	0	0	MRT3	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
T_NK	Fibroblast	0.02741984221	0	0	MRT3	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Fibroblast	Fibroblast	0.06417266281	0	0	MRT3	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Endothelial_Cell	Fibroblast	0.01611712887	0	0	MRT3	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
MRT3	TAM	0.003196846945	0	0	MRT3	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
MRT3	TAM	0.001685831508	0	0	MRT3	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
MRT3	Endothelial_Cell	0.00266934735	0	0	MRT3	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.07480764274	0	0	MRT3	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT3	Endothelial_Cell	0.02086165753	0	0	MRT3	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.005298313078	0	0	MRT3	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.01572827261	0	0	MRT3	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07580432499	0	0	MRT3	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.005298313078	0	0	MRT3	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04739136089	0	0	MRT3	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03786091364	0	0	MRT3	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0502104881	0	0	MRT3	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.02720562977	0	0	MRT3	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.005298313078	0	0	MRT3	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02086165753	0	0	MRT3	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03342333282	0	0	MRT3	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07344505245	0	0	MRT3	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1254307715	0	0	MRT3	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT3	Endothelial_Cell	0.03641584333	0	0	MRT3	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.009359588824	0	0	MRT3	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.02756281327	0	0	MRT3	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1270093294	0	0	MRT3	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.009359588824	0	0	MRT3	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08108765096	0	0	MRT3	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06524496638	0	0	MRT3	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08573084584	0	0	MRT3	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04726149133	0	0	MRT3	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.009359588824	0	0	MRT3	COL4A5 - (ITGA2+ITGB1)	COL4A5	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03641584333	0	0	MRT3	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Endothelial_Cell	0.05779055522	0	0	MRT3	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.123268956	0	0	MRT3	COL6A3 - (ITGA2+ITGB1)	COL6A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.06222231583	0	0	MRT3	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	T_NK	0.01410490774	0	0	MRT3	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.08740537744	0	0	MRT3	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02023373222	0	0	MRT3	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08135492744	0	0	MRT3	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01873762431	0	0	MRT3	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04240228096	0	0	MRT3	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.009457416918	0	0	MRT3	FN1 - (ITGA8+ITGB1)	FN1	ITGA8_ITGB1	FN1	ECM-Receptor
MRT3	Endothelial_Cell	0.008371681073	0	0	MRT3	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01873762431	0	0	MRT3	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04170260091	0	0	MRT3	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02842115508	0	0	MRT3	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01873762431	0	0	MRT3	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.005298313078	0	0	MRT3	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.005298313078	0	0	MRT3	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.008371681073	0	0	MRT3	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.005298313078	0	0	MRT3	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.008371681073	0	0	MRT3	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01873762431	0	0	MRT3	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.01475382002	0	0	MRT3	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0327611457	0	0	MRT3	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.07165832417	0	0	MRT3	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04932765847	0	0	MRT3	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0327611457	0	0	MRT3	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.009359588824	0	0	MRT3	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.009359588824	0	0	MRT3	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01475382002	0	0	MRT3	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.009359588824	0	0	MRT3	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01475382002	0	0	MRT3	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0327611457	0	0	MRT3	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.004203435447	0	0	MRT3	TNC - (ITGA8+ITGB1)	TNC	ITGA8_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02395483286	0	0	MRT3	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1903208486	0	0	MRT3	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT3	Endothelial_Cell	0.05832633076	0	0	MRT3	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.01524863018	0	0	MRT3	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Endothelial_Cell	0.04439205448	0	0	MRT3	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1925362693	0	0	MRT3	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01524863018	0	0	MRT3	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1263516202	0	0	MRT3	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1026533132	0	0	MRT3	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Endothelial_Cell	0.1332109606	0	0	MRT3	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.07518834167	0	0	MRT3	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01524863018	0	0	MRT3	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05832633076	0	0	MRT3	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.09134254651	0	0	MRT3	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1872801359	0	0	MRT3	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT3	Endothelial_Cell	0.02395483286	0	0	MRT3	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05259271317	0	0	MRT3	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1123020134	0	0	MRT3	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07837497384	0	0	MRT3	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.05259271317	0	0	MRT3	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.01524863018	0	0	MRT3	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01524863018	0	0	MRT3	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.02395483286	0	0	MRT3	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.01524863018	0	0	MRT3	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02395483286	0	0	MRT3	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.05259271317	0	0	MRT3	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.08041378779	0	0	MRT3	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
MRT3	Fibroblast	0.02252346636	0	0	MRT3	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.005727620998	0	0	MRT3	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.01698825838	0	0	MRT3	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.08147858432	0	0	MRT3	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.005727620998	0	0	MRT3	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.05105628968	0	0	MRT3	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04082040401	0	0	MRT3	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.05408105232	0	0	MRT3	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02935763803	0	0	MRT3	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.005727620998	0	0	MRT3	COL4A5 - (ITGA11+ITGB1)	COL4A5	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02252346636	0	0	MRT3	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.03604894541	0	0	MRT3	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.07895779847	0	0	MRT3	COL6A3 - (ITGA11+ITGB1)	COL6A3	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	MRT3	0.1870100404	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	MRT3	0.04725519911	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	TAM	0.1230425137	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.02936472864	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	T_NK	0.1297287963	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	T_NK	0.031141213	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.2058216369	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.0529238171	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1436001811	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03489368576	0	0	MRT3	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	TAM	0.0426038596	0	0	MRT3	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	TAM	0.009503931476	0	0	MRT3	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	T_NK	0.1257554868	0	0	MRT3	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	T_NK	0.03008304856	0	0	MRT3	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.02730945146	0	0	MRT3	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.006017419957	0	0	MRT3	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	TAM	0.03904264301	0	0	MRT3	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.1160864759	0	0	MRT3	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02499330562	0	0	MRT3	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
MRT3	TAM	0.0105925637	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	TAM	0.00266934735	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
T_NK	TAM	0.007965516588	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.03958320534	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.00266934735	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT3	T_NK	0.03344932049	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	T_NK	0.008577514136	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
T_NK	T_NK	0.02529854515	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.1175632431	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.008577514136	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT3	Fibroblast	0.00670939331	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.001685831508	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
T_NK	Fibroblast	0.005040499656	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02534447906	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.001685831508	0	0	MRT3	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.024388371	0	0	MRT3	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.0193896892	0	0	MRT3	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.07476440982	0	0	MRT3	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.06007637412	0	0	MRT3	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.01552710875	0	0	MRT3	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01232170791	0	0	MRT3	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.02587630964	0	0	MRT3	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.01385793059	0	0	MRT3	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.07907668535	0	0	MRT3	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.04345129632	0	0	MRT3	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.01648355451	0	0	MRT3	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.008788329081	0	0	MRT3	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.00266934735	0	0	MRT3	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	T_NK	0.008577514136	0	0	MRT3	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.001685831508	0	0	MRT3	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.0105925637	0	0	MRT3	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.03344932049	0	0	MRT3	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.00670939331	0	0	MRT3	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.01707864369	0	0	MRT3	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	T_NK	0.05317889297	0	0	MRT3	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.01084377515	0	0	MRT3	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.0383045265	0	0	MRT3	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	T_NK	0.1140647058	0	0	MRT3	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02451402168	0	0	MRT3	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
MRT3	TAM	0.004224219467	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.009503931476	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.02139881529	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
MRT3	T_NK	0.01352716538	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.03008304856	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.06601755856	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
MRT3	Fibroblast	0.00266934735	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.006017419957	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01360862564	0	0	MRT3	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.01448597212	0	0	MRT3	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.009503931476	0	0	MRT3	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.04535882059	0	0	MRT3	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.03008304856	0	0	MRT3	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.009188757053	0	0	MRT3	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.006017419957	0	0	MRT3	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
MRT3	TAM	0.00266934735	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.00266934735	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.004224219467	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT3	T_NK	0.008577514136	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.008577514136	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.01352716538	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT3	Fibroblast	0.001685831508	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.001685831508	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.00266934735	0	0	MRT3	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT3	TAM	0.00266934735	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.004224219467	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.009503931476	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT3	T_NK	0.008577514136	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	T_NK	0.01352716538	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	T_NK	0.03008304856	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT3	Fibroblast	0.001685831508	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.00266934735	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.006017419957	0	0	MRT3	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.00266934735	0	0	MRT3	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.006017419957	0	0	MRT3	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01360862564	0	0	MRT3	LAMA4 - SV2B	LAMA4	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.009188757053	0	0	MRT3	LAMB1 - SV2B	LAMB1	SV2B	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Endothelial_Cell	0.006017419957	0	0	MRT3	LAMB1 - SV2B	LAMB1	SV2B	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.001685831508	0	0	MRT3	LAMB2 - SV2B	LAMB2	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.001685831508	0	0	MRT3	LAMB2 - SV2B	LAMB2	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.00266934735	0	0	MRT3	LAMB2 - SV2B	LAMB2	SV2B	LAMININ	ECM-Receptor
MRT3	Endothelial_Cell	0.001685831508	0	0	MRT3	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.00266934735	0	0	MRT3	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.006017419957	0	0	MRT3	LAMC1 - SV2B	LAMC1	SV2B	LAMININ	ECM-Receptor
TAM	TAM	0.00266934735	0	0	MRT3	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.001685831508	0	0	MRT3	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
TAM	Endothelial_Cell	0.02410543301	0	0	MRT3	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01534535638	0	0	MRT3	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.00670939331	0	0	MRT3	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05868002769	0	0	MRT3	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
TAM	T_NK	0.01256649117	0	0	MRT3	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	T_NK	0.007965516588	0	0	MRT3	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	T_NK	0.03111844293	0	0	MRT3	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
T_NK	T_NK	0.002116580183	0	0	MRT3	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
MRT3	TAM	0.06865141116	0	0	MRT3	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	TAM	0.04004453563	0	0	MRT3	APP - CD74	APP	CD74	APP	Cell-Cell Contact
T_NK	TAM	0.04633911593	0	0	MRT3	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Fibroblast	TAM	0.04265670052	0	0	MRT3	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Cell	TAM	0.1048209662	0	0	MRT3	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	TAM	0.001685831508	0	0	MRT3	CADM1 - CADM1	CADM1	CADM1	CADM	Cell-Cell Contact
T_NK	MRT3	0.001336457409	0	0	MRT3	CD226 - NECTIN2	CD226	NECTIN2	CD226	Cell-Cell Contact
T_NK	Fibroblast	0.001336457409	0	0	MRT3	CD226 - NECTIN2	CD226	NECTIN2	CD226	Cell-Cell Contact
TAM	TAM	0.008654781157	0	0	MRT3	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
T_NK	TAM	0.0156849991	0	0	MRT3	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
TAM	Endothelial_Cell	0.04318599603	0	0	MRT3	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
T_NK	Endothelial_Cell	0.07611213429	0	0	MRT3	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
MRT3	Fibroblast	0.001685831508	0	0	MRT3	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
T_NK	Fibroblast	0.00266934735	0	0	MRT3	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.0004219914317	0	0	MRT3	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
MRT3	Endothelial_Cell	0.00266934735	0	0	MRT3	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
T_NK	Endothelial_Cell	0.004224219467	0	0	MRT3	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.0006686755329	0	0	MRT3	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	T_NK	0.003447389906	0	0	MRT3	CD86 - CD28	CD86	CD28	CD86	Cell-Cell Contact
MRT3	TAM	0.006017419957	0	0	MRT3	CD99 - PILRA	CD99	PILRA	CD99	Cell-Cell Contact
TAM	TAM	0.00266934735	0	0	MRT3	CD99 - PILRA	CD99	PILRA	CD99	Cell-Cell Contact
Fibroblast	TAM	0.006017419957	0	0	MRT3	CD99 - PILRA	CD99	PILRA	CD99	Cell-Cell Contact
Endothelial_Cell	TAM	0.01304389474	0	0	MRT3	CD99 - PILRA	CD99	PILRA	CD99	Cell-Cell Contact
Endothelial_Cell	MRT3	0.04523658723	0	0	MRT3	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.04523658723	0	0	MRT3	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT3	Endothelial_Cell	0.04523658723	0	0	MRT3	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.04523658723	0	0	MRT3	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.09373996606	0	0	MRT3	CD99 - CD99	CD99	CD99	CD99	Cell-Cell Contact
MRT3	MRT3	0.1120359453	0	0	MRT3	CDH2 - CDH2	CDH2	CDH2	CDH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.01497058056	0	0	MRT3	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Cell	MRT3	0.01971058918	0	0	MRT3	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	TAM	0.007683040692	0	0	MRT3	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	T_NK	0.009624620303	0	0	MRT3	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.006017419957	0	0	MRT3	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.005040499656	0	0	MRT3	EFNA1 - EPHA5	EFNA1	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT3	0.02991715667	0	0	MRT3	EFNA1 - EPHA7	EFNA1	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	TAM	0.01084377515	0	0	MRT3	EFNA1 - EPHA7	EFNA1	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	T_NK	0.01495196683	0	0	MRT3	EFNA1 - EPHA7	EFNA1	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.01332935474	0	0	MRT3	EFNA1 - EPHA7	EFNA1	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.008372697707	0	0	MRT3	EFNA1 - EPHA7	EFNA1	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT3	0.1630403713	0	0	MRT3	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	TAM	0.06977742601	0	0	MRT3	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	T_NK	0.08605012373	0.01	0.10125	MRT3	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.05540181665	0.01	0.10125	MRT3	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.04678477113	0.02	0.18	MRT3	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
MRT3	MRT3	0.04660201682	0	0	MRT3	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT3	0.2300488289	0	0	MRT3	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	TAM	0.09601162329	0	0	MRT3	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	T_NK	0.1282038878	0	0	MRT3	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.1157349974	0	0	MRT3	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.075616162	0.01	0.09	MRT3	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
MRT3	Endothelial_Cell	0.001685831508	0	0	MRT3	EFNB2 - EPHB1	EFNB2	EPHB1	EPHB	Cell-Cell Contact
TAM	T_NK	0.002116580183	0	0	MRT3	ITGB2 - CD226	ITGB2	CD226	ITGB2	Cell-Cell Contact
Fibroblast	MRT3	0.006017419957	0.03	0.462857142	MRT3	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
MRT3	Fibroblast	0.006017419957	0.03	0.462857142	MRT3	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Fibroblast	0.02124181264	0.03	0.462857142	MRT3	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.006017419957	0.04	0.462857142	MRT3	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.006017419957	0.04	0.462857142	MRT3	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
MRT3	T_NK	0.001336457409	0	0	MRT3	NECTIN2 - CD226	NECTIN2	CD226	NECTIN	Cell-Cell Contact
Fibroblast	T_NK	0.001336457409	0	0	MRT3	NECTIN2 - CD226	NECTIN2	CD226	NECTIN	Cell-Cell Contact
MRT3	MRT3	0.00266934735	0	0	MRT3	LRR4C - NTNG1	LRR4C	NTNG1	NGL	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.001685831508	0	0	MRT3	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.00266934735	0	0	MRT3	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Fibroblast	TAM	0.001685831508	0	0	MRT3	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Endothelial_Cell	TAM	0.00266934735	0	0	MRT3	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Fibroblast	0.001685831508	0	0	MRT3	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.00266934735	0	0	MRT3	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT3	MRT3	0.1105859608	0	0	MRT3	NRXN1 - NLGN1	NRXN1	NLGN1	NRXN	Cell-Cell Contact
TAM	TAM	0.001685831508	0	0	MRT3	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	TAM	0.00670939331	0	0	MRT3	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	Endothelial_Cell	0.00670939331	0	0	MRT3	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.02630804027	0	0	MRT3	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	TAM	0.004224219467	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	TAM	0.009503931476	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	TAM	0.0232408443	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Fibroblast	0.009503931476	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Fibroblast	0.02124181264	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.05106981644	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Endothelial_Cell	0.0232408443	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.05106981644	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.1177439381	0	0	MRT3	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
T_NK	MRT3	0.00266934735	0	0	MRT3	SELL - CD34	SELL	CD34	SELL	Cell-Cell Contact
T_NK	Endothelial_Cell	0.00266934735	0	0	MRT3	SELL - PODXL	SELL	PODXL	SELL	Cell-Cell Contact
MRT3	TAM	0.004009166358	0	0	MRT3	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Fibroblast	TAM	0.004009166358	0	0	MRT3	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
Endothelial_Cell	TAM	0.004009166358	0	0	MRT3	THY1 - (ITGAX+ITGB2)	THY1	ITGAX_ITGB2	THY1	Cell-Cell Contact
TAM	TAM	0.004949090352	0	0	MRT4	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	TAM	0.003929993625	0	0	MRT4	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
TAM	Fibroblast	0.003585200229	0	0	MRT4	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	Fibroblast	0.002846950256	0	0	MRT4	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
TAM	Endothelial_Progenitor	0.003018047589	0	0	MRT4	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.0023965834	0	0	MRT4	TGFB1 - (TGFB1+TGFB2)	TGFB1	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	TAM	0.003929993625	0	0	MRT4	TGFB2 - (TGFB1+TGFB2)	TGFB2	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	Fibroblast	0.002846950256	0	0	MRT4	TGFB2 - (TGFB1+TGFB2)	TGFB2	TGFbR1_R2	TGFb	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.0023965834	0	0	MRT4	TGFB2 - (TGFB1+TGFB2)	TGFB2	TGFbR1_R2	TGFb	Secreted Signaling
TAM	Adipocyte	0.0007954979691	0	0	MRT4	TGFB1 - (ACVR1B+TGFB2)	TGFB1	ACVR1B_TGFbR2	TGFb	Secreted Signaling
Endothelial_Cell	Adipocyte	0.0006316922354	0	0	MRT4	TGFB1 - (ACVR1B+TGFB2)	TGFB1	ACVR1B_TGFbR2	TGFb	Secreted Signaling
TAM	Adipocyte	0.003277313241	0	0	MRT4	TGFB1 - (ACVR1C+TGFB2)	TGFB1	ACVR1C_TGFbR2	TGFb	Secreted Signaling
Endothelial_Cell	Adipocyte	0.002602462115	0	0	MRT4	TGFB1 - (ACVR1C+TGFB2)	TGFB1	ACVR1C_TGFbR2	TGFb	Secreted Signaling
Endothelial_Cell	Adipocyte	0.0006316922354	0	0	MRT4	TGFB2 - (ACVR1B+TGFB2)	TGFB2	ACVR1B_TGFbR2	TGFb	Secreted Signaling
Endothelial_Cell	Adipocyte	0.002602462115	0	0	MRT4	TGFB2 - (ACVR1C+TGFB2)	TGFB2	ACVR1C_TGFbR2	TGFb	Secreted Signaling
TAM	TAM	0.002791354609	0	0	MRT4	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Endothelial_Cell	TAM	0.002791354609	0	0	MRT4	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
TAM	Fibroblast	0.004237688615	0	0	MRT4	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Endothelial_Cell	Fibroblast	0.004237688615	0	0	MRT4	TGFB1 - (ACVR1+TGFB1)	TGFB1	ACVR1_TGFbR	TGFb	Secreted Signaling
Endothelial_Cell	TAM	0.002791354609	0	0	MRT4	TGFB2 - (ACVR1+TGFB1)	TGFB2	ACVR1_TGFbR	TGFb	Secreted Signaling
Endothelial_Cell	Fibroblast	0.004237688615	0	0	MRT4	TGFB2 - (ACVR1+TGFB1)	TGFB2	ACVR1_TGFbR	TGFb	Secreted Signaling
MRT4	MRT4	0.01448196584	0	0	MRT4	BMP4 - (BMPR1B+BMPR2)	BMP4	BMPR1B_BMPR2	BMP	Secreted Signaling
MRT4	Fibroblast	0.01670541723	0	0	MRT4	BMP5 - (ACVR1+ACVR2A)	BMP5	ACVR1_ACVR2A	BMP	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT4	Adipocyte	0.02219729164	0.03		1 MRT4	BMP5 - (ACVR1+ACVR2A)	BMP5	ACVR1_ACVR2A	BMP	Secreted Signaling
MRT4	MRT4	0.04392536651	0		0 MRT4	BMP5 - (ACVR1+BMPR2)	BMP5	ACVR1_BMPR2	BMP	Secreted Signaling
MRT4	Fibroblast	0.04142808051	0		0 MRT4	BMP5 - (ACVR1+BMPR2)	BMP5	ACVR1_BMPR2	BMP	Secreted Signaling
MRT4	Endothelial_Cell	0.04286968295	0.03	0.81	MRT4	BMP5 - (ACVR1+BMPR2)	BMP5	ACVR1_BMPR2	BMP	Secreted Signaling
MRT4	Adipocyte	0.03875762586	0		0 MRT4	BMP5 - (BMPR1A+ACVR2A)	BMP5	BMPR1A_ACVR2A	BMP	Secreted Signaling
MRT4	Unknown	0.04286968295	0		0 MRT4	BMP5 - (BMPR1A+ACVR2A)	BMP5	BMPR1A_ACVR2A	BMP	Secreted Signaling
MRT4	MRT4	0.1024309942	0		0 MRT4	BMP5 - (BMPR1A+BMPR2)	BMP5	BMPR1A_BMPR2	BMP	Secreted Signaling
MRT4	MRT4	0.1272800041	0		0 MRT4	BMP5 - (BMPR1B+BMPR2)	BMP5	BMPR1B_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	TAM	0.0009075960704	0		0 MRT4	BMP6 - (ACVR1+ACVR2A)	BMP6	ACVR1_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.001710440751	0		0 MRT4	BMP6 - (ACVR1+ACVR2A)	BMP6	ACVR1_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.002282097558	0		0 MRT4	BMP6 - (ACVR1+ACVR2A)	BMP6	ACVR1_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	MRT4	0.004607820067	0		0 MRT4	BMP6 - (ACVR1+BMPR2)	BMP6	ACVR1_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	TAM	0.001717049883	0		0 MRT4	BMP6 - (ACVR1+BMPR2)	BMP6	ACVR1_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.004345851973	0		0 MRT4	BMP6 - (ACVR1+BMPR2)	BMP6	ACVR1_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.00449263736	0		0 MRT4	BMP6 - (ACVR1+BMPR2)	BMP6	ACVR1_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.005649446543	0		0 MRT4	BMP6 - (ACVR1+BMPR2)	BMP6	ACVR1_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	TAM	0.001813546173	0		0 MRT4	BMP6 - (BMPR1A+ACVR2A)	BMP6	BMPR1A_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.003233309362	0		0 MRT4	BMP6 - (BMPR1A+ACVR2A)	BMP6	BMPR1A_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	0		0 MRT4	BMP6 - (BMPR1A+ACVR2A)	BMP6	BMPR1A_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.004046142423	0		0 MRT4	BMP6 - (BMPR1A+ACVR2A)	BMP6	BMPR1A_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Unknown	0.00449263736	0		0 MRT4	BMP6 - (BMPR1A+ACVR2A)	BMP6	BMPR1A_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	MRT4	0.01136778854	0		0 MRT4	BMP6 - (BMPR1A+BMPR2)	BMP6	BMPR1A_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	TAM	0.003428213352	0		0 MRT4	BMP6 - (BMPR1A+BMPR2)	BMP6	BMPR1A_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.008194700401	0		0 MRT4	BMP6 - (BMPR1A+BMPR2)	BMP6	BMPR1A_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.006059251525	0		0 MRT4	BMP6 - (BMPR1A+BMPR2)	BMP6	BMPR1A_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.009990363995	0		0 MRT4	BMP6 - (BMPR1A+BMPR2)	BMP6	BMPR1A_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Unknown	0.008760243163	0		0 MRT4	BMP6 - (BMPR1A+BMPR2)	BMP6	BMPR1A_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	TAM	0.001813546173	0		0 MRT4	BMP6 - (BMPR1B+ACVR2A)	BMP6	BMPR1B_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.001710440751	0		0 MRT4	BMP6 - (BMPR1B+ACVR2A)	BMP6	BMPR1B_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	0		0 MRT4	BMP6 - (BMPR1B+ACVR2A)	BMP6	BMPR1B_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.002912576276	0		0 MRT4	BMP6 - (BMPR1B+ACVR2A)	BMP6	BMPR1B_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	Unknown	0.001813546173	0		0 MRT4	BMP6 - (BMPR1B+ACVR2A)	BMP6	BMPR1B_ACVR2A	BMP	Secreted Signaling
Endothelial_Progenitor	MRT4	0.01448196584	0		0 MRT4	BMP6 - (BMPR1B+BMPR2)	BMP6	BMPR1B_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	TAM	0.003428213352	0		0 MRT4	BMP6 - (BMPR1B+BMPR2)	BMP6	BMPR1B_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.004345851973	0		0 MRT4	BMP6 - (BMPR1B+BMPR2)	BMP6	BMPR1B_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.006059251525	0		0 MRT4	BMP6 - (BMPR1B+BMPR2)	BMP6	BMPR1B_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.007203511338	0		0 MRT4	BMP6 - (BMPR1B+BMPR2)	BMP6	BMPR1B_BMPR2	BMP	Secreted Signaling
Endothelial_Progenitor	Unknown	0.003545316884	0		0 MRT4	BMP6 - (BMPR1B+BMPR2)	BMP6	BMPR1B_BMPR2	BMP	Secreted Signaling
Fibroblast	MRT4	0.001868104372	0		0 MRT4	WNT5B - FZD3	WNT5B	FZD3	ncWNT	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.001868104372	0		0 MRT4	WNT5B - FZD4	WNT5B	FZD4	ncWNT	Secreted Signaling
Fibroblast	Adipocyte	0.001924300721	0		0 MRT4	WNT5B - FZD4	WNT5B	FZD4	ncWNT	Secreted Signaling
Fibroblast	Endothelial_Cell	0.001900016108	0		0 MRT4	WNT5B - FZD6	WNT5B	FZD6	ncWNT	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	MRT4	0.001868104372	0	0	MRT4	WNT5B - FZD7	WNT5B	FZD7	ncWNT	Secreted Signaling
Unknown	MRT4	0.001813546173	0	0	MRT4	EGF - EGFR	EGF	EGFR	EGF	Secreted Signaling
Unknown	Fibroblast	0.006471158565	0	0	MRT4	EGF - EGFR	EGF	EGFR	EGF	Secreted Signaling
Unknown	Adipocyte	0.002871356581	0	0	MRT4	EGF - EGFR	EGF	EGFR	EGF	Secreted Signaling
Unknown	Unknown	0.006471158565	0	0	MRT4	EGF - EGFR	EGF	EGFR	EGF	Secreted Signaling
MRT4	Unknown	0.02961042932	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
TAM	Unknown	0.001813546173	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
Fibroblast	Unknown	0.001813546173	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
Endothelial_Cell	Unknown	0.001813546173	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
Endothelial_Progenitor	Unknown	0.006471158565	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
Adipocyte	Unknown	0.008261330201	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
Unknown	Unknown	0.006208820931	0	0	MRT4	NRG1 - ERBB3	NRG1	ERBB3	NRG	Secreted Signaling
MRT4	MRT4	0.4211156105	0	0	MRT4	NRG1 - ERBB4	NRG1	ERBB4	NRG	Secreted Signaling
Unknown	Unknown	0.01064423617	0	0	MRT4	NRG2 - ERBB3	NRG2	ERBB3	NRG	Secreted Signaling
Unknown	MRT4	0.2041330792	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Unknown	TAM	0.03713735501	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Unknown	Fibroblast	0.01676632004	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Unknown	Endothelial_Cell	0.01064423617	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Unknown	Endothelial_Progenitor	0.03713735501	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Unknown	Adipocyte	0.06869043079	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Unknown	Unknown	0.06775046928	0	0	MRT4	NRG2 - ERBB4	NRG2	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	MRT4	0.2154425955	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	MRT4	0.2369661371	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	TAM	0.03965586557	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	TAM	0.0446163443	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	Fibroblast	0.01792907052	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	Fibroblast	0.02022903269	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.01138733503	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	Endothelial_Cell	0.01285910383	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.03965586557	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	Endothelial_Progenitor	0.0446163443	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	Adipocyte	0.0731861036	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	Adipocyte	0.08198276371	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Endothelial_Cell	Unknown	0.07218939176	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
Unknown	Unknown	0.0808767055	0	0	MRT4	NRG3 - ERBB4	NRG3	ERBB4	NRG	Secreted Signaling
MRT4	Fibroblast	0.006471158565	0	0	MRT4	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
Adipocyte	Fibroblast	0.01021786511	0	0	MRT4	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.002871356581	0.02	0.324	MRT4	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
MRT4	Adipocyte	0.005420976139	0	0	MRT4	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
Adipocyte	Adipocyte	0.00856488407	0	0	MRT4	FGF2 - FGFR1	FGF2	FGFR1	FGF	Secreted Signaling
MRT4	Unknown	0.007214930863	0	0	MRT4	FGF2 - FGFR2	FGF2	FGFR2	FGF	Secreted Signaling
Adipocyte	Unknown	0.01138733503	0	0	MRT4	FGF2 - FGFR2	FGF2	FGFR2	FGF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.02539169324	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Adipocyte	Fibroblast	0.006471158565	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Endothelial_Cell	0.007214930863	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Adipocyte	Endothelial_Cell	0.001813546173	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.007214930863	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.001813546173	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Adipocyte	0.02133690401	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Adipocyte	Adipocyte	0.005420976139	0	0	MRT4	FGF7 - FGFR1	FGF7	FGFR1	FGF	Secreted Signaling
Fibroblast	Unknown	0.02824829497	0	0	MRT4	FGF7 - FGFR2	FGF7	FGFR2	FGF	Secreted Signaling
Adipocyte	Unknown	0.007214930863	0	0	MRT4	FGF7 - FGFR2	FGF7	FGFR2	FGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.003247616929	0	0	MRT4	PDGFB - PDGFRA	PDGFB	PDGFRA	PDGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.001292467858	0	0	MRT4	PDGFB - PDGFRB	PDGFB	PDGFRB	PDGF	Secreted Signaling
MRT4	Fibroblast	0.02091873716	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
TAM	Fibroblast	0.02989358749	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Fibroblast	Fibroblast	0.003118488125	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Endothelial_Cell	Fibroblast	0.00401695571	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.003247616929	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Adipocyte	Fibroblast	0.02360433535	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Unknown	Fibroblast	0.01372706672	0	0	MRT4	PDGFC - PDGFRA	PDGFC	PDGFRA	PDGF	Secreted Signaling
Fibroblast	Fibroblast	0.001241077922	0	0	MRT4	PDGFD - PDGFRB	PDGFD	PDGFRB	PDGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01745691216	0	0	MRT4	VEGFC - VEGFR3	VEGFC	FLT4	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01456613253	0	0	MRT4	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01425194964	0	0	MRT4	VEGFC - VEGFR2	VEGFC	KDR	VEGF	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.01802711445	0	0	MRT4	VEGFC - VEGFR2R3	VEGFC	FLT4_KDR	VEGF	Secreted Signaling
TAM	MRT4	0.01885693886	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	MRT4	0.08591429292	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	MRT4	0.05347811728	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
TAM	TAM	0.006208820931	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	TAM	0.02975759281	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	TAM	0.01807581964	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
TAM	Fibroblast	0.009810397826	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Fibroblast	0.04568138637	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	Fibroblast	0.02813980877	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
TAM	Endothelial_Cell	0.01004628599	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.04728685237	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	Endothelial_Cell	0.02897752829	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
TAM	Endothelial_Progenitor	0.01196485113	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.05585900974	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.03436600281	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
TAM	Adipocyte	0.007791649334	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Adipocyte	0.03703158257	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	Adipocyte	0.02258658114	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Unknown	0.01885693886	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Endothelial_Cell	Unknown	0.08591429292	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
Adipocyte	Unknown	0.05347811728	0	0	MRT4	IGF1 - IGF1R	IGF1	IGF1R	IGF	Secreted Signaling
TAM	Unknown	0.005315629332	0	0	MRT4	IGF1 - (ITGA6+ITGB4)	IGF1	ITGA6_ITGB4	IGF	Secreted Signaling
Endothelial_Cell	Unknown	0.02557051641	0	0	MRT4	IGF1 - (ITGA6+ITGB4)	IGF1	ITGA6_ITGB4	IGF	Secreted Signaling
Adipocyte	Unknown	0.01550453928	0	0	MRT4	IGF1 - (ITGA6+ITGB4)	IGF1	ITGA6_ITGB4	IGF	Secreted Signaling
Endothelial_Progenitor	TAM	0.001813546173	0	0	MRT4	CCL14 - CCR1	CCL14	CCR1	CCL	Secreted Signaling
TAM	TAM	0.1084798721	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.008836264842	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Fibroblast	0.1248858367	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01034752534	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Adipocyte	0.0401932892	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.003058754622	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	Unknown	0.2040780729	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
Endothelial_Progenitor	Unknown	0.01843946318	0	0	MRT4	SPP1 - CD44	SPP1	CD44	SPP1	Secreted Signaling
TAM	MRT4	0.04725194638	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	MRT4	0.003620526355	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.07019000587	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.005500358651	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.09023988266	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.007214930863	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.1159764335	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.009520433764	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.06265943014	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	Adipocyte	0.022937511	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.001717049883	0	0	MRT4	SPP1 - (ITGAV+ITGB1)	SPP1	ITGAV_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.03834069647	0	0	MRT4	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.002912576276	0	0	MRT4	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
TAM	Fibroblast	0.04725194638	0	0	MRT4	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.003620526355	0	0	MRT4	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
TAM	Adipocyte	0.01224700781	0	0	MRT4	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.0009075960704	0	0	MRT4	SPP1 - (ITGAV+ITGB5)	SPP1	ITGAV_ITGB5	SPP1	Secreted Signaling
TAM	TAM	0.08271708223	0	0	MRT4	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.006563527514	0	0	MRT4	SPP1 - (ITGA4+ITGB1)	SPP1	ITGA4_ITGB1	SPP1	Secreted Signaling
TAM	TAM	0.08164107331	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	TAM	0.006471158565	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Fibroblast	0.04725194638	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.003620526355	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.1258301393	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.0104360945	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.06265943014	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	SPP1 - (ITGA9+ITGB1)	SPP1	ITGA9_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Cell	0.04484635817	0	0	MRT4	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.003428213352	0	0	MRT4	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
TAM	Endothelial_Progenitor	0.05042090931	0	0	MRT4	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.003875239737	0	0	MRT4	SPP1 - (ITGA5+ITGB1)	SPP1	ITGA5_ITGB1	SPP1	Secreted Signaling
Adipocyte	MRT4	0.006471158565	0	0	MRT4	ADIPOQ - ADIPOR2	ADIPOQ	ADIPOR2	ADIPONECTIN	Secreted Signaling
Adipocyte	Fibroblast	0.006471158565	0	0	MRT4	ADIPOQ - ADIPOR2	ADIPOQ	ADIPOR2	ADIPONECTIN	Secreted Signaling
Adipocyte	Adipocyte	0.03003971187	0	0	MRT4	ADIPOQ - ADIPOR2	ADIPOQ	ADIPOR2	ADIPONECTIN	Secreted Signaling
Adipocyte	Unknown	0.006471158565	0	0	MRT4	ADIPOQ - ADIPOR2	ADIPOQ	ADIPOR2	ADIPONECTIN	Secreted Signaling
TAM	MRT4	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	MRT4	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	MRT4	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Adipocyte	MRT4	0.001813546173	0.02	0.047647056	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Fibroblast	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	Fibroblast	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Adipocyte	Fibroblast	0.001813546173	0.02	0.047647056	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Endothelial_Cell	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Cell	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.001813546173	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Adipocyte	Endothelial_Cell	0.001813546173	0.01	0.027931034	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Endothelial_Progenitor	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Adipocyte	0.006471158565	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	Adipocyte	0.006471158565	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.006471158565	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Adipocyte	Adipocyte	0.006471158565	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Unknown	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Fibroblast	Unknown	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Unknown	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
Adipocyte	Unknown	0.007214930863	0	0	MRT4	NAMPT - INSR	NAMPT	INSR	VISFATIN	Secreted Signaling
TAM	Endothelial_Cell	0.003428213352	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Cell	0.003428213352	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.003428213352	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Adipocyte	Endothelial_Cell	0.003428213352	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
TAM	Endothelial_Progenitor	0.003875239737	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.003875239737	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.003875239737	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.003875239737	0	0	MRT4	NAMPT - (ITGA5+ITGB1)	NAMPT	ITGA5_ITGB1	VISFATIN	Secreted Signaling
Fibroblast	Endothelial_Cell	0.003428213352	0	0	MRT4	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Adipocyte	Endothelial_Cell	0.003428213352	0	0	MRT4	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.003875239737	0	0	MRT4	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.003875239737	0	0	MRT4	ANGPTL2 - (ITGA5+ITGB1)	ANGPTL2	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Fibroblast	TAM	0.001813546173	0	0	MRT4	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Adipocyte	TAM	0.001813546173	0	0	MRT4	ANGPTL2 - TLR4	ANGPTL2	TLR4	ANGPTL	Secreted Signaling
Adipocyte	Endothelial_Cell	0.01218206128	0	0	MRT4	ANGPTL4 - (ITGA5+ITGB1)	ANGPTL4	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.01375480248	0	0	MRT4	ANGPTL4 - (ITGA5+ITGB1)	ANGPTL4	ITGA5_ITGB1	ANGPTL	Secreted Signaling
Adipocyte	Endothelial_Cell	0.006471158565	0	0	MRT4	ANGPTL4 - CDH5	ANGPTL4	CDH5	ANGPTL	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.01021786511	0	0	MRT4	ANGPTL4 - CDH5	ANGPTL4	CDH5	ANGPTL	Secreted Signaling
Adipocyte	Fibroblast	0.05052465144	0	0	MRT4	ANGPTL4 - CDH11	ANGPTL4	CDH11	ANGPTL	Secreted Signaling
Adipocyte	MRT4	0.02281718177	0	0	MRT4	ANGPTL4 - SDC2	ANGPTL4	SDC2	ANGPTL	Secreted Signaling
Adipocyte	TAM	0.006471158565	0	0	MRT4	ANGPTL4 - SDC2	ANGPTL4	SDC2	ANGPTL	Secreted Signaling
Adipocyte	Fibroblast	0.02539169324	0	0	MRT4	ANGPTL4 - SDC2	ANGPTL4	SDC2	ANGPTL	Secreted Signaling
Adipocyte	Adipocyte	0.006471158565	0	0	MRT4	ANGPTL4 - SDC2	ANGPTL4	SDC2	ANGPTL	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.001760578542	0	0	MRT4	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.007005313953	0	0	MRT4	ANGPT2 - TEK	ANGPT2	TEK	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.003094948089	0	0	MRT4	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.003263633227	0	0	MRT4	ANGPT2 - (ITGA5+ITGB1)	ANGPT2	ITGA5_ITGB1	ANGPT	Secreted Signaling
MRT4	MRT4	0.07261892295	0	0	MRT4	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
MRT4	Fibroblast	0.0803506196	0	0	MRT4	MDK - SDC2	MDK	SDC2	MK	Secreted Signaling
MRT4	TAM	0.07358555009	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
TAM	TAM	0.02574713399	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Fibroblast	TAM	0.04112699565	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Endothelial_Cell	TAM	0.02313743928	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	TAM	0.04112699565	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Adipocyte	TAM	0.04305866906	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
Unknown	TAM	0.03396707429	0	0	MRT4	MDK - (ITGA4+ITGB1)	MDK	ITGA4_ITGB1	MK	Secreted Signaling
MRT4	Endothelial_Cell	0.07261892295	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
TAM	Endothelial_Cell	0.02539169324	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Fibroblast	Endothelial_Cell	0.04056807602	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.02281718177	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.04056807602	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Adipocyte	Endothelial_Cell	0.04247466066	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Unknown	Endothelial_Cell	0.03350205894	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
MRT4	Endothelial_Progenitor	0.09877920164	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
TAM	Endothelial_Progenitor	0.03518427917	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.05587802956	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.03164912177	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.05587802956	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.05846029643	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Unknown	Endothelial_Progenitor	0.04627398758	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
MRT4	Unknown	0.09594468505	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Unknown	0.0341055888	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Fibroblast	Unknown	0.05420054461	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Endothelial_Cell	Unknown	0.03067536744	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Endothelial_Progenitor	Unknown	0.05420054461	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Adipocyte	Unknown	0.05670994701	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
Unknown	Unknown	0.0448711177	0	0	MRT4	MDK - (ITGA6+ITGB1)	MDK	ITGA6_ITGB1	MK	Secreted Signaling
MRT4	TAM	0.07261892295	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
TAM	TAM	0.02539169324	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Fibroblast	TAM	0.04056807602	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Cell	TAM	0.02281718177	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Progenitor	TAM	0.04056807602	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Adipocyte	TAM	0.04247466066	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Unknown	TAM	0.03350205894	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT4	Fibroblast	0.1014670863	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
TAM	Fibroblast	0.03621121107	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Fibroblast	Fibroblast	0.05747297566	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Cell	Fibroblast	0.03257635605	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.05747297566	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Adipocyte	Fibroblast	0.06012425525	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Unknown	Fibroblast	0.04760862562	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT4	Adipocyte	0.1622906647	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
TAM	Adipocyte	0.06055388862	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Fibroblast	Adipocyte	0.09470422421	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Cell	Adipocyte	0.05461399657	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.09470422421	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Adipocyte	Adipocyte	0.09889280802	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
Unknown	Adipocyte	0.07898521048	0	0	MRT4	MDK - LRP1	MDK	LRP1	MK	Secreted Signaling
MRT4	MRT4	0.0803506196	0	0	MRT4	MDK - NCL	MDK	NCL	MK	Secreted Signaling
Fibroblast	TAM	0.01934979259	0	0	MRT4	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Fibroblast	Fibroblast	0.02395708507	0	0	MRT4	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Fibroblast	Adipocyte	0.006098854346	0	0	MRT4	POSTN - (ITGAV+ITGB5)	POSTN	ITGAV_ITGB5	PERIOSTIN	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	EDN1 - EDNRA	EDN1	EDNRA	EDN	Secreted Signaling
MRT4	Endothelial_Progenitor	0.127839669	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.011527749	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.04013070118	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.1051595997	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.03380388167	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.07716472774	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
Unknown	Endothelial_Progenitor	0.03380388167	0	0	MRT4	SEMA3A - (NRP1+PLXNA2)	SEMA3A	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT4	Fibroblast	0.07035542892	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
TAM	Fibroblast	0.005985276476	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.02113007324	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Fibroblast	0.05720475051	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.01774343075	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.04138566437	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Unknown	Fibroblast	0.01774343075	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
MRT4	Adipocyte	0.1694641161	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
TAM	Adipocyte	0.01597483119	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Adipocyte	0.05499806213	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	Adipocyte	0.1405898203	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.046440728	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Adipocyte	0.1042619207	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Unknown	Adipocyte	0.046440728	0	0	MRT4	SEMA3A - (NRP1+PLXNA4)	SEMA3A	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.04798456441	0	0	MRT4	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.04542566085	0	0	MRT4	SEMA3C - (NRP1+PLXNA2)	SEMA3C	NRP1_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.02536363801	0	0	MRT4	SEMA3C - (NRP1+PLXNA4)	SEMA3C	NRP1_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.02398066861	0	0	MRT4	SEMA3C - (NRP1+PLXNA4)	SEMA3C	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Adipocyte	0.06556283311	0	0	MRT4	SEMA3C - (NRP1+PLXNA4)	SEMA3C	NRP1_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Adipocyte	0.06212769638	0	0	MRT4	SEMA3C - (NRP1+PLXNA4)	SEMA3C	NRP1_PLXNA4	SEMA3	Secreted Signaling
MRT4	Endothelial_Progenitor	0.1503797778	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.011527749	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.04013070118	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.04013070118	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.04013070118	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.0535912846	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
Unknown	Endothelial_Progenitor	0.04013070118	0	0	MRT4	SEMA3D - (NRP1+PLXNA2)	SEMA3D	NRP1_PLXNA2	SEMA3	Secreted Signaling
MRT4	Fibroblast	0.08373324049	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
TAM	Fibroblast	0.005985276476	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.02113007324	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	Fibroblast	0.02113007324	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.02113007324	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.02840609833	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Unknown	Fibroblast	0.02113007324	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
MRT4	Adipocyte	0.1976798266	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
TAM	Adipocyte	0.01597483119	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Adipocyte	0.05499806213	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	Adipocyte	0.05499806213	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	Adipocyte	0.05499806213	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Adipocyte	0.07306583743	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Unknown	Adipocyte	0.05499806213	0	0	MRT4	SEMA3D - (NRP1+PLXNA4)	SEMA3D	NRP1_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.04359277757	0	0	MRT4	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Cell	0.04125792784	0	0	MRT4	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.01863260422	0	0	MRT4	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.01761001764	0	0	MRT4	SEMA3C - (NRP2+PLXNA2)	SEMA3C	NRP2_PLXNA2	SEMA3	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.01098280625	0	0	MRT4	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.01037561386	0	0	MRT4	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.04593435667	0	0	MRT4	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Cell	0.04347979248	0	0	MRT4	SEMA3C - (NRP2+PLXNA4)	SEMA3C	NRP2_PLXNA4	SEMA3	Secreted Signaling
MRT4	Endothelial_Cell	0.1379745027	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Cell	0.0104360945	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.03643023225	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.03643023225	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.03643023225	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Cell	0.04871259979	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Unknown	Endothelial_Cell	0.03643023225	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT4	Endothelial_Progenitor	0.06250542715	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
TAM	Endothelial_Progenitor	0.004373817981	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.01550467518	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Progenitor	0.01550467518	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Progenitor	0.01550467518	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.02088495423	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
Unknown	Endothelial_Progenitor	0.01550467518	0	0	MRT4	SEMA3D - (NRP2+PLXNA2)	SEMA3D	NRP2_PLXNA2	SEMA3	Secreted Signaling
MRT4	Fibroblast	0.03753209174	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
TAM	Fibroblast	0.002562816418	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.009127135453	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	Fibroblast	0.009127135453	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.009127135453	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.01232204276	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Unknown	Fibroblast	0.009127135453	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
MRT4	Endothelial_Cell	0.1446191873	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
TAM	Endothelial_Cell	0.01101718368	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.0384025246	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.0384025246	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Endothelial_Progenitor	Endothelial_Cell	0.0384025246	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Cell	0.05131443411	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Unknown	Endothelial_Cell	0.0384025246	0	0	MRT4	SEMA3D - (NRP2+PLXNA4)	SEMA3D	NRP2_PLXNA4	SEMA3	Secreted Signaling
Fibroblast	TAM	0.04740733004	0	0	MRT4	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Adipocyte	TAM	0.04487775795	0	0	MRT4	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Fibroblast	Fibroblast	0.0136644495	0	0	MRT4	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.01291093591	0	0	MRT4	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.03037047622	0	0	MRT4	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.02872255095	0	0	MRT4	SEMA3C - (NRP1+NRP2)	SEMA3C	NRP1_NRP2	SEMA3	Secreted Signaling
Fibroblast	MRT4	0.007791079036	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Adipocyte	MRT4	0.007359030626	0.01	0.062307692	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	TAM	0.02737931641	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Adipocyte	TAM	0.02588936024	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.007791079036	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Adipocyte	Fibroblast	0.007359030626	0.01	0.062307692	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Cell	0.007791079036	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Cell	0.007359030626	0.01	0.062307692	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Endothelial_Progenitor	0.02737931641	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Adipocyte	Endothelial_Progenitor	0.02588936024	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Fibroblast	Adipocyte	0.007791079036	0	0	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
Adipocyte	Adipocyte	0.007359030626	0.01	0.062307692	MRT4	SEMA3C - PLXND1	SEMA3C	PLXND1	SEMA3	Secreted Signaling
MRT4	MRT4	0.01074310025	0	0	MRT4	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT4	TAM	0.03747296805	0	0	MRT4	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT4	Fibroblast	0.01074310025	0	0	MRT4	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT4	Endothelial_Cell	0.01074310025	0	0	MRT4	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT4	Endothelial_Progenitor	0.03747296805	0	0	MRT4	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
MRT4	Adipocyte	0.01074310025	0.01	0.135	MRT4	SEMA3E - PLXND1	SEMA3E	PLXND1	SEMA3	Secreted Signaling
TAM	TAM	0.0004540040614	0	0	MRT4	ANXA1 - FPR1	ANXA1	FPR1	ANNEXIN	Secreted Signaling
Fibroblast	TAM	0.0004540040614	0	0	MRT4	ANXA1 - FPR1	ANXA1	FPR1	ANNEXIN	Secreted Signaling
Endothelial_Progenitor	TAM	0.0004540040614	0	0	MRT4	ANXA1 - FPR1	ANXA1	FPR1	ANNEXIN	Secreted Signaling
Adipocyte	TAM	0.0004540040614	0	0	MRT4	ANXA1 - FPR1	ANXA1	FPR1	ANNEXIN	Secreted Signaling
TAM	Fibroblast	0.001813546173	0	0	MRT4	GAS6 - AXL	GAS6	AXL	GAS	Secreted Signaling
Endothelial_Cell	Fibroblast	0.001813546173	0	0	MRT4	GAS6 - AXL	GAS6	AXL	GAS	Secreted Signaling
TAM	TAM	0.009879250982	0	0	MRT4	GAS6 - MERTK	GAS6	MERTK	GAS	Secreted Signaling
Endothelial_Cell	TAM	0.009879250982	0	0	MRT4	GAS6 - MERTK	GAS6	MERTK	GAS	Secreted Signaling
TAM	Endothelial_Cell	0.001813546173	0	0	MRT4	GAS6 - MERTK	GAS6	MERTK	GAS	Secreted Signaling
Endothelial_Cell	Endothelial_Cell	0.001813546173	0	0	MRT4	GAS6 - MERTK	GAS6	MERTK	GAS	Secreted Signaling
MRT4	Adipocyte	0.006471158565	0	0	MRT4	GRN - SORT1	GRN	SORT1	GRN	Secreted Signaling
TAM	Adipocyte	0.01655787565	0	0	MRT4	GRN - SORT1	GRN	SORT1	GRN	Secreted Signaling
TAM	TAM	0.01462634994	0	0	MRT4	LGALS9 - CD45	LGALS9	PTPRC	GALECTIN	Secreted Signaling
MRT4	Fibroblast	0.001813546173	0	0	MRT4	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	PROS1 - AXL	PROS1	AXL	PROS	Secreted Signaling
Adipocyte	TAM	0.001813546173	0	0	MRT4	RARRES2 - CMKLR1	RARRES2	CMKLR1	CHEMERIN	Secreted Signaling
TAM	TAM	0.002871356581	0	0	MRT4	LGALS9 - HAVCR2	LGALS9	HAVCR2	GALECTIN	Secreted Signaling
TAM	TAM	0.008836264842	0	0	MRT4	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
TAM	Fibroblast	0.01034752534	0	0	MRT4	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
TAM	Adipocyte	0.003058754622	0	0	MRT4	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
TAM	Unknown	0.01843946318	0	0	MRT4	LGALS9 - CD44	LGALS9	CD44	GALECTIN	Secreted Signaling
MRT4	Endothelial_Cell	0.02091344533	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.0175609002	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08285639815	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.009355280252	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.02091344533	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.009355280252	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Cell	0.009355280252	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT4	Endothelial_Progenitor	0.01725518866	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.01448040976	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06912787233	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.007702913888	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01725518866	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.007702913888	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Progenitor	0.007702913888	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Adipocyte	0.01218206128	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Adipocyte	0.01021460437	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.04957317854	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.005422715023	0.01	0.03	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.01218206128	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.005422715023	0	0	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Adipocyte	0.005422715023	0.01	0.03	MRT4	COL1A1 - (ITGA1+ITGB1)	COL1A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Cell	0.06358344517	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.02327827113	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.09602760534	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.02327827113	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.038690234	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.05108928208	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Cell	0.03723974664	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Progenitor	0.05286420169	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.01921446856	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.08030782702	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01921446856	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0320241048	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.04238104262	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Progenitor	0.03081551788	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Adipocyte	0.03772368768	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
TAM	Adipocyte	0.01357325734	0.01	0.03	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.05778690554	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01357325734	0.01	0.03	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.02270916678	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.03014737924	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Adipocyte	0.02184419154	0	0	MRT4	COL1A2 - (ITGA1+ITGB1)	COL1A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02510472025	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03723974664	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.0615382138	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.06316276504	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02072883241	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03081551788	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.05114493459	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Adipocyte	Endothelial_Progenitor	0.05251046518	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.01464965723	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.02184419154	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.03647786098	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.03746725496	0	0	MRT4	COL4A1 - (ITGA1+ITGB1)	COL4A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03315238299	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04762236626	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.06445083772	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.06693949375	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02741318834	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03948048071	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.05359373363	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.05568811598	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.0194125428	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.02805955697	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.03825271747	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.03977278473	0	0	MRT4	COL4A2 - (ITGA1+ITGB1)	COL4A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.02510472025	0	0	MRT4	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.02072883241	0	0	MRT4	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01464965723	0	0	MRT4	COL4A5 - (ITGA1+ITGB1)	COL4A5	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03315238299	0	0	MRT4	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.00592297525	0	0	MRT4	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02741318834	0	0	MRT4	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.0194125428	0	0	MRT4	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.003428213352	0	0	MRT4	COL6A1 - (ITGA1+ITGB1)	COL6A1	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0454974405	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.00592297525	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.00592297525	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03770446584	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.02678298237	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.003428213352	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.003428213352	0	0	MRT4	COL6A2 - (ITGA1+ITGB1)	COL6A2	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.06154640976	0	0	MRT4	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.00592297525	0	0	MRT4	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.05115182177	0	0	MRT4	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.03648284903	0	0	MRT4	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.003428213352	0	0	MRT4	COL6A3 - (ITGA1+ITGB1)	COL6A3	ITGA1_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Progenitor	0.01375480248	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Endothelial_Progenitor	0.0115363073	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.05570120485	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.006128217792	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01375480248	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.006128217792	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Progenitor	0.006128217792	0	0	MRT4	COL1A1 - (ITGA2+ITGB1)	COL1A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Progenitor	0.04245221798	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.01532282014	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06486077908	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01532282014	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.02560575986	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.03395976081	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Progenitor	0.02463323646	0	0	MRT4	COL1A2 - (ITGA2+ITGB1)	COL1A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01653563978	0	0	MRT4	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.02463323646	0	0	MRT4	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.04105689411	0	0	MRT4	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.04216505076	0	0	MRT4	COL4A1 - (ITGA2+ITGB1)	COL4A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02189806773	0	0	MRT4	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03161652335	0	0	MRT4	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0430445935	0	0	MRT4	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.04474621858	0	0	MRT4	COL4A2 - (ITGA2+ITGB1)	COL4A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01653563978	0	0	MRT4	COL4A5 - (ITGA2+ITGB1)	COL4A5	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02189806773	0	0	MRT4	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.003875239737	0	0	MRT4	COL6A1 - (ITGA2+ITGB1)	COL6A1	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03018314932	0	0	MRT4	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.003875239737	0	0	MRT4	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.003875239737	0	0	MRT4	COL6A2 - (ITGA2+ITGB1)	COL6A2	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04106248162	0	0	MRT4	COL6A3 - (ITGA2+ITGB1)	COL6A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.003875239737	0	0	MRT4	COL6A3 - (ITGA2+ITGB1)	COL6A3	ITGA2_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.0294017054	0	0	MRT4	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.02574713399	0	0	MRT4	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	TAM	0.0103631565	0	0	MRT4	FN1 - (ITGA4+ITGB1)	FN1	ITGA4_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01552739769	0	0	MRT4	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01357325734	0	0	MRT4	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.005422715023	0	0	MRT4	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01752437	0	0	MRT4	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01532282014	0	0	MRT4	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.006128217792	0	0	MRT4	FN1 - (ITGA5+ITGB1)	FN1	ITGA5_ITGB1	FN1	ECM-Receptor
MRT4	Endothelial_Cell	0.0782979512	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Cell	0.009355280252	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05384196417	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.00592297525	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Endothelial_Cell	0.0175609002	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.031685123	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Cell	0.0175609002	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.06527096481	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Progenitor	0.007702913888	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04468662195	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01448040976	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.02619305262	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Progenitor	0.01448040976	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.04675250554	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
TAM	Adipocyte	0.005422715023	0.01	0.03	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.03180953967	0	0	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.003428213352	0.01	0.03	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.01021460437	0.01	0.03	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.0185417196	0.01	0.03	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Unknown	Adipocyte	0.01021460437	0.01	0.03	MRT4	LAMA2 - (ITGA1+ITGB1)	LAMA2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.00592297525	0	0	MRT4	LAMA3 - (ITGA1+ITGB1)	LAMA3	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMA3 - (ITGA1+ITGB1)	LAMA3	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.003428213352	0	0	MRT4	LAMA3 - (ITGA1+ITGB1)	LAMA3	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.031685123	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06189845374	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.03315238299	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.06135739416	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02619305262	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.05144766848	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.02741318834	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.05099299446	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.0185417196	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.03669713609	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.0194125428	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.03636782339	0	0	MRT4	LAMA4 - (ITGA1+ITGB1)	LAMA4	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.00592297525	0	0	MRT4	LAMA5 - (ITGA1+ITGB1)	LAMA5	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMA5 - (ITGA1+ITGB1)	LAMA5	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.003428213352	0	0	MRT4	LAMA5 - (ITGA1+ITGB1)	LAMA5	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.009355280252	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.02988326999	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.04683138383	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.009355280252	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.007702913888	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.0246955545	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.03881921859	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Adipocyte	Endothelial_Progenitor	0.007702913888	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.005422715023	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01747381093	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.02758409148	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.005422715023	0	0	MRT4	LAMB1 - (ITGA1+ITGB1)	LAMB1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.00592297525	0	0	MRT4	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.00592297525	0	0	MRT4	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.003428213352	0	0	MRT4	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.003428213352	0	0	MRT4	LAMB2 - (ITGA1+ITGB1)	LAMB2	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.00592297525	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02327827113	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03723974664	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.02659197488	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.03723974664	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01921446856	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03081551788	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0219626907	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.03081551788	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.003428213352	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.01357325734	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.02184419154	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.01552739769	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.02184419154	0	0	MRT4	LAMC1 - (ITGA1+ITGB1)	LAMC1	ITGA1_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.05255096106	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Progenitor	0.006128217792	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03582435083	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.003875239737	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0115363073	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.02091812538	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Progenitor	0.0115363073	0	0	MRT4	LAMA2 - (ITGA2+ITGB1)	LAMA2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.003875239737	0	0	MRT4	LAMA3 - (ITGA2+ITGB1)	LAMA3	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02091812538	0	0	MRT4	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04130251472	0	0	MRT4	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.02189806773	0	0	MRT4	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.04093363041	0	0	MRT4	LAMA4 - (ITGA2+ITGB1)	LAMA4	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.003875239737	0	0	MRT4	LAMA5 - (ITGA2+ITGB1)	LAMA5	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.006128217792	0	0	MRT4	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01971609734	0	0	MRT4	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.03108271305	0	0	MRT4	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Adipocyte	Endothelial_Progenitor	0.006128217792	0	0	MRT4	LAMB1 - (ITGA2+ITGB1)	LAMB1	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.003875239737	0	0	MRT4	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.003875239737	0	0	MRT4	LAMB2 - (ITGA2+ITGB1)	LAMB2	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.003875239737	0	0	MRT4	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01532282014	0	0	MRT4	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.02463323646	0	0	MRT4	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01752437	0	0	MRT4	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.02463323646	0	0	MRT4	LAMC1 - (ITGA2+ITGB1)	LAMC1	ITGA2_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.08497201251	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Cell	0.01021786511	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05856386838	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.006471158565	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01916543061	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.03453481178	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Cell	0.01916543061	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.1150303957	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Progenitor	0.01424402428	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.08009825741	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.009034473367	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0266223817	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.04768103146	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Progenitor	0.0266223817	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Unknown	0.1117873875	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
TAM	Unknown	0.01379814529	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.07775355058	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.008750220775	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.02579916554	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.04623757284	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Unknown	Unknown	0.02579916554	0	0	MRT4	LAMA2 - (ITGA6+ITGB1)	LAMA2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.006471158565	0	0	MRT4	LAMA3 - (ITGA6+ITGB1)	LAMA3	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.009034473367	0	0	MRT4	LAMA3 - (ITGA6+ITGB1)	LAMA3	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.008750220775	0	0	MRT4	LAMA3 - (ITGA6+ITGB1)	LAMA3	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.03453481178	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06727666747	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.03612911016	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.06669193863	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04768103146	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.09170275038	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.04985088817	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.09092642028	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.04623757284	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.08905123102	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Unknown	0.04834507571	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.08829516589	0	0	MRT4	LAMA4 - (ITGA6+ITGB1)	LAMA4	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.006471158565	0	0	MRT4	LAMA5 - (ITGA6+ITGB1)	LAMA5	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.009034473367	0	0	MRT4	LAMA5 - (ITGA6+ITGB1)	LAMA5	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.008750220775	0	0	MRT4	LAMA5 - (ITGA6+ITGB1)	LAMA5	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01021786511	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03257635605	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.0509715867	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.01021786511	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01424402428	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.04501181615	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.06992158074	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.01424402428	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.01379814529	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.0436454599	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.06785280114	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.01379814529	0	0	MRT4	LAMB1 - (ITGA6+ITGB1)	LAMB1	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.006471158565	0	0	MRT4	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.006471158565	0	0	MRT4	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.009034473367	0	0	MRT4	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.009034473367	0	0	MRT4	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Unknown	0.008750220775	0	0	MRT4	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.008750220775	0	0	MRT4	LAMB2 - (ITGA6+ITGB1)	LAMB2	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.006471158565	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02539169324	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04056807602	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.02899731469	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.04056807602	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.009034473367	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03518427917	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.05587802956	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.04012320139	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.05587802956	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Unknown	0.008750220775	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.0341055888	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.05420054461	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.03889919692	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.05420054461	0	0	MRT4	LAMC1 - (ITGA6+ITGB1)	LAMC1	ITGA6_ITGB1	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.0782979512	0	0	MRT4	LAMA2 - (ITGA7+ITGB1)	LAMA2	ITGA7_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.05384196417	0	0	MRT4	LAMA2 - (ITGA7+ITGB1)	LAMA2	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.00592297525	0	0	MRT4	LAMA3 - (ITGA7+ITGB1)	LAMA3	ITGA7_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.031685123	0	0	MRT4	LAMA4 - (ITGA7+ITGB1)	LAMA4	ITGA7_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Adipocyte	0.06189845374	0	0	MRT4	LAMA4 - (ITGA7+ITGB1)	LAMA4	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.03315238299	0	0	MRT4	LAMA4 - (ITGA7+ITGB1)	LAMA4	ITGA7_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.06135739416	0	0	MRT4	LAMA4 - (ITGA7+ITGB1)	LAMA4	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.00592297525	0	0	MRT4	LAMA5 - (ITGA7+ITGB1)	LAMA5	ITGA7_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.009355280252	0	0	MRT4	LAMB1 - (ITGA7+ITGB1)	LAMB1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.02988326999	0	0	MRT4	LAMB1 - (ITGA7+ITGB1)	LAMB1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.04683138383	0	0	MRT4	LAMB1 - (ITGA7+ITGB1)	LAMB1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.009355280252	0	0	MRT4	LAMB1 - (ITGA7+ITGB1)	LAMB1	ITGA7_ITGB1	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.00592297525	0	0	MRT4	LAMB2 - (ITGA7+ITGB1)	LAMB2	ITGA7_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.00592297525	0	0	MRT4	LAMB2 - (ITGA7+ITGB1)	LAMB2	ITGA7_ITGB1	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.00592297525	0	0	MRT4	LAMC1 - (ITGA7+ITGB1)	LAMC1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.02327827113	0	0	MRT4	LAMC1 - (ITGA7+ITGB1)	LAMC1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.03723974664	0	0	MRT4	LAMC1 - (ITGA7+ITGB1)	LAMC1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.02659197488	0	0	MRT4	LAMC1 - (ITGA7+ITGB1)	LAMC1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.03723974664	0	0	MRT4	LAMC1 - (ITGA7+ITGB1)	LAMC1	ITGA7_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.0483909395	0	0	MRT4	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Fibroblast	0.02758682367	0	0	MRT4	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07607384083	0	0	MRT4	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03682995804	0	0	MRT4	TNC - (ITGA9+ITGB1)	TNC	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	TAM	0.006471158565	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Endothelial_Cell	TAM	0.02281718177	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Fibroblast	0.003620526355	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01285910383	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0104360945	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03643023225	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.004873853519	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01725518866	0	0	MRT4	TNXB - (ITGA9+ITGB1)	TNXB	ITGA9_ITGB1	TENASCIN	ECM-Receptor
MRT4	TAM	0.02281718177	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	TAM	0.01916543061	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.08988112734	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.01021786511	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.02281718177	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.01021786511	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	TAM	0.01021786511	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Fibroblast	0.01285910383	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01078349521	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.05221845489	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.005726270996	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01285910383	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.005726270996	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Fibroblast	0.005726270996	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Cell	0.03643023225	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	Endothelial_Cell	0.03066817164	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1378606859	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01644045401	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.03643023225	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.01644045401	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Cell	0.01644045401	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Progenitor	0.01725518866	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.01448040976	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.06912787233	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.007702913888	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01725518866	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.007702913888	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Progenitor	0.007702913888	0	0	MRT4	COL1A1 - (ITGA9+ITGB1)	COL1A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	TAM	0.06909728023	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	TAM	0.02539169324	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1040423373	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.02539169324	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.04214252713	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.05558395994	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	TAM	0.04056807602	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Fibroblast	0.03976311654	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01432649704	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.06084241719	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01432649704	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.02395708507	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.03179074725	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Fibroblast	0.02304569842	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Cell	0.1072900889	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Cell	0.04047710921	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1582667516	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04047710921	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.06650070824	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.08700553253	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Cell	0.06407710916	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Endothelial_Progenitor	0.05286420169	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
TAM	Endothelial_Progenitor	0.01921446856	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.08030782702	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01921446856	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0320241048	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.04238104262	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Endothelial_Progenitor	0.03081551788	0	0	MRT4	COL1A2 - (ITGA9+ITGB1)	COL1A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.02737931641	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	TAM	0.04056807602	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.06688735885	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.06864279368	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.01546169479	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02304569842	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.038452629	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.03949338945	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04359277757	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06407710916	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1039951165	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.1066131601	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02072883241	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03081551788	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.05114493459	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.05251046518	0	0	MRT4	COL4A1 - (ITGA9+ITGB1)	COL4A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.03612911016	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.05182869484	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.07003426584	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.07272175765	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02048310128	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02959258802	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.04031954852	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.04191816677	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05721919299	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.08131018698	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.1086845168	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.1126754703	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02741318834	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03948048071	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.05359373363	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.05568811598	0	0	MRT4	COL4A2 - (ITGA9+ITGB1)	COL4A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.02737931641	0	0	MRT4	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01546169479	0	0	MRT4	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.04359277757	0	0	MRT4	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.02072883241	0	0	MRT4	COL4A5 - (ITGA9+ITGB1)	COL4A5	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.03612911016	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.006471158565	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02048310128	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.05721919299	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.0104360945	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02741318834	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A1 - (ITGA9+ITGB1)	COL6A1	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.0495258415	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.006471158565	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.006471158565	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02824829497	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.003620526355	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.07780490094	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0104360945	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.0104360945	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.03770446584	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A2 - (ITGA9+ITGB1)	COL6A2	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.06689621645	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.006471158565	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.0384578763	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Cell	0.1040083404	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Cell	0.0104360945	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.05115182177	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	COL6A3 - (ITGA9+ITGB1)	COL6A3	ITGA9_ITGB1	COLLAGEN	ECM-Receptor
MRT4	TAM	0.08497201251	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
TAM	TAM	0.01021786511	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.05856386838	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.006471158565	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.01916543061	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	TAM	0.03453481178	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Unknown	TAM	0.01916543061	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.04925506811	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
TAM	Fibroblast	0.005726270996	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.0335403805	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.003620526355	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01078349521	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.01956521232	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Unknown	Fibroblast	0.01078349521	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.1307073811	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Cell	0.01644045401	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.09150676189	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.0104360945	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.03066817164	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.0547470962	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Cell	0.03066817164	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
MRT4	Endothelial_Progenitor	0.06527096481	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
TAM	Endothelial_Progenitor	0.007702913888	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.04468662195	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.01448040976	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.02619305262	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Unknown	Endothelial_Progenitor	0.01448040976	0	0	MRT4	LAMA2 - (ITGA9+ITGB1)	LAMA2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.006471158565	0	0	MRT4	LAMA3 - (ITGA9+ITGB1)	LAMA3	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.003620526355	0	0	MRT4	LAMA3 - (ITGA9+ITGB1)	LAMA3	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.0104360945	0	0	MRT4	LAMA3 - (ITGA9+ITGB1)	LAMA3	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMA3 - (ITGA9+ITGB1)	LAMA3	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.03453481178	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.06727666747	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.03612911016	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	TAM	0.06669193863	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.01956521232	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.03868329822	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.02048310128	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.03833687142	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0547470962	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.1045762002	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.05721919299	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.10370333	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.02619305262	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.05144766848	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.02741318834	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.05099299446	0	0	MRT4	LAMA4 - (ITGA9+ITGB1)	LAMA4	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.006471158565	0	0	MRT4	LAMA5 - (ITGA9+ITGB1)	LAMA5	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.003620526355	0	0	MRT4	LAMA5 - (ITGA9+ITGB1)	LAMA5	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.0104360945	0	0	MRT4	LAMA5 - (ITGA9+ITGB1)	LAMA5	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMA5 - (ITGA9+ITGB1)	LAMA5	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.01021786511	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.03257635605	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.0509715867	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	TAM	0.01021786511	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.005726270996	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01843946318	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.02909192306	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.005726270996	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01644045401	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.05170379407	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.08000667277	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Adipocyte	Endothelial_Cell	0.01644045401	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.007702913888	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.0246955545	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.03881921859	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.007702913888	0	0	MRT4	LAMB1 - (ITGA9+ITGB1)	LAMB1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	TAM	0.006471158565	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	TAM	0.006471158565	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.003620526355	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.0104360945	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.0104360945	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMB2 - (ITGA9+ITGB1)	LAMB2	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	TAM	0.006471158565	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	TAM	0.02539169324	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.04056807602	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.02899731469	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	TAM	0.04056807602	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.003620526355	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.01432649704	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02304569842	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01638727967	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.02304569842	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Cell	0.0104360945	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Cell	0.04047710921	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.06407710916	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.04612348372	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Cell	0.06407710916	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Endothelial_Progenitor	0.004873853519	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.01921446856	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.03081551788	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.0219626907	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
Adipocyte	Endothelial_Progenitor	0.03081551788	0	0	MRT4	LAMC1 - (ITGA9+ITGB1)	LAMC1	ITGA9_ITGB1	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.01285910383	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01078349521	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.05221845489	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.005726270996	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01285910383	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.005726270996	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Fibroblast	0.005726270996	0	0	MRT4	COL1A1 - (ITGA11+ITGB1)	COL1A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
MRT4	Fibroblast	0.03976311654	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.01432649704	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.06084241719	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01432649704	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.02395708507	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.03179074725	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Unknown	Fibroblast	0.02304569842	0	0	MRT4	COL1A2 - (ITGA11+ITGB1)	COL1A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.01546169479	0	0	MRT4	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02304569842	0	0	MRT4	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.038452629	0	0	MRT4	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.03949338945	0	0	MRT4	COL4A1 - (ITGA11+ITGB1)	COL4A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02048310128	0	0	MRT4	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02959258802	0	0	MRT4	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.04031954852	0	0	MRT4	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.04191816677	0	0	MRT4	COL4A2 - (ITGA11+ITGB1)	COL4A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01546169479	0	0	MRT4	COL4A5 - (ITGA11+ITGB1)	COL4A5	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02048310128	0	0	MRT4	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	COL6A1 - (ITGA11+ITGB1)	COL6A1	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.02824829497	0	0	MRT4	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.003620526355	0	0	MRT4	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	COL6A2 - (ITGA11+ITGB1)	COL6A2	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.0384578763	0	0	MRT4	COL6A3 - (ITGA11+ITGB1)	COL6A3	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.003620526355	0	0	MRT4	COL6A3 - (ITGA11+ITGB1)	COL6A3	ITGA11_ITGB1	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.01638727967	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	MRT4	0.01432649704	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	MRT4	0.005726270996	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	TAM	0.02473127259	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.02164428068	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	TAM	0.00868990241	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.03224613295	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.02824829497	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01138733503	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Cell	0.0422101815	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.03702427362	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01500596086	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.0219626907	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.01921446856	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.007702913888	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	Adipocyte	0.007824445485	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Endothelial_Cell	Adipocyte	0.006833001716	0	0	MRT4	FN1 - (ITGAV+ITGB1)	FN1	ITGAV_ITGB1	FN1	ECM-Receptor
Fibroblast	MRT4	0.01552739769	0	0	MRT4	FN1 - (ITGAV+ITGB8)	FN1	ITGAV_ITGB8	FN1	ECM-Receptor
Endothelial_Cell	MRT4	0.01357325734	0	0	MRT4	FN1 - (ITGAV+ITGB8)	FN1	ITGAV_ITGB8	FN1	ECM-Receptor
Endothelial_Progenitor	MRT4	0.005422715023	0	0	MRT4	FN1 - (ITGAV+ITGB8)	FN1	ITGAV_ITGB8	FN1	ECM-Receptor
MRT4	MRT4	0.04675250554	0	0	MRT4	LAMA2 - (ITGAV+ITGB8)	LAMA2	ITGAV_ITGB8	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	MRT4	0.03180953967	0	0	MRT4	LAMA2 - (ITGAV+ITGB8)	LAMA2	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.003428213352	0	0	MRT4	LAMA3 - (ITGAV+ITGB8)	LAMA3	ITGAV_ITGB8	LAMININ	ECM-Receptor
Fibroblast	MRT4	0.0185417196	0	0	MRT4	LAMA4 - (ITGAV+ITGB8)	LAMA4	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Cell	MRT4	0.03669713609	0	0	MRT4	LAMA4 - (ITGAV+ITGB8)	LAMA4	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.0194125428	0	0	MRT4	LAMA4 - (ITGAV+ITGB8)	LAMA4	ITGAV_ITGB8	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.03636782339	0	0	MRT4	LAMA4 - (ITGAV+ITGB8)	LAMA4	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.003428213352	0	0	MRT4	LAMA5 - (ITGAV+ITGB8)	LAMA5	ITGAV_ITGB8	LAMININ	ECM-Receptor
Fibroblast	MRT4	0.005422715023	0	0	MRT4	LAMB1 - (ITGAV+ITGB8)	LAMB1	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Cell	MRT4	0.01747381093	0	0	MRT4	LAMB1 - (ITGAV+ITGB8)	LAMB1	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.02758409148	0	0	MRT4	LAMB1 - (ITGAV+ITGB8)	LAMB1	ITGAV_ITGB8	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.005422715023	0	0	MRT4	LAMB1 - (ITGAV+ITGB8)	LAMB1	ITGAV_ITGB8	LAMININ	ECM-Receptor
MRT4	MRT4	0.003428213352	0	0	MRT4	LAMB2 - (ITGAV+ITGB8)	LAMB2	ITGAV_ITGB8	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.003428213352	0	0	MRT4	LAMB2 - (ITGAV+ITGB8)	LAMB2	ITGAV_ITGB8	LAMININ	ECM-Receptor
Fibroblast	MRT4	0.01357325734	0	0	MRT4	LAMC1 - (ITGAV+ITGB8)	LAMC1	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Cell	MRT4	0.02184419154	0	0	MRT4	LAMC1 - (ITGAV+ITGB8)	LAMC1	ITGAV_ITGB8	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.01552739769	0	0	MRT4	LAMC1 - (ITGAV+ITGB8)	LAMC1	ITGAV_ITGB8	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.02184419154	0	0	MRT4	LAMC1 - (ITGAV+ITGB8)	LAMC1	ITGAV_ITGB8	LAMININ	ECM-Receptor
MRT4	MRT4	0.01218206128	0	0	MRT4	COL1A1 - (ITGAV+ITGB8)	COL1A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.04957317854	0	0	MRT4	COL1A1 - (ITGAV+ITGB8)	COL1A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
MRT4	MRT4	0.03772368768	0	0	MRT4	COL1A2 - (ITGAV+ITGB8)	COL1A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.05778690554	0	0	MRT4	COL1A2 - (ITGAV+ITGB8)	COL1A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Adipocyte	MRT4	0.03014737924	0	0	MRT4	COL1A2 - (ITGAV+ITGB8)	COL1A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.01464965723	0	0	MRT4	COL4A1 - (ITGAV+ITGB8)	COL4A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Endothelial_Cell	MRT4	0.02184419154	0	0	MRT4	COL4A1 - (ITGAV+ITGB8)	COL4A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	MRT4	0.03647786098	0	0	MRT4	COL4A1 - (ITGAV+ITGB8)	COL4A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Adipocyte	MRT4	0.03746725496	0	0	MRT4	COL4A1 - (ITGAV+ITGB8)	COL4A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.0194125428	0	0	MRT4	COL4A2 - (ITGAV+ITGB8)	COL4A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Endothelial_Cell	MRT4	0.02805955697	0	0	MRT4	COL4A2 - (ITGAV+ITGB8)	COL4A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	MRT4	0.03825271747	0	0	MRT4	COL4A2 - (ITGAV+ITGB8)	COL4A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Adipocyte	MRT4	0.03977278473	0	0	MRT4	COL4A2 - (ITGAV+ITGB8)	COL4A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Endothelial_Cell	MRT4	0.01464965723	0	0	MRT4	COL4A5 - (ITGAV+ITGB8)	COL4A5	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.0194125428	0	0	MRT4	COL6A1 - (ITGAV+ITGB8)	COL6A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Adipocyte	MRT4	0.003428213352	0	0	MRT4	COL6A1 - (ITGAV+ITGB8)	COL6A1	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.02678298237	0	0	MRT4	COL6A2 - (ITGAV+ITGB8)	COL6A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Endothelial_Cell	MRT4	0.003428213352	0	0	MRT4	COL6A2 - (ITGAV+ITGB8)	COL6A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Adipocyte	MRT4	0.003428213352	0.02	0.54	MRT4	COL6A2 - (ITGAV+ITGB8)	COL6A2	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Fibroblast	MRT4	0.03648284903	0	0	MRT4	COL6A3 - (ITGAV+ITGB8)	COL6A3	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
Adipocyte	MRT4	0.003428213352	0.01	0.405	MRT4	COL6A3 - (ITGAV+ITGB8)	COL6A3	ITGAV_ITGB8	COLLAGEN	ECM-Receptor
MRT4	Unknown	0.06232817746	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor
TAM	Unknown	0.007335254529	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.04262956877	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.00464059346	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Unknown	0.01379375793	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.02496506419	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor
Unknown	Unknown	0.01379375793	0	0	MRT4	LAMA2 - (ITGA6+ITGB4)	LAMA2	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.00464059346	0	0	MRT4	LAMA3 - (ITGA6+ITGB4)	LAMA3	ITGA6_ITGB4	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.02496506419	0	0	MRT4	LAMA4 - (ITGA6+ITGB4)	LAMA4	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.04909537969	0	0	MRT4	LAMA4 - (ITGA6+ITGB4)	LAMA4	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.02612953212	0	0	MRT4	LAMA4 - (ITGA6+ITGB4)	LAMA4	ITGA6_ITGB4	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.04866042781	0	0	MRT4	LAMA4 - (ITGA6+ITGB4)	LAMA4	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.00464059346	0	0	MRT4	LAMA5 - (ITGA6+ITGB4)	LAMA5	ITGA6_ITGB4	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.007335254529	0	0	MRT4	LAMB1 - (ITGA6+ITGB4)	LAMB1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.02353607528	0	0	MRT4	LAMB1 - (ITGA6+ITGB4)	LAMB1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.03702179171	0	0	MRT4	LAMB1 - (ITGA6+ITGB4)	LAMB1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.007335254529	0	0	MRT4	LAMB1 - (ITGA6+ITGB4)	LAMB1	ITGA6_ITGB4	LAMININ	ECM-Receptor
MRT4	Unknown	0.00464059346	0	0	MRT4	LAMB2 - (ITGA6+ITGB4)	LAMB2	ITGA6_ITGB4	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.00464059346	0	0	MRT4	LAMB2 - (ITGA6+ITGB4)	LAMB2	ITGA6_ITGB4	LAMININ	ECM-Receptor
MRT4	Unknown	0.00464059346	0	0	MRT4	LAMC1 - (ITGA6+ITGB4)	LAMC1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.01830750083	0	0	MRT4	LAMC1 - (ITGA6+ITGB4)	LAMC1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.02937735567	0	0	MRT4	LAMC1 - (ITGA6+ITGB4)	LAMC1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.0209287686	0	0	MRT4	LAMC1 - (ITGA6+ITGB4)	LAMC1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.02937735567	0	0	MRT4	LAMC1 - (ITGA6+ITGB4)	LAMC1	ITGA6_ITGB4	LAMININ	ECM-Receptor
Fibroblast	TAM	0.03926996174	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	TAM	0.03443230059	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	TAM	0.0139331297	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Fibroblast	0.04574604376	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04014393037	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01630176645	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Adipocyte	0.01387215979	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Adipocyte	0.0121237676	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.004839352531	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Fibroblast	Unknown	0.07930200529	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Cell	Unknown	0.06989156397	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
Endothelial_Progenitor	Unknown	0.02891398008	0	0	MRT4	FN1 - CD44	FN1	CD44	FN1	ECM-Receptor
MRT4	TAM	0.03097027329	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
TAM	TAM	0.02604845248	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1190775345	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.0139331297	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.03097027329	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.0139331297	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Unknown	TAM	0.0139331297	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
MRT4	Fibroblast	0.03612911016	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.03041317386	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1368402319	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Fibroblast	0.01630176645	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.03612911016	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.01630176645	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Unknown	Fibroblast	0.01630176645	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
MRT4	Adipocyte	0.01087949897	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
TAM	Adipocyte	0.009120469312	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.04445249928	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.004839352531	0.03	0.047647056	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.01087949897	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.004839352531	0.03	0.047647056	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Unknown	Adipocyte	0.004839352531	0.03	0.047647056	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
MRT4	Unknown	0.06309723414	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
TAM	Unknown	0.05335086686	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.2216925901	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Unknown	0.02891398008	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Unknown	0.06309723414	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.02891398008	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
Unknown	Unknown	0.02891398008	0	0	MRT4	COL1A1 - CD44	COL1A1	CD44	COLLAGEN	ECM-Receptor
MRT4	TAM	0.09222653565	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	TAM	0.03443230059	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.1371456024	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.03443230059	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.05679961727	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.07455209682	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Unknown	TAM	0.05470885122	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT4	Fibroblast	0.1064679758	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	Fibroblast	0.04014393037	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1571227785	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04014393037	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.06596804857	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.08632382047	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Unknown	Fibroblast	0.0635625403	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT4	Adipocyte	0.03378349811	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	Adipocyte	0.0121237676	0.03	0.045	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.05186408515	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.0121237676	0.03	0.045	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.02030413399	0.03	0.045	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.02697634092	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Unknown	Adipocyte	0.01952893412	0.03	0.045	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
MRT4	Unknown	0.1763344533	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
TAM	Unknown	0.06989156397	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.2508962648	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Unknown	0.06989156397	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Unknown	0.1126069804	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.1451181826	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Unknown	Unknown	0.1086987128	0	0	MRT4	COL1A2 - CD44	COL1A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.03710066914	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.05470885122	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.08934787682	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.0916348921	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.04323510834	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.0635625403	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.1031953327	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.1057956194	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.01308674362	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01952893412	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.03266337942	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.03355291553	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.07509417267	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Unknown	0.1086987128	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Unknown	0.1713260109	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.1753074471	0	0	MRT4	COL4A1 - CD44	COL4A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.04880130168	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.06960979457	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	TAM	0.09344567893	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.09693791291	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.05675635668	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.08066915662	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.1078530098	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.1118172604	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.01735044331	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.02510244125	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.03425923869	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.03562649356	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.09756295326	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Unknown	0.136186233	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Progenitor	Unknown	0.1784468615	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.1844693462	0	0	MRT4	COL4A2 - CD44	COL4A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.03710066914	0	0	MRT4	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.04323510834	0	0	MRT4	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01308674362	0	0	MRT4	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Unknown	0.07509417267	0	0	MRT4	COL4A5 - CD44	COL4A5	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.04880130168	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.008836264842	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Fibroblast	0.05675635668	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.01034752534	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.01735044331	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.003058754622	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.09756295326	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.01843946318	0	0	MRT4	COL6A1 - CD44	COL6A1	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.06657236161	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	TAM	0.008836264842	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.008836264842	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.07718918353	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01034752534	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.01034752534	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.02395708507	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Adipocyte	0.003058754622	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.003058754622	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.1306516778	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Endothelial_Cell	Unknown	0.01843946318	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.01843946318	0	0	MRT4	COL6A2 - CD44	COL6A2	CD44	COLLAGEN	ECM-Receptor
Fibroblast	TAM	0.08935942394	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Adipocyte	TAM	0.008836264842	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Fibroblast	0.1032084666	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Fibroblast	0.01034752534	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Adipocyte	0.03266786356	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Adipocyte	0.003058754622	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Fibroblast	Unknown	0.1713461592	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
Adipocyte	Unknown	0.01843946318	0	0	MRT4	COL6A3 - CD44	COL6A3	CD44	COLLAGEN	ECM-Receptor
MRT4	TAM	0.1127713644	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
TAM	TAM	0.0139331297	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.0784644184	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.008836264842	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.02604845248	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Adipocyte	TAM	0.04667488603	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Unknown	TAM	0.02604845248	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.1297319087	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
TAM	Fibroblast	0.01630176645	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.09079328875	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.01034752534	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.03041317386	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.05430310449	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Unknown	Fibroblast	0.03041317386	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.0419103407	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.02846879977	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	Adipocyte	0.009120469312	0.03	0.059268292	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.01657056022	0.03	0.059268292	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Unknown	Adipocyte	0.009120469312	0.03	0.059268292	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
MRT4	Unknown	0.2112552956	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
TAM	Unknown	0.02891398008	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.1521249269	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.01843946318	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.05335086686	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.09352074646	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Unknown	Unknown	0.05335086686	0	0	MRT4	LAMA2 - CD44	LAMA2	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.008836264842	0	0	MRT4	LAMA3 - CD44	LAMA3	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01034752534	0	0	MRT4	LAMA3 - CD44	LAMA3	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.003058754622	0	0	MRT4	LAMA3 - CD44	LAMA3	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.01843946318	0	0	MRT4	LAMA3 - CD44	LAMA3	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.04667488603	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.08985532512	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.04880130168	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Adipocyte	TAM	0.08909310074	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.05430310449	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.1037724651	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.05675635668	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.1029055325	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.01657056022	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.03286050699	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.01735044331	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.03256445954	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.09352074646	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.1722110044	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.09756295326	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.1708813383	0	0	MRT4	LAMA4 - CD44	LAMA4	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.008836264842	0	0	MRT4	LAMA5 - CD44	LAMA5	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.01034752534	0	0	MRT4	LAMA5 - CD44	LAMA5	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.003058754622	0	0	MRT4	LAMA5 - CD44	LAMA5	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.01843946318	0	0	MRT4	LAMA5 - CD44	LAMA5	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.0139331297	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.04405938951	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.06847987188	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Adipocyte	TAM	0.0139331297	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.01630176645	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.05128314413	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.07937503111	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.01630176645	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Adipocyte	0.004839352531	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01561437413	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.02467581155	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.004839352531	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.02891398008	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.08852393225	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.1341314247	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.02891398008	0	0	MRT4	LAMB1 - CD44	LAMB1	CD44	LAMININ	ECM-Receptor
MRT4	TAM	0.008836264842	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Adipocyte	TAM	0.008836264842	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.01034752534	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.01034752534	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.003058754622	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.003058754622	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT4	Unknown	0.01843946318	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.01843946318	0	0	MRT4	LAMB2 - CD44	LAMB2	CD44	LAMININ	ECM-Receptor
MRT4	TAM	0.008836264842	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.03443230059	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	TAM	0.05470885122	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	TAM	0.03926996174	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Adipocyte	TAM	0.05470885122	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT4	Fibroblast	0.01034752534	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	Fibroblast	0.04014393037	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Fibroblast	0.0635625403	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.04574604376	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Adipocyte	Fibroblast	0.0635625403	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT4	Adipocyte	0.003058754622	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	Adipocyte	0.0121237676	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Adipocyte	0.01952893412	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.01387215979	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Adipocyte	Adipocyte	0.01952893412	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
MRT4	Unknown	0.01843946318	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	Unknown	0.06989156397	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Cell	Unknown	0.1086987128	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Endothelial_Progenitor	Unknown	0.07930200529	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Adipocyte	Unknown	0.1086987128	0	0	MRT4	LAMC1 - CD44	LAMC1	CD44	LAMININ	ECM-Receptor
Fibroblast	TAM	0.0170354865	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Cell	TAM	0.003765671365	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	TAM	0.003765671365	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.08058362044	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.01875750619	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.01875750619	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Endothelial_Progenitor	0.009458045632	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Cell	Endothelial_Progenitor	0.002078209129	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Progenitor	0.002078209129	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	Adipocyte	0.08714044559	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Cell	Adipocyte	0.02039533612	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Endothelial_Progenitor	Adipocyte	0.02039533612	0	0	MRT4	THBS1 - CD36	THBS1	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.01336964888	0	0	MRT4	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.06413520379	0	0	MRT4	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.007410491947	0	0	MRT4	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	Adipocyte	0.06945477742	0	0	MRT4	THBS2 - CD36	THBS2	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.003765671365	0	0	MRT4	COMP - CD36	COMP	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01875750619	0	0	MRT4	COMP - CD36	COMP	CD36	THBS	ECM-Receptor
Fibroblast	Endothelial_Progenitor	0.002078209129	0	0	MRT4	COMP - CD36	COMP	CD36	THBS	ECM-Receptor
Fibroblast	Adipocyte	0.02039533612	0	0	MRT4	COMP - CD36	COMP	CD36	THBS	ECM-Receptor
Fibroblast	TAM	0.02899731469	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Cell	TAM	0.006471158565	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	TAM	0.006471158565	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	Fibroblast	0.008261330201	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Cell	Fibroblast	0.001813546173	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.02438114916	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Cell	Endothelial_Cell	0.005420976139	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Endothelial_Progenitor	Endothelial_Cell	0.005420976139	0	0	MRT4	THBS1 - CD47	THBS1	CD47	THBS	ECM-Receptor
Fibroblast	TAM	0.02281718177	0	0	MRT4	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	Fibroblast	0.006471158565	0	0	MRT4	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.01916543061	0	0	MRT4	THBS2 - CD47	THBS2	CD47	THBS	ECM-Receptor
Fibroblast	TAM	0.006471158565	0	0	MRT4	COMP - CD47	COMP	CD47	THBS	ECM-Receptor
Fibroblast	Fibroblast	0.001813546173	0	0	MRT4	COMP - CD47	COMP	CD47	THBS	ECM-Receptor
Fibroblast	Endothelial_Cell	0.005420976139	0	0	MRT4	COMP - CD47	COMP	CD47	THBS	ECM-Receptor
Fibroblast	MRT4	0.006471158565	0	0	MRT4	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor
Endothelial_Cell	MRT4	0.006471158565	0.01	0.2025	MRT4	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor
Endothelial_Progenitor	MRT4	0.01860898573	0	0	MRT4	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor
Adipocyte	MRT4	0.006471158565	0	0	MRT4	HSPG2 - DAG1	HSPG2	DAG1	HSPG	ECM-Receptor
MRT4	MRT4	0.02524936362	0	0	MRT4	LAMA2 - DAG1	LAMA2	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.001813546173	0	0	MRT4	LAMA3 - DAG1	LAMA3	DAG1	LAMININ	ECM-Receptor
Fibroblast	MRT4	0.009879250982	0	0	MRT4	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT4	0.01972312691	0	0	MRT4	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.01034752534	0	0	MRT4	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.01954304532	0	0	MRT4	LAMA4 - DAG1	LAMA4	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.001813546173	0	0	MRT4	LAMA5 - DAG1	LAMA5	DAG1	LAMININ	ECM-Receptor
Fibroblast	MRT4	0.002871356581	0	0	MRT4	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT4	0.009305526044	0	0	MRT4	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Progenitor	MRT4	0.01476066966	0	0	MRT4	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.002871356581	0	0	MRT4	LAMB1 - DAG1	LAMB1	DAG1	LAMININ	ECM-Receptor
Fibroblast	MRT4	0.007214930863	0	0	MRT4	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
Endothelial_Cell	MRT4	0.01165717305	0	0	MRT4	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
Endothelial_Progenitor	MRT4	0.008261330201	0	0	MRT4	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
Adipocyte	MRT4	0.01165717305	0	0	MRT4	LAMC1 - DAG1	LAMC1	DAG1	LAMININ	ECM-Receptor
TAM	Fibroblast	0.001813546173	0	0	MRT4	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
TAM	Endothelial_Cell	0.001813546173	0	0	MRT4	ADGRE5 - CD55	ADGRE5	CD55	ADGRE5	Cell-Cell Contact
MRT4	TAM	0.04360505847	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	TAM	0.01255817424	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Fibroblast	TAM	0.04360505847	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Cell	TAM	0.1234526542	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.09032446978	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Adipocyte	TAM	0.01255817424	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Unknown	TAM	0.1050421671	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
MRT4	Endothelial_Progenitor	0.006471158565	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.001813546173	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.006471158565	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.01972312691	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.01398633106	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.001813546173	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Unknown	Endothelial_Progenitor	0.0164907911	0	0	MRT4	APP - CD74	APP	CD74	APP	Cell-Cell Contact
Unknown	Unknown	0.004543361314	0	0	MRT4	CADM1 - CADM1	CADM1	CADM1	CADM	Cell-Cell Contact
TAM	TAM	0.08442815387	0	0	MRT4	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
TAM	Endothelial_Cell	0.05604614804	0	0	MRT4	PTPRC - MRC1	PTPRC	MRC1	CD45	Cell-Cell Contact
MRT4	Fibroblast	0.001813546173	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	Fibroblast	0.001813546173	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Fibroblast	Fibroblast	0.001813546173	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.001813546173	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Adipocyte	Fibroblast	0.006657206098	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Unknown	Fibroblast	0.007214930863	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
MRT4	Adipocyte	0.0004540040614	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	Adipocyte	0.0004540040614	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Fibroblast	Adipocyte	0.0004540040614	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Cell	Adipocyte	0.0004540040614	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.0004540040614	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Adipocyte	Adipocyte	0.001672652921	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
Unknown	Adipocyte	0.001813546173	0	0	MRT4	CD46 - JAG1	CD46	JAG1	CD46	Cell-Cell Contact
TAM	TAM	0.001813546173	0	0	MRT4	CD86 - CD28	CD86	CD28	CD86	Cell-Cell Contact
MRT4	MRT4	0.001813546173	0	0	MRT4	CDH4 - CDH4	CDH4	CDH4	CDH	Cell-Cell Contact
Unknown	Unknown	0.001813546173	0	0	MRT4	CDH1 - CDH1	CDH1	CDH1	CDH	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Unknown	Endothelial_Progenitor	0.003875239737	0	0	MRT4	CDH1 - (ITGA1+ITGB1)	CDH1	ITGA2_ITGB1	CDH1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.001813546173	0	0	MRT4	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.002871356581	0	0	MRT4	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.002871356581	0	0	MRT4	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.004543361314	0	0	MRT4	CDH5 - CDH5	CDH5	CDH5	CDH5	Cell-Cell Contact
Unknown	Unknown	0.001813546173	0	0	MRT4	DSC2 - DSG2	DSC2	DSG2	DESMOSOME	Cell-Cell Contact
MRT4	MRT4	0.1815325944	0	0	MRT4	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT4	0.2023751548	0	0	MRT4	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
Adipocyte	MRT4	0.1980003351	0	0	MRT4	EFNA5 - EPHA3	EFNA5	EPHA3	EPHA	Cell-Cell Contact
MRT4	Endothelial_Progenitor	0.03043299724	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.002871356581	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.01138733503	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.03466184432	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.00856488407	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.0337590977	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
Unknown	Endothelial_Progenitor	0.01138733503	0	0	MRT4	EFNA5 - EPHA4	EFNA5	EPHA4	EPHA	Cell-Cell Contact
MRT4	MRT4	0.1545238089	0	0	MRT4	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT4	0.1729205301	0	0	MRT4	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
Adipocyte	MRT4	0.169047494	0	0	MRT4	EFNA5 - EPHA5	EFNA5	EPHA5	EPHA	Cell-Cell Contact
MRT4	MRT4	0.1339104928	0	0	MRT4	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Endothelial_Cell	MRT4	0.1502893446	0	0	MRT4	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
Adipocyte	MRT4	0.1468332079	0	0	MRT4	EFNA5 - EPHA7	EFNA5	EPHA7	EPHA	Cell-Cell Contact
MRT4	Fibroblast	0.01941919821	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
TAM	Fibroblast	0.001813546173	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Fibroblast	Fibroblast	0.007214930863	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.02215257921	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.005420976139	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Adipocyte	Fibroblast	0.02156834958	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Unknown	Fibroblast	0.007214930863	0	0	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
MRT4	Adipocyte	0.004926551817	0.02	0.135	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
TAM	Adipocyte	0.0004540040614	0.04	0.18	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Fibroblast	Adipocyte	0.001813546173	0.04	0.18	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Cell	Adipocyte	0.00563171252	0.02	0.135	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.001360776588	0.04	0.18	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Adipocyte	Adipocyte	0.005480745369	0.02	0.135	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Unknown	Adipocyte	0.001813546173	0.04	0.18	MRT4	EFNA5 - EPHB2	EFNA5	EPHB2	EPHA	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.002871356581	0	0	MRT4	EFNB2 - EPHA4	EFNB2	EPHA4	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.002871356581	0	0	MRT4	EFNB2 - EPHA4	EFNB2	EPHA4	EPHB	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.01359334616	0	0	MRT4	EFNB2 - EPHB1	EFNB2	EPHB1	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.01359334616	0	0	MRT4	EFNB2 - EPHB1	EFNB2	EPHB1	EPHB	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.001813546173	0	0	MRT4	EFNB2 - EPHB1	EFNB2	EPHB1	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	0	0	MRT4	EFNB2 - EPHB1	EFNB2	EPHB1	EPHB	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Endothelial_Cell	Fibroblast	0.001813546173	0	0	MRT4	EFNB2 - EPHB2	EFNB2	EPHB2	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	EFNB2 - EPHB2	EFNB2	EPHB2	EPHB	Cell-Cell Contact
Endothelial_Cell	Adipocyte	0.0004540040614	0	0	MRT4	EFNB2 - EPHB2	EFNB2	EPHB2	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.0004540040614	0	0	MRT4	EFNB2 - EPHB2	EFNB2	EPHB2	EPHB	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.005420976139	0	0	MRT4	EFNB2 - EPHB4	EFNB2	EPHB4	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.005420976139	0	0	MRT4	EFNB2 - EPHB4	EFNB2	EPHB4	EPHB	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.001813546173	0	0	MRT4	EFNB2 - EPHB4	EFNB2	EPHB4	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	0	0	MRT4	EFNB2 - EPHB4	EFNB2	EPHB4	EPHB	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	0	0	MRT4	ESAM - ESAM	ESAM	ESAM	ESAM	Cell-Cell Contact
TAM	TAM	0.001813546173	0	0	MRT4	ICAM1 - (ITGAM+ITGB2)	ICAM1	ITGAM_ITGB2	ICAM	Cell-Cell Contact
TAM	TAM	0.001813546173	0	0	MRT4	ITGB2 - ICAM1	ITGB2	ICAM1	ITGB2	Cell-Cell Contact
Endothelial_Progenitor	MRT4	0.003620526355	0	0	MRT4	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.005500358651	0	0	MRT4	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.007214930863	0	0	MRT4	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.009520433764	0	0	MRT4	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.004873853519	0	0	MRT4	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.001717049883	0	0	MRT4	JAM2 - (ITGAV+ITGB1)	JAM2	ITGAV_ITGB1	JAM	Cell-Cell Contact
MRT4	TAM	0.001813546173	0	0	MRT4	JAM3 - (ITGAM+ITGB2)	JAM3	ITGAM_ITGB2	JAM	Cell-Cell Contact
Fibroblast	TAM	0.001813546173	0	0	MRT4	JAM3 - (ITGAM+ITGB2)	JAM3	ITGAM_ITGB2	JAM	Cell-Cell Contact
Adipocyte	TAM	0.001813546173	0	0	MRT4	JAM3 - (ITGAM+ITGB2)	JAM3	ITGAM_ITGB2	JAM	Cell-Cell Contact
Endothelial_Progenitor	MRT4	0.001813546173	0	0	MRT4	JAM2 - JAM3	JAM2	JAM3	JAM	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.001813546173	0	0	MRT4	JAM2 - JAM3	JAM2	JAM3	JAM	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.001813546173	0	0	MRT4	JAM2 - JAM3	JAM2	JAM3	JAM	Cell-Cell Contact
Adipocyte	Adipocyte	0.0001135396759	0	0	MRT4	F11R - F11R	F11R	F11R	JAM	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.0004540040614	0	0	MRT4	F11R - JAM2	F11R	JAM2	JAM	Cell-Cell Contact
Adipocyte	MRT4	0.0004540040614	0	0	MRT4	F11R - JAM3	F11R	JAM3	JAM	Cell-Cell Contact
Adipocyte	Fibroblast	0.0004540040614	0	0	MRT4	F11R - JAM3	F11R	JAM3	JAM	Cell-Cell Contact
Adipocyte	Adipocyte	0.0004540040614	0	0	MRT4	F11R - JAM3	F11R	JAM3	JAM	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.0004540040614	0	0	MRT4	JAM2 - F11R	JAM2	F11R	JAM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	0	0	MRT4	JAM2 - JAM2	JAM2	JAM2	JAM	Cell-Cell Contact
MRT4	Adipocyte	0.0004540040614	0	0	MRT4	JAM3 - F11R	JAM3	F11R	JAM	Cell-Cell Contact
Fibroblast	Adipocyte	0.0004540040614	0	0	MRT4	JAM3 - F11R	JAM3	F11R	JAM	Cell-Cell Contact
Adipocyte	Adipocyte	0.0004540040614	0	0	MRT4	JAM3 - F11R	JAM3	F11R	JAM	Cell-Cell Contact
MRT4	Endothelial_Progenitor	0.001813546173	0	0	MRT4	JAM3 - JAM2	JAM3	JAM2	JAM	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.001813546173	0	0	MRT4	JAM3 - JAM2	JAM3	JAM2	JAM	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.001813546173	0	0	MRT4	JAM3 - JAM2	JAM3	JAM2	JAM	Cell-Cell Contact
TAM	TAM	0.002078209129	0	0	MRT4	HLA-DPA1 - CD4	HLA-DPA1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002078209129	0	0	MRT4	HLA-DPB1 - CD4	HLA-DPB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002078209129	0	0	MRT4	HLA-DMA - CD4	HLA-DMA	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.0005203633502	0	0	MRT4	HLA-DMB - CD4	HLA-DMB	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.002078209129	0	0	MRT4	HLA-DQB1 - CD4	HLA-DQB1	CD4	MHC-II	Cell-Cell Contact
TAM	TAM	0.003289884111	0	0	MRT4	HLA-DRA - CD4	HLA-DRA	CD4	MHC-II	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
TAM	TAM	0.008261330201	0	0	MRT4	HLA-DRB1 - CD4	HLA-DRB1	CD4	MHC-II	Cell-Cell Contact
Fibroblast	TAM	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Unknown	TAM	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
TAM	Fibroblast	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Fibroblast	0.02281718177	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Adipocyte	Fibroblast	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Unknown	Fibroblast	0.02539169324	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Unknown	Endothelial_Cell	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Unknown	Endothelial_Progenitor	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Adipocyte	0.006471158565	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Unknown	Adipocyte	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
TAM	Unknown	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Fibroblast	Unknown	0.02539169324	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Endothelial_Cell	Unknown	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Endothelial_Progenitor	Unknown	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Adipocyte	Unknown	0.007214930863	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Unknown	Unknown	0.02824829497	0	0	MRT4	MPZL1 - MPZL1	MPZL1	MPZL1	MPZ	Cell-Cell Contact
Endothelial_Cell	MRT4	0.006471158565	0	0	MRT4	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	TAM	0.006471158565	0	0	MRT4	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.006471158565	0	0	MRT4	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.006471158565	0	0	MRT4	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.01021786511	0	0	MRT4	NECTIN3 - NECTIN2	NECTIN3	NECTIN2	NECTIN	Cell-Cell Contact
Fibroblast	Fibroblast	0.007214930863	0	0	MRT4	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.003620526355	0	0	MRT4	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.003620526355	0	0	MRT4	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.001813546173	0	0	MRT4	NEGR1 - NEGR1	NEGR1	NEGR1	NEGR	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.006471158565	0	0	MRT4	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Adipocyte	Endothelial_Cell	0.001625679664	0	0	MRT4	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.001813546173	0	0	MRT4	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.0004540040614	0	0	MRT4	JAG1 - NOTCH1	JAG1	NOTCH1	NOTCH	Cell-Cell Contact
Fibroblast	MRT4	0.005420976139	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Adipocyte	MRT4	0.001360776588	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	TAM	0.001813546173	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Adipocyte	TAM	0.0004540040614	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Fibroblast	0.001813546173	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Adipocyte	Fibroblast	0.0004540040614	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Adipocyte	0.004674512421	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Adipocyte	Adipocyte	0.001172739595	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Unknown	0.002871356581	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Adipocyte	Unknown	0.0007193883606	0	0	MRT4	JAG1 - NOTCH2	JAG1	NOTCH2	NOTCH	Cell-Cell Contact
Fibroblast	Fibroblast	0.001813546173	0	0	MRT4	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact
Adipocyte	Fibroblast	0.0004540040614	0	0	MRT4	JAG1 - NOTCH3	JAG1	NOTCH3	NOTCH	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.001813546173	0	0	MRT4	JAG1 - NOTCH4	JAG1	NOTCH4	NOTCH	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.0004540040614	0	0	MRT4	JAG1 - NOTCH4	JAG1	NOTCH4	NOTCH	Cell-Cell Contact
Endothelial_Cell	MRT4	0.03862281725	0	0	MRT4	NRXN3 - NLGN1	NRXN3	NLGN1	NRXN	Cell-Cell Contact
Endothelial_Cell	TAM	0.002871356581	0	0	MRT4	NRXN3 - NLGN1	NRXN3	NLGN1	NRXN	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.01229254497	0	0	MRT4	NRXN3 - NLGN1	NRXN3	NLGN1	NRXN	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.00856488407	0	0	MRT4	NRXN3 - NLGN1	NRXN3	NLGN1	NRXN	Cell-Cell Contact
Endothelial_Cell	Adipocyte	0.01303092574	0	0	MRT4	NRXN3 - NLGN1	NRXN3	NLGN1	NRXN	Cell-Cell Contact
Endothelial_Cell	Unknown	0.00856488407	0	0	MRT4	NRXN3 - NLGN1	NRXN3	NLGN1	NRXN	Cell-Cell Contact
TAM	TAM	0.004543361314	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	TAM	0.01835104621	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.03053186346	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	Endothelial_Cell	0.01835104621	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.07112337347	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.1142556895	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.03053186346	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.1142556895	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.178518221	0	0	MRT4	PECAM1 - PECAM1	PECAM1	PECAM1	PECAM1	Cell-Cell Contact
TAM	TAM	0.02824829497	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	TAM	0.05224291651	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	TAM	0.06823491876	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	TAM	0.08624560843	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Adipocyte	TAM	0.04291483116	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Fibroblast	0.05224291651	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Fibroblast	0.09463415886	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.1219330224	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.1518081403	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Adipocyte	Fibroblast	0.07836285302	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Endothelial_Cell	0.06823491876	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Endothelial_Cell	0.1219330224	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.1557519928	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.1921003846	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Adipocyte	Endothelial_Cell	0.1014941584	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Endothelial_Progenitor	0.08624560843	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Fibroblast	Endothelial_Progenitor	0.1518081403	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.1921003846	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.2345745931	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Adipocyte	Endothelial_Progenitor	0.127086295	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
TAM	Adipocyte	0.04291483116	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact

Source	Target	Probability	pVal	Adj_pVal	Sample	LR	Ligand	Receptor	Pathway	annotation
Fibroblast	Adipocyte	0.07836285302	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Adipocyte	0.1014941584	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.127086295	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Adipocyte	Adipocyte	0.0646893232	0	0	MRT4	PTPRM - PTPRM	PTPRM	PTPRM	PTPRM	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.05182869484	0	0	MRT4	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.01021786511	0	0	MRT4	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	Endothelial_Progenitor	0.0532488926	0	0	MRT4	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Progenitor	0.0105104919	0	0	MRT4	SEMA6A - PLXNA2	SEMA6A	PLXNA2	SEMA6	Cell-Cell Contact
Endothelial_Cell	Fibroblast	0.02959258802	0	0	MRT4	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Fibroblast	0.005726270996	0	0	MRT4	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Cell	Endothelial_Cell	0.05748407353	0	0	MRT4	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Endothelial_Cell	0.01138733503	0	0	MRT4	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Cell	Adipocyte	0.1383015293	0	0	MRT4	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Endothelial_Progenitor	Adipocyte	0.02941983034	0	0	MRT4	SEMA6A - PLXNA4	SEMA6A	PLXNA4	SEMA6	Cell-Cell Contact
Fibroblast	TAM	0.001813546173	0	0	MRT4	THY1 - (ITGAM+ITGB2)	THY1	ITGAM_ITGB2	THY1	Cell-Cell Contact

Source	Target	Probability	Sample	Pathway
G401	G401	0	MRT1	APP
MRT1	G401	0	MRT1	APP
TAM	G401	0	MRT1	APP
Monocyte	G401	0	MRT1	APP
T_NK	G401	0	MRT1	APP
Fibroblast	G401	0	MRT1	APP
Endothelial_Progenitor	G401	0	MRT1	APP
Unknown	G401	0	MRT1	APP
G401	MRT1	0	MRT1	APP
MRT1	MRT1	0	MRT1	APP
TAM	MRT1	0	MRT1	APP
Monocyte	MRT1	0	MRT1	APP
T_NK	MRT1	0	MRT1	APP
Fibroblast	MRT1	0	MRT1	APP
Endothelial_Progenitor	MRT1	0	MRT1	APP
Unknown	MRT1	0	MRT1	APP
G401	TAM	0	MRT1	APP
MRT1	TAM	0.1509702435	MRT1	APP
TAM	TAM	0.08941396676	MRT1	APP
Monocyte	TAM	0	MRT1	APP
T_NK	TAM	0.0987434272	MRT1	APP
Fibroblast	TAM	0	MRT1	APP
Endothelial_Progenitor	TAM	0	MRT1	APP
Unknown	TAM	0	MRT1	APP
G401	Monocyte	0	MRT1	APP
MRT1	Monocyte	0	MRT1	APP
TAM	Monocyte	0	MRT1	APP
Monocyte	Monocyte	0	MRT1	APP
T_NK	Monocyte	0	MRT1	APP
Fibroblast	Monocyte	0	MRT1	APP
Endothelial_Progenitor	Monocyte	0	MRT1	APP

Source	Target	Probability	Sample	Pathway
Unknown	Monocyte	0	MRT1	APP
G401	T_NK	0	MRT1	APP
MRT1	T_NK	0.02720723796	MRT1	APP
TAM	T_NK	0.01520980941	MRT1	APP
Monocyte	T_NK	0	MRT1	APP
T_NK	T_NK	0.01694084558	MRT1	APP
Fibroblast	T_NK	0	MRT1	APP
Endothelial_Progenitor	T_NK	0	MRT1	APP
Unknown	T_NK	0	MRT1	APP
G401	Fibroblast	0	MRT1	APP
MRT1	Fibroblast	0	MRT1	APP
TAM	Fibroblast	0	MRT1	APP
Monocyte	Fibroblast	0	MRT1	APP
T_NK	Fibroblast	0	MRT1	APP
Fibroblast	Fibroblast	0	MRT1	APP
Endothelial_Progenitor	Fibroblast	0	MRT1	APP
Unknown	Fibroblast	0	MRT1	APP
G401	Endothelial_Progenitor	0	MRT1	APP
MRT1	Endothelial_Progenitor	0	MRT1	APP
TAM	Endothelial_Progenitor	0	MRT1	APP
Monocyte	Endothelial_Progenitor	0	MRT1	APP
T_NK	Endothelial_Progenitor	0	MRT1	APP
Fibroblast	Endothelial_Progenitor	0	MRT1	APP
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	APP
Unknown	Endothelial_Progenitor	0	MRT1	APP
G401	Unknown	0	MRT1	APP
MRT1	Unknown	0	MRT1	APP
TAM	Unknown	0	MRT1	APP
Monocyte	Unknown	0	MRT1	APP
T_NK	Unknown	0	MRT1	APP

Source	Target	Probability	Sample	Pathway
Fibroblast	Unknown	0	MRT1	APP
Endothelial_Progenitor	Unknown	0	MRT1	APP
Unknown	Unknown	0	MRT1	APP
G401	G401	0	MRT1	COLLAGEN
MRT1	G401	0	MRT1	COLLAGEN
TAM	G401	0	MRT1	COLLAGEN
Monocyte	G401	0	MRT1	COLLAGEN
T_NK	G401	0	MRT1	COLLAGEN
Fibroblast	G401	0	MRT1	COLLAGEN
Endothelial_Progenitor	G401	0	MRT1	COLLAGEN
Unknown	G401	0	MRT1	COLLAGEN
G401	MRT1	0	MRT1	COLLAGEN
MRT1	MRT1	0	MRT1	COLLAGEN
TAM	MRT1	0	MRT1	COLLAGEN
Monocyte	MRT1	0	MRT1	COLLAGEN
T_NK	MRT1	0	MRT1	COLLAGEN
Fibroblast	MRT1	0	MRT1	COLLAGEN
Endothelial_Progenitor	MRT1	0	MRT1	COLLAGEN
Unknown	MRT1	0	MRT1	COLLAGEN
G401	TAM	0	MRT1	COLLAGEN
MRT1	TAM	0.1059206735	MRT1	COLLAGEN
TAM	TAM	0.02339291971	MRT1	COLLAGEN
Monocyte	TAM	0	MRT1	COLLAGEN
T_NK	TAM	0.03465555444	MRT1	COLLAGEN
Fibroblast	TAM	0	MRT1	COLLAGEN
Endothelial_Progenitor	TAM	0	MRT1	COLLAGEN
Unknown	TAM	0	MRT1	COLLAGEN
G401	Monocyte	0	MRT1	COLLAGEN
MRT1	Monocyte	0	MRT1	COLLAGEN
TAM	Monocyte	0	MRT1	COLLAGEN

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT1	COLLAGEN
T_NK	Monocyte	0	MRT1	COLLAGEN
Fibroblast	Monocyte	0	MRT1	COLLAGEN
Endothelial_Progenitor	Monocyte	0	MRT1	COLLAGEN
Unknown	Monocyte	0	MRT1	COLLAGEN
G401	T_NK	0	MRT1	COLLAGEN
MRT1	T_NK	0.02472258957	MRT1	COLLAGEN
TAM	T_NK	0.005421601098	MRT1	COLLAGEN
Monocyte	T_NK	0	MRT1	COLLAGEN
T_NK	T_NK	0.008088548762	MRT1	COLLAGEN
Fibroblast	T_NK	0	MRT1	COLLAGEN
Endothelial_Progenitor	T_NK	0	MRT1	COLLAGEN
Unknown	T_NK	0	MRT1	COLLAGEN
G401	Fibroblast	0	MRT1	COLLAGEN
MRT1	Fibroblast	0	MRT1	COLLAGEN
TAM	Fibroblast	0	MRT1	COLLAGEN
Monocyte	Fibroblast	0	MRT1	COLLAGEN
T_NK	Fibroblast	0	MRT1	COLLAGEN
Fibroblast	Fibroblast	0	MRT1	COLLAGEN
Endothelial_Progenitor	Fibroblast	0	MRT1	COLLAGEN
Unknown	Fibroblast	0	MRT1	COLLAGEN
G401	Endothelial_Progenitor	0	MRT1	COLLAGEN
MRT1	Endothelial_Progenitor	0	MRT1	COLLAGEN
TAM	Endothelial_Progenitor	0	MRT1	COLLAGEN
Monocyte	Endothelial_Progenitor	0	MRT1	COLLAGEN
T_NK	Endothelial_Progenitor	0	MRT1	COLLAGEN
Fibroblast	Endothelial_Progenitor	0	MRT1	COLLAGEN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	COLLAGEN
Unknown	Endothelial_Progenitor	0	MRT1	COLLAGEN
G401	Unknown	0	MRT1	COLLAGEN

Source	Target	Probability	Sample	Pathway
MRT1	Unknown	0	MRT1	COLLAGEN
TAM	Unknown	0	MRT1	COLLAGEN
Monocyte	Unknown	0	MRT1	COLLAGEN
T_NK	Unknown	0	MRT1	COLLAGEN
Fibroblast	Unknown	0	MRT1	COLLAGEN
Endothelial_Progenitor	Unknown	0	MRT1	COLLAGEN
Unknown	Unknown	0	MRT1	COLLAGEN
G401	G401	0	MRT1	CD45
MRT1	G401	0	MRT1	CD45
TAM	G401	0	MRT1	CD45
Monocyte	G401	0	MRT1	CD45
T_NK	G401	0	MRT1	CD45
Fibroblast	G401	0	MRT1	CD45
Endothelial_Progenitor	G401	0	MRT1	CD45
Unknown	G401	0	MRT1	CD45
G401	MRT1	0	MRT1	CD45
MRT1	MRT1	0	MRT1	CD45
TAM	MRT1	0	MRT1	CD45
Monocyte	MRT1	0	MRT1	CD45
T_NK	MRT1	0	MRT1	CD45
Fibroblast	MRT1	0	MRT1	CD45
Endothelial_Progenitor	MRT1	0	MRT1	CD45
Unknown	MRT1	0	MRT1	CD45
G401	TAM	0	MRT1	CD45
MRT1	TAM	0	MRT1	CD45
TAM	TAM	0.07978645997	MRT1	CD45
Monocyte	TAM	0	MRT1	CD45
T_NK	TAM	0.1148014796	MRT1	CD45
Fibroblast	TAM	0	MRT1	CD45
Endothelial_Progenitor	TAM	0	MRT1	CD45

Source	Target	Probability	Sample	Pathway
Unknown	TAM	0	MRT1	CD45
G401	Monocyte	0	MRT1	CD45
MRT1	Monocyte	0	MRT1	CD45
TAM	Monocyte	0	MRT1	CD45
Monocyte	Monocyte	0	MRT1	CD45
T_NK	Monocyte	0	MRT1	CD45
Fibroblast	Monocyte	0	MRT1	CD45
Endothelial_Progenitor	Monocyte	0	MRT1	CD45
Unknown	Monocyte	0	MRT1	CD45
G401	T_NK	0	MRT1	CD45
MRT1	T_NK	0	MRT1	CD45
TAM	T_NK	0	MRT1	CD45
Monocyte	T_NK	0	MRT1	CD45
T_NK	T_NK	0	MRT1	CD45
Fibroblast	T_NK	0	MRT1	CD45
Endothelial_Progenitor	T_NK	0	MRT1	CD45
Unknown	T_NK	0	MRT1	CD45
G401	Fibroblast	0	MRT1	CD45
MRT1	Fibroblast	0	MRT1	CD45
TAM	Fibroblast	0	MRT1	CD45
Monocyte	Fibroblast	0	MRT1	CD45
T_NK	Fibroblast	0	MRT1	CD45
Fibroblast	Fibroblast	0	MRT1	CD45
Endothelial_Progenitor	Fibroblast	0	MRT1	CD45
Unknown	Fibroblast	0	MRT1	CD45
G401	Endothelial_Progenitor	0	MRT1	CD45
MRT1	Endothelial_Progenitor	0	MRT1	CD45
TAM	Endothelial_Progenitor	0	MRT1	CD45
Monocyte	Endothelial_Progenitor	0	MRT1	CD45
T_NK	Endothelial_Progenitor	0	MRT1	CD45

Source	Target	Probability	Sample	Pathway
Fibroblast	Endothelial_Progenitor	0	MRT1	CD45
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	CD45
Unknown	Endothelial_Progenitor	0	MRT1	CD45
G401	Unknown	0	MRT1	CD45
MRT1	Unknown	0	MRT1	CD45
TAM	Unknown	0	MRT1	CD45
Monocyte	Unknown	0	MRT1	CD45
T_NK	Unknown	0	MRT1	CD45
Fibroblast	Unknown	0	MRT1	CD45
Endothelial_Progenitor	Unknown	0	MRT1	CD45
Unknown	Unknown	0	MRT1	CD45
G401	G401	0	MRT1	MHC-II
MRT1	G401	0	MRT1	MHC-II
TAM	G401	0	MRT1	MHC-II
Monocyte	G401	0	MRT1	MHC-II
T_NK	G401	0	MRT1	MHC-II
Fibroblast	G401	0	MRT1	MHC-II
Endothelial_Progenitor	G401	0	MRT1	MHC-II
Unknown	G401	0	MRT1	MHC-II
G401	MRT1	0	MRT1	MHC-II
MRT1	MRT1	0	MRT1	MHC-II
TAM	MRT1	0	MRT1	MHC-II
Monocyte	MRT1	0	MRT1	MHC-II
T_NK	MRT1	0	MRT1	MHC-II
Fibroblast	MRT1	0	MRT1	MHC-II
Endothelial_Progenitor	MRT1	0	MRT1	MHC-II
Unknown	MRT1	0	MRT1	MHC-II
G401	TAM	0	MRT1	MHC-II
MRT1	TAM	0	MRT1	MHC-II
TAM	TAM	0.05594260069	MRT1	MHC-II

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT1	MHC-II
T_NK	TAM	0.005421601098	MRT1	MHC-II
Fibroblast	TAM	0	MRT1	MHC-II
Endothelial_Progenitor	TAM	0	MRT1	MHC-II
Unknown	TAM	0	MRT1	MHC-II
G401	Monocyte	0	MRT1	MHC-II
MRT1	Monocyte	0	MRT1	MHC-II
TAM	Monocyte	0	MRT1	MHC-II
Monocyte	Monocyte	0	MRT1	MHC-II
T_NK	Monocyte	0	MRT1	MHC-II
Fibroblast	Monocyte	0	MRT1	MHC-II
Endothelial_Progenitor	Monocyte	0	MRT1	MHC-II
Unknown	Monocyte	0	MRT1	MHC-II
G401	T_NK	0	MRT1	MHC-II
MRT1	T_NK	0	MRT1	MHC-II
TAM	T_NK	0	MRT1	MHC-II
Monocyte	T_NK	0	MRT1	MHC-II
T_NK	T_NK	0	MRT1	MHC-II
Fibroblast	T_NK	0	MRT1	MHC-II
Endothelial_Progenitor	T_NK	0	MRT1	MHC-II
Unknown	T_NK	0	MRT1	MHC-II
G401	Fibroblast	0	MRT1	MHC-II
MRT1	Fibroblast	0	MRT1	MHC-II
TAM	Fibroblast	0	MRT1	MHC-II
Monocyte	Fibroblast	0	MRT1	MHC-II
T_NK	Fibroblast	0	MRT1	MHC-II
Fibroblast	Fibroblast	0	MRT1	MHC-II
Endothelial_Progenitor	Fibroblast	0	MRT1	MHC-II
Unknown	Fibroblast	0	MRT1	MHC-II
G401	Endothelial_Progenitor	0	MRT1	MHC-II

Source	Target	Probability	Sample	Pathway
MRT1	Endothelial_Progenitor	0	MRT1	MHC-II
TAM	Endothelial_Progenitor	0	MRT1	MHC-II
Monocyte	Endothelial_Progenitor	0	MRT1	MHC-II
T_NK	Endothelial_Progenitor	0	MRT1	MHC-II
Fibroblast	Endothelial_Progenitor	0	MRT1	MHC-II
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	MHC-II
Unknown	Endothelial_Progenitor	0	MRT1	MHC-II
G401	Unknown	0	MRT1	MHC-II
MRT1	Unknown	0	MRT1	MHC-II
TAM	Unknown	0	MRT1	MHC-II
Monocyte	Unknown	0	MRT1	MHC-II
T_NK	Unknown	0	MRT1	MHC-II
Fibroblast	Unknown	0	MRT1	MHC-II
Endothelial_Progenitor	Unknown	0	MRT1	MHC-II
Unknown	Unknown	0	MRT1	MHC-II
G401	G401	0	MRT1	TGFb
MRT1	G401	0	MRT1	TGFb
TAM	G401	0	MRT1	TGFb
Monocyte	G401	0	MRT1	TGFb
T_NK	G401	0	MRT1	TGFb
Fibroblast	G401	0	MRT1	TGFb
Endothelial_Progenitor	G401	0	MRT1	TGFb
Unknown	G401	0	MRT1	TGFb
G401	MRT1	0	MRT1	TGFb
MRT1	MRT1	0	MRT1	TGFb
TAM	MRT1	0	MRT1	TGFb
Monocyte	MRT1	0	MRT1	TGFb
T_NK	MRT1	0	MRT1	TGFb
Fibroblast	MRT1	0	MRT1	TGFb
Endothelial_Progenitor	MRT1	0	MRT1	TGFb

Source	Target	Probability	Sample	Pathway
Unknown	MRT1	0	MRT1	TGFb
G401	TAM	0	MRT1	TGFb
MRT1	TAM	0.02902397198	MRT1	TGFb
TAM	TAM	0.01504064351	MRT1	TGFb
Monocyte	TAM	0	MRT1	TGFb
T_NK	TAM	0.01662887801	MRT1	TGFb
Fibroblast	TAM	0	MRT1	TGFb
Endothelial_Progenitor	TAM	0	MRT1	TGFb
Unknown	TAM	0	MRT1	TGFb
G401	Monocyte	0	MRT1	TGFb
MRT1	Monocyte	0	MRT1	TGFb
TAM	Monocyte	0	MRT1	TGFb
Monocyte	Monocyte	0	MRT1	TGFb
T_NK	Monocyte	0	MRT1	TGFb
Fibroblast	Monocyte	0	MRT1	TGFb
Endothelial_Progenitor	Monocyte	0	MRT1	TGFb
Unknown	Monocyte	0	MRT1	TGFb
G401	T_NK	0	MRT1	TGFb
MRT1	T_NK	0	MRT1	TGFb
TAM	T_NK	0	MRT1	TGFb
Monocyte	T_NK	0	MRT1	TGFb
T_NK	T_NK	0	MRT1	TGFb
Fibroblast	T_NK	0	MRT1	TGFb
Endothelial_Progenitor	T_NK	0	MRT1	TGFb
Unknown	T_NK	0	MRT1	TGFb
G401	Fibroblast	0	MRT1	TGFb
MRT1	Fibroblast	0	MRT1	TGFb
TAM	Fibroblast	0	MRT1	TGFb
Monocyte	Fibroblast	0	MRT1	TGFb
T_NK	Fibroblast	0	MRT1	TGFb

Source	Target	Probability	Sample	Pathway
Fibroblast	Fibroblast	0	MRT1	TGFb
Endothelial_Progenitor	Fibroblast	0	MRT1	TGFb
Unknown	Fibroblast	0	MRT1	TGFb
G401	Endothelial_Progenitor	0	MRT1	TGFb
MRT1	Endothelial_Progenitor	0	MRT1	TGFb
TAM	Endothelial_Progenitor	0	MRT1	TGFb
Monocyte	Endothelial_Progenitor	0	MRT1	TGFb
T_NK	Endothelial_Progenitor	0	MRT1	TGFb
Fibroblast	Endothelial_Progenitor	0	MRT1	TGFb
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	TGFb
Unknown	Endothelial_Progenitor	0	MRT1	TGFb
G401	Unknown	0	MRT1	TGFb
MRT1	Unknown	0	MRT1	TGFb
TAM	Unknown	0	MRT1	TGFb
Monocyte	Unknown	0	MRT1	TGFb
T_NK	Unknown	0	MRT1	TGFb
Fibroblast	Unknown	0	MRT1	TGFb
Endothelial_Progenitor	Unknown	0	MRT1	TGFb
Unknown	Unknown	0	MRT1	TGFb
G401	G401	0	MRT1	MK
MRT1	G401	0	MRT1	MK
TAM	G401	0	MRT1	MK
Monocyte	G401	0	MRT1	MK
T_NK	G401	0	MRT1	MK
Fibroblast	G401	0	MRT1	MK
Endothelial_Progenitor	G401	0	MRT1	MK
Unknown	G401	0	MRT1	MK
G401	MRT1	0	MRT1	MK
MRT1	MRT1	0	MRT1	MK
TAM	MRT1	0	MRT1	MK

Source	Target	Probability	Sample	Pathway
Monocyte	MRT1	0	MRT1	MK
T_NK	MRT1	0	MRT1	MK
Fibroblast	MRT1	0	MRT1	MK
Endothelial_Progenitor	MRT1	0	MRT1	MK
Unknown	MRT1	0	MRT1	MK
G401	TAM	0	MRT1	MK
MRT1	TAM	0.008603035265	MRT1	MK
TAM	TAM	0	MRT1	MK
Monocyte	TAM	0	MRT1	MK
T_NK	TAM	0	MRT1	MK
Fibroblast	TAM	0	MRT1	MK
Endothelial_Progenitor	TAM	0	MRT1	MK
Unknown	TAM	0	MRT1	MK
G401	Monocyte	0	MRT1	MK
MRT1	Monocyte	0	MRT1	MK
TAM	Monocyte	0	MRT1	MK
Monocyte	Monocyte	0	MRT1	MK
T_NK	Monocyte	0	MRT1	MK
Fibroblast	Monocyte	0	MRT1	MK
Endothelial_Progenitor	Monocyte	0	MRT1	MK
Unknown	Monocyte	0	MRT1	MK
G401	T_NK	0	MRT1	MK
MRT1	T_NK	0.01090000883	MRT1	MK
TAM	T_NK	0	MRT1	MK
Monocyte	T_NK	0	MRT1	MK
T_NK	T_NK	0	MRT1	MK
Fibroblast	T_NK	0	MRT1	MK
Endothelial_Progenitor	T_NK	0	MRT1	MK
Unknown	T_NK	0	MRT1	MK
G401	Fibroblast	0	MRT1	MK

Source	Target	Probability	Sample	Pathway
MRT1	Fibroblast	0	MRT1	MK
TAM	Fibroblast	0	MRT1	MK
Monocyte	Fibroblast	0	MRT1	MK
T_NK	Fibroblast	0	MRT1	MK
Fibroblast	Fibroblast	0	MRT1	MK
Endothelial_Progenitor	Fibroblast	0	MRT1	MK
Unknown	Fibroblast	0	MRT1	MK
G401	Endothelial_Progenitor	0	MRT1	MK
MRT1	Endothelial_Progenitor	0	MRT1	MK
TAM	Endothelial_Progenitor	0	MRT1	MK
Monocyte	Endothelial_Progenitor	0	MRT1	MK
T_NK	Endothelial_Progenitor	0	MRT1	MK
Fibroblast	Endothelial_Progenitor	0	MRT1	MK
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	MK
Unknown	Endothelial_Progenitor	0	MRT1	MK
G401	Unknown	0	MRT1	MK
MRT1	Unknown	0	MRT1	MK
TAM	Unknown	0	MRT1	MK
Monocyte	Unknown	0	MRT1	MK
T_NK	Unknown	0	MRT1	MK
Fibroblast	Unknown	0	MRT1	MK
Endothelial_Progenitor	Unknown	0	MRT1	MK
Unknown	Unknown	0	MRT1	MK
G401	G401	0	MRT1	MIF
MRT1	G401	0	MRT1	MIF
TAM	G401	0	MRT1	MIF
Monocyte	G401	0	MRT1	MIF
T_NK	G401	0	MRT1	MIF
Fibroblast	G401	0	MRT1	MIF
Endothelial_Progenitor	G401	0	MRT1	MIF

Source	Target	Probability	Sample	Pathway
Unknown	G401	0	MRT1	MIF
G401	MRT1	0	MRT1	MIF
MRT1	MRT1	0	MRT1	MIF
TAM	MRT1	0	MRT1	MIF
Monocyte	MRT1	0	MRT1	MIF
T_NK	MRT1	0	MRT1	MIF
Fibroblast	MRT1	0	MRT1	MIF
Endothelial_Progenitor	MRT1	0	MRT1	MIF
Unknown	MRT1	0	MRT1	MIF
G401	TAM	0	MRT1	MIF
MRT1	TAM	0.01074621	MRT1	MIF
TAM	TAM	0	MRT1	MIF
Monocyte	TAM	0	MRT1	MIF
T_NK	TAM	0	MRT1	MIF
Fibroblast	TAM	0	MRT1	MIF
Endothelial_Progenitor	TAM	0	MRT1	MIF
Unknown	TAM	0	MRT1	MIF
G401	Monocyte	0	MRT1	MIF
MRT1	Monocyte	0	MRT1	MIF
TAM	Monocyte	0	MRT1	MIF
Monocyte	Monocyte	0	MRT1	MIF
T_NK	Monocyte	0	MRT1	MIF
Fibroblast	Monocyte	0	MRT1	MIF
Endothelial_Progenitor	Monocyte	0	MRT1	MIF
Unknown	Monocyte	0	MRT1	MIF
G401	T_NK	0	MRT1	MIF
MRT1	T_NK	0.003410376335	MRT1	MIF
TAM	T_NK	0	MRT1	MIF
Monocyte	T_NK	0	MRT1	MIF
T_NK	T_NK	0	MRT1	MIF

Source	Target	Probability	Sample	Pathway
Fibroblast	T_NK	0	MRT1	MIF
Endothelial_Progenitor	T_NK	0	MRT1	MIF
Unknown	T_NK	0	MRT1	MIF
G401	Fibroblast	0	MRT1	MIF
MRT1	Fibroblast	0	MRT1	MIF
TAM	Fibroblast	0	MRT1	MIF
Monocyte	Fibroblast	0	MRT1	MIF
T_NK	Fibroblast	0	MRT1	MIF
Fibroblast	Fibroblast	0	MRT1	MIF
Endothelial_Progenitor	Fibroblast	0	MRT1	MIF
Unknown	Fibroblast	0	MRT1	MIF
G401	Endothelial_Progenitor	0	MRT1	MIF
MRT1	Endothelial_Progenitor	0	MRT1	MIF
TAM	Endothelial_Progenitor	0	MRT1	MIF
Monocyte	Endothelial_Progenitor	0	MRT1	MIF
T_NK	Endothelial_Progenitor	0	MRT1	MIF
Fibroblast	Endothelial_Progenitor	0	MRT1	MIF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	MIF
Unknown	Endothelial_Progenitor	0	MRT1	MIF
G401	Unknown	0	MRT1	MIF
MRT1	Unknown	0	MRT1	MIF
TAM	Unknown	0	MRT1	MIF
Monocyte	Unknown	0	MRT1	MIF
T_NK	Unknown	0	MRT1	MIF
Fibroblast	Unknown	0	MRT1	MIF
Endothelial_Progenitor	Unknown	0	MRT1	MIF
Unknown	Unknown	0	MRT1	MIF
G401	G401	0	MRT1	PDGF
MRT1	G401	0	MRT1	PDGF
TAM	G401	0	MRT1	PDGF

Source	Target	Probability	Sample	Pathway
Monocyte	G401	0	MRT1	PDGF
T_NK	G401	0	MRT1	PDGF
Fibroblast	G401	0	MRT1	PDGF
Endothelial_Progenitor	G401	0	MRT1	PDGF
Unknown	G401	0	MRT1	PDGF
G401	MRT1	0	MRT1	PDGF
MRT1	MRT1	0	MRT1	PDGF
TAM	MRT1	0.01001715233	MRT1	PDGF
Monocyte	MRT1	0	MRT1	PDGF
T_NK	MRT1	0	MRT1	PDGF
Fibroblast	MRT1	0	MRT1	PDGF
Endothelial_Progenitor	MRT1	0	MRT1	PDGF
Unknown	MRT1	0	MRT1	PDGF
G401	TAM	0	MRT1	PDGF
MRT1	TAM	0	MRT1	PDGF
TAM	TAM	0	MRT1	PDGF
Monocyte	TAM	0	MRT1	PDGF
T_NK	TAM	0	MRT1	PDGF
Fibroblast	TAM	0	MRT1	PDGF
Endothelial_Progenitor	TAM	0	MRT1	PDGF
Unknown	TAM	0	MRT1	PDGF
G401	Monocyte	0	MRT1	PDGF
MRT1	Monocyte	0	MRT1	PDGF
TAM	Monocyte	0	MRT1	PDGF
Monocyte	Monocyte	0	MRT1	PDGF
T_NK	Monocyte	0	MRT1	PDGF
Fibroblast	Monocyte	0	MRT1	PDGF
Endothelial_Progenitor	Monocyte	0	MRT1	PDGF
Unknown	Monocyte	0	MRT1	PDGF
G401	T_NK	0	MRT1	PDGF

Source	Target	Probability	Sample	Pathway
MRT1	T_NK	0	MRT1	PDGF
TAM	T_NK	0	MRT1	PDGF
Monocyte	T_NK	0	MRT1	PDGF
T_NK	T_NK	0	MRT1	PDGF
Fibroblast	T_NK	0	MRT1	PDGF
Endothelial_Progenitor	T_NK	0	MRT1	PDGF
Unknown	T_NK	0	MRT1	PDGF
G401	Fibroblast	0	MRT1	PDGF
MRT1	Fibroblast	0	MRT1	PDGF
TAM	Fibroblast	0	MRT1	PDGF
Monocyte	Fibroblast	0	MRT1	PDGF
T_NK	Fibroblast	0	MRT1	PDGF
Fibroblast	Fibroblast	0	MRT1	PDGF
Endothelial_Progenitor	Fibroblast	0	MRT1	PDGF
Unknown	Fibroblast	0	MRT1	PDGF
G401	Endothelial_Progenitor	0	MRT1	PDGF
MRT1	Endothelial_Progenitor	0	MRT1	PDGF
TAM	Endothelial_Progenitor	0	MRT1	PDGF
Monocyte	Endothelial_Progenitor	0	MRT1	PDGF
T_NK	Endothelial_Progenitor	0	MRT1	PDGF
Fibroblast	Endothelial_Progenitor	0	MRT1	PDGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	PDGF
Unknown	Endothelial_Progenitor	0	MRT1	PDGF
G401	Unknown	0	MRT1	PDGF
MRT1	Unknown	0	MRT1	PDGF
TAM	Unknown	0	MRT1	PDGF
Monocyte	Unknown	0	MRT1	PDGF
T_NK	Unknown	0	MRT1	PDGF
Fibroblast	Unknown	0	MRT1	PDGF
Endothelial_Progenitor	Unknown	0	MRT1	PDGF

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT1	PDGF
G401	G401	0	MRT1	ALCAM
MRT1	G401	0	MRT1	ALCAM
TAM	G401	0	MRT1	ALCAM
Monocyte	G401	0	MRT1	ALCAM
T_NK	G401	0	MRT1	ALCAM
Fibroblast	G401	0	MRT1	ALCAM
Endothelial_Progenitor	G401	0	MRT1	ALCAM
Unknown	G401	0	MRT1	ALCAM
G401	MRT1	0	MRT1	ALCAM
MRT1	MRT1	0	MRT1	ALCAM
TAM	MRT1	0	MRT1	ALCAM
Monocyte	MRT1	0	MRT1	ALCAM
T_NK	MRT1	0	MRT1	ALCAM
Fibroblast	MRT1	0	MRT1	ALCAM
Endothelial_Progenitor	MRT1	0	MRT1	ALCAM
Unknown	MRT1	0	MRT1	ALCAM
G401	TAM	0	MRT1	ALCAM
MRT1	TAM	0	MRT1	ALCAM
TAM	TAM	0	MRT1	ALCAM
Monocyte	TAM	0	MRT1	ALCAM
T_NK	TAM	0	MRT1	ALCAM
Fibroblast	TAM	0	MRT1	ALCAM
Endothelial_Progenitor	TAM	0	MRT1	ALCAM
Unknown	TAM	0	MRT1	ALCAM
G401	Monocyte	0	MRT1	ALCAM
MRT1	Monocyte	0	MRT1	ALCAM
TAM	Monocyte	0	MRT1	ALCAM
Monocyte	Monocyte	0	MRT1	ALCAM
T_NK	Monocyte	0	MRT1	ALCAM

Source	Target	Probability	Sample	Pathway
Fibroblast	Monocyte	0	MRT1	ALCAM
Endothelial_Progenitor	Monocyte	0	MRT1	ALCAM
Unknown	Monocyte	0	MRT1	ALCAM
G401	T_NK	0	MRT1	ALCAM
MRT1	T_NK	0	MRT1	ALCAM
TAM	T_NK	0.002710800549	MRT1	ALCAM
Monocyte	T_NK	0	MRT1	ALCAM
T_NK	T_NK	0	MRT1	ALCAM
Fibroblast	T_NK	0	MRT1	ALCAM
Endothelial_Progenitor	T_NK	0	MRT1	ALCAM
Unknown	T_NK	0	MRT1	ALCAM
G401	Fibroblast	0	MRT1	ALCAM
MRT1	Fibroblast	0	MRT1	ALCAM
TAM	Fibroblast	0	MRT1	ALCAM
Monocyte	Fibroblast	0	MRT1	ALCAM
T_NK	Fibroblast	0	MRT1	ALCAM
Fibroblast	Fibroblast	0	MRT1	ALCAM
Endothelial_Progenitor	Fibroblast	0	MRT1	ALCAM
Unknown	Fibroblast	0	MRT1	ALCAM
G401	Endothelial_Progenitor	0	MRT1	ALCAM
MRT1	Endothelial_Progenitor	0	MRT1	ALCAM
TAM	Endothelial_Progenitor	0	MRT1	ALCAM
Monocyte	Endothelial_Progenitor	0	MRT1	ALCAM
T_NK	Endothelial_Progenitor	0	MRT1	ALCAM
Fibroblast	Endothelial_Progenitor	0	MRT1	ALCAM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	ALCAM
Unknown	Endothelial_Progenitor	0	MRT1	ALCAM
G401	Unknown	0	MRT1	ALCAM
MRT1	Unknown	0	MRT1	ALCAM
TAM	Unknown	0	MRT1	ALCAM

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT1	ALCAM
T_NK	Unknown	0	MRT1	ALCAM
Fibroblast	Unknown	0	MRT1	ALCAM
Endothelial_Progenitor	Unknown	0	MRT1	ALCAM
Unknown	Unknown	0	MRT1	ALCAM
G401	G401	0	MRT1	CD6
MRT1	G401	0	MRT1	CD6
TAM	G401	0	MRT1	CD6
Monocyte	G401	0	MRT1	CD6
T_NK	G401	0	MRT1	CD6
Fibroblast	G401	0	MRT1	CD6
Endothelial_Progenitor	G401	0	MRT1	CD6
Unknown	G401	0	MRT1	CD6
G401	MRT1	0	MRT1	CD6
MRT1	MRT1	0	MRT1	CD6
TAM	MRT1	0	MRT1	CD6
Monocyte	MRT1	0	MRT1	CD6
T_NK	MRT1	0	MRT1	CD6
Fibroblast	MRT1	0	MRT1	CD6
Endothelial_Progenitor	MRT1	0	MRT1	CD6
Unknown	MRT1	0	MRT1	CD6
G401	TAM	0	MRT1	CD6
MRT1	TAM	0	MRT1	CD6
TAM	TAM	0	MRT1	CD6
Monocyte	TAM	0	MRT1	CD6
T_NK	TAM	0.002710800549	MRT1	CD6
Fibroblast	TAM	0	MRT1	CD6
Endothelial_Progenitor	TAM	0	MRT1	CD6
Unknown	TAM	0	MRT1	CD6
G401	Monocyte	0	MRT1	CD6

Source	Target	Probability	Sample	Pathway
MRT1	Monocyte	0	MRT1	CD6
TAM	Monocyte	0	MRT1	CD6
Monocyte	Monocyte	0	MRT1	CD6
T_NK	Monocyte	0	MRT1	CD6
Fibroblast	Monocyte	0	MRT1	CD6
Endothelial_Progenitor	Monocyte	0	MRT1	CD6
Unknown	Monocyte	0	MRT1	CD6
G401	T_NK	0	MRT1	CD6
MRT1	T_NK	0	MRT1	CD6
TAM	T_NK	0	MRT1	CD6
Monocyte	T_NK	0	MRT1	CD6
T_NK	T_NK	0	MRT1	CD6
Fibroblast	T_NK	0	MRT1	CD6
Endothelial_Progenitor	T_NK	0	MRT1	CD6
Unknown	T_NK	0	MRT1	CD6
G401	Fibroblast	0	MRT1	CD6
MRT1	Fibroblast	0	MRT1	CD6
TAM	Fibroblast	0	MRT1	CD6
Monocyte	Fibroblast	0	MRT1	CD6
T_NK	Fibroblast	0	MRT1	CD6
Fibroblast	Fibroblast	0	MRT1	CD6
Endothelial_Progenitor	Fibroblast	0	MRT1	CD6
Unknown	Fibroblast	0	MRT1	CD6
G401	Endothelial_Progenitor	0	MRT1	CD6
MRT1	Endothelial_Progenitor	0	MRT1	CD6
TAM	Endothelial_Progenitor	0	MRT1	CD6
Monocyte	Endothelial_Progenitor	0	MRT1	CD6
T_NK	Endothelial_Progenitor	0	MRT1	CD6
Fibroblast	Endothelial_Progenitor	0	MRT1	CD6
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	CD6

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0	MRT1	CD6
G401	Unknown	0	MRT1	CD6
MRT1	Unknown	0	MRT1	CD6
TAM	Unknown	0	MRT1	CD6
Monocyte	Unknown	0	MRT1	CD6
T_NK	Unknown	0	MRT1	CD6
Fibroblast	Unknown	0	MRT1	CD6
Endothelial_Progenitor	Unknown	0	MRT1	CD6
Unknown	Unknown	0	MRT1	CD6
G401	G401	0	MRT1	CD86
MRT1	G401	0	MRT1	CD86
TAM	G401	0	MRT1	CD86
Monocyte	G401	0	MRT1	CD86
T_NK	G401	0	MRT1	CD86
Fibroblast	G401	0	MRT1	CD86
Endothelial_Progenitor	G401	0	MRT1	CD86
Unknown	G401	0	MRT1	CD86
G401	MRT1	0	MRT1	CD86
MRT1	MRT1	0	MRT1	CD86
TAM	MRT1	0	MRT1	CD86
Monocyte	MRT1	0	MRT1	CD86
T_NK	MRT1	0	MRT1	CD86
Fibroblast	MRT1	0	MRT1	CD86
Endothelial_Progenitor	MRT1	0	MRT1	CD86
Unknown	MRT1	0	MRT1	CD86
G401	TAM	0	MRT1	CD86
MRT1	TAM	0	MRT1	CD86
TAM	TAM	0.002710800549	MRT1	CD86
Monocyte	TAM	0	MRT1	CD86
T_NK	TAM	0	MRT1	CD86

Source	Target	Probability	Sample	Pathway
Fibroblast	TAM	0	MRT1	CD86
Endothelial_Progenitor	TAM	0	MRT1	CD86
Unknown	TAM	0	MRT1	CD86
G401	Monocyte	0	MRT1	CD86
MRT1	Monocyte	0	MRT1	CD86
TAM	Monocyte	0	MRT1	CD86
Monocyte	Monocyte	0	MRT1	CD86
T_NK	Monocyte	0	MRT1	CD86
Fibroblast	Monocyte	0	MRT1	CD86
Endothelial_Progenitor	Monocyte	0	MRT1	CD86
Unknown	Monocyte	0	MRT1	CD86
G401	T_NK	0	MRT1	CD86
MRT1	T_NK	0	MRT1	CD86
TAM	T_NK	0	MRT1	CD86
Monocyte	T_NK	0	MRT1	CD86
T_NK	T_NK	0	MRT1	CD86
Fibroblast	T_NK	0	MRT1	CD86
Endothelial_Progenitor	T_NK	0	MRT1	CD86
Unknown	T_NK	0	MRT1	CD86
G401	Fibroblast	0	MRT1	CD86
MRT1	Fibroblast	0	MRT1	CD86
TAM	Fibroblast	0	MRT1	CD86
Monocyte	Fibroblast	0	MRT1	CD86
T_NK	Fibroblast	0	MRT1	CD86
Fibroblast	Fibroblast	0	MRT1	CD86
Endothelial_Progenitor	Fibroblast	0	MRT1	CD86
Unknown	Fibroblast	0	MRT1	CD86
G401	Endothelial_Progenitor	0	MRT1	CD86
MRT1	Endothelial_Progenitor	0	MRT1	CD86
TAM	Endothelial_Progenitor	0	MRT1	CD86

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Progenitor	0	MRT1	CD86
T_NK	Endothelial_Progenitor	0	MRT1	CD86
Fibroblast	Endothelial_Progenitor	0	MRT1	CD86
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	CD86
Unknown	Endothelial_Progenitor	0	MRT1	CD86
G401	Unknown	0	MRT1	CD86
MRT1	Unknown	0	MRT1	CD86
TAM	Unknown	0	MRT1	CD86
Monocyte	Unknown	0	MRT1	CD86
T_NK	Unknown	0	MRT1	CD86
Fibroblast	Unknown	0	MRT1	CD86
Endothelial_Progenitor	Unknown	0	MRT1	CD86
Unknown	Unknown	0	MRT1	CD86
G401	G401	0	MRT1	PTPRM
MRT1	G401	0	MRT1	PTPRM
TAM	G401	0	MRT1	PTPRM
Monocyte	G401	0	MRT1	PTPRM
T_NK	G401	0	MRT1	PTPRM
Fibroblast	G401	0	MRT1	PTPRM
Endothelial_Progenitor	G401	0	MRT1	PTPRM
Unknown	G401	0	MRT1	PTPRM
G401	MRT1	0	MRT1	PTPRM
MRT1	MRT1	0	MRT1	PTPRM
TAM	MRT1	0	MRT1	PTPRM
Monocyte	MRT1	0	MRT1	PTPRM
T_NK	MRT1	0	MRT1	PTPRM
Fibroblast	MRT1	0	MRT1	PTPRM
Endothelial_Progenitor	MRT1	0	MRT1	PTPRM
Unknown	MRT1	0	MRT1	PTPRM
G401	TAM	0	MRT1	PTPRM

Source	Target	Probability	Sample	Pathway
MRT1	TAM	0	MRT1	PTPRM
TAM	TAM	0.002710800549	MRT1	PTPRM
Monocyte	TAM	0	MRT1	PTPRM
T_NK	TAM	0	MRT1	PTPRM
Fibroblast	TAM	0	MRT1	PTPRM
Endothelial_Progenitor	TAM	0	MRT1	PTPRM
Unknown	TAM	0	MRT1	PTPRM
G401	Monocyte	0	MRT1	PTPRM
MRT1	Monocyte	0	MRT1	PTPRM
TAM	Monocyte	0	MRT1	PTPRM
Monocyte	Monocyte	0	MRT1	PTPRM
T_NK	Monocyte	0	MRT1	PTPRM
Fibroblast	Monocyte	0	MRT1	PTPRM
Endothelial_Progenitor	Monocyte	0	MRT1	PTPRM
Unknown	Monocyte	0	MRT1	PTPRM
G401	T_NK	0	MRT1	PTPRM
MRT1	T_NK	0	MRT1	PTPRM
TAM	T_NK	0	MRT1	PTPRM
Monocyte	T_NK	0	MRT1	PTPRM
T_NK	T_NK	0	MRT1	PTPRM
Fibroblast	T_NK	0	MRT1	PTPRM
Endothelial_Progenitor	T_NK	0	MRT1	PTPRM
Unknown	T_NK	0	MRT1	PTPRM
G401	Fibroblast	0	MRT1	PTPRM
MRT1	Fibroblast	0	MRT1	PTPRM
TAM	Fibroblast	0	MRT1	PTPRM
Monocyte	Fibroblast	0	MRT1	PTPRM
T_NK	Fibroblast	0	MRT1	PTPRM
Fibroblast	Fibroblast	0	MRT1	PTPRM
Endothelial_Progenitor	Fibroblast	0	MRT1	PTPRM

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0	MRT1	PTPRM
G401	Endothelial_Progenitor	0	MRT1	PTPRM
MRT1	Endothelial_Progenitor	0	MRT1	PTPRM
TAM	Endothelial_Progenitor	0	MRT1	PTPRM
Monocyte	Endothelial_Progenitor	0	MRT1	PTPRM
T_NK	Endothelial_Progenitor	0	MRT1	PTPRM
Fibroblast	Endothelial_Progenitor	0	MRT1	PTPRM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT1	PTPRM
Unknown	Endothelial_Progenitor	0	MRT1	PTPRM
G401	Unknown	0	MRT1	PTPRM
MRT1	Unknown	0	MRT1	PTPRM
TAM	Unknown	0	MRT1	PTPRM
Monocyte	Unknown	0	MRT1	PTPRM
T_NK	Unknown	0	MRT1	PTPRM
Fibroblast	Unknown	0	MRT1	PTPRM
Endothelial_Progenitor	Unknown	0	MRT1	PTPRM
Unknown	Unknown	0	MRT1	PTPRM
MRT1	MRT1	0	MRT2	COLLAGEN
MRT2	MRT1	0	MRT2	COLLAGEN
MRT4	MRT1	0	MRT2	COLLAGEN
TAM	MRT1	0	MRT2	COLLAGEN
Monocyte	MRT1	0	MRT2	COLLAGEN
T_NK	MRT1	0	MRT2	COLLAGEN
Fibroblast	MRT1	0	MRT2	COLLAGEN
Endothelial_Cell	MRT1	0	MRT2	COLLAGEN
Endothelial_Progenitor	MRT1	0	MRT2	COLLAGEN
Adipocyte	MRT1	0	MRT2	COLLAGEN
MRT1	MRT2	0	MRT2	COLLAGEN
MRT2	MRT2	0	MRT2	COLLAGEN
MRT4	MRT2	0	MRT2	COLLAGEN

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	COLLAGEN
Monocyte	MRT2	0	MRT2	COLLAGEN
T_NK	MRT2	0.06878729865	MRT2	COLLAGEN
Fibroblast	MRT2	1.278538154	MRT2	COLLAGEN
Endothelial_Cell	MRT2	0.2771815911	MRT2	COLLAGEN
Endothelial_Progenitor	MRT2	0.3396672524	MRT2	COLLAGEN
Adipocyte	MRT2	0	MRT2	COLLAGEN
MRT1	MRT4	0	MRT2	COLLAGEN
MRT2	MRT4	0	MRT2	COLLAGEN
MRT4	MRT4	0	MRT2	COLLAGEN
TAM	MRT4	0	MRT2	COLLAGEN
Monocyte	MRT4	0	MRT2	COLLAGEN
T_NK	MRT4	0	MRT2	COLLAGEN
Fibroblast	MRT4	0	MRT2	COLLAGEN
Endothelial_Cell	MRT4	0	MRT2	COLLAGEN
Endothelial_Progenitor	MRT4	0	MRT2	COLLAGEN
Adipocyte	MRT4	0	MRT2	COLLAGEN
MRT1	TAM	0	MRT2	COLLAGEN
MRT2	TAM	0.08029696726	MRT2	COLLAGEN
MRT4	TAM	0	MRT2	COLLAGEN
TAM	TAM	0.00576819313	MRT2	COLLAGEN
Monocyte	TAM	0.02037495403	MRT2	COLLAGEN
T_NK	TAM	0.02819053192	MRT2	COLLAGEN
Fibroblast	TAM	1.587027959	MRT2	COLLAGEN
Endothelial_Cell	TAM	0.3310441276	MRT2	COLLAGEN
Endothelial_Progenitor	TAM	0.4141827084	MRT2	COLLAGEN
Adipocyte	TAM	0	MRT2	COLLAGEN
MRT1	Monocyte	0	MRT2	COLLAGEN
MRT2	Monocyte	0	MRT2	COLLAGEN
MRT4	Monocyte	0	MRT2	COLLAGEN

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	COLLAGEN
Monocyte	Monocyte	0	MRT2	COLLAGEN
T_NK	Monocyte	0	MRT2	COLLAGEN
Fibroblast	Monocyte	0.9470868243	MRT2	COLLAGEN
Endothelial_Cell	Monocyte	0.1992023926	MRT2	COLLAGEN
Endothelial_Progenitor	Monocyte	0.2481722339	MRT2	COLLAGEN
Adipocyte	Monocyte	0	MRT2	COLLAGEN
MRT1	T_NK	0	MRT2	COLLAGEN
MRT2	T_NK	0	MRT2	COLLAGEN
MRT4	T_NK	0	MRT2	COLLAGEN
TAM	T_NK	0	MRT2	COLLAGEN
Monocyte	T_NK	0	MRT2	COLLAGEN
T_NK	T_NK	0.07431307811	MRT2	COLLAGEN
Fibroblast	T_NK	1.364511581	MRT2	COLLAGEN
Endothelial_Cell	T_NK	0.2981699348	MRT2	COLLAGEN
Endothelial_Progenitor	T_NK	0.363774884	MRT2	COLLAGEN
Adipocyte	T_NK	0	MRT2	COLLAGEN
MRT1	Fibroblast	0	MRT2	COLLAGEN
MRT2	Fibroblast	0.1348399188	MRT2	COLLAGEN
MRT4	Fibroblast	0	MRT2	COLLAGEN
TAM	Fibroblast	0.07664836743	MRT2	COLLAGEN
Monocyte	Fibroblast	0.09151742267	MRT2	COLLAGEN
T_NK	Fibroblast	0.1234376943	MRT2	COLLAGEN
Fibroblast	Fibroblast	1.832809373	MRT2	COLLAGEN
Endothelial_Cell	Fibroblast	0.4194929087	MRT2	COLLAGEN
Endothelial_Progenitor	Fibroblast	0.5507443759	MRT2	COLLAGEN
Adipocyte	Fibroblast	0	MRT2	COLLAGEN
MRT1	Endothelial_Cell	0	MRT2	COLLAGEN
MRT2	Endothelial_Cell	0.4669624339	MRT2	COLLAGEN
MRT4	Endothelial_Cell	0	MRT2	COLLAGEN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0.2533278273	MRT2	COLLAGEN
Monocyte	Endothelial_Cell	0.3217650224	MRT2	COLLAGEN
T_NK	Endothelial_Cell	0.429724315	MRT2	COLLAGEN
Fibroblast	Endothelial_Cell	3.158058931	MRT2	COLLAGEN
Endothelial_Cell	Endothelial_Cell	0.8300955774	MRT2	COLLAGEN
Endothelial_Progenitor	Endothelial_Cell	1.105740186	MRT2	COLLAGEN
Adipocyte	Endothelial_Cell	0	MRT2	COLLAGEN
MRT1	Endothelial_Progenitor	0	MRT2	COLLAGEN
MRT2	Endothelial_Progenitor	0.4423796765	MRT2	COLLAGEN
MRT4	Endothelial_Progenitor	0	MRT2	COLLAGEN
TAM	Endothelial_Progenitor	0.174905312	MRT2	COLLAGEN
Monocyte	Endothelial_Progenitor	0.2347963323	MRT2	COLLAGEN
T_NK	Endothelial_Progenitor	0.4065983855	MRT2	COLLAGEN
Fibroblast	Endothelial_Progenitor	3.39025062	MRT2	COLLAGEN
Endothelial_Cell	Endothelial_Progenitor	0.885277106	MRT2	COLLAGEN
Endothelial_Progenitor	Endothelial_Progenitor	1.142113822	MRT2	COLLAGEN
Adipocyte	Endothelial_Progenitor	0	MRT2	COLLAGEN
MRT1	Adipocyte	0	MRT2	COLLAGEN
MRT2	Adipocyte	0	MRT2	COLLAGEN
MRT4	Adipocyte	0	MRT2	COLLAGEN
TAM	Adipocyte	0	MRT2	COLLAGEN
Monocyte	Adipocyte	0	MRT2	COLLAGEN
T_NK	Adipocyte	0	MRT2	COLLAGEN
Fibroblast	Adipocyte	0	MRT2	COLLAGEN
Endothelial_Cell	Adipocyte	0	MRT2	COLLAGEN
Endothelial_Progenitor	Adipocyte	0	MRT2	COLLAGEN
Adipocyte	Adipocyte	0	MRT2	COLLAGEN
MRT1	MRT1	0	MRT2	LAMININ
MRT2	MRT1	0	MRT2	LAMININ
MRT4	MRT1	0	MRT2	LAMININ

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	LAMININ
Monocyte	MRT1	0	MRT2	LAMININ
T_NK	MRT1	0	MRT2	LAMININ
Fibroblast	MRT1	0	MRT2	LAMININ
Endothelial_Cell	MRT1	0	MRT2	LAMININ
Endothelial_Progenitor	MRT1	0	MRT2	LAMININ
Adipocyte	MRT1	0	MRT2	LAMININ
MRT1	MRT2	0	MRT2	LAMININ
MRT2	MRT2	0.08873529551	MRT2	LAMININ
MRT4	MRT2	0	MRT2	LAMININ
TAM	MRT2	0.001463961959	MRT2	LAMININ
Monocyte	MRT2	0.002927923918	MRT2	LAMININ
T_NK	MRT2	0.007294204036	MRT2	LAMININ
Fibroblast	MRT2	0.8253627716	MRT2	LAMININ
Endothelial_Cell	MRT2	0.7005806351	MRT2	LAMININ
Endothelial_Progenitor	MRT2	0.6823039606	MRT2	LAMININ
Adipocyte	MRT2	0	MRT2	LAMININ
MRT1	MRT4	0	MRT2	LAMININ
MRT2	MRT4	0	MRT2	LAMININ
MRT4	MRT4	0	MRT2	LAMININ
TAM	MRT4	0	MRT2	LAMININ
Monocyte	MRT4	0	MRT2	LAMININ
T_NK	MRT4	0	MRT2	LAMININ
Fibroblast	MRT4	0	MRT2	LAMININ
Endothelial_Cell	MRT4	0	MRT2	LAMININ
Endothelial_Progenitor	MRT4	0	MRT2	LAMININ
Adipocyte	MRT4	0	MRT2	LAMININ
MRT1	TAM	0	MRT2	LAMININ
MRT2	TAM	0.03421668573	MRT2	LAMININ
MRT4	TAM	0	MRT2	LAMININ

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	LAMININ
Monocyte	TAM	0	MRT2	LAMININ
T_NK	TAM	0	MRT2	LAMININ
Fibroblast	TAM	0.5878492433	MRT2	LAMININ
Endothelial_Cell	TAM	0.5834099085	MRT2	LAMININ
Endothelial_Progenitor	TAM	0.5688603086	MRT2	LAMININ
Adipocyte	TAM	0	MRT2	LAMININ
MRT1	Monocyte	0	MRT2	LAMININ
MRT2	Monocyte	0	MRT2	LAMININ
MRT4	Monocyte	0	MRT2	LAMININ
TAM	Monocyte	0	MRT2	LAMININ
Monocyte	Monocyte	0	MRT2	LAMININ
T_NK	Monocyte	0	MRT2	LAMININ
Fibroblast	Monocyte	0.2844430885	MRT2	LAMININ
Endothelial_Cell	Monocyte	0.4195012113	MRT2	LAMININ
Endothelial_Progenitor	Monocyte	0.2915710934	MRT2	LAMININ
Adipocyte	Monocyte	0	MRT2	LAMININ
MRT1	T_NK	0	MRT2	LAMININ
MRT2	T_NK	0	MRT2	LAMININ
MRT4	T_NK	0	MRT2	LAMININ
TAM	T_NK	0	MRT2	LAMININ
Monocyte	T_NK	0	MRT2	LAMININ
T_NK	T_NK	0	MRT2	LAMININ
Fibroblast	T_NK	0.5639754902	MRT2	LAMININ
Endothelial_Cell	T_NK	0.5814128296	MRT2	LAMININ
Endothelial_Progenitor	T_NK	0.5675490209	MRT2	LAMININ
Adipocyte	T_NK	0	MRT2	LAMININ
MRT1	Fibroblast	0	MRT2	LAMININ
MRT2	Fibroblast	0.03630137279	MRT2	LAMININ
MRT4	Fibroblast	0	MRT2	LAMININ

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0.00482511173	MRT2	LAMININ
Monocyte	Fibroblast	0.00965022346	MRT2	LAMININ
T_NK	Fibroblast	0.02385016463	MRT2	LAMININ
Fibroblast	Fibroblast	0.3591930951	MRT2	LAMININ
Endothelial_Cell	Fibroblast	0.3602205879	MRT2	LAMININ
Endothelial_Progenitor	Fibroblast	0.3561077367	MRT2	LAMININ
Adipocyte	Fibroblast	0	MRT2	LAMININ
MRT1	Endothelial_Cell	0	MRT2	LAMININ
MRT2	Endothelial_Cell	0.2675645865	MRT2	LAMININ
MRT4	Endothelial_Cell	0	MRT2	LAMININ
TAM	Endothelial_Cell	0.01818416379	MRT2	LAMININ
Monocyte	Endothelial_Cell	0.03636832759	MRT2	LAMININ
T_NK	Endothelial_Cell	0.1569031715	MRT2	LAMININ
Fibroblast	Endothelial_Cell	1.074293209	MRT2	LAMININ
Endothelial_Cell	Endothelial_Cell	0.894288266	MRT2	LAMININ
Endothelial_Progenitor	Endothelial_Cell	0.8509226994	MRT2	LAMININ
Adipocyte	Endothelial_Cell	0	MRT2	LAMININ
MRT1	Endothelial_Progenitor	0	MRT2	LAMININ
MRT2	Endothelial_Progenitor	0.2232724817	MRT2	LAMININ
MRT4	Endothelial_Progenitor	0	MRT2	LAMININ
TAM	Endothelial_Progenitor	0.02073903232	MRT2	LAMININ
Monocyte	Endothelial_Progenitor	0.04147806465	MRT2	LAMININ
T_NK	Endothelial_Progenitor	0.1463756562	MRT2	LAMININ
Fibroblast	Endothelial_Progenitor	1.362106209	MRT2	LAMININ
Endothelial_Cell	Endothelial_Progenitor	1.134669704	MRT2	LAMININ
Endothelial_Progenitor	Endothelial_Progenitor	1.087125911	MRT2	LAMININ
Adipocyte	Endothelial_Progenitor	0	MRT2	LAMININ
MRT1	Adipocyte	0	MRT2	LAMININ
MRT2	Adipocyte	0	MRT2	LAMININ
MRT4	Adipocyte	0	MRT2	LAMININ

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	LAMININ
Monocyte	Adipocyte	0	MRT2	LAMININ
T_NK	Adipocyte	0	MRT2	LAMININ
Fibroblast	Adipocyte	0	MRT2	LAMININ
Endothelial_Cell	Adipocyte	0	MRT2	LAMININ
Endothelial_Progenitor	Adipocyte	0	MRT2	LAMININ
Adipocyte	Adipocyte	0	MRT2	LAMININ
MRT1	MRT1	0	MRT2	FN1
MRT2	MRT1	0	MRT2	FN1
MRT4	MRT1	0	MRT2	FN1
TAM	MRT1	0	MRT2	FN1
Monocyte	MRT1	0	MRT2	FN1
T_NK	MRT1	0	MRT2	FN1
Fibroblast	MRT1	0	MRT2	FN1
Endothelial_Cell	MRT1	0	MRT2	FN1
Endothelial_Progenitor	MRT1	0	MRT2	FN1
Adipocyte	MRT1	0	MRT2	FN1
MRT1	MRT2	0	MRT2	FN1
MRT2	MRT2	0	MRT2	FN1
MRT4	MRT2	0	MRT2	FN1
TAM	MRT2	0	MRT2	FN1
Monocyte	MRT2	0	MRT2	FN1
T_NK	MRT2	0	MRT2	FN1
Fibroblast	MRT2	0.3610456077	MRT2	FN1
Endothelial_Cell	MRT2	0.1995310143	MRT2	FN1
Endothelial_Progenitor	MRT2	0.03670264233	MRT2	FN1
Adipocyte	MRT2	0	MRT2	FN1
MRT1	MRT4	0	MRT2	FN1
MRT2	MRT4	0	MRT2	FN1
MRT4	MRT4	0	MRT2	FN1

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	FN1
Monocyte	MRT4	0	MRT2	FN1
T_NK	MRT4	0	MRT2	FN1
Fibroblast	MRT4	0	MRT2	FN1
Endothelial_Cell	MRT4	0	MRT2	FN1
Endothelial_Progenitor	MRT4	0	MRT2	FN1
Adipocyte	MRT4	0	MRT2	FN1
MRT1	TAM	0	MRT2	FN1
MRT2	TAM	0	MRT2	FN1
MRT4	TAM	0	MRT2	FN1
TAM	TAM	0	MRT2	FN1
Monocyte	TAM	0	MRT2	FN1
T_NK	TAM	0	MRT2	FN1
Fibroblast	TAM	0.4276807941	MRT2	FN1
Endothelial_Cell	TAM	0.2313486778	MRT2	FN1
Endothelial_Progenitor	TAM	0.04165802349	MRT2	FN1
Adipocyte	TAM	0	MRT2	FN1
MRT1	Monocyte	0	MRT2	FN1
MRT2	Monocyte	0	MRT2	FN1
MRT4	Monocyte	0	MRT2	FN1
TAM	Monocyte	0	MRT2	FN1
Monocyte	Monocyte	0	MRT2	FN1
T_NK	Monocyte	0	MRT2	FN1
Fibroblast	Monocyte	0.4128601604	MRT2	FN1
Endothelial_Cell	Monocyte	0.2227903009	MRT2	FN1
Endothelial_Progenitor	Monocyte	0.01420424477	MRT2	FN1
Adipocyte	Monocyte	0	MRT2	FN1
MRT1	T_NK	0	MRT2	FN1
MRT2	T_NK	0	MRT2	FN1
MRT4	T_NK	0	MRT2	FN1

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	FN1
Monocyte	T_NK	0	MRT2	FN1
T_NK	T_NK	0	MRT2	FN1
Fibroblast	T_NK	0.4571362403	MRT2	FN1
Endothelial_Cell	T_NK	0.2506888929	MRT2	FN1
Endothelial_Progenitor	T_NK	0.04580495631	MRT2	FN1
Adipocyte	T_NK	0	MRT2	FN1
MRT1	Fibroblast	0	MRT2	FN1
MRT2	Fibroblast	0	MRT2	FN1
MRT4	Fibroblast	0	MRT2	FN1
TAM	Fibroblast	0	MRT2	FN1
Monocyte	Fibroblast	0	MRT2	FN1
T_NK	Fibroblast	0	MRT2	FN1
Fibroblast	Fibroblast	0.4009613339	MRT2	FN1
Endothelial_Cell	Fibroblast	0.216731838	MRT2	FN1
Endothelial_Progenitor	Fibroblast	0.02616853423	MRT2	FN1
Adipocyte	Fibroblast	0	MRT2	FN1
MRT1	Endothelial_Cell	0	MRT2	FN1
MRT2	Endothelial_Cell	0	MRT2	FN1
MRT4	Endothelial_Cell	0	MRT2	FN1
TAM	Endothelial_Cell	0	MRT2	FN1
Monocyte	Endothelial_Cell	0	MRT2	FN1
T_NK	Endothelial_Cell	0	MRT2	FN1
Fibroblast	Endothelial_Cell	0.4856856501	MRT2	FN1
Endothelial_Cell	Endothelial_Cell	0.2477570855	MRT2	FN1
Endothelial_Progenitor	Endothelial_Cell	0.04431748895	MRT2	FN1
Adipocyte	Endothelial_Cell	0	MRT2	FN1
MRT1	Endothelial_Progenitor	0	MRT2	FN1
MRT2	Endothelial_Progenitor	0	MRT2	FN1
MRT4	Endothelial_Progenitor	0	MRT2	FN1

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	FN1
Monocyte	Endothelial_Progenitor	0	MRT2	FN1
T_NK	Endothelial_Progenitor	0	MRT2	FN1
Fibroblast	Endothelial_Progenitor	0.4675126018	MRT2	FN1
Endothelial_Cell	Endothelial_Progenitor	0.2500517957	MRT2	FN1
Endothelial_Progenitor	Endothelial_Progenitor	0.03618496208	MRT2	FN1
Adipocyte	Endothelial_Progenitor	0	MRT2	FN1
MRT1	Adipocyte	0	MRT2	FN1
MRT2	Adipocyte	0	MRT2	FN1
MRT4	Adipocyte	0	MRT2	FN1
TAM	Adipocyte	0	MRT2	FN1
Monocyte	Adipocyte	0	MRT2	FN1
T_NK	Adipocyte	0	MRT2	FN1
Fibroblast	Adipocyte	0	MRT2	FN1
Endothelial_Cell	Adipocyte	0	MRT2	FN1
Endothelial_Progenitor	Adipocyte	0	MRT2	FN1
Adipocyte	Adipocyte	0	MRT2	FN1
MRT1	MRT1	0	MRT2	SPP1
MRT2	MRT1	0	MRT2	SPP1
MRT4	MRT1	0	MRT2	SPP1
TAM	MRT1	0	MRT2	SPP1
Monocyte	MRT1	0	MRT2	SPP1
T_NK	MRT1	0	MRT2	SPP1
Fibroblast	MRT1	0	MRT2	SPP1
Endothelial_Cell	MRT1	0	MRT2	SPP1
Endothelial_Progenitor	MRT1	0	MRT2	SPP1
Adipocyte	MRT1	0	MRT2	SPP1
MRT1	MRT2	0	MRT2	SPP1
MRT2	MRT2	0	MRT2	SPP1
MRT4	MRT2	0	MRT2	SPP1

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0.3530143254	MRT2	SPP1
Monocyte	MRT2	0	MRT2	SPP1
T_NK	MRT2	0	MRT2	SPP1
Fibroblast	MRT2	0	MRT2	SPP1
Endothelial_Cell	MRT2	0	MRT2	SPP1
Endothelial_Progenitor	MRT2	0.0403566958	MRT2	SPP1
Adipocyte	MRT2	0	MRT2	SPP1
MRT1	MRT4	0	MRT2	SPP1
MRT2	MRT4	0	MRT2	SPP1
MRT4	MRT4	0	MRT2	SPP1
TAM	MRT4	0	MRT2	SPP1
Monocyte	MRT4	0	MRT2	SPP1
T_NK	MRT4	0	MRT2	SPP1
Fibroblast	MRT4	0	MRT2	SPP1
Endothelial_Cell	MRT4	0	MRT2	SPP1
Endothelial_Progenitor	MRT4	0	MRT2	SPP1
Adipocyte	MRT4	0	MRT2	SPP1
MRT1	TAM	0	MRT2	SPP1
MRT2	TAM	0	MRT2	SPP1
MRT4	TAM	0	MRT2	SPP1
TAM	TAM	0.5894249317	MRT2	SPP1
Monocyte	TAM	0	MRT2	SPP1
T_NK	TAM	0	MRT2	SPP1
Fibroblast	TAM	0	MRT2	SPP1
Endothelial_Cell	TAM	0	MRT2	SPP1
Endothelial_Progenitor	TAM	0.06366155682	MRT2	SPP1
Adipocyte	TAM	0	MRT2	SPP1
MRT1	Monocyte	0	MRT2	SPP1
MRT2	Monocyte	0	MRT2	SPP1
MRT4	Monocyte	0	MRT2	SPP1

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0.4031940693	MRT2	SPP1
Monocyte	Monocyte	0	MRT2	SPP1
T_NK	Monocyte	0	MRT2	SPP1
Fibroblast	Monocyte	0	MRT2	SPP1
Endothelial_Cell	Monocyte	0	MRT2	SPP1
Endothelial_Progenitor	Monocyte	0.04403162408	MRT2	SPP1
Adipocyte	Monocyte	0	MRT2	SPP1
MRT1	T_NK	0	MRT2	SPP1
MRT2	T_NK	0	MRT2	SPP1
MRT4	T_NK	0	MRT2	SPP1
TAM	T_NK	0.4467836203	MRT2	SPP1
Monocyte	T_NK	0	MRT2	SPP1
T_NK	T_NK	0	MRT2	SPP1
Fibroblast	T_NK	0	MRT2	SPP1
Endothelial_Cell	T_NK	0	MRT2	SPP1
Endothelial_Progenitor	T_NK	0.05037221183	MRT2	SPP1
Adipocyte	T_NK	0	MRT2	SPP1
MRT1	Fibroblast	0	MRT2	SPP1
MRT2	Fibroblast	0	MRT2	SPP1
MRT4	Fibroblast	0	MRT2	SPP1
TAM	Fibroblast	0.5148121277	MRT2	SPP1
Monocyte	Fibroblast	0	MRT2	SPP1
T_NK	Fibroblast	0	MRT2	SPP1
Fibroblast	Fibroblast	0	MRT2	SPP1
Endothelial_Cell	Fibroblast	0	MRT2	SPP1
Endothelial_Progenitor	Fibroblast	0.05620370818	MRT2	SPP1
Adipocyte	Fibroblast	0	MRT2	SPP1
MRT1	Endothelial_Cell	0	MRT2	SPP1
MRT2	Endothelial_Cell	0	MRT2	SPP1
MRT4	Endothelial_Cell	0	MRT2	SPP1

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0.7056067002	MRT2	SPP1
Monocyte	Endothelial_Cell	0	MRT2	SPP1
T_NK	Endothelial_Cell	0	MRT2	SPP1
Fibroblast	Endothelial_Cell	0	MRT2	SPP1
Endothelial_Cell	Endothelial_Cell	0	MRT2	SPP1
Endothelial_Progenitor	Endothelial_Cell	0.07680575654	MRT2	SPP1
Adipocyte	Endothelial_Cell	0	MRT2	SPP1
MRT1	Endothelial_Progenitor	0	MRT2	SPP1
MRT2	Endothelial_Progenitor	0	MRT2	SPP1
MRT4	Endothelial_Progenitor	0	MRT2	SPP1
TAM	Endothelial_Progenitor	0.6207569494	MRT2	SPP1
Monocyte	Endothelial_Progenitor	0	MRT2	SPP1
T_NK	Endothelial_Progenitor	0	MRT2	SPP1
Fibroblast	Endothelial_Progenitor	0	MRT2	SPP1
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	SPP1
Endothelial_Progenitor	Endothelial_Progenitor	0.0583116751	MRT2	SPP1
Adipocyte	Endothelial_Progenitor	0	MRT2	SPP1
MRT1	Adipocyte	0	MRT2	SPP1
MRT2	Adipocyte	0	MRT2	SPP1
MRT4	Adipocyte	0	MRT2	SPP1
TAM	Adipocyte	0	MRT2	SPP1
Monocyte	Adipocyte	0	MRT2	SPP1
T_NK	Adipocyte	0	MRT2	SPP1
Fibroblast	Adipocyte	0	MRT2	SPP1
Endothelial_Cell	Adipocyte	0	MRT2	SPP1
Endothelial_Progenitor	Adipocyte	0	MRT2	SPP1
Adipocyte	Adipocyte	0	MRT2	SPP1
MRT1	MRT1	0	MRT2	SEMA3
MRT2	MRT1	0	MRT2	SEMA3
MRT4	MRT1	0	MRT2	SEMA3

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	SEMA3
Monocyte	MRT1	0	MRT2	SEMA3
T_NK	MRT1	0	MRT2	SEMA3
Fibroblast	MRT1	0	MRT2	SEMA3
Endothelial_Cell	MRT1	0	MRT2	SEMA3
Endothelial_Progenitor	MRT1	0	MRT2	SEMA3
Adipocyte	MRT1	0	MRT2	SEMA3
MRT1	MRT2	0	MRT2	SEMA3
MRT2	MRT2	0.03429720517	MRT2	SEMA3
MRT4	MRT2	0	MRT2	SEMA3
TAM	MRT2	0	MRT2	SEMA3
Monocyte	MRT2	0	MRT2	SEMA3
T_NK	MRT2	0	MRT2	SEMA3
Fibroblast	MRT2	0	MRT2	SEMA3
Endothelial_Cell	MRT2	0	MRT2	SEMA3
Endothelial_Progenitor	MRT2	0.006463261734	MRT2	SEMA3
Adipocyte	MRT2	0	MRT2	SEMA3
MRT1	MRT4	0	MRT2	SEMA3
MRT2	MRT4	0	MRT2	SEMA3
MRT4	MRT4	0	MRT2	SEMA3
TAM	MRT4	0	MRT2	SEMA3
Monocyte	MRT4	0	MRT2	SEMA3
T_NK	MRT4	0	MRT2	SEMA3
Fibroblast	MRT4	0	MRT2	SEMA3
Endothelial_Cell	MRT4	0	MRT2	SEMA3
Endothelial_Progenitor	MRT4	0	MRT2	SEMA3
Adipocyte	MRT4	0	MRT2	SEMA3
MRT1	TAM	0	MRT2	SEMA3
MRT2	TAM	0.2001830621	MRT2	SEMA3
MRT4	TAM	0	MRT2	SEMA3

Source	Target	Probability	Sample	Pathway
TAM	TAM	0.04250028349	MRT2	SEMA3
Monocyte	TAM	0.04755562424	MRT2	SEMA3
T_NK	TAM	0.05636153522	MRT2	SEMA3
Fibroblast	TAM	0.0270162281	MRT2	SEMA3
Endothelial_Cell	TAM	0.09509171163	MRT2	SEMA3
Endothelial_Progenitor	TAM	0.03028383364	MRT2	SEMA3
Adipocyte	TAM	0	MRT2	SEMA3
MRT1	Monocyte	0	MRT2	SEMA3
MRT2	Monocyte	0	MRT2	SEMA3
MRT4	Monocyte	0	MRT2	SEMA3
TAM	Monocyte	0	MRT2	SEMA3
Monocyte	Monocyte	0	MRT2	SEMA3
T_NK	Monocyte	0	MRT2	SEMA3
Fibroblast	Monocyte	0	MRT2	SEMA3
Endothelial_Cell	Monocyte	0	MRT2	SEMA3
Endothelial_Progenitor	Monocyte	0.005408035276	MRT2	SEMA3
Adipocyte	Monocyte	0	MRT2	SEMA3
MRT1	T_NK	0	MRT2	SEMA3
MRT2	T_NK	0.03545941838	MRT2	SEMA3
MRT4	T_NK	0	MRT2	SEMA3
TAM	T_NK	0.02190653064	MRT2	SEMA3
Monocyte	T_NK	0.02550449127	MRT2	SEMA3
T_NK	T_NK	0.0291024519	MRT2	SEMA3
Fibroblast	T_NK	0.01463121077	MRT2	SEMA3
Endothelial_Cell	T_NK	0.007355890898	MRT2	SEMA3
Endothelial_Progenitor	T_NK	0.02701323098	MRT2	SEMA3
Adipocyte	T_NK	0	MRT2	SEMA3
MRT1	Fibroblast	0	MRT2	SEMA3
MRT2	Fibroblast	0.1193382835	MRT2	SEMA3
MRT4	Fibroblast	0	MRT2	SEMA3

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0.01562395453	MRT2	SEMA3
Monocyte	Fibroblast	0.01562395453	MRT2	SEMA3
T_NK	Fibroblast	0.02076743999	MRT2	SEMA3
Fibroblast	Fibroblast	0.01562395453	MRT2	SEMA3
Endothelial_Cell	Fibroblast	0.005240570397	MRT2	SEMA3
Endothelial_Progenitor	Fibroblast	0.01854759834	MRT2	SEMA3
Adipocyte	Fibroblast	0	MRT2	SEMA3
MRT1	Endothelial_Cell	0	MRT2	SEMA3
MRT2	Endothelial_Cell	0.1593691951	MRT2	SEMA3
MRT4	Endothelial_Cell	0	MRT2	SEMA3
TAM	Endothelial_Cell	0.02803393751	MRT2	SEMA3
Monocyte	Endothelial_Cell	0.02803393751	MRT2	SEMA3
T_NK	Endothelial_Cell	0.07603248448	MRT2	SEMA3
Fibroblast	Endothelial_Cell	0.02803393751	MRT2	SEMA3
Endothelial_Cell	Endothelial_Cell	0.009522616798	MRT2	SEMA3
Endothelial_Progenitor	Endothelial_Cell	0.03807770668	MRT2	SEMA3
Adipocyte	Endothelial_Cell	0	MRT2	SEMA3
MRT1	Endothelial_Progenitor	0	MRT2	SEMA3
MRT2	Endothelial_Progenitor	0.5626950658	MRT2	SEMA3
MRT4	Endothelial_Progenitor	0	MRT2	SEMA3
TAM	Endothelial_Progenitor	0.2251530791	MRT2	SEMA3
Monocyte	Endothelial_Progenitor	0.258896912	MRT2	SEMA3
T_NK	Endothelial_Progenitor	0.3079749054	MRT2	SEMA3
Fibroblast	Endothelial_Progenitor	0.1970845126	MRT2	SEMA3
Endothelial_Cell	Endothelial_Progenitor	0.242899942	MRT2	SEMA3
Endothelial_Progenitor	Endothelial_Progenitor	0.2224109007	MRT2	SEMA3
Adipocyte	Endothelial_Progenitor	0	MRT2	SEMA3
MRT1	Adipocyte	0	MRT2	SEMA3
MRT2	Adipocyte	0	MRT2	SEMA3
MRT4	Adipocyte	0	MRT2	SEMA3

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	SEMA3
Monocyte	Adipocyte	0	MRT2	SEMA3
T_NK	Adipocyte	0	MRT2	SEMA3
Fibroblast	Adipocyte	0	MRT2	SEMA3
Endothelial_Cell	Adipocyte	0	MRT2	SEMA3
Endothelial_Progenitor	Adipocyte	0	MRT2	SEMA3
Adipocyte	Adipocyte	0	MRT2	SEMA3
MRT1	MRT1	0	MRT2	PTPRM
MRT2	MRT1	0	MRT2	PTPRM
MRT4	MRT1	0	MRT2	PTPRM
TAM	MRT1	0	MRT2	PTPRM
Monocyte	MRT1	0	MRT2	PTPRM
T_NK	MRT1	0	MRT2	PTPRM
Fibroblast	MRT1	0	MRT2	PTPRM
Endothelial_Cell	MRT1	0	MRT2	PTPRM
Endothelial_Progenitor	MRT1	0	MRT2	PTPRM
Adipocyte	MRT1	0	MRT2	PTPRM
MRT1	MRT2	0	MRT2	PTPRM
MRT2	MRT2	0	MRT2	PTPRM
MRT4	MRT2	0	MRT2	PTPRM
TAM	MRT2	0	MRT2	PTPRM
Monocyte	MRT2	0	MRT2	PTPRM
T_NK	MRT2	0	MRT2	PTPRM
Fibroblast	MRT2	0	MRT2	PTPRM
Endothelial_Cell	MRT2	0	MRT2	PTPRM
Endothelial_Progenitor	MRT2	0	MRT2	PTPRM
Adipocyte	MRT2	0	MRT2	PTPRM
MRT1	MRT4	0	MRT2	PTPRM
MRT2	MRT4	0	MRT2	PTPRM
MRT4	MRT4	0	MRT2	PTPRM

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	PTPRM
Monocyte	MRT4	0	MRT2	PTPRM
T_NK	MRT4	0	MRT2	PTPRM
Fibroblast	MRT4	0	MRT2	PTPRM
Endothelial_Cell	MRT4	0	MRT2	PTPRM
Endothelial_Progenitor	MRT4	0	MRT2	PTPRM
Adipocyte	MRT4	0	MRT2	PTPRM
MRT1	TAM	0	MRT2	PTPRM
MRT2	TAM	0	MRT2	PTPRM
MRT4	TAM	0	MRT2	PTPRM
TAM	TAM	0.0463071702	MRT2	PTPRM
Monocyte	TAM	0	MRT2	PTPRM
T_NK	TAM	0	MRT2	PTPRM
Fibroblast	TAM	0.0783588502	MRT2	PTPRM
Endothelial_Cell	TAM	0.1040795176	MRT2	PTPRM
Endothelial_Progenitor	TAM	0.1197591614	MRT2	PTPRM
Adipocyte	TAM	0	MRT2	PTPRM
MRT1	Monocyte	0	MRT2	PTPRM
MRT2	Monocyte	0	MRT2	PTPRM
MRT4	Monocyte	0	MRT2	PTPRM
TAM	Monocyte	0	MRT2	PTPRM
Monocyte	Monocyte	0	MRT2	PTPRM
T_NK	Monocyte	0	MRT2	PTPRM
Fibroblast	Monocyte	0	MRT2	PTPRM
Endothelial_Cell	Monocyte	0	MRT2	PTPRM
Endothelial_Progenitor	Monocyte	0	MRT2	PTPRM
Adipocyte	Monocyte	0	MRT2	PTPRM
MRT1	T_NK	0	MRT2	PTPRM
MRT2	T_NK	0	MRT2	PTPRM
MRT4	T_NK	0	MRT2	PTPRM

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	PTPRM
Monocyte	T_NK	0	MRT2	PTPRM
T_NK	T_NK	0	MRT2	PTPRM
Fibroblast	T_NK	0	MRT2	PTPRM
Endothelial_Cell	T_NK	0	MRT2	PTPRM
Endothelial_Progenitor	T_NK	0	MRT2	PTPRM
Adipocyte	T_NK	0	MRT2	PTPRM
MRT1	Fibroblast	0	MRT2	PTPRM
MRT2	Fibroblast	0	MRT2	PTPRM
MRT4	Fibroblast	0	MRT2	PTPRM
TAM	Fibroblast	0.0783588502	MRT2	PTPRM
Monocyte	Fibroblast	0	MRT2	PTPRM
T_NK	Fibroblast	0	MRT2	PTPRM
Fibroblast	Fibroblast	0.1295809236	MRT2	PTPRM
Endothelial_Cell	Fibroblast	0.1690312392	MRT2	PTPRM
Endothelial_Progenitor	Fibroblast	0.1923946147	MRT2	PTPRM
Adipocyte	Fibroblast	0	MRT2	PTPRM
MRT1	Endothelial_Cell	0	MRT2	PTPRM
MRT2	Endothelial_Cell	0	MRT2	PTPRM
MRT4	Endothelial_Cell	0	MRT2	PTPRM
TAM	Endothelial_Cell	0.1040795176	MRT2	PTPRM
Monocyte	Endothelial_Cell	0	MRT2	PTPRM
T_NK	Endothelial_Cell	0	MRT2	PTPRM
Fibroblast	Endothelial_Cell	0.1690312392	MRT2	PTPRM
Endothelial_Cell	Endothelial_Cell	0.2174909752	MRT2	PTPRM
Endothelial_Progenitor	Endothelial_Cell	0.2455729659	MRT2	PTPRM
Adipocyte	Endothelial_Cell	0	MRT2	PTPRM
MRT1	Endothelial_Progenitor	0	MRT2	PTPRM
MRT2	Endothelial_Progenitor	0	MRT2	PTPRM
MRT4	Endothelial_Progenitor	0	MRT2	PTPRM

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0.1197591614	MRT2	PTPRM
Monocyte	Endothelial_Progenitor	0	MRT2	PTPRM
T_NK	Endothelial_Progenitor	0	MRT2	PTPRM
Fibroblast	Endothelial_Progenitor	0.1923946147	MRT2	PTPRM
Endothelial_Cell	Endothelial_Progenitor	0.2455729659	MRT2	PTPRM
Endothelial_Progenitor	Endothelial_Progenitor	0.2760019437	MRT2	PTPRM
Adipocyte	Endothelial_Progenitor	0	MRT2	PTPRM
MRT1	Adipocyte	0	MRT2	PTPRM
MRT2	Adipocyte	0	MRT2	PTPRM
MRT4	Adipocyte	0	MRT2	PTPRM
TAM	Adipocyte	0	MRT2	PTPRM
Monocyte	Adipocyte	0	MRT2	PTPRM
T_NK	Adipocyte	0	MRT2	PTPRM
Fibroblast	Adipocyte	0	MRT2	PTPRM
Endothelial_Cell	Adipocyte	0	MRT2	PTPRM
Endothelial_Progenitor	Adipocyte	0	MRT2	PTPRM
Adipocyte	Adipocyte	0	MRT2	PTPRM
MRT1	MRT1	0	MRT2	APP
MRT2	MRT1	0	MRT2	APP
MRT4	MRT1	0	MRT2	APP
TAM	MRT1	0	MRT2	APP
Monocyte	MRT1	0	MRT2	APP
T_NK	MRT1	0	MRT2	APP
Fibroblast	MRT1	0	MRT2	APP
Endothelial_Cell	MRT1	0	MRT2	APP
Endothelial_Progenitor	MRT1	0	MRT2	APP
Adipocyte	MRT1	0	MRT2	APP
MRT1	MRT2	0	MRT2	APP
MRT2	MRT2	0	MRT2	APP
MRT4	MRT2	0	MRT2	APP

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	APP
Monocyte	MRT2	0	MRT2	APP
T_NK	MRT2	0	MRT2	APP
Fibroblast	MRT2	0	MRT2	APP
Endothelial_Cell	MRT2	0	MRT2	APP
Endothelial_Progenitor	MRT2	0	MRT2	APP
Adipocyte	MRT2	0	MRT2	APP
MRT1	MRT4	0	MRT2	APP
MRT2	MRT4	0	MRT2	APP
MRT4	MRT4	0	MRT2	APP
TAM	MRT4	0	MRT2	APP
Monocyte	MRT4	0	MRT2	APP
T_NK	MRT4	0	MRT2	APP
Fibroblast	MRT4	0	MRT2	APP
Endothelial_Cell	MRT4	0	MRT2	APP
Endothelial_Progenitor	MRT4	0	MRT2	APP
Adipocyte	MRT4	0	MRT2	APP
MRT1	TAM	0	MRT2	APP
MRT2	TAM	0.1053765299	MRT2	APP
MRT4	TAM	0	MRT2	APP
TAM	TAM	0.0672396749	MRT2	APP
Monocyte	TAM	0.08558498302	MRT2	APP
T_NK	TAM	0.0620043485	MRT2	APP
Fibroblast	TAM	0.08558498302	MRT2	APP
Endothelial_Cell	TAM	0.1910917954	MRT2	APP
Endothelial_Progenitor	TAM	0.1687150936	MRT2	APP
Adipocyte	TAM	0	MRT2	APP
MRT1	Monocyte	0	MRT2	APP
MRT2	Monocyte	0.1505320388	MRT2	APP
MRT4	Monocyte	0	MRT2	APP

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0.09784020289	MRT2	APP
Monocyte	Monocyte	0.1234296085	MRT2	APP
T_NK	Monocyte	0.09045334646	MRT2	APP
Fibroblast	Monocyte	0.1234296085	MRT2	APP
Endothelial_Cell	Monocyte	0.2622120711	MRT2	APP
Endothelial_Progenitor	Monocyte	0.2339155215	MRT2	APP
Adipocyte	Monocyte	0	MRT2	APP
MRT1	T_NK	0	MRT2	APP
MRT2	T_NK	0.02339552649	MRT2	APP
MRT4	T_NK	0	MRT2	APP
TAM	T_NK	0.01444924133	MRT2	APP
Monocyte	T_NK	0.01867993693	MRT2	APP
T_NK	T_NK	0.01326575682	MRT2	APP
Fibroblast	T_NK	0.01867993693	MRT2	APP
Endothelial_Cell	T_NK	0.04584301198	MRT2	APP
Endothelial_Progenitor	T_NK	0.03964131202	MRT2	APP
Adipocyte	T_NK	0	MRT2	APP
MRT1	Fibroblast	0	MRT2	APP
MRT2	Fibroblast	0	MRT2	APP
MRT4	Fibroblast	0	MRT2	APP
TAM	Fibroblast	0	MRT2	APP
Monocyte	Fibroblast	0	MRT2	APP
T_NK	Fibroblast	0	MRT2	APP
Fibroblast	Fibroblast	0	MRT2	APP
Endothelial_Cell	Fibroblast	0	MRT2	APP
Endothelial_Progenitor	Fibroblast	0	MRT2	APP
Adipocyte	Fibroblast	0	MRT2	APP
MRT1	Endothelial_Cell	0	MRT2	APP
MRT2	Endothelial_Cell	0	MRT2	APP
MRT4	Endothelial_Cell	0	MRT2	APP

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	APP
Monocyte	Endothelial_Cell	0	MRT2	APP
T_NK	Endothelial_Cell	0	MRT2	APP
Fibroblast	Endothelial_Cell	0	MRT2	APP
Endothelial_Cell	Endothelial_Cell	0	MRT2	APP
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	APP
Adipocyte	Endothelial_Cell	0	MRT2	APP
MRT1	Endothelial_Progenitor	0	MRT2	APP
MRT2	Endothelial_Progenitor	0	MRT2	APP
MRT4	Endothelial_Progenitor	0	MRT2	APP
TAM	Endothelial_Progenitor	0	MRT2	APP
Monocyte	Endothelial_Progenitor	0	MRT2	APP
T_NK	Endothelial_Progenitor	0	MRT2	APP
Fibroblast	Endothelial_Progenitor	0	MRT2	APP
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	APP
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	APP
Adipocyte	Endothelial_Progenitor	0	MRT2	APP
MRT1	Adipocyte	0	MRT2	APP
MRT2	Adipocyte	0	MRT2	APP
MRT4	Adipocyte	0	MRT2	APP
TAM	Adipocyte	0	MRT2	APP
Monocyte	Adipocyte	0	MRT2	APP
T_NK	Adipocyte	0	MRT2	APP
Fibroblast	Adipocyte	0	MRT2	APP
Endothelial_Cell	Adipocyte	0	MRT2	APP
Endothelial_Progenitor	Adipocyte	0	MRT2	APP
Adipocyte	Adipocyte	0	MRT2	APP
MRT1	MRT1	0	MRT2	VEGF
MRT2	MRT1	0	MRT2	VEGF
MRT4	MRT1	0	MRT2	VEGF

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	VEGF
Monocyte	MRT1	0	MRT2	VEGF
T_NK	MRT1	0	MRT2	VEGF
Fibroblast	MRT1	0	MRT2	VEGF
Endothelial_Cell	MRT1	0	MRT2	VEGF
Endothelial_Progenitor	MRT1	0	MRT2	VEGF
Adipocyte	MRT1	0	MRT2	VEGF
MRT1	MRT2	0	MRT2	VEGF
MRT2	MRT2	0	MRT2	VEGF
MRT4	MRT2	0	MRT2	VEGF
TAM	MRT2	0	MRT2	VEGF
Monocyte	MRT2	0	MRT2	VEGF
T_NK	MRT2	0	MRT2	VEGF
Fibroblast	MRT2	0	MRT2	VEGF
Endothelial_Cell	MRT2	0	MRT2	VEGF
Endothelial_Progenitor	MRT2	0	MRT2	VEGF
Adipocyte	MRT2	0	MRT2	VEGF
MRT1	MRT4	0	MRT2	VEGF
MRT2	MRT4	0	MRT2	VEGF
MRT4	MRT4	0	MRT2	VEGF
TAM	MRT4	0	MRT2	VEGF
Monocyte	MRT4	0	MRT2	VEGF
T_NK	MRT4	0	MRT2	VEGF
Fibroblast	MRT4	0	MRT2	VEGF
Endothelial_Cell	MRT4	0	MRT2	VEGF
Endothelial_Progenitor	MRT4	0	MRT2	VEGF
Adipocyte	MRT4	0	MRT2	VEGF
MRT1	TAM	0	MRT2	VEGF
MRT2	TAM	0	MRT2	VEGF
MRT4	TAM	0	MRT2	VEGF

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	VEGF
Monocyte	TAM	0	MRT2	VEGF
T_NK	TAM	0	MRT2	VEGF
Fibroblast	TAM	0	MRT2	VEGF
Endothelial_Cell	TAM	0	MRT2	VEGF
Endothelial_Progenitor	TAM	0	MRT2	VEGF
Adipocyte	TAM	0	MRT2	VEGF
MRT1	Monocyte	0	MRT2	VEGF
MRT2	Monocyte	0	MRT2	VEGF
MRT4	Monocyte	0	MRT2	VEGF
TAM	Monocyte	0	MRT2	VEGF
Monocyte	Monocyte	0	MRT2	VEGF
T_NK	Monocyte	0	MRT2	VEGF
Fibroblast	Monocyte	0	MRT2	VEGF
Endothelial_Cell	Monocyte	0	MRT2	VEGF
Endothelial_Progenitor	Monocyte	0	MRT2	VEGF
Adipocyte	Monocyte	0	MRT2	VEGF
MRT1	T_NK	0	MRT2	VEGF
MRT2	T_NK	0	MRT2	VEGF
MRT4	T_NK	0	MRT2	VEGF
TAM	T_NK	0	MRT2	VEGF
Monocyte	T_NK	0	MRT2	VEGF
T_NK	T_NK	0	MRT2	VEGF
Fibroblast	T_NK	0	MRT2	VEGF
Endothelial_Cell	T_NK	0	MRT2	VEGF
Endothelial_Progenitor	T_NK	0	MRT2	VEGF
Adipocyte	T_NK	0	MRT2	VEGF
MRT1	Fibroblast	0	MRT2	VEGF
MRT2	Fibroblast	0	MRT2	VEGF
MRT4	Fibroblast	0	MRT2	VEGF

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	VEGF
Monocyte	Fibroblast	0	MRT2	VEGF
T_NK	Fibroblast	0	MRT2	VEGF
Fibroblast	Fibroblast	0	MRT2	VEGF
Endothelial_Cell	Fibroblast	0	MRT2	VEGF
Endothelial_Progenitor	Fibroblast	0	MRT2	VEGF
Adipocyte	Fibroblast	0	MRT2	VEGF
MRT1	Endothelial_Cell	0	MRT2	VEGF
MRT2	Endothelial_Cell	0.3026100948	MRT2	VEGF
MRT4	Endothelial_Cell	0	MRT2	VEGF
TAM	Endothelial_Cell	0.1211756867	MRT2	VEGF
Monocyte	Endothelial_Cell	0.159404376	MRT2	VEGF
T_NK	Endothelial_Cell	0.159404376	MRT2	VEGF
Fibroblast	Endothelial_Cell	0.140324419	MRT2	VEGF
Endothelial_Cell	Endothelial_Cell	0.04151912512	MRT2	VEGF
Endothelial_Progenitor	Endothelial_Cell	0.2295373861	MRT2	VEGF
Adipocyte	Endothelial_Cell	0	MRT2	VEGF
MRT1	Endothelial_Progenitor	0	MRT2	VEGF
MRT2	Endothelial_Progenitor	0.1739490036	MRT2	VEGF
MRT4	Endothelial_Progenitor	0	MRT2	VEGF
TAM	Endothelial_Progenitor	0.06873267483	MRT2	VEGF
Monocyte	Endothelial_Progenitor	0.09066375808	MRT2	VEGF
T_NK	Endothelial_Progenitor	0.09066375808	MRT2	VEGF
Fibroblast	Endothelial_Progenitor	0.160688153	MRT2	VEGF
Endothelial_Cell	Endothelial_Progenitor	0.04559616875	MRT2	VEGF
Endothelial_Progenitor	Endothelial_Progenitor	0.1312227796	MRT2	VEGF
Adipocyte	Endothelial_Progenitor	0	MRT2	VEGF
MRT1	Adipocyte	0	MRT2	VEGF
MRT2	Adipocyte	0	MRT2	VEGF
MRT4	Adipocyte	0	MRT2	VEGF

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	VEGF
Monocyte	Adipocyte	0	MRT2	VEGF
T_NK	Adipocyte	0	MRT2	VEGF
Fibroblast	Adipocyte	0	MRT2	VEGF
Endothelial_Cell	Adipocyte	0	MRT2	VEGF
Endothelial_Progenitor	Adipocyte	0	MRT2	VEGF
Adipocyte	Adipocyte	0	MRT2	VEGF
MRT1	MRT1	0	MRT2	VISFATIN
MRT2	MRT1	0	MRT2	VISFATIN
MRT4	MRT1	0	MRT2	VISFATIN
TAM	MRT1	0	MRT2	VISFATIN
Monocyte	MRT1	0	MRT2	VISFATIN
T_NK	MRT1	0	MRT2	VISFATIN
Fibroblast	MRT1	0	MRT2	VISFATIN
Endothelial_Cell	MRT1	0	MRT2	VISFATIN
Endothelial_Progenitor	MRT1	0	MRT2	VISFATIN
Adipocyte	MRT1	0	MRT2	VISFATIN
MRT1	MRT2	0	MRT2	VISFATIN
MRT2	MRT2	0	MRT2	VISFATIN
MRT4	MRT2	0	MRT2	VISFATIN
TAM	MRT2	0.0160788418	MRT2	VISFATIN
Monocyte	MRT2	0.01225050658	MRT2	VISFATIN
T_NK	MRT2	0	MRT2	VISFATIN
Fibroblast	MRT2	0	MRT2	VISFATIN
Endothelial_Cell	MRT2	0	MRT2	VISFATIN
Endothelial_Progenitor	MRT2	0.002318339467	MRT2	VISFATIN
Adipocyte	MRT2	0	MRT2	VISFATIN
MRT1	MRT4	0	MRT2	VISFATIN
MRT2	MRT4	0	MRT2	VISFATIN
MRT4	MRT4	0	MRT2	VISFATIN

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	VISFATIN
Monocyte	MRT4	0	MRT2	VISFATIN
T_NK	MRT4	0	MRT2	VISFATIN
Fibroblast	MRT4	0	MRT2	VISFATIN
Endothelial_Cell	MRT4	0	MRT2	VISFATIN
Endothelial_Progenitor	MRT4	0	MRT2	VISFATIN
Adipocyte	MRT4	0	MRT2	VISFATIN
MRT1	TAM	0	MRT2	VISFATIN
MRT2	TAM	0	MRT2	VISFATIN
MRT4	TAM	0	MRT2	VISFATIN
TAM	TAM	0	MRT2	VISFATIN
Monocyte	TAM	0	MRT2	VISFATIN
T_NK	TAM	0	MRT2	VISFATIN
Fibroblast	TAM	0	MRT2	VISFATIN
Endothelial_Cell	TAM	0	MRT2	VISFATIN
Endothelial_Progenitor	TAM	0	MRT2	VISFATIN
Adipocyte	TAM	0	MRT2	VISFATIN
MRT1	Monocyte	0	MRT2	VISFATIN
MRT2	Monocyte	0	MRT2	VISFATIN
MRT4	Monocyte	0	MRT2	VISFATIN
TAM	Monocyte	0.02524690109	MRT2	VISFATIN
Monocyte	Monocyte	0.01927844255	MRT2	VISFATIN
T_NK	Monocyte	0	MRT2	VISFATIN
Fibroblast	Monocyte	0	MRT2	VISFATIN
Endothelial_Cell	Monocyte	0	MRT2	VISFATIN
Endothelial_Progenitor	Monocyte	0	MRT2	VISFATIN
Adipocyte	Monocyte	0	MRT2	VISFATIN
MRT1	T_NK	0	MRT2	VISFATIN
MRT2	T_NK	0	MRT2	VISFATIN
MRT4	T_NK	0	MRT2	VISFATIN

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	VISFATIN
Monocyte	T_NK	0	MRT2	VISFATIN
T_NK	T_NK	0	MRT2	VISFATIN
Fibroblast	T_NK	0	MRT2	VISFATIN
Endothelial_Cell	T_NK	0	MRT2	VISFATIN
Endothelial_Progenitor	T_NK	0	MRT2	VISFATIN
Adipocyte	T_NK	0	MRT2	VISFATIN
MRT1	Fibroblast	0	MRT2	VISFATIN
MRT2	Fibroblast	0.006067008004	MRT2	VISFATIN
MRT4	Fibroblast	0	MRT2	VISFATIN
TAM	Fibroblast	0.06370294813	MRT2	VISFATIN
Monocyte	Fibroblast	0.04910129017	MRT2	VISFATIN
T_NK	Fibroblast	0.009581974018	MRT2	VISFATIN
Fibroblast	Fibroblast	0.006067008004	MRT2	VISFATIN
Endothelial_Cell	Fibroblast	0.006067008004	MRT2	VISFATIN
Endothelial_Progenitor	Fibroblast	0.009581974018	MRT2	VISFATIN
Adipocyte	Fibroblast	0	MRT2	VISFATIN
MRT1	Endothelial_Cell	0	MRT2	VISFATIN
MRT2	Endothelial_Cell	0.008192930982	MRT2	VISFATIN
MRT4	Endothelial_Cell	0	MRT2	VISFATIN
TAM	Endothelial_Cell	0.1003906005	MRT2	VISFATIN
Monocyte	Endothelial_Cell	0.07756629702	MRT2	VISFATIN
T_NK	Endothelial_Cell	0.01524189098	MRT2	VISFATIN
Fibroblast	Endothelial_Cell	0.008192930982	MRT2	VISFATIN
Endothelial_Cell	Endothelial_Cell	0.008192930982	MRT2	VISFATIN
Endothelial_Progenitor	Endothelial_Cell	0.01524189098	MRT2	VISFATIN
Adipocyte	Endothelial_Cell	0	MRT2	VISFATIN
MRT1	Endothelial_Progenitor	0	MRT2	VISFATIN
MRT2	Endothelial_Progenitor	0.0294025042	MRT2	VISFATIN
MRT4	Endothelial_Progenitor	0	MRT2	VISFATIN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0.2740703241	MRT2	VISFATIN
Monocyte	Endothelial_Progenitor	0.2172748651	MRT2	VISFATIN
T_NK	Endothelial_Progenitor	0.04607049006	MRT2	VISFATIN
Fibroblast	Endothelial_Progenitor	0.0294025042	MRT2	VISFATIN
Endothelial_Cell	Endothelial_Progenitor	0.0294025042	MRT2	VISFATIN
Endothelial_Progenitor	Endothelial_Progenitor	0.04607049006	MRT2	VISFATIN
Adipocyte	Endothelial_Progenitor	0	MRT2	VISFATIN
MRT1	Adipocyte	0	MRT2	VISFATIN
MRT2	Adipocyte	0	MRT2	VISFATIN
MRT4	Adipocyte	0	MRT2	VISFATIN
TAM	Adipocyte	0	MRT2	VISFATIN
Monocyte	Adipocyte	0	MRT2	VISFATIN
T_NK	Adipocyte	0	MRT2	VISFATIN
Fibroblast	Adipocyte	0	MRT2	VISFATIN
Endothelial_Cell	Adipocyte	0	MRT2	VISFATIN
Endothelial_Progenitor	Adipocyte	0	MRT2	VISFATIN
Adipocyte	Adipocyte	0	MRT2	VISFATIN
MRT1	MRT1	0	MRT2	THBS
MRT2	MRT1	0	MRT2	THBS
MRT4	MRT1	0	MRT2	THBS
TAM	MRT1	0	MRT2	THBS
Monocyte	MRT1	0	MRT2	THBS
T_NK	MRT1	0	MRT2	THBS
Fibroblast	MRT1	0	MRT2	THBS
Endothelial_Cell	MRT1	0	MRT2	THBS
Endothelial_Progenitor	MRT1	0	MRT2	THBS
Adipocyte	MRT1	0	MRT2	THBS
MRT1	MRT2	0	MRT2	THBS
MRT2	MRT2	0.05834173606	MRT2	THBS
MRT4	MRT2	0	MRT2	THBS

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	THBS
Monocyte	MRT2	0	MRT2	THBS
T_NK	MRT2	0	MRT2	THBS
Fibroblast	MRT2	0.2363241617	MRT2	THBS
Endothelial_Cell	MRT2	0	MRT2	THBS
Endothelial_Progenitor	MRT2	0.02917086803	MRT2	THBS
Adipocyte	MRT2	0	MRT2	THBS
MRT1	MRT4	0	MRT2	THBS
MRT2	MRT4	0	MRT2	THBS
MRT4	MRT4	0	MRT2	THBS
TAM	MRT4	0	MRT2	THBS
Monocyte	MRT4	0	MRT2	THBS
T_NK	MRT4	0	MRT2	THBS
Fibroblast	MRT4	0	MRT2	THBS
Endothelial_Cell	MRT4	0	MRT2	THBS
Endothelial_Progenitor	MRT4	0	MRT2	THBS
Adipocyte	MRT4	0	MRT2	THBS
MRT1	TAM	0	MRT2	THBS
MRT2	TAM	0	MRT2	THBS
MRT4	TAM	0	MRT2	THBS
TAM	TAM	0	MRT2	THBS
Monocyte	TAM	0	MRT2	THBS
T_NK	TAM	0	MRT2	THBS
Fibroblast	TAM	0.1450263625	MRT2	THBS
Endothelial_Cell	TAM	0	MRT2	THBS
Endothelial_Progenitor	TAM	0.02010152287	MRT2	THBS
Adipocyte	TAM	0	MRT2	THBS
MRT1	Monocyte	0	MRT2	THBS
MRT2	Monocyte	0	MRT2	THBS
MRT4	Monocyte	0	MRT2	THBS

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	THBS
Monocyte	Monocyte	0	MRT2	THBS
T_NK	Monocyte	0	MRT2	THBS
Fibroblast	Monocyte	0.1097468886	MRT2	THBS
Endothelial_Cell	Monocyte	0	MRT2	THBS
Endothelial_Progenitor	Monocyte	0.01504386327	MRT2	THBS
Adipocyte	Monocyte	0	MRT2	THBS
MRT1	T_NK	0	MRT2	THBS
MRT2	T_NK	0	MRT2	THBS
MRT4	T_NK	0	MRT2	THBS
TAM	T_NK	0	MRT2	THBS
Monocyte	T_NK	0	MRT2	THBS
T_NK	T_NK	0	MRT2	THBS
Fibroblast	T_NK	0.1232725093	MRT2	THBS
Endothelial_Cell	T_NK	0	MRT2	THBS
Endothelial_Progenitor	T_NK	0.01695142182	MRT2	THBS
Adipocyte	T_NK	0	MRT2	THBS
MRT1	Fibroblast	0	MRT2	THBS
MRT2	Fibroblast	0	MRT2	THBS
MRT4	Fibroblast	0	MRT2	THBS
TAM	Fibroblast	0	MRT2	THBS
Monocyte	Fibroblast	0	MRT2	THBS
T_NK	Fibroblast	0	MRT2	THBS
Fibroblast	Fibroblast	0.07076279528	MRT2	THBS
Endothelial_Cell	Fibroblast	0	MRT2	THBS
Endothelial_Progenitor	Fibroblast	0.009607527032	MRT2	THBS
Adipocyte	Fibroblast	0	MRT2	THBS
MRT1	Endothelial_Cell	0	MRT2	THBS
MRT2	Endothelial_Cell	0.005847287629	MRT2	THBS
MRT4	Endothelial_Cell	0	MRT2	THBS

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	THBS
Monocyte	Endothelial_Cell	0	MRT2	THBS
T_NK	Endothelial_Cell	0	MRT2	THBS
Fibroblast	Endothelial_Cell	0.130146358	MRT2	THBS
Endothelial_Cell	Endothelial_Cell	0	MRT2	THBS
Endothelial_Progenitor	Endothelial_Cell	0.01742857401	MRT2	THBS
Adipocyte	Endothelial_Cell	0	MRT2	THBS
MRT1	Endothelial_Progenitor	0	MRT2	THBS
MRT2	Endothelial_Progenitor	0	MRT2	THBS
MRT4	Endothelial_Progenitor	0	MRT2	THBS
TAM	Endothelial_Progenitor	0	MRT2	THBS
Monocyte	Endothelial_Progenitor	0	MRT2	THBS
T_NK	Endothelial_Progenitor	0	MRT2	THBS
Fibroblast	Endothelial_Progenitor	0.1033098286	MRT2	THBS
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	THBS
Endothelial_Progenitor	Endothelial_Progenitor	0.01418534535	MRT2	THBS
Adipocyte	Endothelial_Progenitor	0	MRT2	THBS
MRT1	Adipocyte	0	MRT2	THBS
MRT2	Adipocyte	0	MRT2	THBS
MRT4	Adipocyte	0	MRT2	THBS
TAM	Adipocyte	0	MRT2	THBS
Monocyte	Adipocyte	0	MRT2	THBS
T_NK	Adipocyte	0	MRT2	THBS
Fibroblast	Adipocyte	0	MRT2	THBS
Endothelial_Cell	Adipocyte	0	MRT2	THBS
Endothelial_Progenitor	Adipocyte	0	MRT2	THBS
Adipocyte	Adipocyte	0	MRT2	THBS
MRT1	MRT1	0	MRT2	MK
MRT2	MRT1	0	MRT2	MK
MRT4	MRT1	0	MRT2	MK

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	MK
Monocyte	MRT1	0	MRT2	MK
T_NK	MRT1	0	MRT2	MK
Fibroblast	MRT1	0	MRT2	MK
Endothelial_Cell	MRT1	0	MRT2	MK
Endothelial_Progenitor	MRT1	0	MRT2	MK
Adipocyte	MRT1	0	MRT2	MK
MRT1	MRT2	0	MRT2	MK
MRT2	MRT2	0.08437422116	MRT2	MK
MRT4	MRT2	0	MRT2	MK
TAM	MRT2	0	MRT2	MK
Monocyte	MRT2	0	MRT2	MK
T_NK	MRT2	0	MRT2	MK
Fibroblast	MRT2	0.1361860719	MRT2	MK
Endothelial_Cell	MRT2	0	MRT2	MK
Endothelial_Progenitor	MRT2	0	MRT2	MK
Adipocyte	MRT2	0	MRT2	MK
MRT1	MRT4	0	MRT2	MK
MRT2	MRT4	0	MRT2	MK
MRT4	MRT4	0	MRT2	MK
TAM	MRT4	0	MRT2	MK
Monocyte	MRT4	0	MRT2	MK
T_NK	MRT4	0	MRT2	MK
Fibroblast	MRT4	0	MRT2	MK
Endothelial_Cell	MRT4	0	MRT2	MK
Endothelial_Progenitor	MRT4	0	MRT2	MK
Adipocyte	MRT4	0	MRT2	MK
MRT1	TAM	0	MRT2	MK
MRT2	TAM	0.05028174195	MRT2	MK
MRT4	TAM	0	MRT2	MK

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	MK
Monocyte	TAM	0.04226275014	MRT2	MK
T_NK	TAM	0.0559288139	MRT2	MK
Fibroblast	TAM	0.0559288139	MRT2	MK
Endothelial_Cell	TAM	0	MRT2	MK
Endothelial_Progenitor	TAM	0.02050971784	MRT2	MK
Adipocyte	TAM	0	MRT2	MK
MRT1	Monocyte	0	MRT2	MK
MRT2	Monocyte	0.03465928487	MRT2	MK
MRT4	Monocyte	0	MRT2	MK
TAM	Monocyte	0	MRT2	MK
Monocyte	Monocyte	0.02916885044	MRT2	MK
T_NK	Monocyte	0.03851729881	MRT2	MK
Fibroblast	Monocyte	0.03851729881	MRT2	MK
Endothelial_Cell	Monocyte	0	MRT2	MK
Endothelial_Progenitor	Monocyte	0.01420424477	MRT2	MK
Adipocyte	Monocyte	0	MRT2	MK
MRT1	T_NK	0	MRT2	MK
MRT2	T_NK	0.02213303783	MRT2	MK
MRT4	T_NK	0	MRT2	MK
TAM	T_NK	0	MRT2	MK
Monocyte	T_NK	0.01858869689	MRT2	MK
T_NK	T_NK	0.02463230173	MRT2	MK
Fibroblast	T_NK	0.02463230173	MRT2	MK
Endothelial_Cell	T_NK	0	MRT2	MK
Endothelial_Progenitor	T_NK	0.009001738144	MRT2	MK
Adipocyte	T_NK	0	MRT2	MK
MRT1	Fibroblast	0	MRT2	MK
MRT2	Fibroblast	0.0280550624	MRT2	MK
MRT4	Fibroblast	0	MRT2	MK

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	MK
Monocyte	Fibroblast	0.02358525328	MRT2	MK
T_NK	Fibroblast	0.03120170433	MRT2	MK
Fibroblast	Fibroblast	0.03120170433	MRT2	MK
Endothelial_Cell	Fibroblast	0	MRT2	MK
Endothelial_Progenitor	Fibroblast	0.01145143251	MRT2	MK
Adipocyte	Fibroblast	0	MRT2	MK
MRT1	Endothelial_Cell	0	MRT2	MK
MRT2	Endothelial_Cell	0	MRT2	MK
MRT4	Endothelial_Cell	0	MRT2	MK
TAM	Endothelial_Cell	0	MRT2	MK
Monocyte	Endothelial_Cell	0	MRT2	MK
T_NK	Endothelial_Cell	0	MRT2	MK
Fibroblast	Endothelial_Cell	0	MRT2	MK
Endothelial_Cell	Endothelial_Cell	0	MRT2	MK
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	MK
Adipocyte	Endothelial_Cell	0	MRT2	MK
MRT1	Endothelial_Progenitor	0	MRT2	MK
MRT2	Endothelial_Progenitor	0	MRT2	MK
MRT4	Endothelial_Progenitor	0	MRT2	MK
TAM	Endothelial_Progenitor	0	MRT2	MK
Monocyte	Endothelial_Progenitor	0	MRT2	MK
T_NK	Endothelial_Progenitor	0	MRT2	MK
Fibroblast	Endothelial_Progenitor	0.05480415654	MRT2	MK
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	MK
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	MK
Adipocyte	Endothelial_Progenitor	0	MRT2	MK
MRT1	Adipocyte	0	MRT2	MK
MRT2	Adipocyte	0	MRT2	MK
MRT4	Adipocyte	0	MRT2	MK

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	MK
Monocyte	Adipocyte	0	MRT2	MK
T_NK	Adipocyte	0	MRT2	MK
Fibroblast	Adipocyte	0	MRT2	MK
Endothelial_Cell	Adipocyte	0	MRT2	MK
Endothelial_Progenitor	Adipocyte	0	MRT2	MK
Adipocyte	Adipocyte	0	MRT2	MK
MRT1	MRT1	0	MRT2	CD99
MRT2	MRT1	0	MRT2	CD99
MRT4	MRT1	0	MRT2	CD99
TAM	MRT1	0	MRT2	CD99
Monocyte	MRT1	0	MRT2	CD99
T_NK	MRT1	0	MRT2	CD99
Fibroblast	MRT1	0	MRT2	CD99
Endothelial_Cell	MRT1	0	MRT2	CD99
Endothelial_Progenitor	MRT1	0	MRT2	CD99
Adipocyte	MRT1	0	MRT2	CD99
MRT1	MRT2	0	MRT2	CD99
MRT2	MRT2	0	MRT2	CD99
MRT4	MRT2	0	MRT2	CD99
TAM	MRT2	0	MRT2	CD99
Monocyte	MRT2	0	MRT2	CD99
T_NK	MRT2	0	MRT2	CD99
Fibroblast	MRT2	0.005830242077	MRT2	CD99
Endothelial_Cell	MRT2	0.01215449662	MRT2	CD99
Endothelial_Progenitor	MRT2	0.007733796685	MRT2	CD99
Adipocyte	MRT2	0	MRT2	CD99
MRT1	MRT4	0	MRT2	CD99
MRT2	MRT4	0	MRT2	CD99
MRT4	MRT4	0	MRT2	CD99

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	CD99
Monocyte	MRT4	0	MRT2	CD99
T_NK	MRT4	0	MRT2	CD99
Fibroblast	MRT4	0	MRT2	CD99
Endothelial_Cell	MRT4	0	MRT2	CD99
Endothelial_Progenitor	MRT4	0	MRT2	CD99
Adipocyte	MRT4	0	MRT2	CD99
MRT1	TAM	0	MRT2	CD99
MRT2	TAM	0	MRT2	CD99
MRT4	TAM	0	MRT2	CD99
TAM	TAM	0	MRT2	CD99
Monocyte	TAM	0	MRT2	CD99
T_NK	TAM	0	MRT2	CD99
Fibroblast	TAM	0.005830242077	MRT2	CD99
Endothelial_Cell	TAM	0.01215449662	MRT2	CD99
Endothelial_Progenitor	TAM	0.007733796685	MRT2	CD99
Adipocyte	TAM	0	MRT2	CD99
MRT1	Monocyte	0	MRT2	CD99
MRT2	Monocyte	0	MRT2	CD99
MRT4	Monocyte	0	MRT2	CD99
TAM	Monocyte	0	MRT2	CD99
Monocyte	Monocyte	0	MRT2	CD99
T_NK	Monocyte	0.006762355244	MRT2	CD99
Fibroblast	Monocyte	0.01159289477	MRT2	CD99
Endothelial_Cell	Monocyte	0.02401707775	MRT2	CD99
Endothelial_Progenitor	Monocyte	0.01534888819	MRT2	CD99
Adipocyte	Monocyte	0	MRT2	CD99
MRT1	T_NK	0	MRT2	CD99
MRT2	T_NK	0	MRT2	CD99
MRT4	T_NK	0	MRT2	CD99

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	CD99
Monocyte	T_NK	0.006762355244	MRT2	CD99
T_NK	T_NK	0	MRT2	CD99
Fibroblast	T_NK	0.01343386591	MRT2	CD99
Endothelial_Cell	T_NK	0.02777558654	MRT2	CD99
Endothelial_Progenitor	T_NK	0.01777559064	MRT2	CD99
Adipocyte	T_NK	0	MRT2	CD99
MRT1	Fibroblast	0	MRT2	CD99
MRT2	Fibroblast	0.005830242077	MRT2	CD99
MRT4	Fibroblast	0	MRT2	CD99
TAM	Fibroblast	0.005830242077	MRT2	CD99
Monocyte	Fibroblast	0.01159289477	MRT2	CD99
T_NK	Fibroblast	0.01343386591	MRT2	CD99
Fibroblast	Fibroblast	0.02292007947	MRT2	CD99
Endothelial_Cell	Fibroblast	0.04690757269	MRT2	CD99
Endothelial_Progenitor	Fibroblast	0.03023372236	MRT2	CD99
Adipocyte	Fibroblast	0	MRT2	CD99
MRT1	Endothelial_Cell	0	MRT2	CD99
MRT2	Endothelial_Cell	0.01215449662	MRT2	CD99
MRT4	Endothelial_Cell	0	MRT2	CD99
TAM	Endothelial_Cell	0.01215449662	MRT2	CD99
Monocyte	Endothelial_Cell	0.02401707775	MRT2	CD99
T_NK	Endothelial_Cell	0.02777558654	MRT2	CD99
Fibroblast	Endothelial_Cell	0.04690757269	MRT2	CD99
Endothelial_Cell	Endothelial_Cell	0.09359490149	MRT2	CD99
Endothelial_Progenitor	Endothelial_Cell	0.06139451074	MRT2	CD99
Adipocyte	Endothelial_Cell	0	MRT2	CD99
MRT1	Endothelial_Progenitor	0	MRT2	CD99
MRT2	Endothelial_Progenitor	0.007733796685	MRT2	CD99
MRT4	Endothelial_Progenitor	0	MRT2	CD99

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0.007733796685	MRT2	CD99
Monocyte	Endothelial_Progenitor	0.01534888819	MRT2	CD99
T_NK	Endothelial_Progenitor	0.01777559064	MRT2	CD99
Fibroblast	Endothelial_Progenitor	0.03023372236	MRT2	CD99
Endothelial_Cell	Endothelial_Progenitor	0.06139451074	MRT2	CD99
Endothelial_Progenitor	Endothelial_Progenitor	0.03978607122	MRT2	CD99
Adipocyte	Endothelial_Progenitor	0	MRT2	CD99
MRT1	Adipocyte	0	MRT2	CD99
MRT2	Adipocyte	0	MRT2	CD99
MRT4	Adipocyte	0	MRT2	CD99
TAM	Adipocyte	0	MRT2	CD99
Monocyte	Adipocyte	0	MRT2	CD99
T_NK	Adipocyte	0	MRT2	CD99
Fibroblast	Adipocyte	0	MRT2	CD99
Endothelial_Cell	Adipocyte	0	MRT2	CD99
Endothelial_Progenitor	Adipocyte	0	MRT2	CD99
Adipocyte	Adipocyte	0	MRT2	CD99
MRT1	MRT1	0	MRT2	NRG
MRT2	MRT1	0	MRT2	NRG
MRT4	MRT1	0	MRT2	NRG
TAM	MRT1	0	MRT2	NRG
Monocyte	MRT1	0	MRT2	NRG
T_NK	MRT1	0	MRT2	NRG
Fibroblast	MRT1	0	MRT2	NRG
Endothelial_Cell	MRT1	0	MRT2	NRG
Endothelial_Progenitor	MRT1	0	MRT2	NRG
Adipocyte	MRT1	0	MRT2	NRG
MRT1	MRT2	0	MRT2	NRG
MRT2	MRT2	0.4651875333	MRT2	NRG
MRT4	MRT2	0	MRT2	NRG

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	NRG
Monocyte	MRT2	0	MRT2	NRG
T_NK	MRT2	0	MRT2	NRG
Fibroblast	MRT2	0	MRT2	NRG
Endothelial_Cell	MRT2	0	MRT2	NRG
Endothelial_Progenitor	MRT2	0	MRT2	NRG
Adipocyte	MRT2	0	MRT2	NRG
MRT1	MRT4	0	MRT2	NRG
MRT2	MRT4	0	MRT2	NRG
MRT4	MRT4	0	MRT2	NRG
TAM	MRT4	0	MRT2	NRG
Monocyte	MRT4	0	MRT2	NRG
T_NK	MRT4	0	MRT2	NRG
Fibroblast	MRT4	0	MRT2	NRG
Endothelial_Cell	MRT4	0	MRT2	NRG
Endothelial_Progenitor	MRT4	0	MRT2	NRG
Adipocyte	MRT4	0	MRT2	NRG
MRT1	TAM	0	MRT2	NRG
MRT2	TAM	0	MRT2	NRG
MRT4	TAM	0	MRT2	NRG
TAM	TAM	0	MRT2	NRG
Monocyte	TAM	0	MRT2	NRG
T_NK	TAM	0	MRT2	NRG
Fibroblast	TAM	0	MRT2	NRG
Endothelial_Cell	TAM	0	MRT2	NRG
Endothelial_Progenitor	TAM	0	MRT2	NRG
Adipocyte	TAM	0	MRT2	NRG
MRT1	Monocyte	0	MRT2	NRG
MRT2	Monocyte	0	MRT2	NRG
MRT4	Monocyte	0	MRT2	NRG

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	NRG
Monocyte	Monocyte	0	MRT2	NRG
T_NK	Monocyte	0	MRT2	NRG
Fibroblast	Monocyte	0	MRT2	NRG
Endothelial_Cell	Monocyte	0	MRT2	NRG
Endothelial_Progenitor	Monocyte	0	MRT2	NRG
Adipocyte	Monocyte	0	MRT2	NRG
MRT1	T_NK	0	MRT2	NRG
MRT2	T_NK	0	MRT2	NRG
MRT4	T_NK	0	MRT2	NRG
TAM	T_NK	0	MRT2	NRG
Monocyte	T_NK	0	MRT2	NRG
T_NK	T_NK	0	MRT2	NRG
Fibroblast	T_NK	0	MRT2	NRG
Endothelial_Cell	T_NK	0	MRT2	NRG
Endothelial_Progenitor	T_NK	0	MRT2	NRG
Adipocyte	T_NK	0	MRT2	NRG
MRT1	Fibroblast	0	MRT2	NRG
MRT2	Fibroblast	0	MRT2	NRG
MRT4	Fibroblast	0	MRT2	NRG
TAM	Fibroblast	0	MRT2	NRG
Monocyte	Fibroblast	0	MRT2	NRG
T_NK	Fibroblast	0	MRT2	NRG
Fibroblast	Fibroblast	0	MRT2	NRG
Endothelial_Cell	Fibroblast	0	MRT2	NRG
Endothelial_Progenitor	Fibroblast	0	MRT2	NRG
Adipocyte	Fibroblast	0	MRT2	NRG
MRT1	Endothelial_Cell	0	MRT2	NRG
MRT2	Endothelial_Cell	0.07355672341	MRT2	NRG
MRT4	Endothelial_Cell	0	MRT2	NRG

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0.02401707775	MRT2	NRG
Monocyte	Endothelial_Cell	0.0276233234	MRT2	NRG
T_NK	Endothelial_Cell	0.03233523797	MRT2	NRG
Fibroblast	Endothelial_Cell	0.02004872112	MRT2	NRG
Endothelial_Cell	Endothelial_Cell	0.01493296586	MRT2	NRG
Endothelial_Progenitor	Endothelial_Cell	0.01867993693	MRT2	NRG
Adipocyte	Endothelial_Cell	0	MRT2	NRG
MRT1	Endothelial_Progenitor	0	MRT2	NRG
MRT2	Endothelial_Progenitor	0	MRT2	NRG
MRT4	Endothelial_Progenitor	0	MRT2	NRG
TAM	Endothelial_Progenitor	0	MRT2	NRG
Monocyte	Endothelial_Progenitor	0	MRT2	NRG
T_NK	Endothelial_Progenitor	0	MRT2	NRG
Fibroblast	Endothelial_Progenitor	0	MRT2	NRG
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	NRG
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	NRG
Adipocyte	Endothelial_Progenitor	0	MRT2	NRG
MRT1	Adipocyte	0	MRT2	NRG
MRT2	Adipocyte	0	MRT2	NRG
MRT4	Adipocyte	0	MRT2	NRG
TAM	Adipocyte	0	MRT2	NRG
Monocyte	Adipocyte	0	MRT2	NRG
T_NK	Adipocyte	0	MRT2	NRG
Fibroblast	Adipocyte	0	MRT2	NRG
Endothelial_Cell	Adipocyte	0	MRT2	NRG
Endothelial_Progenitor	Adipocyte	0	MRT2	NRG
Adipocyte	Adipocyte	0	MRT2	NRG
MRT1	MRT1	0	MRT2	CD45
MRT2	MRT1	0	MRT2	CD45
MRT4	MRT1	0	MRT2	CD45

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	CD45
Monocyte	MRT1	0	MRT2	CD45
T_NK	MRT1	0	MRT2	CD45
Fibroblast	MRT1	0	MRT2	CD45
Endothelial_Cell	MRT1	0	MRT2	CD45
Endothelial_Progenitor	MRT1	0	MRT2	CD45
Adipocyte	MRT1	0	MRT2	CD45
MRT1	MRT2	0	MRT2	CD45
MRT2	MRT2	0	MRT2	CD45
MRT4	MRT2	0	MRT2	CD45
TAM	MRT2	0	MRT2	CD45
Monocyte	MRT2	0	MRT2	CD45
T_NK	MRT2	0	MRT2	CD45
Fibroblast	MRT2	0	MRT2	CD45
Endothelial_Cell	MRT2	0	MRT2	CD45
Endothelial_Progenitor	MRT2	0	MRT2	CD45
Adipocyte	MRT2	0	MRT2	CD45
MRT1	MRT4	0	MRT2	CD45
MRT2	MRT4	0	MRT2	CD45
MRT4	MRT4	0	MRT2	CD45
TAM	MRT4	0	MRT2	CD45
Monocyte	MRT4	0	MRT2	CD45
T_NK	MRT4	0	MRT2	CD45
Fibroblast	MRT4	0	MRT2	CD45
Endothelial_Cell	MRT4	0	MRT2	CD45
Endothelial_Progenitor	MRT4	0	MRT2	CD45
Adipocyte	MRT4	0	MRT2	CD45
MRT1	TAM	0	MRT2	CD45
MRT2	TAM	0	MRT2	CD45
MRT4	TAM	0	MRT2	CD45

Source	Target	Probability	Sample	Pathway
TAM	TAM	0.0504921702	MRT2	CD45
Monocyte	TAM	0.07124671003	MRT2	CD45
T_NK	TAM	0.06732639325	MRT2	CD45
Fibroblast	TAM	0	MRT2	CD45
Endothelial_Cell	TAM	0	MRT2	CD45
Endothelial_Progenitor	TAM	0	MRT2	CD45
Adipocyte	TAM	0	MRT2	CD45
MRT1	Monocyte	0	MRT2	CD45
MRT2	Monocyte	0	MRT2	CD45
MRT4	Monocyte	0	MRT2	CD45
TAM	Monocyte	0	MRT2	CD45
Monocyte	Monocyte	0	MRT2	CD45
T_NK	Monocyte	0	MRT2	CD45
Fibroblast	Monocyte	0	MRT2	CD45
Endothelial_Cell	Monocyte	0	MRT2	CD45
Endothelial_Progenitor	Monocyte	0	MRT2	CD45
Adipocyte	Monocyte	0	MRT2	CD45
MRT1	T_NK	0	MRT2	CD45
MRT2	T_NK	0	MRT2	CD45
MRT4	T_NK	0	MRT2	CD45
TAM	T_NK	0	MRT2	CD45
Monocyte	T_NK	0	MRT2	CD45
T_NK	T_NK	0	MRT2	CD45
Fibroblast	T_NK	0	MRT2	CD45
Endothelial_Cell	T_NK	0	MRT2	CD45
Endothelial_Progenitor	T_NK	0	MRT2	CD45
Adipocyte	T_NK	0	MRT2	CD45
MRT1	Fibroblast	0	MRT2	CD45
MRT2	Fibroblast	0	MRT2	CD45
MRT4	Fibroblast	0	MRT2	CD45

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	CD45
Monocyte	Fibroblast	0	MRT2	CD45
T_NK	Fibroblast	0	MRT2	CD45
Fibroblast	Fibroblast	0	MRT2	CD45
Endothelial_Cell	Fibroblast	0	MRT2	CD45
Endothelial_Progenitor	Fibroblast	0	MRT2	CD45
Adipocyte	Fibroblast	0	MRT2	CD45
MRT1	Endothelial_Cell	0	MRT2	CD45
MRT2	Endothelial_Cell	0	MRT2	CD45
MRT4	Endothelial_Cell	0	MRT2	CD45
TAM	Endothelial_Cell	0.1000570088	MRT2	CD45
Monocyte	Endothelial_Cell	0.1382191775	MRT2	CD45
T_NK	Endothelial_Cell	0.1311340488	MRT2	CD45
Fibroblast	Endothelial_Cell	0	MRT2	CD45
Endothelial_Cell	Endothelial_Cell	0	MRT2	CD45
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	CD45
Adipocyte	Endothelial_Cell	0	MRT2	CD45
MRT1	Endothelial_Progenitor	0	MRT2	CD45
MRT2	Endothelial_Progenitor	0	MRT2	CD45
MRT4	Endothelial_Progenitor	0	MRT2	CD45
TAM	Endothelial_Progenitor	0	MRT2	CD45
Monocyte	Endothelial_Progenitor	0	MRT2	CD45
T_NK	Endothelial_Progenitor	0	MRT2	CD45
Fibroblast	Endothelial_Progenitor	0	MRT2	CD45
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	CD45
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	CD45
Adipocyte	Endothelial_Progenitor	0	MRT2	CD45
MRT1	Adipocyte	0	MRT2	CD45
MRT2	Adipocyte	0	MRT2	CD45
MRT4	Adipocyte	0	MRT2	CD45

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	CD45
Monocyte	Adipocyte	0	MRT2	CD45
T_NK	Adipocyte	0	MRT2	CD45
Fibroblast	Adipocyte	0	MRT2	CD45
Endothelial_Cell	Adipocyte	0	MRT2	CD45
Endothelial_Progenitor	Adipocyte	0	MRT2	CD45
Adipocyte	Adipocyte	0	MRT2	CD45
MRT1	MRT1	0	MRT2	EPHA
MRT2	MRT1	0	MRT2	EPHA
MRT4	MRT1	0	MRT2	EPHA
TAM	MRT1	0	MRT2	EPHA
Monocyte	MRT1	0	MRT2	EPHA
T_NK	MRT1	0	MRT2	EPHA
Fibroblast	MRT1	0	MRT2	EPHA
Endothelial_Cell	MRT1	0	MRT2	EPHA
Endothelial_Progenitor	MRT1	0	MRT2	EPHA
Adipocyte	MRT1	0	MRT2	EPHA
MRT1	MRT2	0	MRT2	EPHA
MRT2	MRT2	0.04986448203	MRT2	EPHA
MRT4	MRT2	0	MRT2	EPHA
TAM	MRT2	0	MRT2	EPHA
Monocyte	MRT2	0	MRT2	EPHA
T_NK	MRT2	0	MRT2	EPHA
Fibroblast	MRT2	0	MRT2	EPHA
Endothelial_Cell	MRT2	0.1296764121	MRT2	EPHA
Endothelial_Progenitor	MRT2	0.01131688978	MRT2	EPHA
Adipocyte	MRT2	0	MRT2	EPHA
MRT1	MRT4	0	MRT2	EPHA
MRT2	MRT4	0	MRT2	EPHA
MRT4	MRT4	0	MRT2	EPHA

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	EPHA
Monocyte	MRT4	0	MRT2	EPHA
T_NK	MRT4	0	MRT2	EPHA
Fibroblast	MRT4	0	MRT2	EPHA
Endothelial_Cell	MRT4	0	MRT2	EPHA
Endothelial_Progenitor	MRT4	0	MRT2	EPHA
Adipocyte	MRT4	0	MRT2	EPHA
MRT1	TAM	0	MRT2	EPHA
MRT2	TAM	0.006677167249	MRT2	EPHA
MRT4	TAM	0	MRT2	EPHA
TAM	TAM	0.002923643814	MRT2	EPHA
Monocyte	TAM	0.004379064309	MRT2	EPHA
T_NK	TAM	0.005830242077	MRT2	EPHA
Fibroblast	TAM	0.001463961959	MRT2	EPHA
Endothelial_Cell	TAM	0.02128360787	MRT2	EPHA
Endothelial_Progenitor	TAM	0.008758128618	MRT2	EPHA
Adipocyte	TAM	0	MRT2	EPHA
MRT1	Monocyte	0	MRT2	EPHA
MRT2	Monocyte	0	MRT2	EPHA
MRT4	Monocyte	0	MRT2	EPHA
TAM	Monocyte	0	MRT2	EPHA
Monocyte	Monocyte	0	MRT2	EPHA
T_NK	Monocyte	0	MRT2	EPHA
Fibroblast	Monocyte	0	MRT2	EPHA
Endothelial_Cell	Monocyte	0.005830242077	MRT2	EPHA
Endothelial_Progenitor	Monocyte	0.005830242077	MRT2	EPHA
Adipocyte	Monocyte	0	MRT2	EPHA
MRT1	T_NK	0	MRT2	EPHA
MRT2	T_NK	0	MRT2	EPHA
MRT4	T_NK	0	MRT2	EPHA

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	EPHA
Monocyte	T_NK	0	MRT2	EPHA
T_NK	T_NK	0	MRT2	EPHA
Fibroblast	T_NK	0	MRT2	EPHA
Endothelial_Cell	T_NK	0.07018476482	MRT2	EPHA
Endothelial_Progenitor	T_NK	0.005830242077	MRT2	EPHA
Adipocyte	T_NK	0	MRT2	EPHA
MRT1	Fibroblast	0	MRT2	EPHA
MRT2	Fibroblast	0.006677167249	MRT2	EPHA
MRT4	Fibroblast	0	MRT2	EPHA
TAM	Fibroblast	0.002923643814	MRT2	EPHA
Monocyte	Fibroblast	0.004379064309	MRT2	EPHA
T_NK	Fibroblast	0.005830242077	MRT2	EPHA
Fibroblast	Fibroblast	0.001463961959	MRT2	EPHA
Endothelial_Cell	Fibroblast	0.01983246748	MRT2	EPHA
Endothelial_Progenitor	Fibroblast	0.007306988227	MRT2	EPHA
Adipocyte	Fibroblast	0	MRT2	EPHA
MRT1	Endothelial_Cell	0	MRT2	EPHA
MRT2	Endothelial_Cell	0	MRT2	EPHA
MRT4	Endothelial_Cell	0	MRT2	EPHA
TAM	Endothelial_Cell	0	MRT2	EPHA
Monocyte	Endothelial_Cell	0	MRT2	EPHA
T_NK	Endothelial_Cell	0	MRT2	EPHA
Fibroblast	Endothelial_Cell	0	MRT2	EPHA
Endothelial_Cell	Endothelial_Cell	0.001463961959	MRT2	EPHA
Endothelial_Progenitor	Endothelial_Cell	0.001463961959	MRT2	EPHA
Adipocyte	Endothelial_Cell	0	MRT2	EPHA
MRT1	Endothelial_Progenitor	0	MRT2	EPHA
MRT2	Endothelial_Progenitor	0.01707947386	MRT2	EPHA
MRT4	Endothelial_Progenitor	0	MRT2	EPHA

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0.007522650672	MRT2	EPHA
Monocyte	Endothelial_Progenitor	0.01124169235	MRT2	EPHA
T_NK	Endothelial_Progenitor	0.01493296586	MRT2	EPHA
Fibroblast	Endothelial_Progenitor	0.003775526319	MRT2	EPHA
Endothelial_Cell	Endothelial_Progenitor	0.05071195936	MRT2	EPHA
Endothelial_Progenitor	Endothelial_Progenitor	0.01939628297	MRT2	EPHA
Adipocyte	Endothelial_Progenitor	0	MRT2	EPHA
MRT1	Adipocyte	0	MRT2	EPHA
MRT2	Adipocyte	0	MRT2	EPHA
MRT4	Adipocyte	0	MRT2	EPHA
TAM	Adipocyte	0	MRT2	EPHA
Monocyte	Adipocyte	0	MRT2	EPHA
T_NK	Adipocyte	0	MRT2	EPHA
Fibroblast	Adipocyte	0	MRT2	EPHA
Endothelial_Cell	Adipocyte	0	MRT2	EPHA
Endothelial_Progenitor	Adipocyte	0	MRT2	EPHA
Adipocyte	Adipocyte	0	MRT2	EPHA
MRT1	MRT1	0	MRT2	SEMA6
MRT2	MRT1	0	MRT2	SEMA6
MRT4	MRT1	0	MRT2	SEMA6
TAM	MRT1	0	MRT2	SEMA6
Monocyte	MRT1	0	MRT2	SEMA6
T_NK	MRT1	0	MRT2	SEMA6
Fibroblast	MRT1	0	MRT2	SEMA6
Endothelial_Cell	MRT1	0	MRT2	SEMA6
Endothelial_Progenitor	MRT1	0	MRT2	SEMA6
Adipocyte	MRT1	0	MRT2	SEMA6
MRT1	MRT2	0	MRT2	SEMA6
MRT2	MRT2	0	MRT2	SEMA6
MRT4	MRT2	0	MRT2	SEMA6

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	SEMA6
Monocyte	MRT2	0	MRT2	SEMA6
T_NK	MRT2	0	MRT2	SEMA6
Fibroblast	MRT2	0	MRT2	SEMA6
Endothelial_Cell	MRT2	0.04463921643	MRT2	SEMA6
Endothelial_Progenitor	MRT2	0.02581933774	MRT2	SEMA6
Adipocyte	MRT2	0	MRT2	SEMA6
MRT1	MRT4	0	MRT2	SEMA6
MRT2	MRT4	0	MRT2	SEMA6
MRT4	MRT4	0	MRT2	SEMA6
TAM	MRT4	0	MRT2	SEMA6
Monocyte	MRT4	0	MRT2	SEMA6
T_NK	MRT4	0	MRT2	SEMA6
Fibroblast	MRT4	0	MRT2	SEMA6
Endothelial_Cell	MRT4	0	MRT2	SEMA6
Endothelial_Progenitor	MRT4	0	MRT2	SEMA6
Adipocyte	MRT4	0	MRT2	SEMA6
MRT1	TAM	0	MRT2	SEMA6
MRT2	TAM	0	MRT2	SEMA6
MRT4	TAM	0	MRT2	SEMA6
TAM	TAM	0	MRT2	SEMA6
Monocyte	TAM	0	MRT2	SEMA6
T_NK	TAM	0	MRT2	SEMA6
Fibroblast	TAM	0	MRT2	SEMA6
Endothelial_Cell	TAM	0.01286591516	MRT2	SEMA6
Endothelial_Progenitor	TAM	0.001463961959	MRT2	SEMA6
Adipocyte	TAM	0	MRT2	SEMA6
MRT1	Monocyte	0	MRT2	SEMA6
MRT2	Monocyte	0	MRT2	SEMA6
MRT4	Monocyte	0	MRT2	SEMA6

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	SEMA6
Monocyte	Monocyte	0	MRT2	SEMA6
T_NK	Monocyte	0	MRT2	SEMA6
Fibroblast	Monocyte	0	MRT2	SEMA6
Endothelial_Cell	Monocyte	0.03762947034	MRT2	SEMA6
Endothelial_Progenitor	Monocyte	0.02166819095	MRT2	SEMA6
Adipocyte	Monocyte	0	MRT2	SEMA6
MRT1	T_NK	0	MRT2	SEMA6
MRT2	T_NK	0.002318339467	MRT2	SEMA6
MRT4	T_NK	0	MRT2	SEMA6
TAM	T_NK	0	MRT2	SEMA6
Monocyte	T_NK	0	MRT2	SEMA6
T_NK	T_NK	0	MRT2	SEMA6
Fibroblast	T_NK	0	MRT2	SEMA6
Endothelial_Cell	T_NK	0.05786913809	MRT2	SEMA6
Endothelial_Progenitor	T_NK	0.03319583739	MRT2	SEMA6
Adipocyte	T_NK	0	MRT2	SEMA6
MRT1	Fibroblast	0	MRT2	SEMA6
MRT2	Fibroblast	0	MRT2	SEMA6
MRT4	Fibroblast	0	MRT2	SEMA6
TAM	Fibroblast	0	MRT2	SEMA6
Monocyte	Fibroblast	0	MRT2	SEMA6
T_NK	Fibroblast	0	MRT2	SEMA6
Fibroblast	Fibroblast	0	MRT2	SEMA6
Endothelial_Cell	Fibroblast	0.01286591516	MRT2	SEMA6
Endothelial_Progenitor	Fibroblast	0.001463961959	MRT2	SEMA6
Adipocyte	Fibroblast	0	MRT2	SEMA6
MRT1	Endothelial_Cell	0	MRT2	SEMA6
MRT2	Endothelial_Cell	0	MRT2	SEMA6
MRT4	Endothelial_Cell	0	MRT2	SEMA6

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	SEMA6
Monocyte	Endothelial_Cell	0	MRT2	SEMA6
T_NK	Endothelial_Cell	0	MRT2	SEMA6
Fibroblast	Endothelial_Cell	0	MRT2	SEMA6
Endothelial_Cell	Endothelial_Cell	0.04463921643	MRT2	SEMA6
Endothelial_Progenitor	Endothelial_Cell	0.02581933774	MRT2	SEMA6
Adipocyte	Endothelial_Cell	0	MRT2	SEMA6
MRT1	Endothelial_Progenitor	0	MRT2	SEMA6
MRT2	Endothelial_Progenitor	0.01183622055	MRT2	SEMA6
MRT4	Endothelial_Progenitor	0	MRT2	SEMA6
TAM	Endothelial_Progenitor	0	MRT2	SEMA6
Monocyte	Endothelial_Progenitor	0	MRT2	SEMA6
T_NK	Endothelial_Progenitor	0	MRT2	SEMA6
Fibroblast	Endothelial_Progenitor	0	MRT2	SEMA6
Endothelial_Cell	Endothelial_Progenitor	0.09623601594	MRT2	SEMA6
Endothelial_Progenitor	Endothelial_Progenitor	0.05755759783	MRT2	SEMA6
Adipocyte	Endothelial_Progenitor	0	MRT2	SEMA6
MRT1	Adipocyte	0	MRT2	SEMA6
MRT2	Adipocyte	0	MRT2	SEMA6
MRT4	Adipocyte	0	MRT2	SEMA6
TAM	Adipocyte	0	MRT2	SEMA6
Monocyte	Adipocyte	0	MRT2	SEMA6
T_NK	Adipocyte	0	MRT2	SEMA6
Fibroblast	Adipocyte	0	MRT2	SEMA6
Endothelial_Cell	Adipocyte	0	MRT2	SEMA6
Endothelial_Progenitor	Adipocyte	0	MRT2	SEMA6
Adipocyte	Adipocyte	0	MRT2	SEMA6
MRT1	MRT1	0	MRT2	PECAM1
MRT2	MRT1	0	MRT2	PECAM1
MRT4	MRT1	0	MRT2	PECAM1

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	PECAM1
Monocyte	MRT1	0	MRT2	PECAM1
T_NK	MRT1	0	MRT2	PECAM1
Fibroblast	MRT1	0	MRT2	PECAM1
Endothelial_Cell	MRT1	0	MRT2	PECAM1
Endothelial_Progenitor	MRT1	0	MRT2	PECAM1
Adipocyte	MRT1	0	MRT2	PECAM1
MRT1	MRT2	0	MRT2	PECAM1
MRT2	MRT2	0	MRT2	PECAM1
MRT4	MRT2	0	MRT2	PECAM1
TAM	MRT2	0	MRT2	PECAM1
Monocyte	MRT2	0	MRT2	PECAM1
T_NK	MRT2	0	MRT2	PECAM1
Fibroblast	MRT2	0	MRT2	PECAM1
Endothelial_Cell	MRT2	0	MRT2	PECAM1
Endothelial_Progenitor	MRT2	0	MRT2	PECAM1
Adipocyte	MRT2	0	MRT2	PECAM1
MRT1	MRT4	0	MRT2	PECAM1
MRT2	MRT4	0	MRT2	PECAM1
MRT4	MRT4	0	MRT2	PECAM1
TAM	MRT4	0	MRT2	PECAM1
Monocyte	MRT4	0	MRT2	PECAM1
T_NK	MRT4	0	MRT2	PECAM1
Fibroblast	MRT4	0	MRT2	PECAM1
Endothelial_Cell	MRT4	0	MRT2	PECAM1
Endothelial_Progenitor	MRT4	0	MRT2	PECAM1
Adipocyte	MRT4	0	MRT2	PECAM1
MRT1	TAM	0	MRT2	PECAM1
MRT2	TAM	0	MRT2	PECAM1
MRT4	TAM	0	MRT2	PECAM1

Source	Target	Probability	Sample	Pathway
TAM	TAM	0.001463961959	MRT2	PECAM1
Monocyte	TAM	0.002318339467	MRT2	PECAM1
T_NK	TAM	0	MRT2	PECAM1
Fibroblast	TAM	0	MRT2	PECAM1
Endothelial_Cell	TAM	0.009068246906	MRT2	PECAM1
Endothelial_Progenitor	TAM	0.01334981853	MRT2	PECAM1
Adipocyte	TAM	0	MRT2	PECAM1
MRT1	Monocyte	0	MRT2	PECAM1
MRT2	Monocyte	0	MRT2	PECAM1
MRT4	Monocyte	0	MRT2	PECAM1
TAM	Monocyte	0.002318339467	MRT2	PECAM1
Monocyte	Monocyte	0.003669504751	MRT2	PECAM1
T_NK	Monocyte	0	MRT2	PECAM1
Fibroblast	Monocyte	0	MRT2	PECAM1
Endothelial_Cell	Monocyte	0.01429699169	MRT2	PECAM1
Endothelial_Progenitor	Monocyte	0.02099500873	MRT2	PECAM1
Adipocyte	Monocyte	0	MRT2	PECAM1
MRT1	T_NK	0	MRT2	PECAM1
MRT2	T_NK	0	MRT2	PECAM1
MRT4	T_NK	0	MRT2	PECAM1
TAM	T_NK	0	MRT2	PECAM1
Monocyte	T_NK	0	MRT2	PECAM1
T_NK	T_NK	0	MRT2	PECAM1
Fibroblast	T_NK	0	MRT2	PECAM1
Endothelial_Cell	T_NK	0	MRT2	PECAM1
Endothelial_Progenitor	T_NK	0	MRT2	PECAM1
Adipocyte	T_NK	0	MRT2	PECAM1
MRT1	Fibroblast	0	MRT2	PECAM1
MRT2	Fibroblast	0	MRT2	PECAM1
MRT4	Fibroblast	0	MRT2	PECAM1

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	PECAM1
Monocyte	Fibroblast	0	MRT2	PECAM1
T_NK	Fibroblast	0	MRT2	PECAM1
Fibroblast	Fibroblast	0	MRT2	PECAM1
Endothelial_Cell	Fibroblast	0	MRT2	PECAM1
Endothelial_Progenitor	Fibroblast	0	MRT2	PECAM1
Adipocyte	Fibroblast	0	MRT2	PECAM1
MRT1	Endothelial_Cell	0	MRT2	PECAM1
MRT2	Endothelial_Cell	0	MRT2	PECAM1
MRT4	Endothelial_Cell	0	MRT2	PECAM1
TAM	Endothelial_Cell	0.009068246906	MRT2	PECAM1
Monocyte	Endothelial_Cell	0.01429699169	MRT2	PECAM1
T_NK	Endothelial_Cell	0	MRT2	PECAM1
Fibroblast	Endothelial_Cell	0	MRT2	PECAM1
Endothelial_Cell	Endothelial_Cell	0.05403418164	MRT2	PECAM1
Endothelial_Progenitor	Endothelial_Cell	0.07787788409	MRT2	PECAM1
Adipocyte	Endothelial_Cell	0	MRT2	PECAM1
MRT1	Endothelial_Progenitor	0	MRT2	PECAM1
MRT2	Endothelial_Progenitor	0	MRT2	PECAM1
MRT4	Endothelial_Progenitor	0	MRT2	PECAM1
TAM	Endothelial_Progenitor	0.01334981853	MRT2	PECAM1
Monocyte	Endothelial_Progenitor	0.02099500873	MRT2	PECAM1
T_NK	Endothelial_Progenitor	0	MRT2	PECAM1
Fibroblast	Endothelial_Progenitor	0	MRT2	PECAM1
Endothelial_Cell	Endothelial_Progenitor	0.07787788409	MRT2	PECAM1
Endothelial_Progenitor	Endothelial_Progenitor	0.1110084205	MRT2	PECAM1
Adipocyte	Endothelial_Progenitor	0	MRT2	PECAM1
MRT1	Adipocyte	0	MRT2	PECAM1
MRT2	Adipocyte	0	MRT2	PECAM1
MRT4	Adipocyte	0	MRT2	PECAM1

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	PECAM1
Monocyte	Adipocyte	0	MRT2	PECAM1
T_NK	Adipocyte	0	MRT2	PECAM1
Fibroblast	Adipocyte	0	MRT2	PECAM1
Endothelial_Cell	Adipocyte	0	MRT2	PECAM1
Endothelial_Progenitor	Adipocyte	0	MRT2	PECAM1
Adipocyte	Adipocyte	0	MRT2	PECAM1
MRT1	MRT1	0	MRT2	PERIOSTIN
MRT2	MRT1	0	MRT2	PERIOSTIN
MRT4	MRT1	0	MRT2	PERIOSTIN
TAM	MRT1	0	MRT2	PERIOSTIN
Monocyte	MRT1	0	MRT2	PERIOSTIN
T_NK	MRT1	0	MRT2	PERIOSTIN
Fibroblast	MRT1	0	MRT2	PERIOSTIN
Endothelial_Cell	MRT1	0	MRT2	PERIOSTIN
Endothelial_Progenitor	MRT1	0	MRT2	PERIOSTIN
Adipocyte	MRT1	0	MRT2	PERIOSTIN
MRT1	MRT2	0	MRT2	PERIOSTIN
MRT2	MRT2	0	MRT2	PERIOSTIN
MRT4	MRT2	0	MRT2	PERIOSTIN
TAM	MRT2	0	MRT2	PERIOSTIN
Monocyte	MRT2	0	MRT2	PERIOSTIN
T_NK	MRT2	0	MRT2	PERIOSTIN
Fibroblast	MRT2	0	MRT2	PERIOSTIN
Endothelial_Cell	MRT2	0	MRT2	PERIOSTIN
Endothelial_Progenitor	MRT2	0	MRT2	PERIOSTIN
Adipocyte	MRT2	0	MRT2	PERIOSTIN
MRT1	MRT4	0	MRT2	PERIOSTIN
MRT2	MRT4	0	MRT2	PERIOSTIN
MRT4	MRT4	0	MRT2	PERIOSTIN

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	PERIOSTIN
Monocyte	MRT4	0	MRT2	PERIOSTIN
T_NK	MRT4	0	MRT2	PERIOSTIN
Fibroblast	MRT4	0	MRT2	PERIOSTIN
Endothelial_Cell	MRT4	0	MRT2	PERIOSTIN
Endothelial_Progenitor	MRT4	0	MRT2	PERIOSTIN
Adipocyte	MRT4	0	MRT2	PERIOSTIN
MRT1	TAM	0	MRT2	PERIOSTIN
MRT2	TAM	0	MRT2	PERIOSTIN
MRT4	TAM	0	MRT2	PERIOSTIN
TAM	TAM	0	MRT2	PERIOSTIN
Monocyte	TAM	0	MRT2	PERIOSTIN
T_NK	TAM	0.008722731237	MRT2	PERIOSTIN
Fibroblast	TAM	0.09552150825	MRT2	PERIOSTIN
Endothelial_Cell	TAM	0	MRT2	PERIOSTIN
Endothelial_Progenitor	TAM	0.008722731237	MRT2	PERIOSTIN
Adipocyte	TAM	0	MRT2	PERIOSTIN
MRT1	Monocyte	0	MRT2	PERIOSTIN
MRT2	Monocyte	0	MRT2	PERIOSTIN
MRT4	Monocyte	0	MRT2	PERIOSTIN
TAM	Monocyte	0	MRT2	PERIOSTIN
Monocyte	Monocyte	0	MRT2	PERIOSTIN
T_NK	Monocyte	0	MRT2	PERIOSTIN
Fibroblast	Monocyte	0	MRT2	PERIOSTIN
Endothelial_Cell	Monocyte	0	MRT2	PERIOSTIN
Endothelial_Progenitor	Monocyte	0	MRT2	PERIOSTIN
Adipocyte	Monocyte	0	MRT2	PERIOSTIN
MRT1	T_NK	0	MRT2	PERIOSTIN
MRT2	T_NK	0	MRT2	PERIOSTIN
MRT4	T_NK	0	MRT2	PERIOSTIN

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	PERIOSTIN
Monocyte	T_NK	0	MRT2	PERIOSTIN
T_NK	T_NK	0	MRT2	PERIOSTIN
Fibroblast	T_NK	0	MRT2	PERIOSTIN
Endothelial_Cell	T_NK	0	MRT2	PERIOSTIN
Endothelial_Progenitor	T_NK	0	MRT2	PERIOSTIN
Adipocyte	T_NK	0	MRT2	PERIOSTIN
MRT1	Fibroblast	0	MRT2	PERIOSTIN
MRT2	Fibroblast	0	MRT2	PERIOSTIN
MRT4	Fibroblast	0	MRT2	PERIOSTIN
TAM	Fibroblast	0	MRT2	PERIOSTIN
Monocyte	Fibroblast	0	MRT2	PERIOSTIN
T_NK	Fibroblast	0.01328323965	MRT2	PERIOSTIN
Fibroblast	Fibroblast	0.1390952199	MRT2	PERIOSTIN
Endothelial_Cell	Fibroblast	0	MRT2	PERIOSTIN
Endothelial_Progenitor	Fibroblast	0.01328323965	MRT2	PERIOSTIN
Adipocyte	Fibroblast	0	MRT2	PERIOSTIN
MRT1	Endothelial_Cell	0	MRT2	PERIOSTIN
MRT2	Endothelial_Cell	0	MRT2	PERIOSTIN
MRT4	Endothelial_Cell	0	MRT2	PERIOSTIN
TAM	Endothelial_Cell	0	MRT2	PERIOSTIN
Monocyte	Endothelial_Cell	0	MRT2	PERIOSTIN
T_NK	Endothelial_Cell	0.004625954402	MRT2	PERIOSTIN
Fibroblast	Endothelial_Cell	0.05283091508	MRT2	PERIOSTIN
Endothelial_Cell	Endothelial_Cell	0	MRT2	PERIOSTIN
Endothelial_Progenitor	Endothelial_Cell	0.004625954402	MRT2	PERIOSTIN
Adipocyte	Endothelial_Cell	0	MRT2	PERIOSTIN
MRT1	Endothelial_Progenitor	0	MRT2	PERIOSTIN
MRT2	Endothelial_Progenitor	0	MRT2	PERIOSTIN
MRT4	Endothelial_Progenitor	0	MRT2	PERIOSTIN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	PERIOSTIN
Monocyte	Endothelial_Progenitor	0	MRT2	PERIOSTIN
T_NK	Endothelial_Progenitor	0	MRT2	PERIOSTIN
Fibroblast	Endothelial_Progenitor	0	MRT2	PERIOSTIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	PERIOSTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	PERIOSTIN
Adipocyte	Endothelial_Progenitor	0	MRT2	PERIOSTIN
MRT1	Adipocyte	0	MRT2	PERIOSTIN
MRT2	Adipocyte	0	MRT2	PERIOSTIN
MRT4	Adipocyte	0	MRT2	PERIOSTIN
TAM	Adipocyte	0	MRT2	PERIOSTIN
Monocyte	Adipocyte	0	MRT2	PERIOSTIN
T_NK	Adipocyte	0	MRT2	PERIOSTIN
Fibroblast	Adipocyte	0	MRT2	PERIOSTIN
Endothelial_Cell	Adipocyte	0	MRT2	PERIOSTIN
Endothelial_Progenitor	Adipocyte	0	MRT2	PERIOSTIN
Adipocyte	Adipocyte	0	MRT2	PERIOSTIN
MRT1	MRT1	0	MRT2	EGF
MRT2	MRT1	0	MRT2	EGF
MRT4	MRT1	0	MRT2	EGF
TAM	MRT1	0	MRT2	EGF
Monocyte	MRT1	0	MRT2	EGF
T_NK	MRT1	0	MRT2	EGF
Fibroblast	MRT1	0	MRT2	EGF
Endothelial_Cell	MRT1	0	MRT2	EGF
Endothelial_Progenitor	MRT1	0	MRT2	EGF
Adipocyte	MRT1	0	MRT2	EGF
MRT1	MRT2	0	MRT2	EGF
MRT2	MRT2	0	MRT2	EGF
MRT4	MRT2	0	MRT2	EGF

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0.04271632811	MRT2	EGF
Monocyte	MRT2	0	MRT2	EGF
T_NK	MRT2	0.01825053912	MRT2	EGF
Fibroblast	MRT2	0	MRT2	EGF
Endothelial_Cell	MRT2	0	MRT2	EGF
Endothelial_Progenitor	MRT2	0.03224556798	MRT2	EGF
Adipocyte	MRT2	0	MRT2	EGF
MRT1	MRT4	0	MRT2	EGF
MRT2	MRT4	0	MRT2	EGF
MRT4	MRT4	0	MRT2	EGF
TAM	MRT4	0	MRT2	EGF
Monocyte	MRT4	0	MRT2	EGF
T_NK	MRT4	0	MRT2	EGF
Fibroblast	MRT4	0	MRT2	EGF
Endothelial_Cell	MRT4	0	MRT2	EGF
Endothelial_Progenitor	MRT4	0	MRT2	EGF
Adipocyte	MRT4	0	MRT2	EGF
MRT1	TAM	0	MRT2	EGF
MRT2	TAM	0	MRT2	EGF
MRT4	TAM	0	MRT2	EGF
TAM	TAM	0.01417028171	MRT2	EGF
Monocyte	TAM	0	MRT2	EGF
T_NK	TAM	0.007495504739	MRT2	EGF
Fibroblast	TAM	0	MRT2	EGF
Endothelial_Cell	TAM	0	MRT2	EGF
Endothelial_Progenitor	TAM	0.01064863879	MRT2	EGF
Adipocyte	TAM	0	MRT2	EGF
MRT1	Monocyte	0	MRT2	EGF
MRT2	Monocyte	0	MRT2	EGF
MRT4	Monocyte	0	MRT2	EGF

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0.01775076807	MRT2	EGF
Monocyte	Monocyte	0	MRT2	EGF
T_NK	Monocyte	0.00920930697	MRT2	EGF
Fibroblast	Monocyte	0	MRT2	EGF
Endothelial_Cell	Monocyte	0	MRT2	EGF
Endothelial_Progenitor	Monocyte	0.01334618199	MRT2	EGF
Adipocyte	Monocyte	0	MRT2	EGF
MRT1	T_NK	0	MRT2	EGF
MRT2	T_NK	0	MRT2	EGF
MRT4	T_NK	0	MRT2	EGF
TAM	T_NK	0.01949736256	MRT2	EGF
Monocyte	T_NK	0	MRT2	EGF
T_NK	T_NK	0.00920930697	MRT2	EGF
Fibroblast	T_NK	0	MRT2	EGF
Endothelial_Cell	T_NK	0	MRT2	EGF
Endothelial_Progenitor	T_NK	0.0146645479	MRT2	EGF
Adipocyte	T_NK	0	MRT2	EGF
MRT1	Fibroblast	0	MRT2	EGF
MRT2	Fibroblast	0	MRT2	EGF
MRT4	Fibroblast	0	MRT2	EGF
TAM	Fibroblast	0.01525826801	MRT2	EGF
Monocyte	Fibroblast	0	MRT2	EGF
T_NK	Fibroblast	0.01486110792	MRT2	EGF
Fibroblast	Fibroblast	0	MRT2	EGF
Endothelial_Cell	Fibroblast	0	MRT2	EGF
Endothelial_Progenitor	Fibroblast	0.01146678957	MRT2	EGF
Adipocyte	Fibroblast	0	MRT2	EGF
MRT1	Endothelial_Cell	0	MRT2	EGF
MRT2	Endothelial_Cell	0	MRT2	EGF
MRT4	Endothelial_Cell	0	MRT2	EGF

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0.005239488277	MRT2	EGF
Monocyte	Endothelial_Cell	0	MRT2	EGF
T_NK	Endothelial_Cell	0.002318339467	MRT2	EGF
Fibroblast	Endothelial_Cell	0	MRT2	EGF
Endothelial_Cell	Endothelial_Cell	0	MRT2	EGF
Endothelial_Progenitor	Endothelial_Cell	0.003932693465	MRT2	EGF
Adipocyte	Endothelial_Cell	0	MRT2	EGF
MRT1	Endothelial_Progenitor	0	MRT2	EGF
MRT2	Endothelial_Progenitor	0	MRT2	EGF
MRT4	Endothelial_Progenitor	0	MRT2	EGF
TAM	Endothelial_Progenitor	0.01369129578	MRT2	EGF
Monocyte	Endothelial_Progenitor	0	MRT2	EGF
T_NK	Endothelial_Progenitor	0.006922919049	MRT2	EGF
Fibroblast	Endothelial_Progenitor	0	MRT2	EGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	EGF
Endothelial_Progenitor	Endothelial_Progenitor	0.01028836882	MRT2	EGF
Adipocyte	Endothelial_Progenitor	0	MRT2	EGF
MRT1	Adipocyte	0	MRT2	EGF
MRT2	Adipocyte	0	MRT2	EGF
MRT4	Adipocyte	0	MRT2	EGF
TAM	Adipocyte	0	MRT2	EGF
Monocyte	Adipocyte	0	MRT2	EGF
T_NK	Adipocyte	0	MRT2	EGF
Fibroblast	Adipocyte	0	MRT2	EGF
Endothelial_Cell	Adipocyte	0	MRT2	EGF
Endothelial_Progenitor	Adipocyte	0	MRT2	EGF
Adipocyte	Adipocyte	0	MRT2	EGF
MRT1	MRT1	0	MRT2	TENASCIN
MRT2	MRT1	0	MRT2	TENASCIN
MRT4	MRT1	0	MRT2	TENASCIN

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	TENASCIN
Monocyte	MRT1	0	MRT2	TENASCIN
T_NK	MRT1	0	MRT2	TENASCIN
Fibroblast	MRT1	0	MRT2	TENASCIN
Endothelial_Cell	MRT1	0	MRT2	TENASCIN
Endothelial_Progenitor	MRT1	0	MRT2	TENASCIN
Adipocyte	MRT1	0	MRT2	TENASCIN
MRT1	MRT2	0	MRT2	TENASCIN
MRT2	MRT2	0	MRT2	TENASCIN
MRT4	MRT2	0	MRT2	TENASCIN
TAM	MRT2	0	MRT2	TENASCIN
Monocyte	MRT2	0	MRT2	TENASCIN
T_NK	MRT2	0	MRT2	TENASCIN
Fibroblast	MRT2	0	MRT2	TENASCIN
Endothelial_Cell	MRT2	0	MRT2	TENASCIN
Endothelial_Progenitor	MRT2	0	MRT2	TENASCIN
Adipocyte	MRT2	0	MRT2	TENASCIN
MRT1	MRT4	0	MRT2	TENASCIN
MRT2	MRT4	0	MRT2	TENASCIN
MRT4	MRT4	0	MRT2	TENASCIN
TAM	MRT4	0	MRT2	TENASCIN
Monocyte	MRT4	0	MRT2	TENASCIN
T_NK	MRT4	0	MRT2	TENASCIN
Fibroblast	MRT4	0	MRT2	TENASCIN
Endothelial_Cell	MRT4	0	MRT2	TENASCIN
Endothelial_Progenitor	MRT4	0	MRT2	TENASCIN
Adipocyte	MRT4	0	MRT2	TENASCIN
MRT1	TAM	0	MRT2	TENASCIN
MRT2	TAM	0	MRT2	TENASCIN
MRT4	TAM	0	MRT2	TENASCIN

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	TENASCIN
Monocyte	TAM	0	MRT2	TENASCIN
T_NK	TAM	0	MRT2	TENASCIN
Fibroblast	TAM	0.02713385	MRT2	TENASCIN
Endothelial_Cell	TAM	0	MRT2	TENASCIN
Endothelial_Progenitor	TAM	0	MRT2	TENASCIN
Adipocyte	TAM	0	MRT2	TENASCIN
MRT1	Monocyte	0	MRT2	TENASCIN
MRT2	Monocyte	0	MRT2	TENASCIN
MRT4	Monocyte	0	MRT2	TENASCIN
TAM	Monocyte	0	MRT2	TENASCIN
Monocyte	Monocyte	0	MRT2	TENASCIN
T_NK	Monocyte	0	MRT2	TENASCIN
Fibroblast	Monocyte	0	MRT2	TENASCIN
Endothelial_Cell	Monocyte	0	MRT2	TENASCIN
Endothelial_Progenitor	Monocyte	0	MRT2	TENASCIN
Adipocyte	Monocyte	0	MRT2	TENASCIN
MRT1	T_NK	0	MRT2	TENASCIN
MRT2	T_NK	0	MRT2	TENASCIN
MRT4	T_NK	0	MRT2	TENASCIN
TAM	T_NK	0	MRT2	TENASCIN
Monocyte	T_NK	0	MRT2	TENASCIN
T_NK	T_NK	0	MRT2	TENASCIN
Fibroblast	T_NK	0	MRT2	TENASCIN
Endothelial_Cell	T_NK	0	MRT2	TENASCIN
Endothelial_Progenitor	T_NK	0	MRT2	TENASCIN
Adipocyte	T_NK	0	MRT2	TENASCIN
MRT1	Fibroblast	0	MRT2	TENASCIN
MRT2	Fibroblast	0	MRT2	TENASCIN
MRT4	Fibroblast	0	MRT2	TENASCIN

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	TENASCIN
Monocyte	Fibroblast	0	MRT2	TENASCIN
T_NK	Fibroblast	0	MRT2	TENASCIN
Fibroblast	Fibroblast	0	MRT2	TENASCIN
Endothelial_Cell	Fibroblast	0	MRT2	TENASCIN
Endothelial_Progenitor	Fibroblast	0	MRT2	TENASCIN
Adipocyte	Fibroblast	0	MRT2	TENASCIN
MRT1	Endothelial_Cell	0	MRT2	TENASCIN
MRT2	Endothelial_Cell	0	MRT2	TENASCIN
MRT4	Endothelial_Cell	0	MRT2	TENASCIN
TAM	Endothelial_Cell	0	MRT2	TENASCIN
Monocyte	Endothelial_Cell	0	MRT2	TENASCIN
T_NK	Endothelial_Cell	0	MRT2	TENASCIN
Fibroblast	Endothelial_Cell	0.1390547926	MRT2	TENASCIN
Endothelial_Cell	Endothelial_Cell	0	MRT2	TENASCIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	TENASCIN
Adipocyte	Endothelial_Cell	0	MRT2	TENASCIN
MRT1	Endothelial_Progenitor	0	MRT2	TENASCIN
MRT2	Endothelial_Progenitor	0	MRT2	TENASCIN
MRT4	Endothelial_Progenitor	0	MRT2	TENASCIN
TAM	Endothelial_Progenitor	0	MRT2	TENASCIN
Monocyte	Endothelial_Progenitor	0	MRT2	TENASCIN
T_NK	Endothelial_Progenitor	0	MRT2	TENASCIN
Fibroblast	Endothelial_Progenitor	0.09850488702	MRT2	TENASCIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	TENASCIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	TENASCIN
Adipocyte	Endothelial_Progenitor	0	MRT2	TENASCIN
MRT1	Adipocyte	0	MRT2	TENASCIN
MRT2	Adipocyte	0	MRT2	TENASCIN
MRT4	Adipocyte	0	MRT2	TENASCIN

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	TENASCIN
Monocyte	Adipocyte	0	MRT2	TENASCIN
T_NK	Adipocyte	0	MRT2	TENASCIN
Fibroblast	Adipocyte	0	MRT2	TENASCIN
Endothelial_Cell	Adipocyte	0	MRT2	TENASCIN
Endothelial_Progenitor	Adipocyte	0	MRT2	TENASCIN
Adipocyte	Adipocyte	0	MRT2	TENASCIN
MRT1	MRT1	0	MRT2	NOTCH
MRT2	MRT1	0	MRT2	NOTCH
MRT4	MRT1	0	MRT2	NOTCH
TAM	MRT1	0	MRT2	NOTCH
Monocyte	MRT1	0	MRT2	NOTCH
T_NK	MRT1	0	MRT2	NOTCH
Fibroblast	MRT1	0	MRT2	NOTCH
Endothelial_Cell	MRT1	0	MRT2	NOTCH
Endothelial_Progenitor	MRT1	0	MRT2	NOTCH
Adipocyte	MRT1	0	MRT2	NOTCH
MRT1	MRT2	0	MRT2	NOTCH
MRT2	MRT2	0	MRT2	NOTCH
MRT4	MRT2	0	MRT2	NOTCH
TAM	MRT2	0	MRT2	NOTCH
Monocyte	MRT2	0	MRT2	NOTCH
T_NK	MRT2	0	MRT2	NOTCH
Fibroblast	MRT2	0.001463961959	MRT2	NOTCH
Endothelial_Cell	MRT2	0.009331078387	MRT2	NOTCH
Endothelial_Progenitor	MRT2	0.003782301426	MRT2	NOTCH
Adipocyte	MRT2	0	MRT2	NOTCH
MRT1	MRT4	0	MRT2	NOTCH
MRT2	MRT4	0	MRT2	NOTCH
MRT4	MRT4	0	MRT2	NOTCH

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	NOTCH
Monocyte	MRT4	0	MRT2	NOTCH
T_NK	MRT4	0	MRT2	NOTCH
Fibroblast	MRT4	0	MRT2	NOTCH
Endothelial_Cell	MRT4	0	MRT2	NOTCH
Endothelial_Progenitor	MRT4	0	MRT2	NOTCH
Adipocyte	MRT4	0	MRT2	NOTCH
MRT1	TAM	0	MRT2	NOTCH
MRT2	TAM	0	MRT2	NOTCH
MRT4	TAM	0	MRT2	NOTCH
TAM	TAM	0	MRT2	NOTCH
Monocyte	TAM	0	MRT2	NOTCH
T_NK	TAM	0	MRT2	NOTCH
Fibroblast	TAM	0.001463961959	MRT2	NOTCH
Endothelial_Cell	TAM	0.009331078387	MRT2	NOTCH
Endothelial_Progenitor	TAM	0.003782301426	MRT2	NOTCH
Adipocyte	TAM	0	MRT2	NOTCH
MRT1	Monocyte	0	MRT2	NOTCH
MRT2	Monocyte	0	MRT2	NOTCH
MRT4	Monocyte	0	MRT2	NOTCH
TAM	Monocyte	0	MRT2	NOTCH
Monocyte	Monocyte	0	MRT2	NOTCH
T_NK	Monocyte	0	MRT2	NOTCH
Fibroblast	Monocyte	0.002923643814	MRT2	NOTCH
Endothelial_Cell	Monocyte	0.01850258531	MRT2	NOTCH
Endothelial_Progenitor	Monocyte	0.007549598216	MRT2	NOTCH
Adipocyte	Monocyte	0	MRT2	NOTCH
MRT1	T_NK	0	MRT2	NOTCH
MRT2	T_NK	0	MRT2	NOTCH
MRT4	T_NK	0	MRT2	NOTCH

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	NOTCH
Monocyte	T_NK	0	MRT2	NOTCH
T_NK	T_NK	0	MRT2	NOTCH
Fibroblast	T_NK	0	MRT2	NOTCH
Endothelial_Cell	T_NK	0	MRT2	NOTCH
Endothelial_Progenitor	T_NK	0	MRT2	NOTCH
Adipocyte	T_NK	0	MRT2	NOTCH
MRT1	Fibroblast	0	MRT2	NOTCH
MRT2	Fibroblast	0	MRT2	NOTCH
MRT4	Fibroblast	0	MRT2	NOTCH
TAM	Fibroblast	0	MRT2	NOTCH
Monocyte	Fibroblast	0	MRT2	NOTCH
T_NK	Fibroblast	0	MRT2	NOTCH
Fibroblast	Fibroblast	0.00815638664	MRT2	NOTCH
Endothelial_Cell	Fibroblast	0.05138460007	MRT2	NOTCH
Endothelial_Progenitor	Fibroblast	0.02105471505	MRT2	NOTCH
Adipocyte	Fibroblast	0	MRT2	NOTCH
MRT1	Endothelial_Cell	0	MRT2	NOTCH
MRT2	Endothelial_Cell	0	MRT2	NOTCH
MRT4	Endothelial_Cell	0	MRT2	NOTCH
TAM	Endothelial_Cell	0	MRT2	NOTCH
Monocyte	Endothelial_Cell	0	MRT2	NOTCH
T_NK	Endothelial_Cell	0	MRT2	NOTCH
Fibroblast	Endothelial_Cell	0.003775526319	MRT2	NOTCH
Endothelial_Cell	Endothelial_Cell	0.02379528756	MRT2	NOTCH
Endothelial_Progenitor	Endothelial_Cell	0.009746407017	MRT2	NOTCH
Adipocyte	Endothelial_Cell	0	MRT2	NOTCH
MRT1	Endothelial_Progenitor	0	MRT2	NOTCH
MRT2	Endothelial_Progenitor	0	MRT2	NOTCH
MRT4	Endothelial_Progenitor	0	MRT2	NOTCH

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	NOTCH
Monocyte	Endothelial_Progenitor	0	MRT2	NOTCH
T_NK	Endothelial_Progenitor	0	MRT2	NOTCH
Fibroblast	Endothelial_Progenitor	0.008614856713	MRT2	NOTCH
Endothelial_Cell	Endothelial_Progenitor	0.05392103555	MRT2	NOTCH
Endothelial_Progenitor	Endothelial_Progenitor	0.02222748242	MRT2	NOTCH
Adipocyte	Endothelial_Progenitor	0	MRT2	NOTCH
MRT1	Adipocyte	0	MRT2	NOTCH
MRT2	Adipocyte	0	MRT2	NOTCH
MRT4	Adipocyte	0	MRT2	NOTCH
TAM	Adipocyte	0	MRT2	NOTCH
Monocyte	Adipocyte	0	MRT2	NOTCH
T_NK	Adipocyte	0	MRT2	NOTCH
Fibroblast	Adipocyte	0	MRT2	NOTCH
Endothelial_Cell	Adipocyte	0	MRT2	NOTCH
Endothelial_Progenitor	Adipocyte	0	MRT2	NOTCH
Adipocyte	Adipocyte	0	MRT2	NOTCH
MRT1	MRT1	0	MRT2	ANGPT
MRT2	MRT1	0	MRT2	ANGPT
MRT4	MRT1	0	MRT2	ANGPT
TAM	MRT1	0	MRT2	ANGPT
Monocyte	MRT1	0	MRT2	ANGPT
T_NK	MRT1	0	MRT2	ANGPT
Fibroblast	MRT1	0	MRT2	ANGPT
Endothelial_Cell	MRT1	0	MRT2	ANGPT
Endothelial_Progenitor	MRT1	0	MRT2	ANGPT
Adipocyte	MRT1	0	MRT2	ANGPT
MRT1	MRT2	0	MRT2	ANGPT
MRT2	MRT2	0	MRT2	ANGPT
MRT4	MRT2	0	MRT2	ANGPT

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	ANGPT
Monocyte	MRT2	0	MRT2	ANGPT
T_NK	MRT2	0	MRT2	ANGPT
Fibroblast	MRT2	0	MRT2	ANGPT
Endothelial_Cell	MRT2	0.00537897585	MRT2	ANGPT
Endothelial_Progenitor	MRT2	0.01024088565	MRT2	ANGPT
Adipocyte	MRT2	0	MRT2	ANGPT
MRT1	MRT4	0	MRT2	ANGPT
MRT2	MRT4	0	MRT2	ANGPT
MRT4	MRT4	0	MRT2	ANGPT
TAM	MRT4	0	MRT2	ANGPT
Monocyte	MRT4	0	MRT2	ANGPT
T_NK	MRT4	0	MRT2	ANGPT
Fibroblast	MRT4	0	MRT2	ANGPT
Endothelial_Cell	MRT4	0	MRT2	ANGPT
Endothelial_Progenitor	MRT4	0	MRT2	ANGPT
Adipocyte	MRT4	0	MRT2	ANGPT
MRT1	TAM	0	MRT2	ANGPT
MRT2	TAM	0	MRT2	ANGPT
MRT4	TAM	0	MRT2	ANGPT
TAM	TAM	0	MRT2	ANGPT
Monocyte	TAM	0	MRT2	ANGPT
T_NK	TAM	0	MRT2	ANGPT
Fibroblast	TAM	0	MRT2	ANGPT
Endothelial_Cell	TAM	0	MRT2	ANGPT
Endothelial_Progenitor	TAM	0	MRT2	ANGPT
Adipocyte	TAM	0	MRT2	ANGPT
MRT1	Monocyte	0	MRT2	ANGPT
MRT2	Monocyte	0	MRT2	ANGPT
MRT4	Monocyte	0	MRT2	ANGPT

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	ANGPT
Monocyte	Monocyte	0	MRT2	ANGPT
T_NK	Monocyte	0	MRT2	ANGPT
Fibroblast	Monocyte	0	MRT2	ANGPT
Endothelial_Cell	Monocyte	0	MRT2	ANGPT
Endothelial_Progenitor	Monocyte	0	MRT2	ANGPT
Adipocyte	Monocyte	0	MRT2	ANGPT
MRT1	T_NK	0	MRT2	ANGPT
MRT2	T_NK	0	MRT2	ANGPT
MRT4	T_NK	0	MRT2	ANGPT
TAM	T_NK	0	MRT2	ANGPT
Monocyte	T_NK	0	MRT2	ANGPT
T_NK	T_NK	0	MRT2	ANGPT
Fibroblast	T_NK	0	MRT2	ANGPT
Endothelial_Cell	T_NK	0	MRT2	ANGPT
Endothelial_Progenitor	T_NK	0	MRT2	ANGPT
Adipocyte	T_NK	0	MRT2	ANGPT
MRT1	Fibroblast	0	MRT2	ANGPT
MRT2	Fibroblast	0	MRT2	ANGPT
MRT4	Fibroblast	0	MRT2	ANGPT
TAM	Fibroblast	0	MRT2	ANGPT
Monocyte	Fibroblast	0	MRT2	ANGPT
T_NK	Fibroblast	0	MRT2	ANGPT
Fibroblast	Fibroblast	0	MRT2	ANGPT
Endothelial_Cell	Fibroblast	0.02202029908	MRT2	ANGPT
Endothelial_Progenitor	Fibroblast	0.04129927942	MRT2	ANGPT
Adipocyte	Fibroblast	0	MRT2	ANGPT
MRT1	Endothelial_Cell	0	MRT2	ANGPT
MRT2	Endothelial_Cell	0	MRT2	ANGPT
MRT4	Endothelial_Cell	0	MRT2	ANGPT

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	ANGPT
Monocyte	Endothelial_Cell	0	MRT2	ANGPT
T_NK	Endothelial_Cell	0	MRT2	ANGPT
Fibroblast	Endothelial_Cell	0	MRT2	ANGPT
Endothelial_Cell	Endothelial_Cell	0.03011646911	MRT2	ANGPT
Endothelial_Progenitor	Endothelial_Cell	0.05647894448	MRT2	ANGPT
Adipocyte	Endothelial_Cell	0	MRT2	ANGPT
MRT1	Endothelial_Progenitor	0	MRT2	ANGPT
MRT2	Endothelial_Progenitor	0	MRT2	ANGPT
MRT4	Endothelial_Progenitor	0	MRT2	ANGPT
TAM	Endothelial_Progenitor	0	MRT2	ANGPT
Monocyte	Endothelial_Progenitor	0	MRT2	ANGPT
T_NK	Endothelial_Progenitor	0	MRT2	ANGPT
Fibroblast	Endothelial_Progenitor	0	MRT2	ANGPT
Endothelial_Cell	Endothelial_Progenitor	0.02646678888	MRT2	ANGPT
Endothelial_Progenitor	Endothelial_Progenitor	0.04993102425	MRT2	ANGPT
Adipocyte	Endothelial_Progenitor	0	MRT2	ANGPT
MRT1	Adipocyte	0	MRT2	ANGPT
MRT2	Adipocyte	0	MRT2	ANGPT
MRT4	Adipocyte	0	MRT2	ANGPT
TAM	Adipocyte	0	MRT2	ANGPT
Monocyte	Adipocyte	0	MRT2	ANGPT
T_NK	Adipocyte	0	MRT2	ANGPT
Fibroblast	Adipocyte	0	MRT2	ANGPT
Endothelial_Cell	Adipocyte	0	MRT2	ANGPT
Endothelial_Progenitor	Adipocyte	0	MRT2	ANGPT
Adipocyte	Adipocyte	0	MRT2	ANGPT
MRT1	MRT1	0	MRT2	MHC-I
MRT2	MRT1	0	MRT2	MHC-I
MRT4	MRT1	0	MRT2	MHC-I

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	MHC-I
Monocyte	MRT1	0	MRT2	MHC-I
T_NK	MRT1	0	MRT2	MHC-I
Fibroblast	MRT1	0	MRT2	MHC-I
Endothelial_Cell	MRT1	0	MRT2	MHC-I
Endothelial_Progenitor	MRT1	0	MRT2	MHC-I
Adipocyte	MRT1	0	MRT2	MHC-I
MRT1	MRT2	0	MRT2	MHC-I
MRT2	MRT2	0	MRT2	MHC-I
MRT4	MRT2	0	MRT2	MHC-I
TAM	MRT2	0	MRT2	MHC-I
Monocyte	MRT2	0	MRT2	MHC-I
T_NK	MRT2	0	MRT2	MHC-I
Fibroblast	MRT2	0	MRT2	MHC-I
Endothelial_Cell	MRT2	0	MRT2	MHC-I
Endothelial_Progenitor	MRT2	0	MRT2	MHC-I
Adipocyte	MRT2	0	MRT2	MHC-I
MRT1	MRT4	0	MRT2	MHC-I
MRT2	MRT4	0	MRT2	MHC-I
MRT4	MRT4	0	MRT2	MHC-I
TAM	MRT4	0	MRT2	MHC-I
Monocyte	MRT4	0	MRT2	MHC-I
T_NK	MRT4	0	MRT2	MHC-I
Fibroblast	MRT4	0	MRT2	MHC-I
Endothelial_Cell	MRT4	0	MRT2	MHC-I
Endothelial_Progenitor	MRT4	0	MRT2	MHC-I
Adipocyte	MRT4	0	MRT2	MHC-I
MRT1	TAM	0	MRT2	MHC-I
MRT2	TAM	0	MRT2	MHC-I
MRT4	TAM	0	MRT2	MHC-I

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	MHC-I
Monocyte	TAM	0	MRT2	MHC-I
T_NK	TAM	0	MRT2	MHC-I
Fibroblast	TAM	0	MRT2	MHC-I
Endothelial_Cell	TAM	0	MRT2	MHC-I
Endothelial_Progenitor	TAM	0	MRT2	MHC-I
Adipocyte	TAM	0	MRT2	MHC-I
MRT1	Monocyte	0	MRT2	MHC-I
MRT2	Monocyte	0	MRT2	MHC-I
MRT4	Monocyte	0	MRT2	MHC-I
TAM	Monocyte	0	MRT2	MHC-I
Monocyte	Monocyte	0	MRT2	MHC-I
T_NK	Monocyte	0	MRT2	MHC-I
Fibroblast	Monocyte	0	MRT2	MHC-I
Endothelial_Cell	Monocyte	0	MRT2	MHC-I
Endothelial_Progenitor	Monocyte	0	MRT2	MHC-I
Adipocyte	Monocyte	0	MRT2	MHC-I
MRT1	T_NK	0	MRT2	MHC-I
MRT2	T_NK	0.01026134114	MRT2	MHC-I
MRT4	T_NK	0	MRT2	MHC-I
TAM	T_NK	0.02643673577	MRT2	MHC-I
Monocyte	T_NK	0.04078709846	MRT2	MHC-I
T_NK	T_NK	0.02047945247	MRT2	MHC-I
Fibroblast	T_NK	0	MRT2	MHC-I
Endothelial_Cell	T_NK	0.07676512771	MRT2	MHC-I
Endothelial_Progenitor	T_NK	0.06585188299	MRT2	MHC-I
Adipocyte	T_NK	0	MRT2	MHC-I
MRT1	Fibroblast	0	MRT2	MHC-I
MRT2	Fibroblast	0	MRT2	MHC-I
MRT4	Fibroblast	0	MRT2	MHC-I

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	MHC-I
Monocyte	Fibroblast	0	MRT2	MHC-I
T_NK	Fibroblast	0	MRT2	MHC-I
Fibroblast	Fibroblast	0	MRT2	MHC-I
Endothelial_Cell	Fibroblast	0	MRT2	MHC-I
Endothelial_Progenitor	Fibroblast	0	MRT2	MHC-I
Adipocyte	Fibroblast	0	MRT2	MHC-I
MRT1	Endothelial_Cell	0	MRT2	MHC-I
MRT2	Endothelial_Cell	0	MRT2	MHC-I
MRT4	Endothelial_Cell	0	MRT2	MHC-I
TAM	Endothelial_Cell	0	MRT2	MHC-I
Monocyte	Endothelial_Cell	0	MRT2	MHC-I
T_NK	Endothelial_Cell	0	MRT2	MHC-I
Fibroblast	Endothelial_Cell	0	MRT2	MHC-I
Endothelial_Cell	Endothelial_Cell	0	MRT2	MHC-I
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	MHC-I
Adipocyte	Endothelial_Cell	0	MRT2	MHC-I
MRT1	Endothelial_Progenitor	0	MRT2	MHC-I
MRT2	Endothelial_Progenitor	0	MRT2	MHC-I
MRT4	Endothelial_Progenitor	0	MRT2	MHC-I
TAM	Endothelial_Progenitor	0	MRT2	MHC-I
Monocyte	Endothelial_Progenitor	0	MRT2	MHC-I
T_NK	Endothelial_Progenitor	0	MRT2	MHC-I
Fibroblast	Endothelial_Progenitor	0	MRT2	MHC-I
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	MHC-I
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	MHC-I
Adipocyte	Endothelial_Progenitor	0	MRT2	MHC-I
MRT1	Adipocyte	0	MRT2	MHC-I
MRT2	Adipocyte	0	MRT2	MHC-I
MRT4	Adipocyte	0	MRT2	MHC-I

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	MHC-I
Monocyte	Adipocyte	0	MRT2	MHC-I
T_NK	Adipocyte	0	MRT2	MHC-I
Fibroblast	Adipocyte	0	MRT2	MHC-I
Endothelial_Cell	Adipocyte	0	MRT2	MHC-I
Endothelial_Progenitor	Adipocyte	0	MRT2	MHC-I
Adipocyte	Adipocyte	0	MRT2	MHC-I
MRT1	MRT1	0	MRT2	MIF
MRT2	MRT1	0	MRT2	MIF
MRT4	MRT1	0	MRT2	MIF
TAM	MRT1	0	MRT2	MIF
Monocyte	MRT1	0	MRT2	MIF
T_NK	MRT1	0	MRT2	MIF
Fibroblast	MRT1	0	MRT2	MIF
Endothelial_Cell	MRT1	0	MRT2	MIF
Endothelial_Progenitor	MRT1	0	MRT2	MIF
Adipocyte	MRT1	0	MRT2	MIF
MRT1	MRT2	0	MRT2	MIF
MRT2	MRT2	0	MRT2	MIF
MRT4	MRT2	0	MRT2	MIF
TAM	MRT2	0	MRT2	MIF
Monocyte	MRT2	0	MRT2	MIF
T_NK	MRT2	0	MRT2	MIF
Fibroblast	MRT2	0	MRT2	MIF
Endothelial_Cell	MRT2	0	MRT2	MIF
Endothelial_Progenitor	MRT2	0	MRT2	MIF
Adipocyte	MRT2	0	MRT2	MIF
MRT1	MRT4	0	MRT2	MIF
MRT2	MRT4	0	MRT2	MIF
MRT4	MRT4	0	MRT2	MIF

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	MIF
Monocyte	MRT4	0	MRT2	MIF
T_NK	MRT4	0	MRT2	MIF
Fibroblast	MRT4	0	MRT2	MIF
Endothelial_Cell	MRT4	0	MRT2	MIF
Endothelial_Progenitor	MRT4	0	MRT2	MIF
Adipocyte	MRT4	0	MRT2	MIF
MRT1	TAM	0	MRT2	MIF
MRT2	TAM	0	MRT2	MIF
MRT4	TAM	0	MRT2	MIF
TAM	TAM	0	MRT2	MIF
Monocyte	TAM	0	MRT2	MIF
T_NK	TAM	0	MRT2	MIF
Fibroblast	TAM	0.01246442	MRT2	MIF
Endothelial_Cell	TAM	0.04328968221	MRT2	MIF
Endothelial_Progenitor	TAM	0.01246442	MRT2	MIF
Adipocyte	TAM	0	MRT2	MIF
MRT1	Monocyte	0	MRT2	MIF
MRT2	Monocyte	0	MRT2	MIF
MRT4	Monocyte	0	MRT2	MIF
TAM	Monocyte	0	MRT2	MIF
Monocyte	Monocyte	0	MRT2	MIF
T_NK	Monocyte	0	MRT2	MIF
Fibroblast	Monocyte	0.01467697866	MRT2	MIF
Endothelial_Cell	Monocyte	0.05069314847	MRT2	MIF
Endothelial_Progenitor	Monocyte	0.01467697866	MRT2	MIF
Adipocyte	Monocyte	0	MRT2	MIF
MRT1	T_NK	0	MRT2	MIF
MRT2	T_NK	0	MRT2	MIF
MRT4	T_NK	0	MRT2	MIF

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	MIF
Monocyte	T_NK	0	MRT2	MIF
T_NK	T_NK	0	MRT2	MIF
Fibroblast	T_NK	0.006814655149	MRT2	MIF
Endothelial_Cell	T_NK	0.02400737812	MRT2	MIF
Endothelial_Progenitor	T_NK	0.006814655149	MRT2	MIF
Adipocyte	T_NK	0	MRT2	MIF
MRT1	Fibroblast	0	MRT2	MIF
MRT2	Fibroblast	0	MRT2	MIF
MRT4	Fibroblast	0	MRT2	MIF
TAM	Fibroblast	0	MRT2	MIF
Monocyte	Fibroblast	0	MRT2	MIF
T_NK	Fibroblast	0	MRT2	MIF
Fibroblast	Fibroblast	0	MRT2	MIF
Endothelial_Cell	Fibroblast	0	MRT2	MIF
Endothelial_Progenitor	Fibroblast	0	MRT2	MIF
Adipocyte	Fibroblast	0	MRT2	MIF
MRT1	Endothelial_Cell	0	MRT2	MIF
MRT2	Endothelial_Cell	0	MRT2	MIF
MRT4	Endothelial_Cell	0	MRT2	MIF
TAM	Endothelial_Cell	0	MRT2	MIF
Monocyte	Endothelial_Cell	0	MRT2	MIF
T_NK	Endothelial_Cell	0	MRT2	MIF
Fibroblast	Endothelial_Cell	0.000366392778	MRT2	MIF
Endothelial_Cell	Endothelial_Cell	0.001312261513	MRT2	MIF
Endothelial_Progenitor	Endothelial_Cell	0.000366392778	MRT2	MIF
Adipocyte	Endothelial_Cell	0	MRT2	MIF
MRT1	Endothelial_Progenitor	0	MRT2	MIF
MRT2	Endothelial_Progenitor	0	MRT2	MIF
MRT4	Endothelial_Progenitor	0	MRT2	MIF

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	MIF
Monocyte	Endothelial_Progenitor	0	MRT2	MIF
T_NK	Endothelial_Progenitor	0	MRT2	MIF
Fibroblast	Endothelial_Progenitor	0.001463961959	MRT2	MIF
Endothelial_Cell	Endothelial_Progenitor	0.005228462722	MRT2	MIF
Endothelial_Progenitor	Endothelial_Progenitor	0.001463961959	MRT2	MIF
Adipocyte	Endothelial_Progenitor	0	MRT2	MIF
MRT1	Adipocyte	0	MRT2	MIF
MRT2	Adipocyte	0	MRT2	MIF
MRT4	Adipocyte	0	MRT2	MIF
TAM	Adipocyte	0	MRT2	MIF
Monocyte	Adipocyte	0	MRT2	MIF
T_NK	Adipocyte	0	MRT2	MIF
Fibroblast	Adipocyte	0	MRT2	MIF
Endothelial_Cell	Adipocyte	0	MRT2	MIF
Endothelial_Progenitor	Adipocyte	0	MRT2	MIF
Adipocyte	Adipocyte	0	MRT2	MIF
MRT1	MRT1	0	MRT2	CD46
MRT2	MRT1	0	MRT2	CD46
MRT4	MRT1	0	MRT2	CD46
TAM	MRT1	0	MRT2	CD46
Monocyte	MRT1	0	MRT2	CD46
T_NK	MRT1	0	MRT2	CD46
Fibroblast	MRT1	0	MRT2	CD46
Endothelial_Cell	MRT1	0	MRT2	CD46
Endothelial_Progenitor	MRT1	0	MRT2	CD46
Adipocyte	MRT1	0	MRT2	CD46
MRT1	MRT2	0	MRT2	CD46
MRT2	MRT2	0	MRT2	CD46
MRT4	MRT2	0	MRT2	CD46

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	CD46
Monocyte	MRT2	0	MRT2	CD46
T_NK	MRT2	0	MRT2	CD46
Fibroblast	MRT2	0	MRT2	CD46
Endothelial_Cell	MRT2	0	MRT2	CD46
Endothelial_Progenitor	MRT2	0	MRT2	CD46
Adipocyte	MRT2	0	MRT2	CD46
MRT1	MRT4	0	MRT2	CD46
MRT2	MRT4	0	MRT2	CD46
MRT4	MRT4	0	MRT2	CD46
TAM	MRT4	0	MRT2	CD46
Monocyte	MRT4	0	MRT2	CD46
T_NK	MRT4	0	MRT2	CD46
Fibroblast	MRT4	0	MRT2	CD46
Endothelial_Cell	MRT4	0	MRT2	CD46
Endothelial_Progenitor	MRT4	0	MRT2	CD46
Adipocyte	MRT4	0	MRT2	CD46
MRT1	TAM	0	MRT2	CD46
MRT2	TAM	0	MRT2	CD46
MRT4	TAM	0	MRT2	CD46
TAM	TAM	0	MRT2	CD46
Monocyte	TAM	0	MRT2	CD46
T_NK	TAM	0	MRT2	CD46
Fibroblast	TAM	0	MRT2	CD46
Endothelial_Cell	TAM	0	MRT2	CD46
Endothelial_Progenitor	TAM	0	MRT2	CD46
Adipocyte	TAM	0	MRT2	CD46
MRT1	Monocyte	0	MRT2	CD46
MRT2	Monocyte	0	MRT2	CD46
MRT4	Monocyte	0	MRT2	CD46

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	CD46
Monocyte	Monocyte	0	MRT2	CD46
T_NK	Monocyte	0	MRT2	CD46
Fibroblast	Monocyte	0	MRT2	CD46
Endothelial_Cell	Monocyte	0	MRT2	CD46
Endothelial_Progenitor	Monocyte	0	MRT2	CD46
Adipocyte	Monocyte	0	MRT2	CD46
MRT1	T_NK	0	MRT2	CD46
MRT2	T_NK	0	MRT2	CD46
MRT4	T_NK	0	MRT2	CD46
TAM	T_NK	0	MRT2	CD46
Monocyte	T_NK	0	MRT2	CD46
T_NK	T_NK	0	MRT2	CD46
Fibroblast	T_NK	0	MRT2	CD46
Endothelial_Cell	T_NK	0	MRT2	CD46
Endothelial_Progenitor	T_NK	0	MRT2	CD46
Adipocyte	T_NK	0	MRT2	CD46
MRT1	Fibroblast	0	MRT2	CD46
MRT2	Fibroblast	0.001463961959	MRT2	CD46
MRT4	Fibroblast	0	MRT2	CD46
TAM	Fibroblast	0.001463961959	MRT2	CD46
Monocyte	Fibroblast	0.002318339467	MRT2	CD46
T_NK	Fibroblast	0.002318339467	MRT2	CD46
Fibroblast	Fibroblast	0.001463961959	MRT2	CD46
Endothelial_Cell	Fibroblast	0.001463961959	MRT2	CD46
Endothelial_Progenitor	Fibroblast	0.006527046798	MRT2	CD46
Adipocyte	Fibroblast	0	MRT2	CD46
MRT1	Endothelial_Cell	0	MRT2	CD46
MRT2	Endothelial_Cell	0.008964685608	MRT2	CD46
MRT4	Endothelial_Cell	0	MRT2	CD46

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0.008964685608	MRT2	CD46
Monocyte	Endothelial_Cell	0.01413456877	MRT2	CD46
T_NK	Endothelial_Cell	0.01413456877	MRT2	CD46
Fibroblast	Endothelial_Cell	0.008964685608	MRT2	CD46
Endothelial_Cell	Endothelial_Cell	0.008964685608	MRT2	CD46
Endothelial_Progenitor	Endothelial_Cell	0.03895681705	MRT2	CD46
Adipocyte	Endothelial_Cell	0	MRT2	CD46
MRT1	Endothelial_Progenitor	0	MRT2	CD46
MRT2	Endothelial_Progenitor	0.002318339467	MRT2	CD46
MRT4	Endothelial_Progenitor	0	MRT2	CD46
TAM	Endothelial_Progenitor	0.002318339467	MRT2	CD46
Monocyte	Endothelial_Progenitor	0.003669504751	MRT2	CD46
T_NK	Endothelial_Progenitor	0.003669504751	MRT2	CD46
Fibroblast	Endothelial_Progenitor	0.002318339467	MRT2	CD46
Endothelial_Cell	Endothelial_Progenitor	0.002318339467	MRT2	CD46
Endothelial_Progenitor	Endothelial_Progenitor	0.01030577616	MRT2	CD46
Adipocyte	Endothelial_Progenitor	0	MRT2	CD46
MRT1	Adipocyte	0	MRT2	CD46
MRT2	Adipocyte	0	MRT2	CD46
MRT4	Adipocyte	0	MRT2	CD46
TAM	Adipocyte	0	MRT2	CD46
Monocyte	Adipocyte	0	MRT2	CD46
T_NK	Adipocyte	0	MRT2	CD46
Fibroblast	Adipocyte	0	MRT2	CD46
Endothelial_Cell	Adipocyte	0	MRT2	CD46
Endothelial_Progenitor	Adipocyte	0	MRT2	CD46
Adipocyte	Adipocyte	0	MRT2	CD46
MRT1	MRT1	0	MRT2	JAM
MRT2	MRT1	0	MRT2	JAM
MRT4	MRT1	0	MRT2	JAM

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	JAM
Monocyte	MRT1	0	MRT2	JAM
T_NK	MRT1	0	MRT2	JAM
Fibroblast	MRT1	0	MRT2	JAM
Endothelial_Cell	MRT1	0	MRT2	JAM
Endothelial_Progenitor	MRT1	0	MRT2	JAM
Adipocyte	MRT1	0	MRT2	JAM
MRT1	MRT2	0	MRT2	JAM
MRT2	MRT2	0.03867685801	MRT2	JAM
MRT4	MRT2	0	MRT2	JAM
TAM	MRT2	0	MRT2	JAM
Monocyte	MRT2	0	MRT2	JAM
T_NK	MRT2	0	MRT2	JAM
Fibroblast	MRT2	0.01057998894	MRT2	JAM
Endothelial_Cell	MRT2	0	MRT2	JAM
Endothelial_Progenitor	MRT2	0	MRT2	JAM
Adipocyte	MRT2	0	MRT2	JAM
MRT1	MRT4	0	MRT2	JAM
MRT2	MRT4	0	MRT2	JAM
MRT4	MRT4	0	MRT2	JAM
TAM	MRT4	0	MRT2	JAM
Monocyte	MRT4	0	MRT2	JAM
T_NK	MRT4	0	MRT2	JAM
Fibroblast	MRT4	0	MRT2	JAM
Endothelial_Cell	MRT4	0	MRT2	JAM
Endothelial_Progenitor	MRT4	0	MRT2	JAM
Adipocyte	MRT4	0	MRT2	JAM
MRT1	TAM	0	MRT2	JAM
MRT2	TAM	0	MRT2	JAM
MRT4	TAM	0	MRT2	JAM

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	JAM
Monocyte	TAM	0	MRT2	JAM
T_NK	TAM	0	MRT2	JAM
Fibroblast	TAM	0	MRT2	JAM
Endothelial_Cell	TAM	0	MRT2	JAM
Endothelial_Progenitor	TAM	0	MRT2	JAM
Adipocyte	TAM	0	MRT2	JAM
MRT1	Monocyte	0	MRT2	JAM
MRT2	Monocyte	0	MRT2	JAM
MRT4	Monocyte	0	MRT2	JAM
TAM	Monocyte	0	MRT2	JAM
Monocyte	Monocyte	0	MRT2	JAM
T_NK	Monocyte	0	MRT2	JAM
Fibroblast	Monocyte	0	MRT2	JAM
Endothelial_Cell	Monocyte	0	MRT2	JAM
Endothelial_Progenitor	Monocyte	0	MRT2	JAM
Adipocyte	Monocyte	0	MRT2	JAM
MRT1	T_NK	0	MRT2	JAM
MRT2	T_NK	0	MRT2	JAM
MRT4	T_NK	0	MRT2	JAM
TAM	T_NK	0	MRT2	JAM
Monocyte	T_NK	0	MRT2	JAM
T_NK	T_NK	0	MRT2	JAM
Fibroblast	T_NK	0.006922919049	MRT2	JAM
Endothelial_Cell	T_NK	0	MRT2	JAM
Endothelial_Progenitor	T_NK	0	MRT2	JAM
Adipocyte	T_NK	0	MRT2	JAM
MRT1	Fibroblast	0	MRT2	JAM
MRT2	Fibroblast	0.0529888906	MRT2	JAM
MRT4	Fibroblast	0	MRT2	JAM

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	JAM
Monocyte	Fibroblast	0	MRT2	JAM
T_NK	Fibroblast	0.006922919049	MRT2	JAM
Fibroblast	Fibroblast	0.003669504751	MRT2	JAM
Endothelial_Cell	Fibroblast	0.002318339467	MRT2	JAM
Endothelial_Progenitor	Fibroblast	0	MRT2	JAM
Adipocyte	Fibroblast	0	MRT2	JAM
MRT1	Endothelial_Cell	0	MRT2	JAM
MRT2	Endothelial_Cell	0	MRT2	JAM
MRT4	Endothelial_Cell	0	MRT2	JAM
TAM	Endothelial_Cell	0	MRT2	JAM
Monocyte	Endothelial_Cell	0	MRT2	JAM
T_NK	Endothelial_Cell	0	MRT2	JAM
Fibroblast	Endothelial_Cell	0.002318339467	MRT2	JAM
Endothelial_Cell	Endothelial_Cell	0	MRT2	JAM
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	JAM
Adipocyte	Endothelial_Cell	0	MRT2	JAM
MRT1	Endothelial_Progenitor	0	MRT2	JAM
MRT2	Endothelial_Progenitor	0	MRT2	JAM
MRT4	Endothelial_Progenitor	0	MRT2	JAM
TAM	Endothelial_Progenitor	0	MRT2	JAM
Monocyte	Endothelial_Progenitor	0	MRT2	JAM
T_NK	Endothelial_Progenitor	0	MRT2	JAM
Fibroblast	Endothelial_Progenitor	0	MRT2	JAM
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	JAM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	JAM
Adipocyte	Endothelial_Progenitor	0	MRT2	JAM
MRT1	Adipocyte	0	MRT2	JAM
MRT2	Adipocyte	0	MRT2	JAM
MRT4	Adipocyte	0	MRT2	JAM

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	JAM
Monocyte	Adipocyte	0	MRT2	JAM
T_NK	Adipocyte	0	MRT2	JAM
Fibroblast	Adipocyte	0	MRT2	JAM
Endothelial_Cell	Adipocyte	0	MRT2	JAM
Endothelial_Progenitor	Adipocyte	0	MRT2	JAM
Adipocyte	Adipocyte	0	MRT2	JAM
MRT1	MRT1	0	MRT2	GALECTIN
MRT2	MRT1	0	MRT2	GALECTIN
MRT4	MRT1	0	MRT2	GALECTIN
TAM	MRT1	0	MRT2	GALECTIN
Monocyte	MRT1	0	MRT2	GALECTIN
T_NK	MRT1	0	MRT2	GALECTIN
Fibroblast	MRT1	0	MRT2	GALECTIN
Endothelial_Cell	MRT1	0	MRT2	GALECTIN
Endothelial_Progenitor	MRT1	0	MRT2	GALECTIN
Adipocyte	MRT1	0	MRT2	GALECTIN
MRT1	MRT2	0	MRT2	GALECTIN
MRT2	MRT2	0	MRT2	GALECTIN
MRT4	MRT2	0	MRT2	GALECTIN
TAM	MRT2	0	MRT2	GALECTIN
Monocyte	MRT2	0.01455861814	MRT2	GALECTIN
T_NK	MRT2	0	MRT2	GALECTIN
Fibroblast	MRT2	0	MRT2	GALECTIN
Endothelial_Cell	MRT2	0	MRT2	GALECTIN
Endothelial_Progenitor	MRT2	0	MRT2	GALECTIN
Adipocyte	MRT2	0	MRT2	GALECTIN
MRT1	MRT4	0	MRT2	GALECTIN
MRT2	MRT4	0	MRT2	GALECTIN
MRT4	MRT4	0	MRT2	GALECTIN

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	GALECTIN
Monocyte	MRT4	0	MRT2	GALECTIN
T_NK	MRT4	0	MRT2	GALECTIN
Fibroblast	MRT4	0	MRT2	GALECTIN
Endothelial_Cell	MRT4	0	MRT2	GALECTIN
Endothelial_Progenitor	MRT4	0	MRT2	GALECTIN
Adipocyte	MRT4	0	MRT2	GALECTIN
MRT1	TAM	0	MRT2	GALECTIN
MRT2	TAM	0	MRT2	GALECTIN
MRT4	TAM	0	MRT2	GALECTIN
TAM	TAM	0	MRT2	GALECTIN
Monocyte	TAM	0.02831196313	MRT2	GALECTIN
T_NK	TAM	0	MRT2	GALECTIN
Fibroblast	TAM	0	MRT2	GALECTIN
Endothelial_Cell	TAM	0	MRT2	GALECTIN
Endothelial_Progenitor	TAM	0	MRT2	GALECTIN
Adipocyte	TAM	0	MRT2	GALECTIN
MRT1	Monocyte	0	MRT2	GALECTIN
MRT2	Monocyte	0	MRT2	GALECTIN
MRT4	Monocyte	0	MRT2	GALECTIN
TAM	Monocyte	0	MRT2	GALECTIN
Monocyte	Monocyte	0.02988418609	MRT2	GALECTIN
T_NK	Monocyte	0	MRT2	GALECTIN
Fibroblast	Monocyte	0	MRT2	GALECTIN
Endothelial_Cell	Monocyte	0	MRT2	GALECTIN
Endothelial_Progenitor	Monocyte	0	MRT2	GALECTIN
Adipocyte	Monocyte	0	MRT2	GALECTIN
MRT1	T_NK	0	MRT2	GALECTIN
MRT2	T_NK	0	MRT2	GALECTIN
MRT4	T_NK	0	MRT2	GALECTIN

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	GALECTIN
Monocyte	T_NK	0.03223003978	MRT2	GALECTIN
T_NK	T_NK	0	MRT2	GALECTIN
Fibroblast	T_NK	0	MRT2	GALECTIN
Endothelial_Cell	T_NK	0	MRT2	GALECTIN
Endothelial_Progenitor	T_NK	0	MRT2	GALECTIN
Adipocyte	T_NK	0	MRT2	GALECTIN
MRT1	Fibroblast	0	MRT2	GALECTIN
MRT2	Fibroblast	0	MRT2	GALECTIN
MRT4	Fibroblast	0	MRT2	GALECTIN
TAM	Fibroblast	0	MRT2	GALECTIN
Monocyte	Fibroblast	0.008964685608	MRT2	GALECTIN
T_NK	Fibroblast	0	MRT2	GALECTIN
Fibroblast	Fibroblast	0	MRT2	GALECTIN
Endothelial_Cell	Fibroblast	0	MRT2	GALECTIN
Endothelial_Progenitor	Fibroblast	0	MRT2	GALECTIN
Adipocyte	Fibroblast	0	MRT2	GALECTIN
MRT1	Endothelial_Cell	0	MRT2	GALECTIN
MRT2	Endothelial_Cell	0	MRT2	GALECTIN
MRT4	Endothelial_Cell	0	MRT2	GALECTIN
TAM	Endothelial_Cell	0	MRT2	GALECTIN
Monocyte	Endothelial_Cell	0.001463961959	MRT2	GALECTIN
T_NK	Endothelial_Cell	0	MRT2	GALECTIN
Fibroblast	Endothelial_Cell	0	MRT2	GALECTIN
Endothelial_Cell	Endothelial_Cell	0	MRT2	GALECTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	GALECTIN
Adipocyte	Endothelial_Cell	0	MRT2	GALECTIN
MRT1	Endothelial_Progenitor	0	MRT2	GALECTIN
MRT2	Endothelial_Progenitor	0	MRT2	GALECTIN
MRT4	Endothelial_Progenitor	0	MRT2	GALECTIN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	GALECTIN
Monocyte	Endothelial_Progenitor	0.005830242077	MRT2	GALECTIN
T_NK	Endothelial_Progenitor	0	MRT2	GALECTIN
Fibroblast	Endothelial_Progenitor	0	MRT2	GALECTIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	GALECTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	GALECTIN
Adipocyte	Endothelial_Progenitor	0	MRT2	GALECTIN
MRT1	Adipocyte	0	MRT2	GALECTIN
MRT2	Adipocyte	0	MRT2	GALECTIN
MRT4	Adipocyte	0	MRT2	GALECTIN
TAM	Adipocyte	0	MRT2	GALECTIN
Monocyte	Adipocyte	0	MRT2	GALECTIN
T_NK	Adipocyte	0	MRT2	GALECTIN
Fibroblast	Adipocyte	0	MRT2	GALECTIN
Endothelial_Cell	Adipocyte	0	MRT2	GALECTIN
Endothelial_Progenitor	Adipocyte	0	MRT2	GALECTIN
Adipocyte	Adipocyte	0	MRT2	GALECTIN
MRT1	MRT1	0	MRT2	ANGPTL
MRT2	MRT1	0	MRT2	ANGPTL
MRT4	MRT1	0	MRT2	ANGPTL
TAM	MRT1	0	MRT2	ANGPTL
Monocyte	MRT1	0	MRT2	ANGPTL
T_NK	MRT1	0	MRT2	ANGPTL
Fibroblast	MRT1	0	MRT2	ANGPTL
Endothelial_Cell	MRT1	0	MRT2	ANGPTL
Endothelial_Progenitor	MRT1	0	MRT2	ANGPTL
Adipocyte	MRT1	0	MRT2	ANGPTL
MRT1	MRT2	0	MRT2	ANGPTL
MRT2	MRT2	0	MRT2	ANGPTL
MRT4	MRT2	0	MRT2	ANGPTL

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	ANGPTL
Monocyte	MRT2	0	MRT2	ANGPTL
T_NK	MRT2	0	MRT2	ANGPTL
Fibroblast	MRT2	0	MRT2	ANGPTL
Endothelial_Cell	MRT2	0	MRT2	ANGPTL
Endothelial_Progenitor	MRT2	0	MRT2	ANGPTL
Adipocyte	MRT2	0	MRT2	ANGPTL
MRT1	MRT4	0	MRT2	ANGPTL
MRT2	MRT4	0	MRT2	ANGPTL
MRT4	MRT4	0	MRT2	ANGPTL
TAM	MRT4	0	MRT2	ANGPTL
Monocyte	MRT4	0	MRT2	ANGPTL
T_NK	MRT4	0	MRT2	ANGPTL
Fibroblast	MRT4	0	MRT2	ANGPTL
Endothelial_Cell	MRT4	0	MRT2	ANGPTL
Endothelial_Progenitor	MRT4	0	MRT2	ANGPTL
Adipocyte	MRT4	0	MRT2	ANGPTL
MRT1	TAM	0	MRT2	ANGPTL
MRT2	TAM	0	MRT2	ANGPTL
MRT4	TAM	0	MRT2	ANGPTL
TAM	TAM	0	MRT2	ANGPTL
Monocyte	TAM	0	MRT2	ANGPTL
T_NK	TAM	0	MRT2	ANGPTL
Fibroblast	TAM	0.001463961959	MRT2	ANGPTL
Endothelial_Cell	TAM	0.002318339467	MRT2	ANGPTL
Endothelial_Progenitor	TAM	0.003775526319	MRT2	ANGPTL
Adipocyte	TAM	0	MRT2	ANGPTL
MRT1	Monocyte	0	MRT2	ANGPTL
MRT2	Monocyte	0	MRT2	ANGPTL
MRT4	Monocyte	0	MRT2	ANGPTL

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	ANGPTL
Monocyte	Monocyte	0	MRT2	ANGPTL
T_NK	Monocyte	0	MRT2	ANGPTL
Fibroblast	Monocyte	0	MRT2	ANGPTL
Endothelial_Cell	Monocyte	0	MRT2	ANGPTL
Endothelial_Progenitor	Monocyte	0	MRT2	ANGPTL
Adipocyte	Monocyte	0	MRT2	ANGPTL
MRT1	T_NK	0	MRT2	ANGPTL
MRT2	T_NK	0	MRT2	ANGPTL
MRT4	T_NK	0	MRT2	ANGPTL
TAM	T_NK	0	MRT2	ANGPTL
Monocyte	T_NK	0	MRT2	ANGPTL
T_NK	T_NK	0	MRT2	ANGPTL
Fibroblast	T_NK	0	MRT2	ANGPTL
Endothelial_Cell	T_NK	0	MRT2	ANGPTL
Endothelial_Progenitor	T_NK	0	MRT2	ANGPTL
Adipocyte	T_NK	0	MRT2	ANGPTL
MRT1	Fibroblast	0	MRT2	ANGPTL
MRT2	Fibroblast	0	MRT2	ANGPTL
MRT4	Fibroblast	0	MRT2	ANGPTL
TAM	Fibroblast	0	MRT2	ANGPTL
Monocyte	Fibroblast	0	MRT2	ANGPTL
T_NK	Fibroblast	0	MRT2	ANGPTL
Fibroblast	Fibroblast	0.006067008004	MRT2	ANGPTL
Endothelial_Cell	Fibroblast	0.009581974018	MRT2	ANGPTL
Endothelial_Progenitor	Fibroblast	0.01553361723	MRT2	ANGPTL
Adipocyte	Fibroblast	0	MRT2	ANGPTL
MRT1	Endothelial_Cell	0	MRT2	ANGPTL
MRT2	Endothelial_Cell	0	MRT2	ANGPTL
MRT4	Endothelial_Cell	0	MRT2	ANGPTL

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	ANGPTL
Monocyte	Endothelial_Cell	0	MRT2	ANGPTL
T_NK	Endothelial_Cell	0	MRT2	ANGPTL
Fibroblast	Endothelial_Cell	0.009656892941	MRT2	ANGPTL
Endothelial_Cell	Endothelial_Cell	0.01524189098	MRT2	ANGPTL
Endothelial_Progenitor	Endothelial_Cell	0.02468245895	MRT2	ANGPTL
Adipocyte	Endothelial_Cell	0	MRT2	ANGPTL
MRT1	Endothelial_Progenitor	0	MRT2	ANGPTL
MRT2	Endothelial_Progenitor	0	MRT2	ANGPTL
MRT4	Endothelial_Progenitor	0	MRT2	ANGPTL
TAM	Endothelial_Progenitor	0	MRT2	ANGPTL
Monocyte	Endothelial_Progenitor	0	MRT2	ANGPTL
T_NK	Endothelial_Progenitor	0	MRT2	ANGPTL
Fibroblast	Endothelial_Progenitor	0.006089547149	MRT2	ANGPTL
Endothelial_Cell	Endothelial_Progenitor	0.009617445031	MRT2	ANGPTL
Endothelial_Progenitor	Endothelial_Progenitor	0.0155907735	MRT2	ANGPTL
Adipocyte	Endothelial_Progenitor	0	MRT2	ANGPTL
MRT1	Adipocyte	0	MRT2	ANGPTL
MRT2	Adipocyte	0	MRT2	ANGPTL
MRT4	Adipocyte	0	MRT2	ANGPTL
TAM	Adipocyte	0	MRT2	ANGPTL
Monocyte	Adipocyte	0	MRT2	ANGPTL
T_NK	Adipocyte	0	MRT2	ANGPTL
Fibroblast	Adipocyte	0	MRT2	ANGPTL
Endothelial_Cell	Adipocyte	0	MRT2	ANGPTL
Endothelial_Progenitor	Adipocyte	0	MRT2	ANGPTL
Adipocyte	Adipocyte	0	MRT2	ANGPTL
MRT1	MRT1	0	MRT2	IGF
MRT2	MRT1	0	MRT2	IGF
MRT4	MRT1	0	MRT2	IGF

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	IGF
Monocyte	MRT1	0	MRT2	IGF
T_NK	MRT1	0	MRT2	IGF
Fibroblast	MRT1	0	MRT2	IGF
Endothelial_Cell	MRT1	0	MRT2	IGF
Endothelial_Progenitor	MRT1	0	MRT2	IGF
Adipocyte	MRT1	0	MRT2	IGF
MRT1	MRT2	0	MRT2	IGF
MRT2	MRT2	0	MRT2	IGF
MRT4	MRT2	0	MRT2	IGF
TAM	MRT2	0	MRT2	IGF
Monocyte	MRT2	0	MRT2	IGF
T_NK	MRT2	0	MRT2	IGF
Fibroblast	MRT2	0	MRT2	IGF
Endothelial_Cell	MRT2	0.01513075603	MRT2	IGF
Endothelial_Progenitor	MRT2	0	MRT2	IGF
Adipocyte	MRT2	0	MRT2	IGF
MRT1	MRT4	0	MRT2	IGF
MRT2	MRT4	0	MRT2	IGF
MRT4	MRT4	0	MRT2	IGF
TAM	MRT4	0	MRT2	IGF
Monocyte	MRT4	0	MRT2	IGF
T_NK	MRT4	0	MRT2	IGF
Fibroblast	MRT4	0	MRT2	IGF
Endothelial_Cell	MRT4	0	MRT2	IGF
Endothelial_Progenitor	MRT4	0	MRT2	IGF
Adipocyte	MRT4	0	MRT2	IGF
MRT1	TAM	0	MRT2	IGF
MRT2	TAM	0	MRT2	IGF
MRT4	TAM	0	MRT2	IGF

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	IGF
Monocyte	TAM	0	MRT2	IGF
T_NK	TAM	0	MRT2	IGF
Fibroblast	TAM	0	MRT2	IGF
Endothelial_Cell	TAM	0.004489120943	MRT2	IGF
Endothelial_Progenitor	TAM	0	MRT2	IGF
Adipocyte	TAM	0	MRT2	IGF
MRT1	Monocyte	0	MRT2	IGF
MRT2	Monocyte	0	MRT2	IGF
MRT4	Monocyte	0	MRT2	IGF
TAM	Monocyte	0	MRT2	IGF
Monocyte	Monocyte	0	MRT2	IGF
T_NK	Monocyte	0	MRT2	IGF
Fibroblast	Monocyte	0	MRT2	IGF
Endothelial_Cell	Monocyte	0.0176235822	MRT2	IGF
Endothelial_Progenitor	Monocyte	0	MRT2	IGF
Adipocyte	Monocyte	0	MRT2	IGF
MRT1	T_NK	0	MRT2	IGF
MRT2	T_NK	0	MRT2	IGF
MRT4	T_NK	0	MRT2	IGF
TAM	T_NK	0	MRT2	IGF
Monocyte	T_NK	0	MRT2	IGF
T_NK	T_NK	0	MRT2	IGF
Fibroblast	T_NK	0	MRT2	IGF
Endothelial_Cell	T_NK	0.01270790945	MRT2	IGF
Endothelial_Progenitor	T_NK	0	MRT2	IGF
Adipocyte	T_NK	0	MRT2	IGF
MRT1	Fibroblast	0	MRT2	IGF
MRT2	Fibroblast	0	MRT2	IGF
MRT4	Fibroblast	0	MRT2	IGF

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	IGF
Monocyte	Fibroblast	0	MRT2	IGF
T_NK	Fibroblast	0	MRT2	IGF
Fibroblast	Fibroblast	0	MRT2	IGF
Endothelial_Cell	Fibroblast	0.01837585101	MRT2	IGF
Endothelial_Progenitor	Fibroblast	0	MRT2	IGF
Adipocyte	Fibroblast	0	MRT2	IGF
MRT1	Endothelial_Cell	0	MRT2	IGF
MRT2	Endothelial_Cell	0	MRT2	IGF
MRT4	Endothelial_Cell	0	MRT2	IGF
TAM	Endothelial_Cell	0	MRT2	IGF
Monocyte	Endothelial_Cell	0	MRT2	IGF
T_NK	Endothelial_Cell	0	MRT2	IGF
Fibroblast	Endothelial_Cell	0	MRT2	IGF
Endothelial_Cell	Endothelial_Cell	0.03844477896	MRT2	IGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	IGF
Adipocyte	Endothelial_Cell	0	MRT2	IGF
MRT1	Endothelial_Progenitor	0	MRT2	IGF
MRT2	Endothelial_Progenitor	0	MRT2	IGF
MRT4	Endothelial_Progenitor	0	MRT2	IGF
TAM	Endothelial_Progenitor	0	MRT2	IGF
Monocyte	Endothelial_Progenitor	0	MRT2	IGF
T_NK	Endothelial_Progenitor	0	MRT2	IGF
Fibroblast	Endothelial_Progenitor	0	MRT2	IGF
Endothelial_Cell	Endothelial_Progenitor	0.009643945731	MRT2	IGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	IGF
Adipocyte	Endothelial_Progenitor	0	MRT2	IGF
MRT1	Adipocyte	0	MRT2	IGF
MRT2	Adipocyte	0	MRT2	IGF
MRT4	Adipocyte	0	MRT2	IGF

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	IGF
Monocyte	Adipocyte	0	MRT2	IGF
T_NK	Adipocyte	0	MRT2	IGF
Fibroblast	Adipocyte	0	MRT2	IGF
Endothelial_Cell	Adipocyte	0	MRT2	IGF
Endothelial_Progenitor	Adipocyte	0	MRT2	IGF
Adipocyte	Adipocyte	0	MRT2	IGF
MRT1	MRT1	0	MRT2	NCAM
MRT2	MRT1	0	MRT2	NCAM
MRT4	MRT1	0	MRT2	NCAM
TAM	MRT1	0	MRT2	NCAM
Monocyte	MRT1	0	MRT2	NCAM
T_NK	MRT1	0	MRT2	NCAM
Fibroblast	MRT1	0	MRT2	NCAM
Endothelial_Cell	MRT1	0	MRT2	NCAM
Endothelial_Progenitor	MRT1	0	MRT2	NCAM
Adipocyte	MRT1	0	MRT2	NCAM
MRT1	MRT2	0	MRT2	NCAM
MRT2	MRT2	0	MRT2	NCAM
MRT4	MRT2	0	MRT2	NCAM
TAM	MRT2	0	MRT2	NCAM
Monocyte	MRT2	0	MRT2	NCAM
T_NK	MRT2	0.009746407017	MRT2	NCAM
Fibroblast	MRT2	0	MRT2	NCAM
Endothelial_Cell	MRT2	0.003782301426	MRT2	NCAM
Endothelial_Progenitor	MRT2	0	MRT2	NCAM
Adipocyte	MRT2	0	MRT2	NCAM
MRT1	MRT4	0	MRT2	NCAM
MRT2	MRT4	0	MRT2	NCAM
MRT4	MRT4	0	MRT2	NCAM

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	NCAM
Monocyte	MRT4	0	MRT2	NCAM
T_NK	MRT4	0	MRT2	NCAM
Fibroblast	MRT4	0	MRT2	NCAM
Endothelial_Cell	MRT4	0	MRT2	NCAM
Endothelial_Progenitor	MRT4	0	MRT2	NCAM
Adipocyte	MRT4	0	MRT2	NCAM
MRT1	TAM	0	MRT2	NCAM
MRT2	TAM	0	MRT2	NCAM
MRT4	TAM	0	MRT2	NCAM
TAM	TAM	0	MRT2	NCAM
Monocyte	TAM	0	MRT2	NCAM
T_NK	TAM	0.003775526319	MRT2	NCAM
Fibroblast	TAM	0	MRT2	NCAM
Endothelial_Cell	TAM	0.001463961959	MRT2	NCAM
Endothelial_Progenitor	TAM	0	MRT2	NCAM
Adipocyte	TAM	0	MRT2	NCAM
MRT1	Monocyte	0	MRT2	NCAM
MRT2	Monocyte	0	MRT2	NCAM
MRT4	Monocyte	0	MRT2	NCAM
TAM	Monocyte	0	MRT2	NCAM
Monocyte	Monocyte	0	MRT2	NCAM
T_NK	Monocyte	0.01124169235	MRT2	NCAM
Fibroblast	Monocyte	0	MRT2	NCAM
Endothelial_Cell	Monocyte	0.004379064309	MRT2	NCAM
Endothelial_Progenitor	Monocyte	0	MRT2	NCAM
Adipocyte	Monocyte	0	MRT2	NCAM
MRT1	T_NK	0	MRT2	NCAM
MRT2	T_NK	0	MRT2	NCAM
MRT4	T_NK	0	MRT2	NCAM

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	NCAM
Monocyte	T_NK	0	MRT2	NCAM
T_NK	T_NK	0.02094323163	MRT2	NCAM
Fibroblast	T_NK	0	MRT2	NCAM
Endothelial_Cell	T_NK	0.008154590628	MRT2	NCAM
Endothelial_Progenitor	T_NK	0	MRT2	NCAM
Adipocyte	T_NK	0	MRT2	NCAM
MRT1	Fibroblast	0	MRT2	NCAM
MRT2	Fibroblast	0	MRT2	NCAM
MRT4	Fibroblast	0	MRT2	NCAM
TAM	Fibroblast	0	MRT2	NCAM
Monocyte	Fibroblast	0	MRT2	NCAM
T_NK	Fibroblast	0.01921664751	MRT2	NCAM
Fibroblast	Fibroblast	0	MRT2	NCAM
Endothelial_Cell	Fibroblast	0.007522650672	MRT2	NCAM
Endothelial_Progenitor	Fibroblast	0	MRT2	NCAM
Adipocyte	Fibroblast	0	MRT2	NCAM
MRT1	Endothelial_Cell	0	MRT2	NCAM
MRT2	Endothelial_Cell	0	MRT2	NCAM
MRT4	Endothelial_Cell	0	MRT2	NCAM
TAM	Endothelial_Cell	0	MRT2	NCAM
Monocyte	Endothelial_Cell	0	MRT2	NCAM
T_NK	Endothelial_Cell	0.009746407017	MRT2	NCAM
Fibroblast	Endothelial_Cell	0	MRT2	NCAM
Endothelial_Cell	Endothelial_Cell	0.003782301426	MRT2	NCAM
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	NCAM
Adipocyte	Endothelial_Cell	0	MRT2	NCAM
MRT1	Endothelial_Progenitor	0	MRT2	NCAM
MRT2	Endothelial_Progenitor	0	MRT2	NCAM
MRT4	Endothelial_Progenitor	0	MRT2	NCAM

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	NCAM
Monocyte	Endothelial_Progenitor	0	MRT2	NCAM
T_NK	Endothelial_Progenitor	0.005970880699	MRT2	NCAM
Fibroblast	Endothelial_Progenitor	0	MRT2	NCAM
Endothelial_Cell	Endothelial_Progenitor	0.002318339467	MRT2	NCAM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	NCAM
Adipocyte	Endothelial_Progenitor	0	MRT2	NCAM
MRT1	Adipocyte	0	MRT2	NCAM
MRT2	Adipocyte	0	MRT2	NCAM
MRT4	Adipocyte	0	MRT2	NCAM
TAM	Adipocyte	0	MRT2	NCAM
Monocyte	Adipocyte	0	MRT2	NCAM
T_NK	Adipocyte	0	MRT2	NCAM
Fibroblast	Adipocyte	0	MRT2	NCAM
Endothelial_Cell	Adipocyte	0	MRT2	NCAM
Endothelial_Progenitor	Adipocyte	0	MRT2	NCAM
Adipocyte	Adipocyte	0	MRT2	NCAM
MRT1	MRT1	0	MRT2	EPHB
MRT2	MRT1	0	MRT2	EPHB
MRT4	MRT1	0	MRT2	EPHB
TAM	MRT1	0	MRT2	EPHB
Monocyte	MRT1	0	MRT2	EPHB
T_NK	MRT1	0	MRT2	EPHB
Fibroblast	MRT1	0	MRT2	EPHB
Endothelial_Cell	MRT1	0	MRT2	EPHB
Endothelial_Progenitor	MRT1	0	MRT2	EPHB
Adipocyte	MRT1	0	MRT2	EPHB
MRT1	MRT2	0	MRT2	EPHB
MRT2	MRT2	0	MRT2	EPHB
MRT4	MRT2	0	MRT2	EPHB

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	EPHB
Monocyte	MRT2	0	MRT2	EPHB
T_NK	MRT2	0	MRT2	EPHB
Fibroblast	MRT2	0	MRT2	EPHB
Endothelial_Cell	MRT2	0	MRT2	EPHB
Endothelial_Progenitor	MRT2	0	MRT2	EPHB
Adipocyte	MRT2	0	MRT2	EPHB
MRT1	MRT4	0	MRT2	EPHB
MRT2	MRT4	0	MRT2	EPHB
MRT4	MRT4	0	MRT2	EPHB
TAM	MRT4	0	MRT2	EPHB
Monocyte	MRT4	0	MRT2	EPHB
T_NK	MRT4	0	MRT2	EPHB
Fibroblast	MRT4	0	MRT2	EPHB
Endothelial_Cell	MRT4	0	MRT2	EPHB
Endothelial_Progenitor	MRT4	0	MRT2	EPHB
Adipocyte	MRT4	0	MRT2	EPHB
MRT1	TAM	0	MRT2	EPHB
MRT2	TAM	0	MRT2	EPHB
MRT4	TAM	0	MRT2	EPHB
TAM	TAM	0	MRT2	EPHB
Monocyte	TAM	0	MRT2	EPHB
T_NK	TAM	0	MRT2	EPHB
Fibroblast	TAM	0	MRT2	EPHB
Endothelial_Cell	TAM	0	MRT2	EPHB
Endothelial_Progenitor	TAM	0.007871208505	MRT2	EPHB
Adipocyte	TAM	0	MRT2	EPHB
MRT1	Monocyte	0	MRT2	EPHB
MRT2	Monocyte	0	MRT2	EPHB
MRT4	Monocyte	0	MRT2	EPHB

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	EPHB
Monocyte	Monocyte	0	MRT2	EPHB
T_NK	Monocyte	0	MRT2	EPHB
Fibroblast	Monocyte	0	MRT2	EPHB
Endothelial_Cell	Monocyte	0	MRT2	EPHB
Endothelial_Progenitor	Monocyte	0	MRT2	EPHB
Adipocyte	Monocyte	0	MRT2	EPHB
MRT1	T_NK	0	MRT2	EPHB
MRT2	T_NK	0	MRT2	EPHB
MRT4	T_NK	0	MRT2	EPHB
TAM	T_NK	0	MRT2	EPHB
Monocyte	T_NK	0	MRT2	EPHB
T_NK	T_NK	0	MRT2	EPHB
Fibroblast	T_NK	0	MRT2	EPHB
Endothelial_Cell	T_NK	0	MRT2	EPHB
Endothelial_Progenitor	T_NK	0	MRT2	EPHB
Adipocyte	T_NK	0	MRT2	EPHB
MRT1	Fibroblast	0	MRT2	EPHB
MRT2	Fibroblast	0	MRT2	EPHB
MRT4	Fibroblast	0	MRT2	EPHB
TAM	Fibroblast	0	MRT2	EPHB
Monocyte	Fibroblast	0	MRT2	EPHB
T_NK	Fibroblast	0	MRT2	EPHB
Fibroblast	Fibroblast	0	MRT2	EPHB
Endothelial_Cell	Fibroblast	0	MRT2	EPHB
Endothelial_Progenitor	Fibroblast	0	MRT2	EPHB
Adipocyte	Fibroblast	0	MRT2	EPHB
MRT1	Endothelial_Cell	0	MRT2	EPHB
MRT2	Endothelial_Cell	0	MRT2	EPHB
MRT4	Endothelial_Cell	0	MRT2	EPHB

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	EPHB
Monocyte	Endothelial_Cell	0	MRT2	EPHB
T_NK	Endothelial_Cell	0	MRT2	EPHB
Fibroblast	Endothelial_Cell	0	MRT2	EPHB
Endothelial_Cell	Endothelial_Cell	0	MRT2	EPHB
Endothelial_Progenitor	Endothelial_Cell	0.05715309686	MRT2	EPHB
Adipocyte	Endothelial_Cell	0	MRT2	EPHB
MRT1	Endothelial_Progenitor	0	MRT2	EPHB
MRT2	Endothelial_Progenitor	0	MRT2	EPHB
MRT4	Endothelial_Progenitor	0	MRT2	EPHB
TAM	Endothelial_Progenitor	0	MRT2	EPHB
Monocyte	Endothelial_Progenitor	0	MRT2	EPHB
T_NK	Endothelial_Progenitor	0	MRT2	EPHB
Fibroblast	Endothelial_Progenitor	0	MRT2	EPHB
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	EPHB
Endothelial_Progenitor	Endothelial_Progenitor	0.02796727741	MRT2	EPHB
Adipocyte	Endothelial_Progenitor	0	MRT2	EPHB
MRT1	Adipocyte	0	MRT2	EPHB
MRT2	Adipocyte	0	MRT2	EPHB
MRT4	Adipocyte	0	MRT2	EPHB
TAM	Adipocyte	0	MRT2	EPHB
Monocyte	Adipocyte	0	MRT2	EPHB
T_NK	Adipocyte	0	MRT2	EPHB
Fibroblast	Adipocyte	0	MRT2	EPHB
Endothelial_Cell	Adipocyte	0	MRT2	EPHB
Endothelial_Progenitor	Adipocyte	0	MRT2	EPHB
Adipocyte	Adipocyte	0	MRT2	EPHB
MRT1	MRT1	0	MRT2	MHC-II
MRT2	MRT1	0	MRT2	MHC-II
MRT4	MRT1	0	MRT2	MHC-II

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	MHC-II
Monocyte	MRT1	0	MRT2	MHC-II
T_NK	MRT1	0	MRT2	MHC-II
Fibroblast	MRT1	0	MRT2	MHC-II
Endothelial_Cell	MRT1	0	MRT2	MHC-II
Endothelial_Progenitor	MRT1	0	MRT2	MHC-II
Adipocyte	MRT1	0	MRT2	MHC-II
MRT1	MRT2	0	MRT2	MHC-II
MRT2	MRT2	0	MRT2	MHC-II
MRT4	MRT2	0	MRT2	MHC-II
TAM	MRT2	0	MRT2	MHC-II
Monocyte	MRT2	0	MRT2	MHC-II
T_NK	MRT2	0	MRT2	MHC-II
Fibroblast	MRT2	0	MRT2	MHC-II
Endothelial_Cell	MRT2	0	MRT2	MHC-II
Endothelial_Progenitor	MRT2	0	MRT2	MHC-II
Adipocyte	MRT2	0	MRT2	MHC-II
MRT1	MRT4	0	MRT2	MHC-II
MRT2	MRT4	0	MRT2	MHC-II
MRT4	MRT4	0	MRT2	MHC-II
TAM	MRT4	0	MRT2	MHC-II
Monocyte	MRT4	0	MRT2	MHC-II
T_NK	MRT4	0	MRT2	MHC-II
Fibroblast	MRT4	0	MRT2	MHC-II
Endothelial_Cell	MRT4	0	MRT2	MHC-II
Endothelial_Progenitor	MRT4	0	MRT2	MHC-II
Adipocyte	MRT4	0	MRT2	MHC-II
MRT1	TAM	0	MRT2	MHC-II
MRT2	TAM	0	MRT2	MHC-II
MRT4	TAM	0	MRT2	MHC-II

Source	Target	Probability	Sample	Pathway
TAM	TAM	0.02764615461	MRT2	MHC-II
Monocyte	TAM	0.05780643722	MRT2	MHC-II
T_NK	TAM	0	MRT2	MHC-II
Fibroblast	TAM	0	MRT2	MHC-II
Endothelial_Cell	TAM	0	MRT2	MHC-II
Endothelial_Progenitor	TAM	0	MRT2	MHC-II
Adipocyte	TAM	0	MRT2	MHC-II
MRT1	Monocyte	0	MRT2	MHC-II
MRT2	Monocyte	0	MRT2	MHC-II
MRT4	Monocyte	0	MRT2	MHC-II
TAM	Monocyte	0	MRT2	MHC-II
Monocyte	Monocyte	0	MRT2	MHC-II
T_NK	Monocyte	0	MRT2	MHC-II
Fibroblast	Monocyte	0	MRT2	MHC-II
Endothelial_Cell	Monocyte	0	MRT2	MHC-II
Endothelial_Progenitor	Monocyte	0	MRT2	MHC-II
Adipocyte	Monocyte	0	MRT2	MHC-II
MRT1	T_NK	0	MRT2	MHC-II
MRT2	T_NK	0	MRT2	MHC-II
MRT4	T_NK	0	MRT2	MHC-II
TAM	T_NK	0	MRT2	MHC-II
Monocyte	T_NK	0	MRT2	MHC-II
T_NK	T_NK	0	MRT2	MHC-II
Fibroblast	T_NK	0	MRT2	MHC-II
Endothelial_Cell	T_NK	0	MRT2	MHC-II
Endothelial_Progenitor	T_NK	0	MRT2	MHC-II
Adipocyte	T_NK	0	MRT2	MHC-II
MRT1	Fibroblast	0	MRT2	MHC-II
MRT2	Fibroblast	0	MRT2	MHC-II
MRT4	Fibroblast	0	MRT2	MHC-II

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	MHC-II
Monocyte	Fibroblast	0	MRT2	MHC-II
T_NK	Fibroblast	0	MRT2	MHC-II
Fibroblast	Fibroblast	0	MRT2	MHC-II
Endothelial_Cell	Fibroblast	0	MRT2	MHC-II
Endothelial_Progenitor	Fibroblast	0	MRT2	MHC-II
Adipocyte	Fibroblast	0	MRT2	MHC-II
MRT1	Endothelial_Cell	0	MRT2	MHC-II
MRT2	Endothelial_Cell	0	MRT2	MHC-II
MRT4	Endothelial_Cell	0	MRT2	MHC-II
TAM	Endothelial_Cell	0	MRT2	MHC-II
Monocyte	Endothelial_Cell	0	MRT2	MHC-II
T_NK	Endothelial_Cell	0	MRT2	MHC-II
Fibroblast	Endothelial_Cell	0	MRT2	MHC-II
Endothelial_Cell	Endothelial_Cell	0	MRT2	MHC-II
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	MHC-II
Adipocyte	Endothelial_Cell	0	MRT2	MHC-II
MRT1	Endothelial_Progenitor	0	MRT2	MHC-II
MRT2	Endothelial_Progenitor	0	MRT2	MHC-II
MRT4	Endothelial_Progenitor	0	MRT2	MHC-II
TAM	Endothelial_Progenitor	0	MRT2	MHC-II
Monocyte	Endothelial_Progenitor	0	MRT2	MHC-II
T_NK	Endothelial_Progenitor	0	MRT2	MHC-II
Fibroblast	Endothelial_Progenitor	0	MRT2	MHC-II
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	MHC-II
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	MHC-II
Adipocyte	Endothelial_Progenitor	0	MRT2	MHC-II
MRT1	Adipocyte	0	MRT2	MHC-II
MRT2	Adipocyte	0	MRT2	MHC-II
MRT4	Adipocyte	0	MRT2	MHC-II

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	MHC-II
Monocyte	Adipocyte	0	MRT2	MHC-II
T_NK	Adipocyte	0	MRT2	MHC-II
Fibroblast	Adipocyte	0	MRT2	MHC-II
Endothelial_Cell	Adipocyte	0	MRT2	MHC-II
Endothelial_Progenitor	Adipocyte	0	MRT2	MHC-II
Adipocyte	Adipocyte	0	MRT2	MHC-II
MRT1	MRT1	0	MRT2	FGF
MRT2	MRT1	0	MRT2	FGF
MRT4	MRT1	0	MRT2	FGF
TAM	MRT1	0	MRT2	FGF
Monocyte	MRT1	0	MRT2	FGF
T_NK	MRT1	0	MRT2	FGF
Fibroblast	MRT1	0	MRT2	FGF
Endothelial_Cell	MRT1	0	MRT2	FGF
Endothelial_Progenitor	MRT1	0	MRT2	FGF
Adipocyte	MRT1	0	MRT2	FGF
MRT1	MRT2	0	MRT2	FGF
MRT2	MRT2	0.01187088178	MRT2	FGF
MRT4	MRT2	0	MRT2	FGF
TAM	MRT2	0	MRT2	FGF
Monocyte	MRT2	0	MRT2	FGF
T_NK	MRT2	0	MRT2	FGF
Fibroblast	MRT2	0.002318339467	MRT2	FGF
Endothelial_Cell	MRT2	0	MRT2	FGF
Endothelial_Progenitor	MRT2	0	MRT2	FGF
Adipocyte	MRT2	0	MRT2	FGF
MRT1	MRT4	0	MRT2	FGF
MRT2	MRT4	0	MRT2	FGF
MRT4	MRT4	0	MRT2	FGF

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	FGF
Monocyte	MRT4	0	MRT2	FGF
T_NK	MRT4	0	MRT2	FGF
Fibroblast	MRT4	0	MRT2	FGF
Endothelial_Cell	MRT4	0	MRT2	FGF
Endothelial_Progenitor	MRT4	0	MRT2	FGF
Adipocyte	MRT4	0	MRT2	FGF
MRT1	TAM	0	MRT2	FGF
MRT2	TAM	0	MRT2	FGF
MRT4	TAM	0	MRT2	FGF
TAM	TAM	0	MRT2	FGF
Monocyte	TAM	0	MRT2	FGF
T_NK	TAM	0	MRT2	FGF
Fibroblast	TAM	0.001463961959	MRT2	FGF
Endothelial_Cell	TAM	0	MRT2	FGF
Endothelial_Progenitor	TAM	0	MRT2	FGF
Adipocyte	TAM	0	MRT2	FGF
MRT1	Monocyte	0	MRT2	FGF
MRT2	Monocyte	0	MRT2	FGF
MRT4	Monocyte	0	MRT2	FGF
TAM	Monocyte	0	MRT2	FGF
Monocyte	Monocyte	0	MRT2	FGF
T_NK	Monocyte	0	MRT2	FGF
Fibroblast	Monocyte	0.004379064309	MRT2	FGF
Endothelial_Cell	Monocyte	0	MRT2	FGF
Endothelial_Progenitor	Monocyte	0	MRT2	FGF
Adipocyte	Monocyte	0	MRT2	FGF
MRT1	T_NK	0	MRT2	FGF
MRT2	T_NK	0	MRT2	FGF
MRT4	T_NK	0	MRT2	FGF

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	FGF
Monocyte	T_NK	0	MRT2	FGF
T_NK	T_NK	0	MRT2	FGF
Fibroblast	T_NK	0.004379064309	MRT2	FGF
Endothelial_Cell	T_NK	0	MRT2	FGF
Endothelial_Progenitor	T_NK	0	MRT2	FGF
Adipocyte	T_NK	0	MRT2	FGF
MRT1	Fibroblast	0	MRT2	FGF
MRT2	Fibroblast	0.03770866098	MRT2	FGF
MRT4	Fibroblast	0	MRT2	FGF
TAM	Fibroblast	0	MRT2	FGF
Monocyte	Fibroblast	0	MRT2	FGF
T_NK	Fibroblast	0	MRT2	FGF
Fibroblast	Fibroblast	0.007522650672	MRT2	FGF
Endothelial_Cell	Fibroblast	0	MRT2	FGF
Endothelial_Progenitor	Fibroblast	0	MRT2	FGF
Adipocyte	Fibroblast	0	MRT2	FGF
MRT1	Endothelial_Cell	0	MRT2	FGF
MRT2	Endothelial_Cell	0	MRT2	FGF
MRT4	Endothelial_Cell	0	MRT2	FGF
TAM	Endothelial_Cell	0	MRT2	FGF
Monocyte	Endothelial_Cell	0	MRT2	FGF
T_NK	Endothelial_Cell	0	MRT2	FGF
Fibroblast	Endothelial_Cell	0.002318339467	MRT2	FGF
Endothelial_Cell	Endothelial_Cell	0	MRT2	FGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	FGF
Adipocyte	Endothelial_Cell	0	MRT2	FGF
MRT1	Endothelial_Progenitor	0	MRT2	FGF
MRT2	Endothelial_Progenitor	0	MRT2	FGF
MRT4	Endothelial_Progenitor	0	MRT2	FGF

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	FGF
Monocyte	Endothelial_Progenitor	0	MRT2	FGF
T_NK	Endothelial_Progenitor	0	MRT2	FGF
Fibroblast	Endothelial_Progenitor	0.002318339467	MRT2	FGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	FGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	FGF
Adipocyte	Endothelial_Progenitor	0	MRT2	FGF
MRT1	Adipocyte	0	MRT2	FGF
MRT2	Adipocyte	0	MRT2	FGF
MRT4	Adipocyte	0	MRT2	FGF
TAM	Adipocyte	0	MRT2	FGF
Monocyte	Adipocyte	0	MRT2	FGF
T_NK	Adipocyte	0	MRT2	FGF
Fibroblast	Adipocyte	0	MRT2	FGF
Endothelial_Cell	Adipocyte	0	MRT2	FGF
Endothelial_Progenitor	Adipocyte	0	MRT2	FGF
Adipocyte	Adipocyte	0	MRT2	FGF
MRT1	MRT1	0	MRT2	THY1
MRT2	MRT1	0	MRT2	THY1
MRT4	MRT1	0	MRT2	THY1
TAM	MRT1	0	MRT2	THY1
Monocyte	MRT1	0	MRT2	THY1
T_NK	MRT1	0	MRT2	THY1
Fibroblast	MRT1	0	MRT2	THY1
Endothelial_Cell	MRT1	0	MRT2	THY1
Endothelial_Progenitor	MRT1	0	MRT2	THY1
Adipocyte	MRT1	0	MRT2	THY1
MRT1	MRT2	0	MRT2	THY1
MRT2	MRT2	0	MRT2	THY1
MRT4	MRT2	0	MRT2	THY1

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	THY1
Monocyte	MRT2	0	MRT2	THY1
T_NK	MRT2	0	MRT2	THY1
Fibroblast	MRT2	0	MRT2	THY1
Endothelial_Cell	MRT2	0	MRT2	THY1
Endothelial_Progenitor	MRT2	0	MRT2	THY1
Adipocyte	MRT2	0	MRT2	THY1
MRT1	MRT4	0	MRT2	THY1
MRT2	MRT4	0	MRT2	THY1
MRT4	MRT4	0	MRT2	THY1
TAM	MRT4	0	MRT2	THY1
Monocyte	MRT4	0	MRT2	THY1
T_NK	MRT4	0	MRT2	THY1
Fibroblast	MRT4	0	MRT2	THY1
Endothelial_Cell	MRT4	0	MRT2	THY1
Endothelial_Progenitor	MRT4	0	MRT2	THY1
Adipocyte	MRT4	0	MRT2	THY1
MRT1	TAM	0	MRT2	THY1
MRT2	TAM	0.001842360776	MRT2	THY1
MRT4	TAM	0	MRT2	THY1
TAM	TAM	0	MRT2	THY1
Monocyte	TAM	0	MRT2	THY1
T_NK	TAM	0	MRT2	THY1
Fibroblast	TAM	0.007328935473	MRT2	THY1
Endothelial_Cell	TAM	0.002111219945	MRT2	THY1
Endothelial_Progenitor	TAM	0.001842360776	MRT2	THY1
Adipocyte	TAM	0	MRT2	THY1
MRT1	Monocyte	0	MRT2	THY1
MRT2	Monocyte	0.003186764475	MRT2	THY1
MRT4	Monocyte	0	MRT2	THY1

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	THY1
Monocyte	Monocyte	0	MRT2	THY1
T_NK	Monocyte	0	MRT2	THY1
Fibroblast	Monocyte	0.01262634632	MRT2	THY1
Endothelial_Cell	Monocyte	0.003651097367	MRT2	THY1
Endothelial_Progenitor	Monocyte	0.003186764475	MRT2	THY1
Adipocyte	Monocyte	0	MRT2	THY1
MRT1	T_NK	0	MRT2	THY1
MRT2	T_NK	0	MRT2	THY1
MRT4	T_NK	0	MRT2	THY1
TAM	T_NK	0	MRT2	THY1
Monocyte	T_NK	0	MRT2	THY1
T_NK	T_NK	0	MRT2	THY1
Fibroblast	T_NK	0	MRT2	THY1
Endothelial_Cell	T_NK	0	MRT2	THY1
Endothelial_Progenitor	T_NK	0	MRT2	THY1
Adipocyte	T_NK	0	MRT2	THY1
MRT1	Fibroblast	0	MRT2	THY1
MRT2	Fibroblast	0	MRT2	THY1
MRT4	Fibroblast	0	MRT2	THY1
TAM	Fibroblast	0	MRT2	THY1
Monocyte	Fibroblast	0	MRT2	THY1
T_NK	Fibroblast	0	MRT2	THY1
Fibroblast	Fibroblast	0	MRT2	THY1
Endothelial_Cell	Fibroblast	0	MRT2	THY1
Endothelial_Progenitor	Fibroblast	0	MRT2	THY1
Adipocyte	Fibroblast	0	MRT2	THY1
MRT1	Endothelial_Cell	0	MRT2	THY1
MRT2	Endothelial_Cell	0.002923643814	MRT2	THY1
MRT4	Endothelial_Cell	0	MRT2	THY1

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	THY1
Monocyte	Endothelial_Cell	0	MRT2	THY1
T_NK	Endothelial_Cell	0	MRT2	THY1
Fibroblast	Endothelial_Cell	0.01159289477	MRT2	THY1
Endothelial_Cell	Endothelial_Cell	0.003349767102	MRT2	THY1
Endothelial_Progenitor	Endothelial_Cell	0.002923643814	MRT2	THY1
Adipocyte	Endothelial_Cell	0	MRT2	THY1
MRT1	Endothelial_Progenitor	0	MRT2	THY1
MRT2	Endothelial_Progenitor	0	MRT2	THY1
MRT4	Endothelial_Progenitor	0	MRT2	THY1
TAM	Endothelial_Progenitor	0	MRT2	THY1
Monocyte	Endothelial_Progenitor	0	MRT2	THY1
T_NK	Endothelial_Progenitor	0	MRT2	THY1
Fibroblast	Endothelial_Progenitor	0	MRT2	THY1
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	THY1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	THY1
Adipocyte	Endothelial_Progenitor	0	MRT2	THY1
MRT1	Adipocyte	0	MRT2	THY1
MRT2	Adipocyte	0	MRT2	THY1
MRT4	Adipocyte	0	MRT2	THY1
TAM	Adipocyte	0	MRT2	THY1
Monocyte	Adipocyte	0	MRT2	THY1
T_NK	Adipocyte	0	MRT2	THY1
Fibroblast	Adipocyte	0	MRT2	THY1
Endothelial_Cell	Adipocyte	0	MRT2	THY1
Endothelial_Progenitor	Adipocyte	0	MRT2	THY1
Adipocyte	Adipocyte	0	MRT2	THY1
MRT1	MRT1	0	MRT2	PDGF
MRT2	MRT1	0	MRT2	PDGF
MRT4	MRT1	0	MRT2	PDGF

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	PDGF
Monocyte	MRT1	0	MRT2	PDGF
T_NK	MRT1	0	MRT2	PDGF
Fibroblast	MRT1	0	MRT2	PDGF
Endothelial_Cell	MRT1	0	MRT2	PDGF
Endothelial_Progenitor	MRT1	0	MRT2	PDGF
Adipocyte	MRT1	0	MRT2	PDGF
MRT1	MRT2	0	MRT2	PDGF
MRT2	MRT2	0	MRT2	PDGF
MRT4	MRT2	0	MRT2	PDGF
TAM	MRT2	0	MRT2	PDGF
Monocyte	MRT2	0	MRT2	PDGF
T_NK	MRT2	0	MRT2	PDGF
Fibroblast	MRT2	0	MRT2	PDGF
Endothelial_Cell	MRT2	0	MRT2	PDGF
Endothelial_Progenitor	MRT2	0	MRT2	PDGF
Adipocyte	MRT2	0	MRT2	PDGF
MRT1	MRT4	0	MRT2	PDGF
MRT2	MRT4	0	MRT2	PDGF
MRT4	MRT4	0	MRT2	PDGF
TAM	MRT4	0	MRT2	PDGF
Monocyte	MRT4	0	MRT2	PDGF
T_NK	MRT4	0	MRT2	PDGF
Fibroblast	MRT4	0	MRT2	PDGF
Endothelial_Cell	MRT4	0	MRT2	PDGF
Endothelial_Progenitor	MRT4	0	MRT2	PDGF
Adipocyte	MRT4	0	MRT2	PDGF
MRT1	TAM	0	MRT2	PDGF
MRT2	TAM	0	MRT2	PDGF
MRT4	TAM	0	MRT2	PDGF

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	PDGF
Monocyte	TAM	0	MRT2	PDGF
T_NK	TAM	0	MRT2	PDGF
Fibroblast	TAM	0	MRT2	PDGF
Endothelial_Cell	TAM	0	MRT2	PDGF
Endothelial_Progenitor	TAM	0	MRT2	PDGF
Adipocyte	TAM	0	MRT2	PDGF
MRT1	Monocyte	0	MRT2	PDGF
MRT2	Monocyte	0	MRT2	PDGF
MRT4	Monocyte	0	MRT2	PDGF
TAM	Monocyte	0	MRT2	PDGF
Monocyte	Monocyte	0	MRT2	PDGF
T_NK	Monocyte	0	MRT2	PDGF
Fibroblast	Monocyte	0	MRT2	PDGF
Endothelial_Cell	Monocyte	0	MRT2	PDGF
Endothelial_Progenitor	Monocyte	0	MRT2	PDGF
Adipocyte	Monocyte	0	MRT2	PDGF
MRT1	T_NK	0	MRT2	PDGF
MRT2	T_NK	0	MRT2	PDGF
MRT4	T_NK	0	MRT2	PDGF
TAM	T_NK	0	MRT2	PDGF
Monocyte	T_NK	0	MRT2	PDGF
T_NK	T_NK	0	MRT2	PDGF
Fibroblast	T_NK	0	MRT2	PDGF
Endothelial_Cell	T_NK	0	MRT2	PDGF
Endothelial_Progenitor	T_NK	0	MRT2	PDGF
Adipocyte	T_NK	0	MRT2	PDGF
MRT1	Fibroblast	0	MRT2	PDGF
MRT2	Fibroblast	0	MRT2	PDGF
MRT4	Fibroblast	0	MRT2	PDGF

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0.004890146052	MRT2	PDGF
Monocyte	Fibroblast	0	MRT2	PDGF
T_NK	Fibroblast	0.00672742481	MRT2	PDGF
Fibroblast	Fibroblast	0.001551062843	MRT2	PDGF
Endothelial_Cell	Fibroblast	0.004897233751	MRT2	PDGF
Endothelial_Progenitor	Fibroblast	0.03264620918	MRT2	PDGF
Adipocyte	Fibroblast	0	MRT2	PDGF
MRT1	Endothelial_Cell	0	MRT2	PDGF
MRT2	Endothelial_Cell	0	MRT2	PDGF
MRT4	Endothelial_Cell	0	MRT2	PDGF
TAM	Endothelial_Cell	0	MRT2	PDGF
Monocyte	Endothelial_Cell	0	MRT2	PDGF
T_NK	Endothelial_Cell	0	MRT2	PDGF
Fibroblast	Endothelial_Cell	0	MRT2	PDGF
Endothelial_Cell	Endothelial_Cell	0	MRT2	PDGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	PDGF
Adipocyte	Endothelial_Cell	0	MRT2	PDGF
MRT1	Endothelial_Progenitor	0	MRT2	PDGF
MRT2	Endothelial_Progenitor	0	MRT2	PDGF
MRT4	Endothelial_Progenitor	0	MRT2	PDGF
TAM	Endothelial_Progenitor	0	MRT2	PDGF
Monocyte	Endothelial_Progenitor	0	MRT2	PDGF
T_NK	Endothelial_Progenitor	0	MRT2	PDGF
Fibroblast	Endothelial_Progenitor	0	MRT2	PDGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	PDGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	PDGF
Adipocyte	Endothelial_Progenitor	0	MRT2	PDGF
MRT1	Adipocyte	0	MRT2	PDGF
MRT2	Adipocyte	0	MRT2	PDGF
MRT4	Adipocyte	0	MRT2	PDGF

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	PDGF
Monocyte	Adipocyte	0	MRT2	PDGF
T_NK	Adipocyte	0	MRT2	PDGF
Fibroblast	Adipocyte	0	MRT2	PDGF
Endothelial_Cell	Adipocyte	0	MRT2	PDGF
Endothelial_Progenitor	Adipocyte	0	MRT2	PDGF
Adipocyte	Adipocyte	0	MRT2	PDGF
MRT1	MRT1	0	MRT2	ADGRE5
MRT2	MRT1	0	MRT2	ADGRE5
MRT4	MRT1	0	MRT2	ADGRE5
TAM	MRT1	0	MRT2	ADGRE5
Monocyte	MRT1	0	MRT2	ADGRE5
T_NK	MRT1	0	MRT2	ADGRE5
Fibroblast	MRT1	0	MRT2	ADGRE5
Endothelial_Cell	MRT1	0	MRT2	ADGRE5
Endothelial_Progenitor	MRT1	0	MRT2	ADGRE5
Adipocyte	MRT1	0	MRT2	ADGRE5
MRT1	MRT2	0	MRT2	ADGRE5
MRT2	MRT2	0	MRT2	ADGRE5
MRT4	MRT2	0	MRT2	ADGRE5
TAM	MRT2	0	MRT2	ADGRE5
Monocyte	MRT2	0	MRT2	ADGRE5
T_NK	MRT2	0	MRT2	ADGRE5
Fibroblast	MRT2	0	MRT2	ADGRE5
Endothelial_Cell	MRT2	0	MRT2	ADGRE5
Endothelial_Progenitor	MRT2	0	MRT2	ADGRE5
Adipocyte	MRT2	0	MRT2	ADGRE5
MRT1	MRT4	0	MRT2	ADGRE5
MRT2	MRT4	0	MRT2	ADGRE5
MRT4	MRT4	0	MRT2	ADGRE5

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	ADGRE5
Monocyte	MRT4	0	MRT2	ADGRE5
T_NK	MRT4	0	MRT2	ADGRE5
Fibroblast	MRT4	0	MRT2	ADGRE5
Endothelial_Cell	MRT4	0	MRT2	ADGRE5
Endothelial_Progenitor	MRT4	0	MRT2	ADGRE5
Adipocyte	MRT4	0	MRT2	ADGRE5
MRT1	TAM	0	MRT2	ADGRE5
MRT2	TAM	0	MRT2	ADGRE5
MRT4	TAM	0	MRT2	ADGRE5
TAM	TAM	0	MRT2	ADGRE5
Monocyte	TAM	0	MRT2	ADGRE5
T_NK	TAM	0	MRT2	ADGRE5
Fibroblast	TAM	0	MRT2	ADGRE5
Endothelial_Cell	TAM	0	MRT2	ADGRE5
Endothelial_Progenitor	TAM	0	MRT2	ADGRE5
Adipocyte	TAM	0	MRT2	ADGRE5
MRT1	Monocyte	0	MRT2	ADGRE5
MRT2	Monocyte	0	MRT2	ADGRE5
MRT4	Monocyte	0	MRT2	ADGRE5
TAM	Monocyte	0	MRT2	ADGRE5
Monocyte	Monocyte	0.01921664751	MRT2	ADGRE5
T_NK	Monocyte	0.005970880699	MRT2	ADGRE5
Fibroblast	Monocyte	0	MRT2	ADGRE5
Endothelial_Cell	Monocyte	0	MRT2	ADGRE5
Endothelial_Progenitor	Monocyte	0	MRT2	ADGRE5
Adipocyte	Monocyte	0	MRT2	ADGRE5
MRT1	T_NK	0	MRT2	ADGRE5
MRT2	T_NK	0	MRT2	ADGRE5
MRT4	T_NK	0	MRT2	ADGRE5

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	ADGRE5
Monocyte	T_NK	0	MRT2	ADGRE5
T_NK	T_NK	0	MRT2	ADGRE5
Fibroblast	T_NK	0	MRT2	ADGRE5
Endothelial_Cell	T_NK	0	MRT2	ADGRE5
Endothelial_Progenitor	T_NK	0	MRT2	ADGRE5
Adipocyte	T_NK	0	MRT2	ADGRE5
MRT1	Fibroblast	0	MRT2	ADGRE5
MRT2	Fibroblast	0	MRT2	ADGRE5
MRT4	Fibroblast	0	MRT2	ADGRE5
TAM	Fibroblast	0	MRT2	ADGRE5
Monocyte	Fibroblast	0.007522650672	MRT2	ADGRE5
T_NK	Fibroblast	0.002318339467	MRT2	ADGRE5
Fibroblast	Fibroblast	0	MRT2	ADGRE5
Endothelial_Cell	Fibroblast	0	MRT2	ADGRE5
Endothelial_Progenitor	Fibroblast	0	MRT2	ADGRE5
Adipocyte	Fibroblast	0	MRT2	ADGRE5
MRT1	Endothelial_Cell	0	MRT2	ADGRE5
MRT2	Endothelial_Cell	0	MRT2	ADGRE5
MRT4	Endothelial_Cell	0	MRT2	ADGRE5
TAM	Endothelial_Cell	0	MRT2	ADGRE5
Monocyte	Endothelial_Cell	0.007522650672	MRT2	ADGRE5
T_NK	Endothelial_Cell	0.002318339467	MRT2	ADGRE5
Fibroblast	Endothelial_Cell	0	MRT2	ADGRE5
Endothelial_Cell	Endothelial_Cell	0	MRT2	ADGRE5
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	ADGRE5
Adipocyte	Endothelial_Cell	0	MRT2	ADGRE5
MRT1	Endothelial_Progenitor	0	MRT2	ADGRE5
MRT2	Endothelial_Progenitor	0	MRT2	ADGRE5
MRT4	Endothelial_Progenitor	0	MRT2	ADGRE5

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	ADGRE5
Monocyte	Endothelial_Progenitor	0	MRT2	ADGRE5
T_NK	Endothelial_Progenitor	0	MRT2	ADGRE5
Fibroblast	Endothelial_Progenitor	0	MRT2	ADGRE5
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	ADGRE5
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	ADGRE5
Adipocyte	Endothelial_Progenitor	0	MRT2	ADGRE5
MRT1	Adipocyte	0	MRT2	ADGRE5
MRT2	Adipocyte	0	MRT2	ADGRE5
MRT4	Adipocyte	0	MRT2	ADGRE5
TAM	Adipocyte	0	MRT2	ADGRE5
Monocyte	Adipocyte	0	MRT2	ADGRE5
T_NK	Adipocyte	0	MRT2	ADGRE5
Fibroblast	Adipocyte	0	MRT2	ADGRE5
Endothelial_Cell	Adipocyte	0	MRT2	ADGRE5
Endothelial_Progenitor	Adipocyte	0	MRT2	ADGRE5
Adipocyte	Adipocyte	0	MRT2	ADGRE5
MRT1	MRT1	0	MRT2	CDH5
MRT2	MRT1	0	MRT2	CDH5
MRT4	MRT1	0	MRT2	CDH5
TAM	MRT1	0	MRT2	CDH5
Monocyte	MRT1	0	MRT2	CDH5
T_NK	MRT1	0	MRT2	CDH5
Fibroblast	MRT1	0	MRT2	CDH5
Endothelial_Cell	MRT1	0	MRT2	CDH5
Endothelial_Progenitor	MRT1	0	MRT2	CDH5
Adipocyte	MRT1	0	MRT2	CDH5
MRT1	MRT2	0	MRT2	CDH5
MRT2	MRT2	0	MRT2	CDH5
MRT4	MRT2	0	MRT2	CDH5

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	CDH5
Monocyte	MRT2	0	MRT2	CDH5
T_NK	MRT2	0	MRT2	CDH5
Fibroblast	MRT2	0	MRT2	CDH5
Endothelial_Cell	MRT2	0	MRT2	CDH5
Endothelial_Progenitor	MRT2	0	MRT2	CDH5
Adipocyte	MRT2	0	MRT2	CDH5
MRT1	MRT4	0	MRT2	CDH5
MRT2	MRT4	0	MRT2	CDH5
MRT4	MRT4	0	MRT2	CDH5
TAM	MRT4	0	MRT2	CDH5
Monocyte	MRT4	0	MRT2	CDH5
T_NK	MRT4	0	MRT2	CDH5
Fibroblast	MRT4	0	MRT2	CDH5
Endothelial_Cell	MRT4	0	MRT2	CDH5
Endothelial_Progenitor	MRT4	0	MRT2	CDH5
Adipocyte	MRT4	0	MRT2	CDH5
MRT1	TAM	0	MRT2	CDH5
MRT2	TAM	0	MRT2	CDH5
MRT4	TAM	0	MRT2	CDH5
TAM	TAM	0	MRT2	CDH5
Monocyte	TAM	0	MRT2	CDH5
T_NK	TAM	0	MRT2	CDH5
Fibroblast	TAM	0	MRT2	CDH5
Endothelial_Cell	TAM	0	MRT2	CDH5
Endothelial_Progenitor	TAM	0	MRT2	CDH5
Adipocyte	TAM	0	MRT2	CDH5
MRT1	Monocyte	0	MRT2	CDH5
MRT2	Monocyte	0	MRT2	CDH5
MRT4	Monocyte	0	MRT2	CDH5

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	CDH5
Monocyte	Monocyte	0	MRT2	CDH5
T_NK	Monocyte	0	MRT2	CDH5
Fibroblast	Monocyte	0	MRT2	CDH5
Endothelial_Cell	Monocyte	0	MRT2	CDH5
Endothelial_Progenitor	Monocyte	0	MRT2	CDH5
Adipocyte	Monocyte	0	MRT2	CDH5
MRT1	T_NK	0	MRT2	CDH5
MRT2	T_NK	0	MRT2	CDH5
MRT4	T_NK	0	MRT2	CDH5
TAM	T_NK	0	MRT2	CDH5
Monocyte	T_NK	0	MRT2	CDH5
T_NK	T_NK	0	MRT2	CDH5
Fibroblast	T_NK	0	MRT2	CDH5
Endothelial_Cell	T_NK	0	MRT2	CDH5
Endothelial_Progenitor	T_NK	0	MRT2	CDH5
Adipocyte	T_NK	0	MRT2	CDH5
MRT1	Fibroblast	0	MRT2	CDH5
MRT2	Fibroblast	0	MRT2	CDH5
MRT4	Fibroblast	0	MRT2	CDH5
TAM	Fibroblast	0	MRT2	CDH5
Monocyte	Fibroblast	0	MRT2	CDH5
T_NK	Fibroblast	0	MRT2	CDH5
Fibroblast	Fibroblast	0	MRT2	CDH5
Endothelial_Cell	Fibroblast	0	MRT2	CDH5
Endothelial_Progenitor	Fibroblast	0	MRT2	CDH5
Adipocyte	Fibroblast	0	MRT2	CDH5
MRT1	Endothelial_Cell	0	MRT2	CDH5
MRT2	Endothelial_Cell	0	MRT2	CDH5
MRT4	Endothelial_Cell	0	MRT2	CDH5

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	CDH5
Monocyte	Endothelial_Cell	0	MRT2	CDH5
T_NK	Endothelial_Cell	0	MRT2	CDH5
Fibroblast	Endothelial_Cell	0	MRT2	CDH5
Endothelial_Cell	Endothelial_Cell	0.02292007947	MRT2	CDH5
Endothelial_Progenitor	Endothelial_Cell	0.005830242077	MRT2	CDH5
Adipocyte	Endothelial_Cell	0	MRT2	CDH5
MRT1	Endothelial_Progenitor	0	MRT2	CDH5
MRT2	Endothelial_Progenitor	0	MRT2	CDH5
MRT4	Endothelial_Progenitor	0	MRT2	CDH5
TAM	Endothelial_Progenitor	0	MRT2	CDH5
Monocyte	Endothelial_Progenitor	0	MRT2	CDH5
T_NK	Endothelial_Progenitor	0	MRT2	CDH5
Fibroblast	Endothelial_Progenitor	0	MRT2	CDH5
Endothelial_Cell	Endothelial_Progenitor	0.005830242077	MRT2	CDH5
Endothelial_Progenitor	Endothelial_Progenitor	0.001463961959	MRT2	CDH5
Adipocyte	Endothelial_Progenitor	0	MRT2	CDH5
MRT1	Adipocyte	0	MRT2	CDH5
MRT2	Adipocyte	0	MRT2	CDH5
MRT4	Adipocyte	0	MRT2	CDH5
TAM	Adipocyte	0	MRT2	CDH5
Monocyte	Adipocyte	0	MRT2	CDH5
T_NK	Adipocyte	0	MRT2	CDH5
Fibroblast	Adipocyte	0	MRT2	CDH5
Endothelial_Cell	Adipocyte	0	MRT2	CDH5
Endothelial_Progenitor	Adipocyte	0	MRT2	CDH5
Adipocyte	Adipocyte	0	MRT2	CDH5
MRT1	MRT1	0	MRT2	VWF
MRT2	MRT1	0	MRT2	VWF
MRT4	MRT1	0	MRT2	VWF

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	VWF
Monocyte	MRT1	0	MRT2	VWF
T_NK	MRT1	0	MRT2	VWF
Fibroblast	MRT1	0	MRT2	VWF
Endothelial_Cell	MRT1	0	MRT2	VWF
Endothelial_Progenitor	MRT1	0	MRT2	VWF
Adipocyte	MRT1	0	MRT2	VWF
MRT1	MRT2	0	MRT2	VWF
MRT2	MRT2	0	MRT2	VWF
MRT4	MRT2	0	MRT2	VWF
TAM	MRT2	0	MRT2	VWF
Monocyte	MRT2	0	MRT2	VWF
T_NK	MRT2	0	MRT2	VWF
Fibroblast	MRT2	0	MRT2	VWF
Endothelial_Cell	MRT2	0	MRT2	VWF
Endothelial_Progenitor	MRT2	0	MRT2	VWF
Adipocyte	MRT2	0	MRT2	VWF
MRT1	MRT4	0	MRT2	VWF
MRT2	MRT4	0	MRT2	VWF
MRT4	MRT4	0	MRT2	VWF
TAM	MRT4	0	MRT2	VWF
Monocyte	MRT4	0	MRT2	VWF
T_NK	MRT4	0	MRT2	VWF
Fibroblast	MRT4	0	MRT2	VWF
Endothelial_Cell	MRT4	0	MRT2	VWF
Endothelial_Progenitor	MRT4	0	MRT2	VWF
Adipocyte	MRT4	0	MRT2	VWF
MRT1	TAM	0	MRT2	VWF
MRT2	TAM	0	MRT2	VWF
MRT4	TAM	0	MRT2	VWF

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	VWF
Monocyte	TAM	0	MRT2	VWF
T_NK	TAM	0	MRT2	VWF
Fibroblast	TAM	0	MRT2	VWF
Endothelial_Cell	TAM	0	MRT2	VWF
Endothelial_Progenitor	TAM	0	MRT2	VWF
Adipocyte	TAM	0	MRT2	VWF
MRT1	Monocyte	0	MRT2	VWF
MRT2	Monocyte	0	MRT2	VWF
MRT4	Monocyte	0	MRT2	VWF
TAM	Monocyte	0	MRT2	VWF
Monocyte	Monocyte	0	MRT2	VWF
T_NK	Monocyte	0	MRT2	VWF
Fibroblast	Monocyte	0	MRT2	VWF
Endothelial_Cell	Monocyte	0	MRT2	VWF
Endothelial_Progenitor	Monocyte	0	MRT2	VWF
Adipocyte	Monocyte	0	MRT2	VWF
MRT1	T_NK	0	MRT2	VWF
MRT2	T_NK	0	MRT2	VWF
MRT4	T_NK	0	MRT2	VWF
TAM	T_NK	0	MRT2	VWF
Monocyte	T_NK	0	MRT2	VWF
T_NK	T_NK	0	MRT2	VWF
Fibroblast	T_NK	0	MRT2	VWF
Endothelial_Cell	T_NK	0	MRT2	VWF
Endothelial_Progenitor	T_NK	0	MRT2	VWF
Adipocyte	T_NK	0	MRT2	VWF
MRT1	Fibroblast	0	MRT2	VWF
MRT2	Fibroblast	0	MRT2	VWF
MRT4	Fibroblast	0	MRT2	VWF

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	VWF
Monocyte	Fibroblast	0	MRT2	VWF
T_NK	Fibroblast	0	MRT2	VWF
Fibroblast	Fibroblast	0	MRT2	VWF
Endothelial_Cell	Fibroblast	0	MRT2	VWF
Endothelial_Progenitor	Fibroblast	0	MRT2	VWF
Adipocyte	Fibroblast	0	MRT2	VWF
MRT1	Endothelial_Cell	0	MRT2	VWF
MRT2	Endothelial_Cell	0	MRT2	VWF
MRT4	Endothelial_Cell	0	MRT2	VWF
TAM	Endothelial_Cell	0	MRT2	VWF
Monocyte	Endothelial_Cell	0	MRT2	VWF
T_NK	Endothelial_Cell	0	MRT2	VWF
Fibroblast	Endothelial_Cell	0	MRT2	VWF
Endothelial_Cell	Endothelial_Cell	0	MRT2	VWF
Endothelial_Progenitor	Endothelial_Cell	0.03385526137	MRT2	VWF
Adipocyte	Endothelial_Cell	0	MRT2	VWF
MRT1	Endothelial_Progenitor	0	MRT2	VWF
MRT2	Endothelial_Progenitor	0	MRT2	VWF
MRT4	Endothelial_Progenitor	0	MRT2	VWF
TAM	Endothelial_Progenitor	0	MRT2	VWF
Monocyte	Endothelial_Progenitor	0	MRT2	VWF
T_NK	Endothelial_Progenitor	0	MRT2	VWF
Fibroblast	Endothelial_Progenitor	0	MRT2	VWF
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	VWF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	VWF
Adipocyte	Endothelial_Progenitor	0	MRT2	VWF
MRT1	Adipocyte	0	MRT2	VWF
MRT2	Adipocyte	0	MRT2	VWF
MRT4	Adipocyte	0	MRT2	VWF

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	VWF
Monocyte	Adipocyte	0	MRT2	VWF
T_NK	Adipocyte	0	MRT2	VWF
Fibroblast	Adipocyte	0	MRT2	VWF
Endothelial_Cell	Adipocyte	0	MRT2	VWF
Endothelial_Progenitor	Adipocyte	0	MRT2	VWF
Adipocyte	Adipocyte	0	MRT2	VWF
MRT1	MRT1	0	MRT2	TGFb
MRT2	MRT1	0	MRT2	TGFb
MRT4	MRT1	0	MRT2	TGFb
TAM	MRT1	0	MRT2	TGFb
Monocyte	MRT1	0	MRT2	TGFb
T_NK	MRT1	0	MRT2	TGFb
Fibroblast	MRT1	0	MRT2	TGFb
Endothelial_Cell	MRT1	0	MRT2	TGFb
Endothelial_Progenitor	MRT1	0	MRT2	TGFb
Adipocyte	MRT1	0	MRT2	TGFb
MRT1	MRT2	0	MRT2	TGFb
MRT2	MRT2	0	MRT2	TGFb
MRT4	MRT2	0	MRT2	TGFb
TAM	MRT2	0	MRT2	TGFb
Monocyte	MRT2	0	MRT2	TGFb
T_NK	MRT2	0	MRT2	TGFb
Fibroblast	MRT2	0	MRT2	TGFb
Endothelial_Cell	MRT2	0	MRT2	TGFb
Endothelial_Progenitor	MRT2	0	MRT2	TGFb
Adipocyte	MRT2	0	MRT2	TGFb
MRT1	MRT4	0	MRT2	TGFb
MRT2	MRT4	0	MRT2	TGFb
MRT4	MRT4	0	MRT2	TGFb

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	TGFb
Monocyte	MRT4	0	MRT2	TGFb
T_NK	MRT4	0	MRT2	TGFb
Fibroblast	MRT4	0	MRT2	TGFb
Endothelial_Cell	MRT4	0	MRT2	TGFb
Endothelial_Progenitor	MRT4	0	MRT2	TGFb
Adipocyte	MRT4	0	MRT2	TGFb
MRT1	TAM	0	MRT2	TGFb
MRT2	TAM	0	MRT2	TGFb
MRT4	TAM	0	MRT2	TGFb
TAM	TAM	0	MRT2	TGFb
Monocyte	TAM	0.004909291203	MRT2	TGFb
T_NK	TAM	0	MRT2	TGFb
Fibroblast	TAM	0.00789328869	MRT2	TGFb
Endothelial_Cell	TAM	0.004949356122	MRT2	TGFb
Endothelial_Progenitor	TAM	0	MRT2	TGFb
Adipocyte	TAM	0	MRT2	TGFb
MRT1	Monocyte	0	MRT2	TGFb
MRT2	Monocyte	0	MRT2	TGFb
MRT4	Monocyte	0	MRT2	TGFb
TAM	Monocyte	0	MRT2	TGFb
Monocyte	Monocyte	0	MRT2	TGFb
T_NK	Monocyte	0	MRT2	TGFb
Fibroblast	Monocyte	0	MRT2	TGFb
Endothelial_Cell	Monocyte	0	MRT2	TGFb
Endothelial_Progenitor	Monocyte	0	MRT2	TGFb
Adipocyte	Monocyte	0	MRT2	TGFb
MRT1	T_NK	0	MRT2	TGFb
MRT2	T_NK	0	MRT2	TGFb
MRT4	T_NK	0	MRT2	TGFb

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	TGFb
Monocyte	T_NK	0	MRT2	TGFb
T_NK	T_NK	0	MRT2	TGFb
Fibroblast	T_NK	0	MRT2	TGFb
Endothelial_Cell	T_NK	0	MRT2	TGFb
Endothelial_Progenitor	T_NK	0	MRT2	TGFb
Adipocyte	T_NK	0	MRT2	TGFb
MRT1	Fibroblast	0	MRT2	TGFb
MRT2	Fibroblast	0	MRT2	TGFb
MRT4	Fibroblast	0	MRT2	TGFb
TAM	Fibroblast	0	MRT2	TGFb
Monocyte	Fibroblast	0.002672813215	MRT2	TGFb
T_NK	Fibroblast	0	MRT2	TGFb
Fibroblast	Fibroblast	0.004920316367	MRT2	TGFb
Endothelial_Cell	Fibroblast	0.00268166382	MRT2	TGFb
Endothelial_Progenitor	Fibroblast	0	MRT2	TGFb
Adipocyte	Fibroblast	0	MRT2	TGFb
MRT1	Endothelial_Cell	0	MRT2	TGFb
MRT2	Endothelial_Cell	0	MRT2	TGFb
MRT4	Endothelial_Cell	0	MRT2	TGFb
TAM	Endothelial_Cell	0	MRT2	TGFb
Monocyte	Endothelial_Cell	0	MRT2	TGFb
T_NK	Endothelial_Cell	0	MRT2	TGFb
Fibroblast	Endothelial_Cell	0	MRT2	TGFb
Endothelial_Cell	Endothelial_Cell	0	MRT2	TGFb
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	TGFb
Adipocyte	Endothelial_Cell	0	MRT2	TGFb
MRT1	Endothelial_Progenitor	0	MRT2	TGFb
MRT2	Endothelial_Progenitor	0	MRT2	TGFb
MRT4	Endothelial_Progenitor	0	MRT2	TGFb

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	TGFb
Monocyte	Endothelial_Progenitor	0.001876715433	MRT2	TGFb
T_NK	Endothelial_Progenitor	0	MRT2	TGFb
Fibroblast	Endothelial_Progenitor	0.001914227367	MRT2	TGFb
Endothelial_Cell	Endothelial_Progenitor	0.001914988834	MRT2	TGFb
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	TGFb
Adipocyte	Endothelial_Progenitor	0	MRT2	TGFb
MRT1	Adipocyte	0	MRT2	TGFb
MRT2	Adipocyte	0	MRT2	TGFb
MRT4	Adipocyte	0	MRT2	TGFb
TAM	Adipocyte	0	MRT2	TGFb
Monocyte	Adipocyte	0	MRT2	TGFb
T_NK	Adipocyte	0	MRT2	TGFb
Fibroblast	Adipocyte	0	MRT2	TGFb
Endothelial_Cell	Adipocyte	0	MRT2	TGFb
Endothelial_Progenitor	Adipocyte	0	MRT2	TGFb
Adipocyte	Adipocyte	0	MRT2	TGFb
MRT1	MRT1	0	MRT2	HSPG
MRT2	MRT1	0	MRT2	HSPG
MRT4	MRT1	0	MRT2	HSPG
TAM	MRT1	0	MRT2	HSPG
Monocyte	MRT1	0	MRT2	HSPG
T_NK	MRT1	0	MRT2	HSPG
Fibroblast	MRT1	0	MRT2	HSPG
Endothelial_Cell	MRT1	0	MRT2	HSPG
Endothelial_Progenitor	MRT1	0	MRT2	HSPG
Adipocyte	MRT1	0	MRT2	HSPG
MRT1	MRT2	0	MRT2	HSPG
MRT2	MRT2	0	MRT2	HSPG
MRT4	MRT2	0	MRT2	HSPG

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	HSPG
Monocyte	MRT2	0	MRT2	HSPG
T_NK	MRT2	0	MRT2	HSPG
Fibroblast	MRT2	0.005830242077	MRT2	HSPG
Endothelial_Cell	MRT2	0.005830242077	MRT2	HSPG
Endothelial_Progenitor	MRT2	0.01632813899	MRT2	HSPG
Adipocyte	MRT2	0	MRT2	HSPG
MRT1	MRT4	0	MRT2	HSPG
MRT2	MRT4	0	MRT2	HSPG
MRT4	MRT4	0	MRT2	HSPG
TAM	MRT4	0	MRT2	HSPG
Monocyte	MRT4	0	MRT2	HSPG
T_NK	MRT4	0	MRT2	HSPG
Fibroblast	MRT4	0	MRT2	HSPG
Endothelial_Cell	MRT4	0	MRT2	HSPG
Endothelial_Progenitor	MRT4	0	MRT2	HSPG
Adipocyte	MRT4	0	MRT2	HSPG
MRT1	TAM	0	MRT2	HSPG
MRT2	TAM	0	MRT2	HSPG
MRT4	TAM	0	MRT2	HSPG
TAM	TAM	0	MRT2	HSPG
Monocyte	TAM	0	MRT2	HSPG
T_NK	TAM	0	MRT2	HSPG
Fibroblast	TAM	0	MRT2	HSPG
Endothelial_Cell	TAM	0	MRT2	HSPG
Endothelial_Progenitor	TAM	0	MRT2	HSPG
Adipocyte	TAM	0	MRT2	HSPG
MRT1	Monocyte	0	MRT2	HSPG
MRT2	Monocyte	0	MRT2	HSPG
MRT4	Monocyte	0	MRT2	HSPG

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	HSPG
Monocyte	Monocyte	0	MRT2	HSPG
T_NK	Monocyte	0	MRT2	HSPG
Fibroblast	Monocyte	0	MRT2	HSPG
Endothelial_Cell	Monocyte	0	MRT2	HSPG
Endothelial_Progenitor	Monocyte	0	MRT2	HSPG
Adipocyte	Monocyte	0	MRT2	HSPG
MRT1	T_NK	0	MRT2	HSPG
MRT2	T_NK	0	MRT2	HSPG
MRT4	T_NK	0	MRT2	HSPG
TAM	T_NK	0	MRT2	HSPG
Monocyte	T_NK	0	MRT2	HSPG
T_NK	T_NK	0	MRT2	HSPG
Fibroblast	T_NK	0	MRT2	HSPG
Endothelial_Cell	T_NK	0	MRT2	HSPG
Endothelial_Progenitor	T_NK	0	MRT2	HSPG
Adipocyte	T_NK	0	MRT2	HSPG
MRT1	Fibroblast	0	MRT2	HSPG
MRT2	Fibroblast	0	MRT2	HSPG
MRT4	Fibroblast	0	MRT2	HSPG
TAM	Fibroblast	0	MRT2	HSPG
Monocyte	Fibroblast	0	MRT2	HSPG
T_NK	Fibroblast	0	MRT2	HSPG
Fibroblast	Fibroblast	0	MRT2	HSPG
Endothelial_Cell	Fibroblast	0	MRT2	HSPG
Endothelial_Progenitor	Fibroblast	0	MRT2	HSPG
Adipocyte	Fibroblast	0	MRT2	HSPG
MRT1	Endothelial_Cell	0	MRT2	HSPG
MRT2	Endothelial_Cell	0	MRT2	HSPG
MRT4	Endothelial_Cell	0	MRT2	HSPG

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	HSPG
Monocyte	Endothelial_Cell	0	MRT2	HSPG
T_NK	Endothelial_Cell	0	MRT2	HSPG
Fibroblast	Endothelial_Cell	0	MRT2	HSPG
Endothelial_Cell	Endothelial_Cell	0	MRT2	HSPG
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	HSPG
Adipocyte	Endothelial_Cell	0	MRT2	HSPG
MRT1	Endothelial_Progenitor	0	MRT2	HSPG
MRT2	Endothelial_Progenitor	0	MRT2	HSPG
MRT4	Endothelial_Progenitor	0	MRT2	HSPG
TAM	Endothelial_Progenitor	0	MRT2	HSPG
Monocyte	Endothelial_Progenitor	0	MRT2	HSPG
T_NK	Endothelial_Progenitor	0	MRT2	HSPG
Fibroblast	Endothelial_Progenitor	0	MRT2	HSPG
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	HSPG
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	HSPG
Adipocyte	Endothelial_Progenitor	0	MRT2	HSPG
MRT1	Adipocyte	0	MRT2	HSPG
MRT2	Adipocyte	0	MRT2	HSPG
MRT4	Adipocyte	0	MRT2	HSPG
TAM	Adipocyte	0	MRT2	HSPG
Monocyte	Adipocyte	0	MRT2	HSPG
T_NK	Adipocyte	0	MRT2	HSPG
Fibroblast	Adipocyte	0	MRT2	HSPG
Endothelial_Cell	Adipocyte	0	MRT2	HSPG
Endothelial_Progenitor	Adipocyte	0	MRT2	HSPG
Adipocyte	Adipocyte	0	MRT2	HSPG
MRT1	MRT1	0	MRT2	PROS
MRT2	MRT1	0	MRT2	PROS
MRT4	MRT1	0	MRT2	PROS

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	PROS
Monocyte	MRT1	0	MRT2	PROS
T_NK	MRT1	0	MRT2	PROS
Fibroblast	MRT1	0	MRT2	PROS
Endothelial_Cell	MRT1	0	MRT2	PROS
Endothelial_Progenitor	MRT1	0	MRT2	PROS
Adipocyte	MRT1	0	MRT2	PROS
MRT1	MRT2	0	MRT2	PROS
MRT2	MRT2	0	MRT2	PROS
MRT4	MRT2	0	MRT2	PROS
TAM	MRT2	0	MRT2	PROS
Monocyte	MRT2	0	MRT2	PROS
T_NK	MRT2	0	MRT2	PROS
Fibroblast	MRT2	0	MRT2	PROS
Endothelial_Cell	MRT2	0	MRT2	PROS
Endothelial_Progenitor	MRT2	0	MRT2	PROS
Adipocyte	MRT2	0	MRT2	PROS
MRT1	MRT4	0	MRT2	PROS
MRT2	MRT4	0	MRT2	PROS
MRT4	MRT4	0	MRT2	PROS
TAM	MRT4	0	MRT2	PROS
Monocyte	MRT4	0	MRT2	PROS
T_NK	MRT4	0	MRT2	PROS
Fibroblast	MRT4	0	MRT2	PROS
Endothelial_Cell	MRT4	0	MRT2	PROS
Endothelial_Progenitor	MRT4	0	MRT2	PROS
Adipocyte	MRT4	0	MRT2	PROS
MRT1	TAM	0	MRT2	PROS
MRT2	TAM	0.002318339467	MRT2	PROS
MRT4	TAM	0	MRT2	PROS

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	PROS
Monocyte	TAM	0	MRT2	PROS
T_NK	TAM	0	MRT2	PROS
Fibroblast	TAM	0	MRT2	PROS
Endothelial_Cell	TAM	0.002318339467	MRT2	PROS
Endothelial_Progenitor	TAM	0.008261649471	MRT2	PROS
Adipocyte	TAM	0	MRT2	PROS
MRT1	Monocyte	0	MRT2	PROS
MRT2	Monocyte	0	MRT2	PROS
MRT4	Monocyte	0	MRT2	PROS
TAM	Monocyte	0	MRT2	PROS
Monocyte	Monocyte	0	MRT2	PROS
T_NK	Monocyte	0	MRT2	PROS
Fibroblast	Monocyte	0	MRT2	PROS
Endothelial_Cell	Monocyte	0	MRT2	PROS
Endothelial_Progenitor	Monocyte	0	MRT2	PROS
Adipocyte	Monocyte	0	MRT2	PROS
MRT1	T_NK	0	MRT2	PROS
MRT2	T_NK	0	MRT2	PROS
MRT4	T_NK	0	MRT2	PROS
TAM	T_NK	0	MRT2	PROS
Monocyte	T_NK	0	MRT2	PROS
T_NK	T_NK	0	MRT2	PROS
Fibroblast	T_NK	0	MRT2	PROS
Endothelial_Cell	T_NK	0	MRT2	PROS
Endothelial_Progenitor	T_NK	0	MRT2	PROS
Adipocyte	T_NK	0	MRT2	PROS
MRT1	Fibroblast	0	MRT2	PROS
MRT2	Fibroblast	0.001463961959	MRT2	PROS
MRT4	Fibroblast	0	MRT2	PROS

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	PROS
Monocyte	Fibroblast	0	MRT2	PROS
T_NK	Fibroblast	0	MRT2	PROS
Fibroblast	Fibroblast	0	MRT2	PROS
Endothelial_Cell	Fibroblast	0.001463961959	MRT2	PROS
Endothelial_Progenitor	Fibroblast	0.005228462722	MRT2	PROS
Adipocyte	Fibroblast	0	MRT2	PROS
MRT1	Endothelial_Cell	0	MRT2	PROS
MRT2	Endothelial_Cell	0	MRT2	PROS
MRT4	Endothelial_Cell	0	MRT2	PROS
TAM	Endothelial_Cell	0	MRT2	PROS
Monocyte	Endothelial_Cell	0	MRT2	PROS
T_NK	Endothelial_Cell	0	MRT2	PROS
Fibroblast	Endothelial_Cell	0	MRT2	PROS
Endothelial_Cell	Endothelial_Cell	0	MRT2	PROS
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	PROS
Adipocyte	Endothelial_Cell	0	MRT2	PROS
MRT1	Endothelial_Progenitor	0	MRT2	PROS
MRT2	Endothelial_Progenitor	0	MRT2	PROS
MRT4	Endothelial_Progenitor	0	MRT2	PROS
TAM	Endothelial_Progenitor	0	MRT2	PROS
Monocyte	Endothelial_Progenitor	0	MRT2	PROS
T_NK	Endothelial_Progenitor	0	MRT2	PROS
Fibroblast	Endothelial_Progenitor	0	MRT2	PROS
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	PROS
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	PROS
Adipocyte	Endothelial_Progenitor	0	MRT2	PROS
MRT1	Adipocyte	0	MRT2	PROS
MRT2	Adipocyte	0	MRT2	PROS
MRT4	Adipocyte	0	MRT2	PROS

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	PROS
Monocyte	Adipocyte	0	MRT2	PROS
T_NK	Adipocyte	0	MRT2	PROS
Fibroblast	Adipocyte	0	MRT2	PROS
Endothelial_Cell	Adipocyte	0	MRT2	PROS
Endothelial_Progenitor	Adipocyte	0	MRT2	PROS
Adipocyte	Adipocyte	0	MRT2	PROS
MRT1	MRT1	0	MRT2	NEGR
MRT2	MRT1	0	MRT2	NEGR
MRT4	MRT1	0	MRT2	NEGR
TAM	MRT1	0	MRT2	NEGR
Monocyte	MRT1	0	MRT2	NEGR
T_NK	MRT1	0	MRT2	NEGR
Fibroblast	MRT1	0	MRT2	NEGR
Endothelial_Cell	MRT1	0	MRT2	NEGR
Endothelial_Progenitor	MRT1	0	MRT2	NEGR
Adipocyte	MRT1	0	MRT2	NEGR
MRT1	MRT2	0	MRT2	NEGR
MRT2	MRT2	0	MRT2	NEGR
MRT4	MRT2	0	MRT2	NEGR
TAM	MRT2	0	MRT2	NEGR
Monocyte	MRT2	0	MRT2	NEGR
T_NK	MRT2	0	MRT2	NEGR
Fibroblast	MRT2	0	MRT2	NEGR
Endothelial_Cell	MRT2	0	MRT2	NEGR
Endothelial_Progenitor	MRT2	0	MRT2	NEGR
Adipocyte	MRT2	0	MRT2	NEGR
MRT1	MRT4	0	MRT2	NEGR
MRT2	MRT4	0	MRT2	NEGR
MRT4	MRT4	0	MRT2	NEGR

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	NEGR
Monocyte	MRT4	0	MRT2	NEGR
T_NK	MRT4	0	MRT2	NEGR
Fibroblast	MRT4	0	MRT2	NEGR
Endothelial_Cell	MRT4	0	MRT2	NEGR
Endothelial_Progenitor	MRT4	0	MRT2	NEGR
Adipocyte	MRT4	0	MRT2	NEGR
MRT1	TAM	0	MRT2	NEGR
MRT2	TAM	0	MRT2	NEGR
MRT4	TAM	0	MRT2	NEGR
TAM	TAM	0	MRT2	NEGR
Monocyte	TAM	0	MRT2	NEGR
T_NK	TAM	0	MRT2	NEGR
Fibroblast	TAM	0	MRT2	NEGR
Endothelial_Cell	TAM	0	MRT2	NEGR
Endothelial_Progenitor	TAM	0	MRT2	NEGR
Adipocyte	TAM	0	MRT2	NEGR
MRT1	Monocyte	0	MRT2	NEGR
MRT2	Monocyte	0	MRT2	NEGR
MRT4	Monocyte	0	MRT2	NEGR
TAM	Monocyte	0	MRT2	NEGR
Monocyte	Monocyte	0.009701539287	MRT2	NEGR
T_NK	Monocyte	0	MRT2	NEGR
Fibroblast	Monocyte	0.003775526319	MRT2	NEGR
Endothelial_Cell	Monocyte	0	MRT2	NEGR
Endothelial_Progenitor	Monocyte	0	MRT2	NEGR
Adipocyte	Monocyte	0	MRT2	NEGR
MRT1	T_NK	0	MRT2	NEGR
MRT2	T_NK	0	MRT2	NEGR
MRT4	T_NK	0	MRT2	NEGR

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	NEGR
Monocyte	T_NK	0	MRT2	NEGR
T_NK	T_NK	0	MRT2	NEGR
Fibroblast	T_NK	0	MRT2	NEGR
Endothelial_Cell	T_NK	0	MRT2	NEGR
Endothelial_Progenitor	T_NK	0	MRT2	NEGR
Adipocyte	T_NK	0	MRT2	NEGR
MRT1	Fibroblast	0	MRT2	NEGR
MRT2	Fibroblast	0	MRT2	NEGR
MRT4	Fibroblast	0	MRT2	NEGR
TAM	Fibroblast	0	MRT2	NEGR
Monocyte	Fibroblast	0.003775526319	MRT2	NEGR
T_NK	Fibroblast	0	MRT2	NEGR
Fibroblast	Fibroblast	0.001463961959	MRT2	NEGR
Endothelial_Cell	Fibroblast	0	MRT2	NEGR
Endothelial_Progenitor	Fibroblast	0	MRT2	NEGR
Adipocyte	Fibroblast	0	MRT2	NEGR
MRT1	Endothelial_Cell	0	MRT2	NEGR
MRT2	Endothelial_Cell	0	MRT2	NEGR
MRT4	Endothelial_Cell	0	MRT2	NEGR
TAM	Endothelial_Cell	0	MRT2	NEGR
Monocyte	Endothelial_Cell	0	MRT2	NEGR
T_NK	Endothelial_Cell	0	MRT2	NEGR
Fibroblast	Endothelial_Cell	0	MRT2	NEGR
Endothelial_Cell	Endothelial_Cell	0	MRT2	NEGR
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	NEGR
Adipocyte	Endothelial_Cell	0	MRT2	NEGR
MRT1	Endothelial_Progenitor	0	MRT2	NEGR
MRT2	Endothelial_Progenitor	0	MRT2	NEGR
MRT4	Endothelial_Progenitor	0	MRT2	NEGR

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	NEGR
Monocyte	Endothelial_Progenitor	0	MRT2	NEGR
T_NK	Endothelial_Progenitor	0	MRT2	NEGR
Fibroblast	Endothelial_Progenitor	0	MRT2	NEGR
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	NEGR
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	NEGR
Adipocyte	Endothelial_Progenitor	0	MRT2	NEGR
MRT1	Adipocyte	0	MRT2	NEGR
MRT2	Adipocyte	0	MRT2	NEGR
MRT4	Adipocyte	0	MRT2	NEGR
TAM	Adipocyte	0	MRT2	NEGR
Monocyte	Adipocyte	0	MRT2	NEGR
T_NK	Adipocyte	0	MRT2	NEGR
Fibroblast	Adipocyte	0	MRT2	NEGR
Endothelial_Cell	Adipocyte	0	MRT2	NEGR
Endothelial_Progenitor	Adipocyte	0	MRT2	NEGR
Adipocyte	Adipocyte	0	MRT2	NEGR
MRT1	MRT1	0	MRT2	ESAM
MRT2	MRT1	0	MRT2	ESAM
MRT4	MRT1	0	MRT2	ESAM
TAM	MRT1	0	MRT2	ESAM
Monocyte	MRT1	0	MRT2	ESAM
T_NK	MRT1	0	MRT2	ESAM
Fibroblast	MRT1	0	MRT2	ESAM
Endothelial_Cell	MRT1	0	MRT2	ESAM
Endothelial_Progenitor	MRT1	0	MRT2	ESAM
Adipocyte	MRT1	0	MRT2	ESAM
MRT1	MRT2	0	MRT2	ESAM
MRT2	MRT2	0	MRT2	ESAM
MRT4	MRT2	0	MRT2	ESAM

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	ESAM
Monocyte	MRT2	0	MRT2	ESAM
T_NK	MRT2	0	MRT2	ESAM
Fibroblast	MRT2	0	MRT2	ESAM
Endothelial_Cell	MRT2	0	MRT2	ESAM
Endothelial_Progenitor	MRT2	0	MRT2	ESAM
Adipocyte	MRT2	0	MRT2	ESAM
MRT1	MRT4	0	MRT2	ESAM
MRT2	MRT4	0	MRT2	ESAM
MRT4	MRT4	0	MRT2	ESAM
TAM	MRT4	0	MRT2	ESAM
Monocyte	MRT4	0	MRT2	ESAM
T_NK	MRT4	0	MRT2	ESAM
Fibroblast	MRT4	0	MRT2	ESAM
Endothelial_Cell	MRT4	0	MRT2	ESAM
Endothelial_Progenitor	MRT4	0	MRT2	ESAM
Adipocyte	MRT4	0	MRT2	ESAM
MRT1	TAM	0	MRT2	ESAM
MRT2	TAM	0	MRT2	ESAM
MRT4	TAM	0	MRT2	ESAM
TAM	TAM	0	MRT2	ESAM
Monocyte	TAM	0	MRT2	ESAM
T_NK	TAM	0	MRT2	ESAM
Fibroblast	TAM	0	MRT2	ESAM
Endothelial_Cell	TAM	0	MRT2	ESAM
Endothelial_Progenitor	TAM	0	MRT2	ESAM
Adipocyte	TAM	0	MRT2	ESAM
MRT1	Monocyte	0	MRT2	ESAM
MRT2	Monocyte	0	MRT2	ESAM
MRT4	Monocyte	0	MRT2	ESAM

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	ESAM
Monocyte	Monocyte	0	MRT2	ESAM
T_NK	Monocyte	0	MRT2	ESAM
Fibroblast	Monocyte	0	MRT2	ESAM
Endothelial_Cell	Monocyte	0	MRT2	ESAM
Endothelial_Progenitor	Monocyte	0	MRT2	ESAM
Adipocyte	Monocyte	0	MRT2	ESAM
MRT1	T_NK	0	MRT2	ESAM
MRT2	T_NK	0	MRT2	ESAM
MRT4	T_NK	0	MRT2	ESAM
TAM	T_NK	0	MRT2	ESAM
Monocyte	T_NK	0	MRT2	ESAM
T_NK	T_NK	0	MRT2	ESAM
Fibroblast	T_NK	0	MRT2	ESAM
Endothelial_Cell	T_NK	0	MRT2	ESAM
Endothelial_Progenitor	T_NK	0	MRT2	ESAM
Adipocyte	T_NK	0	MRT2	ESAM
MRT1	Fibroblast	0	MRT2	ESAM
MRT2	Fibroblast	0	MRT2	ESAM
MRT4	Fibroblast	0	MRT2	ESAM
TAM	Fibroblast	0	MRT2	ESAM
Monocyte	Fibroblast	0	MRT2	ESAM
T_NK	Fibroblast	0	MRT2	ESAM
Fibroblast	Fibroblast	0	MRT2	ESAM
Endothelial_Cell	Fibroblast	0	MRT2	ESAM
Endothelial_Progenitor	Fibroblast	0	MRT2	ESAM
Adipocyte	Fibroblast	0	MRT2	ESAM
MRT1	Endothelial_Cell	0	MRT2	ESAM
MRT2	Endothelial_Cell	0	MRT2	ESAM
MRT4	Endothelial_Cell	0	MRT2	ESAM

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	ESAM
Monocyte	Endothelial_Cell	0	MRT2	ESAM
T_NK	Endothelial_Cell	0	MRT2	ESAM
Fibroblast	Endothelial_Cell	0	MRT2	ESAM
Endothelial_Cell	Endothelial_Cell	0	MRT2	ESAM
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	ESAM
Adipocyte	Endothelial_Cell	0	MRT2	ESAM
MRT1	Endothelial_Progenitor	0	MRT2	ESAM
MRT2	Endothelial_Progenitor	0	MRT2	ESAM
MRT4	Endothelial_Progenitor	0	MRT2	ESAM
TAM	Endothelial_Progenitor	0	MRT2	ESAM
Monocyte	Endothelial_Progenitor	0	MRT2	ESAM
T_NK	Endothelial_Progenitor	0	MRT2	ESAM
Fibroblast	Endothelial_Progenitor	0	MRT2	ESAM
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	ESAM
Endothelial_Progenitor	Endothelial_Progenitor	0.01849389083	MRT2	ESAM
Adipocyte	Endothelial_Progenitor	0	MRT2	ESAM
MRT1	Adipocyte	0	MRT2	ESAM
MRT2	Adipocyte	0	MRT2	ESAM
MRT4	Adipocyte	0	MRT2	ESAM
TAM	Adipocyte	0	MRT2	ESAM
Monocyte	Adipocyte	0	MRT2	ESAM
T_NK	Adipocyte	0	MRT2	ESAM
Fibroblast	Adipocyte	0	MRT2	ESAM
Endothelial_Cell	Adipocyte	0	MRT2	ESAM
Endothelial_Progenitor	Adipocyte	0	MRT2	ESAM
Adipocyte	Adipocyte	0	MRT2	ESAM
MRT1	MRT1	0	MRT2	SEMA4
MRT2	MRT1	0	MRT2	SEMA4
MRT4	MRT1	0	MRT2	SEMA4

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	SEMA4
Monocyte	MRT1	0	MRT2	SEMA4
T_NK	MRT1	0	MRT2	SEMA4
Fibroblast	MRT1	0	MRT2	SEMA4
Endothelial_Cell	MRT1	0	MRT2	SEMA4
Endothelial_Progenitor	MRT1	0	MRT2	SEMA4
Adipocyte	MRT1	0	MRT2	SEMA4
MRT1	MRT2	0	MRT2	SEMA4
MRT2	MRT2	0	MRT2	SEMA4
MRT4	MRT2	0	MRT2	SEMA4
TAM	MRT2	0.002318339467	MRT2	SEMA4
Monocyte	MRT2	0.001463961959	MRT2	SEMA4
T_NK	MRT2	0.002923643814	MRT2	SEMA4
Fibroblast	MRT2	0	MRT2	SEMA4
Endothelial_Cell	MRT2	0.001463961959	MRT2	SEMA4
Endothelial_Progenitor	MRT2	0	MRT2	SEMA4
Adipocyte	MRT2	0	MRT2	SEMA4
MRT1	MRT4	0	MRT2	SEMA4
MRT2	MRT4	0	MRT2	SEMA4
MRT4	MRT4	0	MRT2	SEMA4
TAM	MRT4	0	MRT2	SEMA4
Monocyte	MRT4	0	MRT2	SEMA4
T_NK	MRT4	0	MRT2	SEMA4
Fibroblast	MRT4	0	MRT2	SEMA4
Endothelial_Cell	MRT4	0	MRT2	SEMA4
Endothelial_Progenitor	MRT4	0	MRT2	SEMA4
Adipocyte	MRT4	0	MRT2	SEMA4
MRT1	TAM	0	MRT2	SEMA4
MRT2	TAM	0	MRT2	SEMA4
MRT4	TAM	0	MRT2	SEMA4

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	SEMA4
Monocyte	TAM	0	MRT2	SEMA4
T_NK	TAM	0	MRT2	SEMA4
Fibroblast	TAM	0	MRT2	SEMA4
Endothelial_Cell	TAM	0	MRT2	SEMA4
Endothelial_Progenitor	TAM	0	MRT2	SEMA4
Adipocyte	TAM	0	MRT2	SEMA4
MRT1	Monocyte	0	MRT2	SEMA4
MRT2	Monocyte	0	MRT2	SEMA4
MRT4	Monocyte	0	MRT2	SEMA4
TAM	Monocyte	0	MRT2	SEMA4
Monocyte	Monocyte	0	MRT2	SEMA4
T_NK	Monocyte	0	MRT2	SEMA4
Fibroblast	Monocyte	0	MRT2	SEMA4
Endothelial_Cell	Monocyte	0	MRT2	SEMA4
Endothelial_Progenitor	Monocyte	0	MRT2	SEMA4
Adipocyte	Monocyte	0	MRT2	SEMA4
MRT1	T_NK	0	MRT2	SEMA4
MRT2	T_NK	0	MRT2	SEMA4
MRT4	T_NK	0	MRT2	SEMA4
TAM	T_NK	0	MRT2	SEMA4
Monocyte	T_NK	0	MRT2	SEMA4
T_NK	T_NK	0	MRT2	SEMA4
Fibroblast	T_NK	0	MRT2	SEMA4
Endothelial_Cell	T_NK	0	MRT2	SEMA4
Endothelial_Progenitor	T_NK	0	MRT2	SEMA4
Adipocyte	T_NK	0	MRT2	SEMA4
MRT1	Fibroblast	0	MRT2	SEMA4
MRT2	Fibroblast	0	MRT2	SEMA4
MRT4	Fibroblast	0	MRT2	SEMA4

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	SEMA4
Monocyte	Fibroblast	0	MRT2	SEMA4
T_NK	Fibroblast	0	MRT2	SEMA4
Fibroblast	Fibroblast	0	MRT2	SEMA4
Endothelial_Cell	Fibroblast	0	MRT2	SEMA4
Endothelial_Progenitor	Fibroblast	0	MRT2	SEMA4
Adipocyte	Fibroblast	0	MRT2	SEMA4
MRT1	Endothelial_Cell	0	MRT2	SEMA4
MRT2	Endothelial_Cell	0	MRT2	SEMA4
MRT4	Endothelial_Cell	0	MRT2	SEMA4
TAM	Endothelial_Cell	0	MRT2	SEMA4
Monocyte	Endothelial_Cell	0	MRT2	SEMA4
T_NK	Endothelial_Cell	0	MRT2	SEMA4
Fibroblast	Endothelial_Cell	0	MRT2	SEMA4
Endothelial_Cell	Endothelial_Cell	0	MRT2	SEMA4
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	SEMA4
Adipocyte	Endothelial_Cell	0	MRT2	SEMA4
MRT1	Endothelial_Progenitor	0	MRT2	SEMA4
MRT2	Endothelial_Progenitor	0	MRT2	SEMA4
MRT4	Endothelial_Progenitor	0	MRT2	SEMA4
TAM	Endothelial_Progenitor	0.002318339467	MRT2	SEMA4
Monocyte	Endothelial_Progenitor	0.001463961959	MRT2	SEMA4
T_NK	Endothelial_Progenitor	0.002923643814	MRT2	SEMA4
Fibroblast	Endothelial_Progenitor	0	MRT2	SEMA4
Endothelial_Cell	Endothelial_Progenitor	0.001463961959	MRT2	SEMA4
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	SEMA4
Adipocyte	Endothelial_Progenitor	0	MRT2	SEMA4
MRT1	Adipocyte	0	MRT2	SEMA4
MRT2	Adipocyte	0	MRT2	SEMA4
MRT4	Adipocyte	0	MRT2	SEMA4

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	SEMA4
Monocyte	Adipocyte	0	MRT2	SEMA4
T_NK	Adipocyte	0	MRT2	SEMA4
Fibroblast	Adipocyte	0	MRT2	SEMA4
Endothelial_Cell	Adipocyte	0	MRT2	SEMA4
Endothelial_Progenitor	Adipocyte	0	MRT2	SEMA4
Adipocyte	Adipocyte	0	MRT2	SEMA4
MRT1	MRT1	0	MRT2	MPZ
MRT2	MRT1	0	MRT2	MPZ
MRT4	MRT1	0	MRT2	MPZ
TAM	MRT1	0	MRT2	MPZ
Monocyte	MRT1	0	MRT2	MPZ
T_NK	MRT1	0	MRT2	MPZ
Fibroblast	MRT1	0	MRT2	MPZ
Endothelial_Cell	MRT1	0	MRT2	MPZ
Endothelial_Progenitor	MRT1	0	MRT2	MPZ
Adipocyte	MRT1	0	MRT2	MPZ
MRT1	MRT2	0	MRT2	MPZ
MRT2	MRT2	0	MRT2	MPZ
MRT4	MRT2	0	MRT2	MPZ
TAM	MRT2	0	MRT2	MPZ
Monocyte	MRT2	0	MRT2	MPZ
T_NK	MRT2	0	MRT2	MPZ
Fibroblast	MRT2	0.002318339467	MRT2	MPZ
Endothelial_Cell	MRT2	0	MRT2	MPZ
Endothelial_Progenitor	MRT2	0	MRT2	MPZ
Adipocyte	MRT2	0	MRT2	MPZ
MRT1	MRT4	0	MRT2	MPZ
MRT2	MRT4	0	MRT2	MPZ
MRT4	MRT4	0	MRT2	MPZ

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	MPZ
Monocyte	MRT4	0	MRT2	MPZ
T_NK	MRT4	0	MRT2	MPZ
Fibroblast	MRT4	0	MRT2	MPZ
Endothelial_Cell	MRT4	0	MRT2	MPZ
Endothelial_Progenitor	MRT4	0	MRT2	MPZ
Adipocyte	MRT4	0	MRT2	MPZ
MRT1	TAM	0	MRT2	MPZ
MRT2	TAM	0	MRT2	MPZ
MRT4	TAM	0	MRT2	MPZ
TAM	TAM	0	MRT2	MPZ
Monocyte	TAM	0	MRT2	MPZ
T_NK	TAM	0	MRT2	MPZ
Fibroblast	TAM	0	MRT2	MPZ
Endothelial_Cell	TAM	0	MRT2	MPZ
Endothelial_Progenitor	TAM	0	MRT2	MPZ
Adipocyte	TAM	0	MRT2	MPZ
MRT1	Monocyte	0	MRT2	MPZ
MRT2	Monocyte	0	MRT2	MPZ
MRT4	Monocyte	0	MRT2	MPZ
TAM	Monocyte	0	MRT2	MPZ
Monocyte	Monocyte	0	MRT2	MPZ
T_NK	Monocyte	0	MRT2	MPZ
Fibroblast	Monocyte	0	MRT2	MPZ
Endothelial_Cell	Monocyte	0	MRT2	MPZ
Endothelial_Progenitor	Monocyte	0	MRT2	MPZ
Adipocyte	Monocyte	0	MRT2	MPZ
MRT1	T_NK	0	MRT2	MPZ
MRT2	T_NK	0	MRT2	MPZ
MRT4	T_NK	0	MRT2	MPZ

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	MPZ
Monocyte	T_NK	0	MRT2	MPZ
T_NK	T_NK	0	MRT2	MPZ
Fibroblast	T_NK	0	MRT2	MPZ
Endothelial_Cell	T_NK	0	MRT2	MPZ
Endothelial_Progenitor	T_NK	0	MRT2	MPZ
Adipocyte	T_NK	0	MRT2	MPZ
MRT1	Fibroblast	0	MRT2	MPZ
MRT2	Fibroblast	0.002318339467	MRT2	MPZ
MRT4	Fibroblast	0	MRT2	MPZ
TAM	Fibroblast	0	MRT2	MPZ
Monocyte	Fibroblast	0	MRT2	MPZ
T_NK	Fibroblast	0	MRT2	MPZ
Fibroblast	Fibroblast	0.003669504751	MRT2	MPZ
Endothelial_Cell	Fibroblast	0	MRT2	MPZ
Endothelial_Progenitor	Fibroblast	0.003669504751	MRT2	MPZ
Adipocyte	Fibroblast	0	MRT2	MPZ
MRT1	Endothelial_Cell	0	MRT2	MPZ
MRT2	Endothelial_Cell	0	MRT2	MPZ
MRT4	Endothelial_Cell	0	MRT2	MPZ
TAM	Endothelial_Cell	0	MRT2	MPZ
Monocyte	Endothelial_Cell	0	MRT2	MPZ
T_NK	Endothelial_Cell	0	MRT2	MPZ
Fibroblast	Endothelial_Cell	0	MRT2	MPZ
Endothelial_Cell	Endothelial_Cell	0	MRT2	MPZ
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	MPZ
Adipocyte	Endothelial_Cell	0	MRT2	MPZ
MRT1	Endothelial_Progenitor	0	MRT2	MPZ
MRT2	Endothelial_Progenitor	0	MRT2	MPZ
MRT4	Endothelial_Progenitor	0	MRT2	MPZ

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	MPZ
Monocyte	Endothelial_Progenitor	0	MRT2	MPZ
T_NK	Endothelial_Progenitor	0	MRT2	MPZ
Fibroblast	Endothelial_Progenitor	0.003669504751	MRT2	MPZ
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	MPZ
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	MPZ
Adipocyte	Endothelial_Progenitor	0	MRT2	MPZ
MRT1	Adipocyte	0	MRT2	MPZ
MRT2	Adipocyte	0	MRT2	MPZ
MRT4	Adipocyte	0	MRT2	MPZ
TAM	Adipocyte	0	MRT2	MPZ
Monocyte	Adipocyte	0	MRT2	MPZ
T_NK	Adipocyte	0	MRT2	MPZ
Fibroblast	Adipocyte	0	MRT2	MPZ
Endothelial_Cell	Adipocyte	0	MRT2	MPZ
Endothelial_Progenitor	Adipocyte	0	MRT2	MPZ
Adipocyte	Adipocyte	0	MRT2	MPZ
MRT1	MRT1	0	MRT2	CD86
MRT2	MRT1	0	MRT2	CD86
MRT4	MRT1	0	MRT2	CD86
TAM	MRT1	0	MRT2	CD86
Monocyte	MRT1	0	MRT2	CD86
T_NK	MRT1	0	MRT2	CD86
Fibroblast	MRT1	0	MRT2	CD86
Endothelial_Cell	MRT1	0	MRT2	CD86
Endothelial_Progenitor	MRT1	0	MRT2	CD86
Adipocyte	MRT1	0	MRT2	CD86
MRT1	MRT2	0	MRT2	CD86
MRT2	MRT2	0	MRT2	CD86
MRT4	MRT2	0	MRT2	CD86

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	CD86
Monocyte	MRT2	0	MRT2	CD86
T_NK	MRT2	0	MRT2	CD86
Fibroblast	MRT2	0	MRT2	CD86
Endothelial_Cell	MRT2	0	MRT2	CD86
Endothelial_Progenitor	MRT2	0	MRT2	CD86
Adipocyte	MRT2	0	MRT2	CD86
MRT1	MRT4	0	MRT2	CD86
MRT2	MRT4	0	MRT2	CD86
MRT4	MRT4	0	MRT2	CD86
TAM	MRT4	0	MRT2	CD86
Monocyte	MRT4	0	MRT2	CD86
T_NK	MRT4	0	MRT2	CD86
Fibroblast	MRT4	0	MRT2	CD86
Endothelial_Cell	MRT4	0	MRT2	CD86
Endothelial_Progenitor	MRT4	0	MRT2	CD86
Adipocyte	MRT4	0	MRT2	CD86
MRT1	TAM	0	MRT2	CD86
MRT2	TAM	0	MRT2	CD86
MRT4	TAM	0	MRT2	CD86
TAM	TAM	0.005830242077	MRT2	CD86
Monocyte	TAM	0.00798734005	MRT2	CD86
T_NK	TAM	0	MRT2	CD86
Fibroblast	TAM	0	MRT2	CD86
Endothelial_Cell	TAM	0	MRT2	CD86
Endothelial_Progenitor	TAM	0	MRT2	CD86
Adipocyte	TAM	0	MRT2	CD86
MRT1	Monocyte	0	MRT2	CD86
MRT2	Monocyte	0	MRT2	CD86
MRT4	Monocyte	0	MRT2	CD86

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	CD86
Monocyte	Monocyte	0	MRT2	CD86
T_NK	Monocyte	0	MRT2	CD86
Fibroblast	Monocyte	0	MRT2	CD86
Endothelial_Cell	Monocyte	0	MRT2	CD86
Endothelial_Progenitor	Monocyte	0	MRT2	CD86
Adipocyte	Monocyte	0	MRT2	CD86
MRT1	T_NK	0	MRT2	CD86
MRT2	T_NK	0	MRT2	CD86
MRT4	T_NK	0	MRT2	CD86
TAM	T_NK	0	MRT2	CD86
Monocyte	T_NK	0	MRT2	CD86
T_NK	T_NK	0	MRT2	CD86
Fibroblast	T_NK	0	MRT2	CD86
Endothelial_Cell	T_NK	0	MRT2	CD86
Endothelial_Progenitor	T_NK	0	MRT2	CD86
Adipocyte	T_NK	0	MRT2	CD86
MRT1	Fibroblast	0	MRT2	CD86
MRT2	Fibroblast	0	MRT2	CD86
MRT4	Fibroblast	0	MRT2	CD86
TAM	Fibroblast	0	MRT2	CD86
Monocyte	Fibroblast	0	MRT2	CD86
T_NK	Fibroblast	0	MRT2	CD86
Fibroblast	Fibroblast	0	MRT2	CD86
Endothelial_Cell	Fibroblast	0	MRT2	CD86
Endothelial_Progenitor	Fibroblast	0	MRT2	CD86
Adipocyte	Fibroblast	0	MRT2	CD86
MRT1	Endothelial_Cell	0	MRT2	CD86
MRT2	Endothelial_Cell	0	MRT2	CD86
MRT4	Endothelial_Cell	0	MRT2	CD86

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	CD86
Monocyte	Endothelial_Cell	0	MRT2	CD86
T_NK	Endothelial_Cell	0	MRT2	CD86
Fibroblast	Endothelial_Cell	0	MRT2	CD86
Endothelial_Cell	Endothelial_Cell	0	MRT2	CD86
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	CD86
Adipocyte	Endothelial_Cell	0	MRT2	CD86
MRT1	Endothelial_Progenitor	0	MRT2	CD86
MRT2	Endothelial_Progenitor	0	MRT2	CD86
MRT4	Endothelial_Progenitor	0	MRT2	CD86
TAM	Endothelial_Progenitor	0	MRT2	CD86
Monocyte	Endothelial_Progenitor	0	MRT2	CD86
T_NK	Endothelial_Progenitor	0	MRT2	CD86
Fibroblast	Endothelial_Progenitor	0	MRT2	CD86
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	CD86
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	CD86
Adipocyte	Endothelial_Progenitor	0	MRT2	CD86
MRT1	Adipocyte	0	MRT2	CD86
MRT2	Adipocyte	0	MRT2	CD86
MRT4	Adipocyte	0	MRT2	CD86
TAM	Adipocyte	0	MRT2	CD86
Monocyte	Adipocyte	0	MRT2	CD86
T_NK	Adipocyte	0	MRT2	CD86
Fibroblast	Adipocyte	0	MRT2	CD86
Endothelial_Cell	Adipocyte	0	MRT2	CD86
Endothelial_Progenitor	Adipocyte	0	MRT2	CD86
Adipocyte	Adipocyte	0	MRT2	CD86
MRT1	MRT1	0	MRT2	ITGB2
MRT2	MRT1	0	MRT2	ITGB2
MRT4	MRT1	0	MRT2	ITGB2

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	ITGB2
Monocyte	MRT1	0	MRT2	ITGB2
T_NK	MRT1	0	MRT2	ITGB2
Fibroblast	MRT1	0	MRT2	ITGB2
Endothelial_Cell	MRT1	0	MRT2	ITGB2
Endothelial_Progenitor	MRT1	0	MRT2	ITGB2
Adipocyte	MRT1	0	MRT2	ITGB2
MRT1	MRT2	0	MRT2	ITGB2
MRT2	MRT2	0	MRT2	ITGB2
MRT4	MRT2	0	MRT2	ITGB2
TAM	MRT2	0	MRT2	ITGB2
Monocyte	MRT2	0	MRT2	ITGB2
T_NK	MRT2	0	MRT2	ITGB2
Fibroblast	MRT2	0	MRT2	ITGB2
Endothelial_Cell	MRT2	0	MRT2	ITGB2
Endothelial_Progenitor	MRT2	0	MRT2	ITGB2
Adipocyte	MRT2	0	MRT2	ITGB2
MRT1	MRT4	0	MRT2	ITGB2
MRT2	MRT4	0	MRT2	ITGB2
MRT4	MRT4	0	MRT2	ITGB2
TAM	MRT4	0	MRT2	ITGB2
Monocyte	MRT4	0	MRT2	ITGB2
T_NK	MRT4	0	MRT2	ITGB2
Fibroblast	MRT4	0	MRT2	ITGB2
Endothelial_Cell	MRT4	0	MRT2	ITGB2
Endothelial_Progenitor	MRT4	0	MRT2	ITGB2
Adipocyte	MRT4	0	MRT2	ITGB2
MRT1	TAM	0	MRT2	ITGB2
MRT2	TAM	0	MRT2	ITGB2
MRT4	TAM	0	MRT2	ITGB2

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	ITGB2
Monocyte	TAM	0	MRT2	ITGB2
T_NK	TAM	0	MRT2	ITGB2
Fibroblast	TAM	0	MRT2	ITGB2
Endothelial_Cell	TAM	0	MRT2	ITGB2
Endothelial_Progenitor	TAM	0	MRT2	ITGB2
Adipocyte	TAM	0	MRT2	ITGB2
MRT1	Monocyte	0	MRT2	ITGB2
MRT2	Monocyte	0	MRT2	ITGB2
MRT4	Monocyte	0	MRT2	ITGB2
TAM	Monocyte	0	MRT2	ITGB2
Monocyte	Monocyte	0	MRT2	ITGB2
T_NK	Monocyte	0	MRT2	ITGB2
Fibroblast	Monocyte	0	MRT2	ITGB2
Endothelial_Cell	Monocyte	0	MRT2	ITGB2
Endothelial_Progenitor	Monocyte	0	MRT2	ITGB2
Adipocyte	Monocyte	0	MRT2	ITGB2
MRT1	T_NK	0	MRT2	ITGB2
MRT2	T_NK	0	MRT2	ITGB2
MRT4	T_NK	0	MRT2	ITGB2
TAM	T_NK	0	MRT2	ITGB2
Monocyte	T_NK	0	MRT2	ITGB2
T_NK	T_NK	0	MRT2	ITGB2
Fibroblast	T_NK	0	MRT2	ITGB2
Endothelial_Cell	T_NK	0	MRT2	ITGB2
Endothelial_Progenitor	T_NK	0	MRT2	ITGB2
Adipocyte	T_NK	0	MRT2	ITGB2
MRT1	Fibroblast	0	MRT2	ITGB2
MRT2	Fibroblast	0	MRT2	ITGB2
MRT4	Fibroblast	0	MRT2	ITGB2

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	ITGB2
Monocyte	Fibroblast	0	MRT2	ITGB2
T_NK	Fibroblast	0	MRT2	ITGB2
Fibroblast	Fibroblast	0	MRT2	ITGB2
Endothelial_Cell	Fibroblast	0	MRT2	ITGB2
Endothelial_Progenitor	Fibroblast	0	MRT2	ITGB2
Adipocyte	Fibroblast	0	MRT2	ITGB2
MRT1	Endothelial_Cell	0	MRT2	ITGB2
MRT2	Endothelial_Cell	0	MRT2	ITGB2
MRT4	Endothelial_Cell	0	MRT2	ITGB2
TAM	Endothelial_Cell	0.000366392778	MRT2	ITGB2
Monocyte	Endothelial_Cell	0.001739762941	MRT2	ITGB2
T_NK	Endothelial_Cell	0	MRT2	ITGB2
Fibroblast	Endothelial_Cell	0	MRT2	ITGB2
Endothelial_Cell	Endothelial_Cell	0	MRT2	ITGB2
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	ITGB2
Adipocyte	Endothelial_Cell	0	MRT2	ITGB2
MRT1	Endothelial_Progenitor	0	MRT2	ITGB2
MRT2	Endothelial_Progenitor	0	MRT2	ITGB2
MRT4	Endothelial_Progenitor	0	MRT2	ITGB2
TAM	Endothelial_Progenitor	0.001463961959	MRT2	ITGB2
Monocyte	Endothelial_Progenitor	0.006922919049	MRT2	ITGB2
T_NK	Endothelial_Progenitor	0	MRT2	ITGB2
Fibroblast	Endothelial_Progenitor	0	MRT2	ITGB2
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	ITGB2
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	ITGB2
Adipocyte	Endothelial_Progenitor	0	MRT2	ITGB2
MRT1	Adipocyte	0	MRT2	ITGB2
MRT2	Adipocyte	0	MRT2	ITGB2
MRT4	Adipocyte	0	MRT2	ITGB2

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	ITGB2
Monocyte	Adipocyte	0	MRT2	ITGB2
T_NK	Adipocyte	0	MRT2	ITGB2
Fibroblast	Adipocyte	0	MRT2	ITGB2
Endothelial_Cell	Adipocyte	0	MRT2	ITGB2
Endothelial_Progenitor	Adipocyte	0	MRT2	ITGB2
Adipocyte	Adipocyte	0	MRT2	ITGB2
MRT1	MRT1	0	MRT2	NECTIN
MRT2	MRT1	0	MRT2	NECTIN
MRT4	MRT1	0	MRT2	NECTIN
TAM	MRT1	0	MRT2	NECTIN
Monocyte	MRT1	0	MRT2	NECTIN
T_NK	MRT1	0	MRT2	NECTIN
Fibroblast	MRT1	0	MRT2	NECTIN
Endothelial_Cell	MRT1	0	MRT2	NECTIN
Endothelial_Progenitor	MRT1	0	MRT2	NECTIN
Adipocyte	MRT1	0	MRT2	NECTIN
MRT1	MRT2	0	MRT2	NECTIN
MRT2	MRT2	0	MRT2	NECTIN
MRT4	MRT2	0	MRT2	NECTIN
TAM	MRT2	0	MRT2	NECTIN
Monocyte	MRT2	0	MRT2	NECTIN
T_NK	MRT2	0	MRT2	NECTIN
Fibroblast	MRT2	0	MRT2	NECTIN
Endothelial_Cell	MRT2	0.001463961959	MRT2	NECTIN
Endothelial_Progenitor	MRT2	0	MRT2	NECTIN
Adipocyte	MRT2	0	MRT2	NECTIN
MRT1	MRT4	0	MRT2	NECTIN
MRT2	MRT4	0	MRT2	NECTIN
MRT4	MRT4	0	MRT2	NECTIN

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	NECTIN
Monocyte	MRT4	0	MRT2	NECTIN
T_NK	MRT4	0	MRT2	NECTIN
Fibroblast	MRT4	0	MRT2	NECTIN
Endothelial_Cell	MRT4	0	MRT2	NECTIN
Endothelial_Progenitor	MRT4	0	MRT2	NECTIN
Adipocyte	MRT4	0	MRT2	NECTIN
MRT1	TAM	0	MRT2	NECTIN
MRT2	TAM	0	MRT2	NECTIN
MRT4	TAM	0	MRT2	NECTIN
TAM	TAM	0	MRT2	NECTIN
Monocyte	TAM	0	MRT2	NECTIN
T_NK	TAM	0	MRT2	NECTIN
Fibroblast	TAM	0	MRT2	NECTIN
Endothelial_Cell	TAM	0	MRT2	NECTIN
Endothelial_Progenitor	TAM	0	MRT2	NECTIN
Adipocyte	TAM	0	MRT2	NECTIN
MRT1	Monocyte	0	MRT2	NECTIN
MRT2	Monocyte	0	MRT2	NECTIN
MRT4	Monocyte	0	MRT2	NECTIN
TAM	Monocyte	0	MRT2	NECTIN
Monocyte	Monocyte	0	MRT2	NECTIN
T_NK	Monocyte	0	MRT2	NECTIN
Fibroblast	Monocyte	0	MRT2	NECTIN
Endothelial_Cell	Monocyte	0	MRT2	NECTIN
Endothelial_Progenitor	Monocyte	0	MRT2	NECTIN
Adipocyte	Monocyte	0	MRT2	NECTIN
MRT1	T_NK	0	MRT2	NECTIN
MRT2	T_NK	0	MRT2	NECTIN
MRT4	T_NK	0	MRT2	NECTIN

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	NECTIN
Monocyte	T_NK	0	MRT2	NECTIN
T_NK	T_NK	0	MRT2	NECTIN
Fibroblast	T_NK	0	MRT2	NECTIN
Endothelial_Cell	T_NK	0	MRT2	NECTIN
Endothelial_Progenitor	T_NK	0	MRT2	NECTIN
Adipocyte	T_NK	0	MRT2	NECTIN
MRT1	Fibroblast	0	MRT2	NECTIN
MRT2	Fibroblast	0	MRT2	NECTIN
MRT4	Fibroblast	0	MRT2	NECTIN
TAM	Fibroblast	0	MRT2	NECTIN
Monocyte	Fibroblast	0	MRT2	NECTIN
T_NK	Fibroblast	0	MRT2	NECTIN
Fibroblast	Fibroblast	0	MRT2	NECTIN
Endothelial_Cell	Fibroblast	0	MRT2	NECTIN
Endothelial_Progenitor	Fibroblast	0	MRT2	NECTIN
Adipocyte	Fibroblast	0	MRT2	NECTIN
MRT1	Endothelial_Cell	0	MRT2	NECTIN
MRT2	Endothelial_Cell	0	MRT2	NECTIN
MRT4	Endothelial_Cell	0	MRT2	NECTIN
TAM	Endothelial_Cell	0	MRT2	NECTIN
Monocyte	Endothelial_Cell	0	MRT2	NECTIN
T_NK	Endothelial_Cell	0	MRT2	NECTIN
Fibroblast	Endothelial_Cell	0	MRT2	NECTIN
Endothelial_Cell	Endothelial_Cell	0.001830354737	MRT2	NECTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	NECTIN
Adipocyte	Endothelial_Cell	0	MRT2	NECTIN
MRT1	Endothelial_Progenitor	0	MRT2	NECTIN
MRT2	Endothelial_Progenitor	0	MRT2	NECTIN
MRT4	Endothelial_Progenitor	0	MRT2	NECTIN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	NECTIN
Monocyte	Endothelial_Progenitor	0	MRT2	NECTIN
T_NK	Endothelial_Progenitor	0	MRT2	NECTIN
Fibroblast	Endothelial_Progenitor	0	MRT2	NECTIN
Endothelial_Cell	Endothelial_Progenitor	0.005228462722	MRT2	NECTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	NECTIN
Adipocyte	Endothelial_Progenitor	0	MRT2	NECTIN
MRT1	Adipocyte	0	MRT2	NECTIN
MRT2	Adipocyte	0	MRT2	NECTIN
MRT4	Adipocyte	0	MRT2	NECTIN
TAM	Adipocyte	0	MRT2	NECTIN
Monocyte	Adipocyte	0	MRT2	NECTIN
T_NK	Adipocyte	0	MRT2	NECTIN
Fibroblast	Adipocyte	0	MRT2	NECTIN
Endothelial_Cell	Adipocyte	0	MRT2	NECTIN
Endothelial_Progenitor	Adipocyte	0	MRT2	NECTIN
Adipocyte	Adipocyte	0	MRT2	NECTIN
MRT1	MRT1	0	MRT2	ICAM
MRT2	MRT1	0	MRT2	ICAM
MRT4	MRT1	0	MRT2	ICAM
TAM	MRT1	0	MRT2	ICAM
Monocyte	MRT1	0	MRT2	ICAM
T_NK	MRT1	0	MRT2	ICAM
Fibroblast	MRT1	0	MRT2	ICAM
Endothelial_Cell	MRT1	0	MRT2	ICAM
Endothelial_Progenitor	MRT1	0	MRT2	ICAM
Adipocyte	MRT1	0	MRT2	ICAM
MRT1	MRT2	0	MRT2	ICAM
MRT2	MRT2	0	MRT2	ICAM
MRT4	MRT2	0	MRT2	ICAM

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	ICAM
Monocyte	MRT2	0	MRT2	ICAM
T_NK	MRT2	0	MRT2	ICAM
Fibroblast	MRT2	0	MRT2	ICAM
Endothelial_Cell	MRT2	0	MRT2	ICAM
Endothelial_Progenitor	MRT2	0	MRT2	ICAM
Adipocyte	MRT2	0	MRT2	ICAM
MRT1	MRT4	0	MRT2	ICAM
MRT2	MRT4	0	MRT2	ICAM
MRT4	MRT4	0	MRT2	ICAM
TAM	MRT4	0	MRT2	ICAM
Monocyte	MRT4	0	MRT2	ICAM
T_NK	MRT4	0	MRT2	ICAM
Fibroblast	MRT4	0	MRT2	ICAM
Endothelial_Cell	MRT4	0	MRT2	ICAM
Endothelial_Progenitor	MRT4	0	MRT2	ICAM
Adipocyte	MRT4	0	MRT2	ICAM
MRT1	TAM	0	MRT2	ICAM
MRT2	TAM	0	MRT2	ICAM
MRT4	TAM	0	MRT2	ICAM
TAM	TAM	0	MRT2	ICAM
Monocyte	TAM	0	MRT2	ICAM
T_NK	TAM	0	MRT2	ICAM
Fibroblast	TAM	0	MRT2	ICAM
Endothelial_Cell	TAM	0	MRT2	ICAM
Endothelial_Progenitor	TAM	0	MRT2	ICAM
Adipocyte	TAM	0	MRT2	ICAM
MRT1	Monocyte	0	MRT2	ICAM
MRT2	Monocyte	0	MRT2	ICAM
MRT4	Monocyte	0	MRT2	ICAM

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	ICAM
Monocyte	Monocyte	0	MRT2	ICAM
T_NK	Monocyte	0	MRT2	ICAM
Fibroblast	Monocyte	0	MRT2	ICAM
Endothelial_Cell	Monocyte	0.001510990651	MRT2	ICAM
Endothelial_Progenitor	Monocyte	0.006016689123	MRT2	ICAM
Adipocyte	Monocyte	0	MRT2	ICAM
MRT1	T_NK	0	MRT2	ICAM
MRT2	T_NK	0	MRT2	ICAM
MRT4	T_NK	0	MRT2	ICAM
TAM	T_NK	0	MRT2	ICAM
Monocyte	T_NK	0	MRT2	ICAM
T_NK	T_NK	0	MRT2	ICAM
Fibroblast	T_NK	0	MRT2	ICAM
Endothelial_Cell	T_NK	0	MRT2	ICAM
Endothelial_Progenitor	T_NK	0	MRT2	ICAM
Adipocyte	T_NK	0	MRT2	ICAM
MRT1	Fibroblast	0	MRT2	ICAM
MRT2	Fibroblast	0	MRT2	ICAM
MRT4	Fibroblast	0	MRT2	ICAM
TAM	Fibroblast	0	MRT2	ICAM
Monocyte	Fibroblast	0	MRT2	ICAM
T_NK	Fibroblast	0	MRT2	ICAM
Fibroblast	Fibroblast	0	MRT2	ICAM
Endothelial_Cell	Fibroblast	0	MRT2	ICAM
Endothelial_Progenitor	Fibroblast	0	MRT2	ICAM
Adipocyte	Fibroblast	0	MRT2	ICAM
MRT1	Endothelial_Cell	0	MRT2	ICAM
MRT2	Endothelial_Cell	0	MRT2	ICAM
MRT4	Endothelial_Cell	0	MRT2	ICAM

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	ICAM
Monocyte	Endothelial_Cell	0	MRT2	ICAM
T_NK	Endothelial_Cell	0	MRT2	ICAM
Fibroblast	Endothelial_Cell	0	MRT2	ICAM
Endothelial_Cell	Endothelial_Cell	0	MRT2	ICAM
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	ICAM
Adipocyte	Endothelial_Cell	0	MRT2	ICAM
MRT1	Endothelial_Progenitor	0	MRT2	ICAM
MRT2	Endothelial_Progenitor	0	MRT2	ICAM
MRT4	Endothelial_Progenitor	0	MRT2	ICAM
TAM	Endothelial_Progenitor	0	MRT2	ICAM
Monocyte	Endothelial_Progenitor	0	MRT2	ICAM
T_NK	Endothelial_Progenitor	0	MRT2	ICAM
Fibroblast	Endothelial_Progenitor	0	MRT2	ICAM
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	ICAM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	ICAM
Adipocyte	Endothelial_Progenitor	0	MRT2	ICAM
MRT1	Adipocyte	0	MRT2	ICAM
MRT2	Adipocyte	0	MRT2	ICAM
MRT4	Adipocyte	0	MRT2	ICAM
TAM	Adipocyte	0	MRT2	ICAM
Monocyte	Adipocyte	0	MRT2	ICAM
T_NK	Adipocyte	0	MRT2	ICAM
Fibroblast	Adipocyte	0	MRT2	ICAM
Endothelial_Cell	Adipocyte	0	MRT2	ICAM
Endothelial_Progenitor	Adipocyte	0	MRT2	ICAM
Adipocyte	Adipocyte	0	MRT2	ICAM
MRT1	MRT1	0	MRT2	GRN
MRT2	MRT1	0	MRT2	GRN
MRT4	MRT1	0	MRT2	GRN

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	GRN
Monocyte	MRT1	0	MRT2	GRN
T_NK	MRT1	0	MRT2	GRN
Fibroblast	MRT1	0	MRT2	GRN
Endothelial_Cell	MRT1	0	MRT2	GRN
Endothelial_Progenitor	MRT1	0	MRT2	GRN
Adipocyte	MRT1	0	MRT2	GRN
MRT1	MRT2	0	MRT2	GRN
MRT2	MRT2	0	MRT2	GRN
MRT4	MRT2	0	MRT2	GRN
TAM	MRT2	0	MRT2	GRN
Monocyte	MRT2	0	MRT2	GRN
T_NK	MRT2	0	MRT2	GRN
Fibroblast	MRT2	0	MRT2	GRN
Endothelial_Cell	MRT2	0	MRT2	GRN
Endothelial_Progenitor	MRT2	0	MRT2	GRN
Adipocyte	MRT2	0	MRT2	GRN
MRT1	MRT4	0	MRT2	GRN
MRT2	MRT4	0	MRT2	GRN
MRT4	MRT4	0	MRT2	GRN
TAM	MRT4	0	MRT2	GRN
Monocyte	MRT4	0	MRT2	GRN
T_NK	MRT4	0	MRT2	GRN
Fibroblast	MRT4	0	MRT2	GRN
Endothelial_Cell	MRT4	0	MRT2	GRN
Endothelial_Progenitor	MRT4	0	MRT2	GRN
Adipocyte	MRT4	0	MRT2	GRN
MRT1	TAM	0	MRT2	GRN
MRT2	TAM	0	MRT2	GRN
MRT4	TAM	0	MRT2	GRN

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	GRN
Monocyte	TAM	0.007522650672	MRT2	GRN
T_NK	TAM	0	MRT2	GRN
Fibroblast	TAM	0	MRT2	GRN
Endothelial_Cell	TAM	0	MRT2	GRN
Endothelial_Progenitor	TAM	0	MRT2	GRN
Adipocyte	TAM	0	MRT2	GRN
MRT1	Monocyte	0	MRT2	GRN
MRT2	Monocyte	0	MRT2	GRN
MRT4	Monocyte	0	MRT2	GRN
TAM	Monocyte	0	MRT2	GRN
Monocyte	Monocyte	0	MRT2	GRN
T_NK	Monocyte	0	MRT2	GRN
Fibroblast	Monocyte	0	MRT2	GRN
Endothelial_Cell	Monocyte	0	MRT2	GRN
Endothelial_Progenitor	Monocyte	0	MRT2	GRN
Adipocyte	Monocyte	0	MRT2	GRN
MRT1	T_NK	0	MRT2	GRN
MRT2	T_NK	0	MRT2	GRN
MRT4	T_NK	0	MRT2	GRN
TAM	T_NK	0	MRT2	GRN
Monocyte	T_NK	0	MRT2	GRN
T_NK	T_NK	0	MRT2	GRN
Fibroblast	T_NK	0	MRT2	GRN
Endothelial_Cell	T_NK	0	MRT2	GRN
Endothelial_Progenitor	T_NK	0	MRT2	GRN
Adipocyte	T_NK	0	MRT2	GRN
MRT1	Fibroblast	0	MRT2	GRN
MRT2	Fibroblast	0	MRT2	GRN
MRT4	Fibroblast	0	MRT2	GRN

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	GRN
Monocyte	Fibroblast	0	MRT2	GRN
T_NK	Fibroblast	0	MRT2	GRN
Fibroblast	Fibroblast	0	MRT2	GRN
Endothelial_Cell	Fibroblast	0	MRT2	GRN
Endothelial_Progenitor	Fibroblast	0	MRT2	GRN
Adipocyte	Fibroblast	0	MRT2	GRN
MRT1	Endothelial_Cell	0	MRT2	GRN
MRT2	Endothelial_Cell	0	MRT2	GRN
MRT4	Endothelial_Cell	0	MRT2	GRN
TAM	Endothelial_Cell	0	MRT2	GRN
Monocyte	Endothelial_Cell	0	MRT2	GRN
T_NK	Endothelial_Cell	0	MRT2	GRN
Fibroblast	Endothelial_Cell	0	MRT2	GRN
Endothelial_Cell	Endothelial_Cell	0	MRT2	GRN
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	GRN
Adipocyte	Endothelial_Cell	0	MRT2	GRN
MRT1	Endothelial_Progenitor	0	MRT2	GRN
MRT2	Endothelial_Progenitor	0	MRT2	GRN
MRT4	Endothelial_Progenitor	0	MRT2	GRN
TAM	Endothelial_Progenitor	0	MRT2	GRN
Monocyte	Endothelial_Progenitor	0	MRT2	GRN
T_NK	Endothelial_Progenitor	0	MRT2	GRN
Fibroblast	Endothelial_Progenitor	0	MRT2	GRN
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	GRN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	GRN
Adipocyte	Endothelial_Progenitor	0	MRT2	GRN
MRT1	Adipocyte	0	MRT2	GRN
MRT2	Adipocyte	0	MRT2	GRN
MRT4	Adipocyte	0	MRT2	GRN

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	GRN
Monocyte	Adipocyte	0	MRT2	GRN
T_NK	Adipocyte	0	MRT2	GRN
Fibroblast	Adipocyte	0	MRT2	GRN
Endothelial_Cell	Adipocyte	0	MRT2	GRN
Endothelial_Progenitor	Adipocyte	0	MRT2	GRN
Adipocyte	Adipocyte	0	MRT2	GRN
MRT1	MRT1	0	MRT2	WNT
MRT2	MRT1	0	MRT2	WNT
MRT4	MRT1	0	MRT2	WNT
TAM	MRT1	0	MRT2	WNT
Monocyte	MRT1	0	MRT2	WNT
T_NK	MRT1	0	MRT2	WNT
Fibroblast	MRT1	0	MRT2	WNT
Endothelial_Cell	MRT1	0	MRT2	WNT
Endothelial_Progenitor	MRT1	0	MRT2	WNT
Adipocyte	MRT1	0	MRT2	WNT
MRT1	MRT2	0	MRT2	WNT
MRT2	MRT2	0	MRT2	WNT
MRT4	MRT2	0	MRT2	WNT
TAM	MRT2	0	MRT2	WNT
Monocyte	MRT2	0	MRT2	WNT
T_NK	MRT2	0	MRT2	WNT
Fibroblast	MRT2	0	MRT2	WNT
Endothelial_Cell	MRT2	0	MRT2	WNT
Endothelial_Progenitor	MRT2	0	MRT2	WNT
Adipocyte	MRT2	0	MRT2	WNT
MRT1	MRT4	0	MRT2	WNT
MRT2	MRT4	0	MRT2	WNT
MRT4	MRT4	0	MRT2	WNT

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	WNT
Monocyte	MRT4	0	MRT2	WNT
T_NK	MRT4	0	MRT2	WNT
Fibroblast	MRT4	0	MRT2	WNT
Endothelial_Cell	MRT4	0	MRT2	WNT
Endothelial_Progenitor	MRT4	0	MRT2	WNT
Adipocyte	MRT4	0	MRT2	WNT
MRT1	TAM	0	MRT2	WNT
MRT2	TAM	0	MRT2	WNT
MRT4	TAM	0	MRT2	WNT
TAM	TAM	0	MRT2	WNT
Monocyte	TAM	0	MRT2	WNT
T_NK	TAM	0	MRT2	WNT
Fibroblast	TAM	0	MRT2	WNT
Endothelial_Cell	TAM	0	MRT2	WNT
Endothelial_Progenitor	TAM	0	MRT2	WNT
Adipocyte	TAM	0	MRT2	WNT
MRT1	Monocyte	0	MRT2	WNT
MRT2	Monocyte	0	MRT2	WNT
MRT4	Monocyte	0	MRT2	WNT
TAM	Monocyte	0	MRT2	WNT
Monocyte	Monocyte	0	MRT2	WNT
T_NK	Monocyte	0	MRT2	WNT
Fibroblast	Monocyte	0	MRT2	WNT
Endothelial_Cell	Monocyte	0	MRT2	WNT
Endothelial_Progenitor	Monocyte	0	MRT2	WNT
Adipocyte	Monocyte	0	MRT2	WNT
MRT1	T_NK	0	MRT2	WNT
MRT2	T_NK	0	MRT2	WNT
MRT4	T_NK	0	MRT2	WNT

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	WNT
Monocyte	T_NK	0	MRT2	WNT
T_NK	T_NK	0	MRT2	WNT
Fibroblast	T_NK	0	MRT2	WNT
Endothelial_Cell	T_NK	0	MRT2	WNT
Endothelial_Progenitor	T_NK	0	MRT2	WNT
Adipocyte	T_NK	0	MRT2	WNT
MRT1	Fibroblast	0	MRT2	WNT
MRT2	Fibroblast	0	MRT2	WNT
MRT4	Fibroblast	0	MRT2	WNT
TAM	Fibroblast	0	MRT2	WNT
Monocyte	Fibroblast	0	MRT2	WNT
T_NK	Fibroblast	0	MRT2	WNT
Fibroblast	Fibroblast	0	MRT2	WNT
Endothelial_Cell	Fibroblast	0	MRT2	WNT
Endothelial_Progenitor	Fibroblast	0	MRT2	WNT
Adipocyte	Fibroblast	0	MRT2	WNT
MRT1	Endothelial_Cell	0	MRT2	WNT
MRT2	Endothelial_Cell	0	MRT2	WNT
MRT4	Endothelial_Cell	0	MRT2	WNT
TAM	Endothelial_Cell	0	MRT2	WNT
Monocyte	Endothelial_Cell	0	MRT2	WNT
T_NK	Endothelial_Cell	0	MRT2	WNT
Fibroblast	Endothelial_Cell	0	MRT2	WNT
Endothelial_Cell	Endothelial_Cell	0	MRT2	WNT
Endothelial_Progenitor	Endothelial_Cell	0.001292463048	MRT2	WNT
Adipocyte	Endothelial_Cell	0	MRT2	WNT
MRT1	Endothelial_Progenitor	0	MRT2	WNT
MRT2	Endothelial_Progenitor	0	MRT2	WNT
MRT4	Endothelial_Progenitor	0	MRT2	WNT

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	WNT
Monocyte	Endothelial_Progenitor	0	MRT2	WNT
T_NK	Endothelial_Progenitor	0	MRT2	WNT
Fibroblast	Endothelial_Progenitor	0	MRT2	WNT
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	WNT
Endothelial_Progenitor	Endothelial_Progenitor	0.001982541593	MRT2	WNT
Adipocyte	Endothelial_Progenitor	0	MRT2	WNT
MRT1	Adipocyte	0	MRT2	WNT
MRT2	Adipocyte	0	MRT2	WNT
MRT4	Adipocyte	0	MRT2	WNT
TAM	Adipocyte	0	MRT2	WNT
Monocyte	Adipocyte	0	MRT2	WNT
T_NK	Adipocyte	0	MRT2	WNT
Fibroblast	Adipocyte	0	MRT2	WNT
Endothelial_Cell	Adipocyte	0	MRT2	WNT
Endothelial_Progenitor	Adipocyte	0	MRT2	WNT
Adipocyte	Adipocyte	0	MRT2	WNT
MRT1	MRT1	0	MRT2	MSTN
MRT2	MRT1	0	MRT2	MSTN
MRT4	MRT1	0	MRT2	MSTN
TAM	MRT1	0	MRT2	MSTN
Monocyte	MRT1	0	MRT2	MSTN
T_NK	MRT1	0	MRT2	MSTN
Fibroblast	MRT1	0	MRT2	MSTN
Endothelial_Cell	MRT1	0	MRT2	MSTN
Endothelial_Progenitor	MRT1	0	MRT2	MSTN
Adipocyte	MRT1	0	MRT2	MSTN
MRT1	MRT2	0	MRT2	MSTN
MRT2	MRT2	0	MRT2	MSTN
MRT4	MRT2	0	MRT2	MSTN

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	MSTN
Monocyte	MRT2	0	MRT2	MSTN
T_NK	MRT2	0	MRT2	MSTN
Fibroblast	MRT2	0	MRT2	MSTN
Endothelial_Cell	MRT2	0	MRT2	MSTN
Endothelial_Progenitor	MRT2	0	MRT2	MSTN
Adipocyte	MRT2	0	MRT2	MSTN
MRT1	MRT4	0	MRT2	MSTN
MRT2	MRT4	0	MRT2	MSTN
MRT4	MRT4	0	MRT2	MSTN
TAM	MRT4	0	MRT2	MSTN
Monocyte	MRT4	0	MRT2	MSTN
T_NK	MRT4	0	MRT2	MSTN
Fibroblast	MRT4	0	MRT2	MSTN
Endothelial_Cell	MRT4	0	MRT2	MSTN
Endothelial_Progenitor	MRT4	0	MRT2	MSTN
Adipocyte	MRT4	0	MRT2	MSTN
MRT1	TAM	0	MRT2	MSTN
MRT2	TAM	0	MRT2	MSTN
MRT4	TAM	0	MRT2	MSTN
TAM	TAM	0	MRT2	MSTN
Monocyte	TAM	0	MRT2	MSTN
T_NK	TAM	0	MRT2	MSTN
Fibroblast	TAM	0	MRT2	MSTN
Endothelial_Cell	TAM	0	MRT2	MSTN
Endothelial_Progenitor	TAM	0	MRT2	MSTN
Adipocyte	TAM	0	MRT2	MSTN
MRT1	Monocyte	0	MRT2	MSTN
MRT2	Monocyte	0	MRT2	MSTN
MRT4	Monocyte	0	MRT2	MSTN

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	MSTN
Monocyte	Monocyte	0	MRT2	MSTN
T_NK	Monocyte	0	MRT2	MSTN
Fibroblast	Monocyte	0	MRT2	MSTN
Endothelial_Cell	Monocyte	0	MRT2	MSTN
Endothelial_Progenitor	Monocyte	0	MRT2	MSTN
Adipocyte	Monocyte	0	MRT2	MSTN
MRT1	T_NK	0	MRT2	MSTN
MRT2	T_NK	0	MRT2	MSTN
MRT4	T_NK	0	MRT2	MSTN
TAM	T_NK	0	MRT2	MSTN
Monocyte	T_NK	0	MRT2	MSTN
T_NK	T_NK	0	MRT2	MSTN
Fibroblast	T_NK	0	MRT2	MSTN
Endothelial_Cell	T_NK	0	MRT2	MSTN
Endothelial_Progenitor	T_NK	0	MRT2	MSTN
Adipocyte	T_NK	0	MRT2	MSTN
MRT1	Fibroblast	0	MRT2	MSTN
MRT2	Fibroblast	0.001463961959	MRT2	MSTN
MRT4	Fibroblast	0	MRT2	MSTN
TAM	Fibroblast	0	MRT2	MSTN
Monocyte	Fibroblast	0	MRT2	MSTN
T_NK	Fibroblast	0	MRT2	MSTN
Fibroblast	Fibroblast	0	MRT2	MSTN
Endothelial_Cell	Fibroblast	0	MRT2	MSTN
Endothelial_Progenitor	Fibroblast	0	MRT2	MSTN
Adipocyte	Fibroblast	0	MRT2	MSTN
MRT1	Endothelial_Cell	0	MRT2	MSTN
MRT2	Endothelial_Cell	0	MRT2	MSTN
MRT4	Endothelial_Cell	0	MRT2	MSTN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	MSTN
Monocyte	Endothelial_Cell	0	MRT2	MSTN
T_NK	Endothelial_Cell	0	MRT2	MSTN
Fibroblast	Endothelial_Cell	0	MRT2	MSTN
Endothelial_Cell	Endothelial_Cell	0	MRT2	MSTN
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	MSTN
Adipocyte	Endothelial_Cell	0	MRT2	MSTN
MRT1	Endothelial_Progenitor	0	MRT2	MSTN
MRT2	Endothelial_Progenitor	0.001755461925	MRT2	MSTN
MRT4	Endothelial_Progenitor	0	MRT2	MSTN
TAM	Endothelial_Progenitor	0	MRT2	MSTN
Monocyte	Endothelial_Progenitor	0	MRT2	MSTN
T_NK	Endothelial_Progenitor	0	MRT2	MSTN
Fibroblast	Endothelial_Progenitor	0	MRT2	MSTN
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	MSTN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	MSTN
Adipocyte	Endothelial_Progenitor	0	MRT2	MSTN
MRT1	Adipocyte	0	MRT2	MSTN
MRT2	Adipocyte	0	MRT2	MSTN
MRT4	Adipocyte	0	MRT2	MSTN
TAM	Adipocyte	0	MRT2	MSTN
Monocyte	Adipocyte	0	MRT2	MSTN
T_NK	Adipocyte	0	MRT2	MSTN
Fibroblast	Adipocyte	0	MRT2	MSTN
Endothelial_Cell	Adipocyte	0	MRT2	MSTN
Endothelial_Progenitor	Adipocyte	0	MRT2	MSTN
Adipocyte	Adipocyte	0	MRT2	MSTN
MRT1	MRT1	0	MRT2	CD96
MRT2	MRT1	0	MRT2	CD96
MRT4	MRT1	0	MRT2	CD96

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	CD96
Monocyte	MRT1	0	MRT2	CD96
T_NK	MRT1	0	MRT2	CD96
Fibroblast	MRT1	0	MRT2	CD96
Endothelial_Cell	MRT1	0	MRT2	CD96
Endothelial_Progenitor	MRT1	0	MRT2	CD96
Adipocyte	MRT1	0	MRT2	CD96
MRT1	MRT2	0	MRT2	CD96
MRT2	MRT2	0	MRT2	CD96
MRT4	MRT2	0	MRT2	CD96
TAM	MRT2	0	MRT2	CD96
Monocyte	MRT2	0	MRT2	CD96
T_NK	MRT2	0	MRT2	CD96
Fibroblast	MRT2	0	MRT2	CD96
Endothelial_Cell	MRT2	0	MRT2	CD96
Endothelial_Progenitor	MRT2	0	MRT2	CD96
Adipocyte	MRT2	0	MRT2	CD96
MRT1	MRT4	0	MRT2	CD96
MRT2	MRT4	0	MRT2	CD96
MRT4	MRT4	0	MRT2	CD96
TAM	MRT4	0	MRT2	CD96
Monocyte	MRT4	0	MRT2	CD96
T_NK	MRT4	0	MRT2	CD96
Fibroblast	MRT4	0	MRT2	CD96
Endothelial_Cell	MRT4	0	MRT2	CD96
Endothelial_Progenitor	MRT4	0	MRT2	CD96
Adipocyte	MRT4	0	MRT2	CD96
MRT1	TAM	0	MRT2	CD96
MRT2	TAM	0	MRT2	CD96
MRT4	TAM	0	MRT2	CD96

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	CD96
Monocyte	TAM	0	MRT2	CD96
T_NK	TAM	0	MRT2	CD96
Fibroblast	TAM	0	MRT2	CD96
Endothelial_Cell	TAM	0	MRT2	CD96
Endothelial_Progenitor	TAM	0	MRT2	CD96
Adipocyte	TAM	0	MRT2	CD96
MRT1	Monocyte	0	MRT2	CD96
MRT2	Monocyte	0	MRT2	CD96
MRT4	Monocyte	0	MRT2	CD96
TAM	Monocyte	0	MRT2	CD96
Monocyte	Monocyte	0	MRT2	CD96
T_NK	Monocyte	0	MRT2	CD96
Fibroblast	Monocyte	0	MRT2	CD96
Endothelial_Cell	Monocyte	0	MRT2	CD96
Endothelial_Progenitor	Monocyte	0	MRT2	CD96
Adipocyte	Monocyte	0	MRT2	CD96
MRT1	T_NK	0	MRT2	CD96
MRT2	T_NK	0	MRT2	CD96
MRT4	T_NK	0	MRT2	CD96
TAM	T_NK	0	MRT2	CD96
Monocyte	T_NK	0	MRT2	CD96
T_NK	T_NK	0	MRT2	CD96
Fibroblast	T_NK	0	MRT2	CD96
Endothelial_Cell	T_NK	0	MRT2	CD96
Endothelial_Progenitor	T_NK	0	MRT2	CD96
Adipocyte	T_NK	0	MRT2	CD96
MRT1	Fibroblast	0	MRT2	CD96
MRT2	Fibroblast	0	MRT2	CD96
MRT4	Fibroblast	0	MRT2	CD96

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	CD96
Monocyte	Fibroblast	0	MRT2	CD96
T_NK	Fibroblast	0	MRT2	CD96
Fibroblast	Fibroblast	0	MRT2	CD96
Endothelial_Cell	Fibroblast	0	MRT2	CD96
Endothelial_Progenitor	Fibroblast	0	MRT2	CD96
Adipocyte	Fibroblast	0	MRT2	CD96
MRT1	Endothelial_Cell	0	MRT2	CD96
MRT2	Endothelial_Cell	0	MRT2	CD96
MRT4	Endothelial_Cell	0	MRT2	CD96
TAM	Endothelial_Cell	0	MRT2	CD96
Monocyte	Endothelial_Cell	0	MRT2	CD96
T_NK	Endothelial_Cell	0.002104882188	MRT2	CD96
Fibroblast	Endothelial_Cell	0	MRT2	CD96
Endothelial_Cell	Endothelial_Cell	0	MRT2	CD96
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	CD96
Adipocyte	Endothelial_Cell	0	MRT2	CD96
MRT1	Endothelial_Progenitor	0	MRT2	CD96
MRT2	Endothelial_Progenitor	0	MRT2	CD96
MRT4	Endothelial_Progenitor	0	MRT2	CD96
TAM	Endothelial_Progenitor	0	MRT2	CD96
Monocyte	Endothelial_Progenitor	0	MRT2	CD96
T_NK	Endothelial_Progenitor	0	MRT2	CD96
Fibroblast	Endothelial_Progenitor	0	MRT2	CD96
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	CD96
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	CD96
Adipocyte	Endothelial_Progenitor	0	MRT2	CD96
MRT1	Adipocyte	0	MRT2	CD96
MRT2	Adipocyte	0	MRT2	CD96
MRT4	Adipocyte	0	MRT2	CD96

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	CD96
Monocyte	Adipocyte	0	MRT2	CD96
T_NK	Adipocyte	0	MRT2	CD96
Fibroblast	Adipocyte	0	MRT2	CD96
Endothelial_Cell	Adipocyte	0	MRT2	CD96
Endothelial_Progenitor	Adipocyte	0	MRT2	CD96
Adipocyte	Adipocyte	0	MRT2	CD96
MRT1	MRT1	0	MRT2	IL16
MRT2	MRT1	0	MRT2	IL16
MRT4	MRT1	0	MRT2	IL16
TAM	MRT1	0	MRT2	IL16
Monocyte	MRT1	0	MRT2	IL16
T_NK	MRT1	0	MRT2	IL16
Fibroblast	MRT1	0	MRT2	IL16
Endothelial_Cell	MRT1	0	MRT2	IL16
Endothelial_Progenitor	MRT1	0	MRT2	IL16
Adipocyte	MRT1	0	MRT2	IL16
MRT1	MRT2	0	MRT2	IL16
MRT2	MRT2	0	MRT2	IL16
MRT4	MRT2	0	MRT2	IL16
TAM	MRT2	0	MRT2	IL16
Monocyte	MRT2	0	MRT2	IL16
T_NK	MRT2	0	MRT2	IL16
Fibroblast	MRT2	0	MRT2	IL16
Endothelial_Cell	MRT2	0	MRT2	IL16
Endothelial_Progenitor	MRT2	0	MRT2	IL16
Adipocyte	MRT2	0	MRT2	IL16
MRT1	MRT4	0	MRT2	IL16
MRT2	MRT4	0	MRT2	IL16
MRT4	MRT4	0	MRT2	IL16

Source	Target	Probability	Sample	Pathway
TAM	MRT4	0	MRT2	IL16
Monocyte	MRT4	0	MRT2	IL16
T_NK	MRT4	0	MRT2	IL16
Fibroblast	MRT4	0	MRT2	IL16
Endothelial_Cell	MRT4	0	MRT2	IL16
Endothelial_Progenitor	MRT4	0	MRT2	IL16
Adipocyte	MRT4	0	MRT2	IL16
MRT1	TAM	0	MRT2	IL16
MRT2	TAM	0	MRT2	IL16
MRT4	TAM	0	MRT2	IL16
TAM	TAM	0	MRT2	IL16
Monocyte	TAM	0	MRT2	IL16
T_NK	TAM	0	MRT2	IL16
Fibroblast	TAM	0.001463961959	MRT2	IL16
Endothelial_Cell	TAM	0	MRT2	IL16
Endothelial_Progenitor	TAM	0	MRT2	IL16
Adipocyte	TAM	0	MRT2	IL16
MRT1	Monocyte	0	MRT2	IL16
MRT2	Monocyte	0	MRT2	IL16
MRT4	Monocyte	0	MRT2	IL16
TAM	Monocyte	0	MRT2	IL16
Monocyte	Monocyte	0	MRT2	IL16
T_NK	Monocyte	0	MRT2	IL16
Fibroblast	Monocyte	0	MRT2	IL16
Endothelial_Cell	Monocyte	0	MRT2	IL16
Endothelial_Progenitor	Monocyte	0	MRT2	IL16
Adipocyte	Monocyte	0	MRT2	IL16
MRT1	T_NK	0	MRT2	IL16
MRT2	T_NK	0	MRT2	IL16
MRT4	T_NK	0	MRT2	IL16

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT2	IL16
Monocyte	T_NK	0	MRT2	IL16
T_NK	T_NK	0	MRT2	IL16
Fibroblast	T_NK	0	MRT2	IL16
Endothelial_Cell	T_NK	0	MRT2	IL16
Endothelial_Progenitor	T_NK	0	MRT2	IL16
Adipocyte	T_NK	0	MRT2	IL16
MRT1	Fibroblast	0	MRT2	IL16
MRT2	Fibroblast	0	MRT2	IL16
MRT4	Fibroblast	0	MRT2	IL16
TAM	Fibroblast	0	MRT2	IL16
Monocyte	Fibroblast	0	MRT2	IL16
T_NK	Fibroblast	0	MRT2	IL16
Fibroblast	Fibroblast	0	MRT2	IL16
Endothelial_Cell	Fibroblast	0	MRT2	IL16
Endothelial_Progenitor	Fibroblast	0	MRT2	IL16
Adipocyte	Fibroblast	0	MRT2	IL16
MRT1	Endothelial_Cell	0	MRT2	IL16
MRT2	Endothelial_Cell	0	MRT2	IL16
MRT4	Endothelial_Cell	0	MRT2	IL16
TAM	Endothelial_Cell	0	MRT2	IL16
Monocyte	Endothelial_Cell	0	MRT2	IL16
T_NK	Endothelial_Cell	0	MRT2	IL16
Fibroblast	Endothelial_Cell	0	MRT2	IL16
Endothelial_Cell	Endothelial_Cell	0	MRT2	IL16
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	IL16
Adipocyte	Endothelial_Cell	0	MRT2	IL16
MRT1	Endothelial_Progenitor	0	MRT2	IL16
MRT2	Endothelial_Progenitor	0	MRT2	IL16
MRT4	Endothelial_Progenitor	0	MRT2	IL16

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT2	IL16
Monocyte	Endothelial_Progenitor	0	MRT2	IL16
T_NK	Endothelial_Progenitor	0	MRT2	IL16
Fibroblast	Endothelial_Progenitor	0	MRT2	IL16
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	IL16
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	IL16
Adipocyte	Endothelial_Progenitor	0	MRT2	IL16
MRT1	Adipocyte	0	MRT2	IL16
MRT2	Adipocyte	0	MRT2	IL16
MRT4	Adipocyte	0	MRT2	IL16
TAM	Adipocyte	0	MRT2	IL16
Monocyte	Adipocyte	0	MRT2	IL16
T_NK	Adipocyte	0	MRT2	IL16
Fibroblast	Adipocyte	0	MRT2	IL16
Endothelial_Cell	Adipocyte	0	MRT2	IL16
Endothelial_Progenitor	Adipocyte	0	MRT2	IL16
Adipocyte	Adipocyte	0	MRT2	IL16
MRT1	MRT1	0	MRT2	CHEMERIN
MRT2	MRT1	0	MRT2	CHEMERIN
MRT4	MRT1	0	MRT2	CHEMERIN
TAM	MRT1	0	MRT2	CHEMERIN
Monocyte	MRT1	0	MRT2	CHEMERIN
T_NK	MRT1	0	MRT2	CHEMERIN
Fibroblast	MRT1	0	MRT2	CHEMERIN
Endothelial_Cell	MRT1	0	MRT2	CHEMERIN
Endothelial_Progenitor	MRT1	0	MRT2	CHEMERIN
Adipocyte	MRT1	0	MRT2	CHEMERIN
MRT1	MRT2	0	MRT2	CHEMERIN
MRT2	MRT2	0	MRT2	CHEMERIN
MRT4	MRT2	0	MRT2	CHEMERIN

Source	Target	Probability	Sample	Pathway
TAM	MRT2	0	MRT2	CHEMERIN
Monocyte	MRT2	0	MRT2	CHEMERIN
T_NK	MRT2	0	MRT2	CHEMERIN
Fibroblast	MRT2	0	MRT2	CHEMERIN
Endothelial_Cell	MRT2	0	MRT2	CHEMERIN
Endothelial_Progenitor	MRT2	0	MRT2	CHEMERIN
Adipocyte	MRT2	0	MRT2	CHEMERIN
MRT1	MRT4	0	MRT2	CHEMERIN
MRT2	MRT4	0	MRT2	CHEMERIN
MRT4	MRT4	0	MRT2	CHEMERIN
TAM	MRT4	0	MRT2	CHEMERIN
Monocyte	MRT4	0	MRT2	CHEMERIN
T_NK	MRT4	0	MRT2	CHEMERIN
Fibroblast	MRT4	0	MRT2	CHEMERIN
Endothelial_Cell	MRT4	0	MRT2	CHEMERIN
Endothelial_Progenitor	MRT4	0	MRT2	CHEMERIN
Adipocyte	MRT4	0	MRT2	CHEMERIN
MRT1	TAM	0	MRT2	CHEMERIN
MRT2	TAM	0	MRT2	CHEMERIN
MRT4	TAM	0	MRT2	CHEMERIN
TAM	TAM	0	MRT2	CHEMERIN
Monocyte	TAM	0	MRT2	CHEMERIN
T_NK	TAM	0	MRT2	CHEMERIN
Fibroblast	TAM	0.001463961959	MRT2	CHEMERIN
Endothelial_Cell	TAM	0	MRT2	CHEMERIN
Endothelial_Progenitor	TAM	0	MRT2	CHEMERIN
Adipocyte	TAM	0	MRT2	CHEMERIN
MRT1	Monocyte	0	MRT2	CHEMERIN
MRT2	Monocyte	0	MRT2	CHEMERIN
MRT4	Monocyte	0	MRT2	CHEMERIN

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT2	CHEMERIN
Monocyte	Monocyte	0	MRT2	CHEMERIN
T_NK	Monocyte	0	MRT2	CHEMERIN
Fibroblast	Monocyte	0	MRT2	CHEMERIN
Endothelial_Cell	Monocyte	0	MRT2	CHEMERIN
Endothelial_Progenitor	Monocyte	0	MRT2	CHEMERIN
Adipocyte	Monocyte	0	MRT2	CHEMERIN
MRT1	T_NK	0	MRT2	CHEMERIN
MRT2	T_NK	0	MRT2	CHEMERIN
MRT4	T_NK	0	MRT2	CHEMERIN
TAM	T_NK	0	MRT2	CHEMERIN
Monocyte	T_NK	0	MRT2	CHEMERIN
T_NK	T_NK	0	MRT2	CHEMERIN
Fibroblast	T_NK	0	MRT2	CHEMERIN
Endothelial_Cell	T_NK	0	MRT2	CHEMERIN
Endothelial_Progenitor	T_NK	0	MRT2	CHEMERIN
Adipocyte	T_NK	0	MRT2	CHEMERIN
MRT1	Fibroblast	0	MRT2	CHEMERIN
MRT2	Fibroblast	0	MRT2	CHEMERIN
MRT4	Fibroblast	0	MRT2	CHEMERIN
TAM	Fibroblast	0	MRT2	CHEMERIN
Monocyte	Fibroblast	0	MRT2	CHEMERIN
T_NK	Fibroblast	0	MRT2	CHEMERIN
Fibroblast	Fibroblast	0	MRT2	CHEMERIN
Endothelial_Cell	Fibroblast	0	MRT2	CHEMERIN
Endothelial_Progenitor	Fibroblast	0	MRT2	CHEMERIN
Adipocyte	Fibroblast	0	MRT2	CHEMERIN
MRT1	Endothelial_Cell	0	MRT2	CHEMERIN
MRT2	Endothelial_Cell	0	MRT2	CHEMERIN
MRT4	Endothelial_Cell	0	MRT2	CHEMERIN

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT2	CHEMERIN
Monocyte	Endothelial_Cell	0	MRT2	CHEMERIN
T_NK	Endothelial_Cell	0	MRT2	CHEMERIN
Fibroblast	Endothelial_Cell	0	MRT2	CHEMERIN
Endothelial_Cell	Endothelial_Cell	0	MRT2	CHEMERIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	CHEMERIN
Adipocyte	Endothelial_Cell	0	MRT2	CHEMERIN
MRT1	Endothelial_Progenitor	0	MRT2	CHEMERIN
MRT2	Endothelial_Progenitor	0	MRT2	CHEMERIN
MRT4	Endothelial_Progenitor	0	MRT2	CHEMERIN
TAM	Endothelial_Progenitor	0	MRT2	CHEMERIN
Monocyte	Endothelial_Progenitor	0	MRT2	CHEMERIN
T_NK	Endothelial_Progenitor	0	MRT2	CHEMERIN
Fibroblast	Endothelial_Progenitor	0	MRT2	CHEMERIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	CHEMERIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	CHEMERIN
Adipocyte	Endothelial_Progenitor	0	MRT2	CHEMERIN
MRT1	Adipocyte	0	MRT2	CHEMERIN
MRT2	Adipocyte	0	MRT2	CHEMERIN
MRT4	Adipocyte	0	MRT2	CHEMERIN
TAM	Adipocyte	0	MRT2	CHEMERIN
Monocyte	Adipocyte	0	MRT2	CHEMERIN
T_NK	Adipocyte	0	MRT2	CHEMERIN
Fibroblast	Adipocyte	0	MRT2	CHEMERIN
Endothelial_Cell	Adipocyte	0	MRT2	CHEMERIN
Endothelial_Progenitor	Adipocyte	0	MRT2	CHEMERIN
Adipocyte	Adipocyte	0	MRT2	CHEMERIN
MRT1	MRT1	0	MRT2	CADM
MRT2	MRT1	0	MRT2	CADM
MRT4	MRT1	0	MRT2	CADM

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT2	CADM
Monocyte	MRT1	0	MRT2	CADM
T_NK	MRT1	0	MRT2	CADM
Fibroblast	MRT1	0	MRT2	CADM
Endothelial_Cell	MRT1	0	MRT2	CADM
Endothelial_Progenitor	MRT1	0	MRT2	CADM
Adipocyte	MRT1	0	MRT2	CADM
MRT1	MRT2	0	MRT2	CADM
MRT2	MRT2	0	MRT2	CADM
MRT4	MRT2	0	MRT2	CADM
TAM	MRT2	0	MRT2	CADM
Monocyte	MRT2	0	MRT2	CADM
T_NK	MRT2	0	MRT2	CADM
Fibroblast	MRT2	0	MRT2	CADM
Endothelial_Cell	MRT2	0	MRT2	CADM
Endothelial_Progenitor	MRT2	0	MRT2	CADM
Adipocyte	MRT2	0	MRT2	CADM
MRT1	MRT4	0	MRT2	CADM
MRT2	MRT4	0	MRT2	CADM
MRT4	MRT4	0	MRT2	CADM
TAM	MRT4	0	MRT2	CADM
Monocyte	MRT4	0	MRT2	CADM
T_NK	MRT4	0	MRT2	CADM
Fibroblast	MRT4	0	MRT2	CADM
Endothelial_Cell	MRT4	0	MRT2	CADM
Endothelial_Progenitor	MRT4	0	MRT2	CADM
Adipocyte	MRT4	0	MRT2	CADM
MRT1	TAM	0	MRT2	CADM
MRT2	TAM	0	MRT2	CADM
MRT4	TAM	0	MRT2	CADM

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT2	CADM
Monocyte	TAM	0	MRT2	CADM
T_NK	TAM	0	MRT2	CADM
Fibroblast	TAM	0	MRT2	CADM
Endothelial_Cell	TAM	0	MRT2	CADM
Endothelial_Progenitor	TAM	0	MRT2	CADM
Adipocyte	TAM	0	MRT2	CADM
MRT1	Monocyte	0	MRT2	CADM
MRT2	Monocyte	0	MRT2	CADM
MRT4	Monocyte	0	MRT2	CADM
TAM	Monocyte	0	MRT2	CADM
Monocyte	Monocyte	0.001463961959	MRT2	CADM
T_NK	Monocyte	0	MRT2	CADM
Fibroblast	Monocyte	0	MRT2	CADM
Endothelial_Cell	Monocyte	0	MRT2	CADM
Endothelial_Progenitor	Monocyte	0	MRT2	CADM
Adipocyte	Monocyte	0	MRT2	CADM
MRT1	T_NK	0	MRT2	CADM
MRT2	T_NK	0	MRT2	CADM
MRT4	T_NK	0	MRT2	CADM
TAM	T_NK	0	MRT2	CADM
Monocyte	T_NK	0	MRT2	CADM
T_NK	T_NK	0	MRT2	CADM
Fibroblast	T_NK	0	MRT2	CADM
Endothelial_Cell	T_NK	0	MRT2	CADM
Endothelial_Progenitor	T_NK	0	MRT2	CADM
Adipocyte	T_NK	0	MRT2	CADM
MRT1	Fibroblast	0	MRT2	CADM
MRT2	Fibroblast	0	MRT2	CADM
MRT4	Fibroblast	0	MRT2	CADM

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT2	CADM
Monocyte	Fibroblast	0	MRT2	CADM
T_NK	Fibroblast	0	MRT2	CADM
Fibroblast	Fibroblast	0	MRT2	CADM
Endothelial_Cell	Fibroblast	0	MRT2	CADM
Endothelial_Progenitor	Fibroblast	0	MRT2	CADM
Adipocyte	Fibroblast	0	MRT2	CADM
MRT1	Endothelial_Cell	0	MRT2	CADM
MRT2	Endothelial_Cell	0	MRT2	CADM
MRT4	Endothelial_Cell	0	MRT2	CADM
TAM	Endothelial_Cell	0	MRT2	CADM
Monocyte	Endothelial_Cell	0	MRT2	CADM
T_NK	Endothelial_Cell	0	MRT2	CADM
Fibroblast	Endothelial_Cell	0	MRT2	CADM
Endothelial_Cell	Endothelial_Cell	0	MRT2	CADM
Endothelial_Progenitor	Endothelial_Cell	0	MRT2	CADM
Adipocyte	Endothelial_Cell	0	MRT2	CADM
MRT1	Endothelial_Progenitor	0	MRT2	CADM
MRT2	Endothelial_Progenitor	0	MRT2	CADM
MRT4	Endothelial_Progenitor	0	MRT2	CADM
TAM	Endothelial_Progenitor	0	MRT2	CADM
Monocyte	Endothelial_Progenitor	0	MRT2	CADM
T_NK	Endothelial_Progenitor	0	MRT2	CADM
Fibroblast	Endothelial_Progenitor	0	MRT2	CADM
Endothelial_Cell	Endothelial_Progenitor	0	MRT2	CADM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT2	CADM
Adipocyte	Endothelial_Progenitor	0	MRT2	CADM
MRT1	Adipocyte	0	MRT2	CADM
MRT2	Adipocyte	0	MRT2	CADM
MRT4	Adipocyte	0	MRT2	CADM

Source	Target	Probability	Sample	Pathway
TAM	Adipocyte	0	MRT2	CADM
Monocyte	Adipocyte	0	MRT2	CADM
T_NK	Adipocyte	0	MRT2	CADM
Fibroblast	Adipocyte	0	MRT2	CADM
Endothelial_Cell	Adipocyte	0	MRT2	CADM
Endothelial_Progenitor	Adipocyte	0	MRT2	CADM
Adipocyte	Adipocyte	0	MRT2	CADM
MRT1	MRT1	0	MRT3	COLLAGEN
MRT3	MRT1	0	MRT3	COLLAGEN
TAM	MRT1	0	MRT3	COLLAGEN
Monocyte	MRT1	0	MRT3	COLLAGEN
T_NK	MRT1	0	MRT3	COLLAGEN
B_Cell	MRT1	0	MRT3	COLLAGEN
Fibroblast	MRT1	0	MRT3	COLLAGEN
Endothelial_Cell	MRT1	0	MRT3	COLLAGEN
Endothelial_Progenitor	MRT1	0	MRT3	COLLAGEN
MRT1	MRT3	0	MRT3	COLLAGEN
MRT3	MRT3	0	MRT3	COLLAGEN
TAM	MRT3	0	MRT3	COLLAGEN
Monocyte	MRT3	0	MRT3	COLLAGEN
T_NK	MRT3	0	MRT3	COLLAGEN
B_Cell	MRT3	0	MRT3	COLLAGEN
Fibroblast	MRT3	0	MRT3	COLLAGEN
Endothelial_Cell	MRT3	0	MRT3	COLLAGEN
Endothelial_Progenitor	MRT3	0	MRT3	COLLAGEN
MRT1	TAM	0	MRT3	COLLAGEN
MRT3	TAM	0.0105925637	MRT3	COLLAGEN
TAM	TAM	0.00266934735	MRT3	COLLAGEN
Monocyte	TAM	0	MRT3	COLLAGEN
T_NK	TAM	0.007965516588	MRT3	COLLAGEN

Source	Target	Probability	Sample	Pathway
B_Cell	TAM	0	MRT3	COLLAGEN
Fibroblast	TAM	0.1948662629	MRT3	COLLAGEN
Endothelial_Cell	TAM	0.03858631449	MRT3	COLLAGEN
Endothelial_Progenitor	TAM	0	MRT3	COLLAGEN
MRT1	Monocyte	0	MRT3	COLLAGEN
MRT3	Monocyte	0	MRT3	COLLAGEN
TAM	Monocyte	0	MRT3	COLLAGEN
Monocyte	Monocyte	0	MRT3	COLLAGEN
T_NK	Monocyte	0	MRT3	COLLAGEN
B_Cell	Monocyte	0	MRT3	COLLAGEN
Fibroblast	Monocyte	0	MRT3	COLLAGEN
Endothelial_Cell	Monocyte	0	MRT3	COLLAGEN
Endothelial_Progenitor	Monocyte	0	MRT3	COLLAGEN
MRT1	T_NK	0	MRT3	COLLAGEN
MRT3	T_NK	0.03344932049	MRT3	COLLAGEN
TAM	T_NK	0.008577514136	MRT3	COLLAGEN
Monocyte	T_NK	0	MRT3	COLLAGEN
T_NK	T_NK	0.02529854515	MRT3	COLLAGEN
B_Cell	T_NK	0	MRT3	COLLAGEN
Fibroblast	T_NK	0.5881837334	MRT3	COLLAGEN
Endothelial_Cell	T_NK	0.1206826987	MRT3	COLLAGEN
Endothelial_Progenitor	T_NK	0	MRT3	COLLAGEN
MRT1	B_Cell	0	MRT3	COLLAGEN
MRT3	B_Cell	0	MRT3	COLLAGEN
TAM	B_Cell	0	MRT3	COLLAGEN
Monocyte	B_Cell	0	MRT3	COLLAGEN
T_NK	B_Cell	0	MRT3	COLLAGEN
B_Cell	B_Cell	0	MRT3	COLLAGEN
Fibroblast	B_Cell	0	MRT3	COLLAGEN
Endothelial_Cell	B_Cell	0	MRT3	COLLAGEN

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	B_Cell	0	MRT3	COLLAGEN
MRT1	Fibroblast	0	MRT3	COLLAGEN
MRT3	Fibroblast	0.02923285967	MRT3	COLLAGEN
TAM	Fibroblast	0.007413452506	MRT3	COLLAGEN
Monocyte	Fibroblast	0	MRT3	COLLAGEN
T_NK	Fibroblast	0.02202875804	MRT3	COLLAGEN
B_Cell	Fibroblast	0	MRT3	COLLAGEN
Fibroblast	Fibroblast	0.5289755624	MRT3	COLLAGEN
Endothelial_Cell	Fibroblast	0.106114984	MRT3	COLLAGEN
Endothelial_Progenitor	Fibroblast	0	MRT3	COLLAGEN
MRT1	Endothelial_Cell	0	MRT3	COLLAGEN
MRT3	Endothelial_Cell	0.1156038316	MRT3	COLLAGEN
TAM	Endothelial_Cell	0.02990653208	MRT3	COLLAGEN
Monocyte	Endothelial_Cell	0	MRT3	COLLAGEN
T_NK	Endothelial_Cell	0.08768314036	MRT3	COLLAGEN
B_Cell	Endothelial_Cell	0	MRT3	COLLAGEN
Fibroblast	Endothelial_Cell	1.992046524	MRT3	COLLAGEN
Endothelial_Cell	Endothelial_Cell	0.4152277201	MRT3	COLLAGEN
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	COLLAGEN
MRT1	Endothelial_Progenitor	0	MRT3	COLLAGEN
MRT3	Endothelial_Progenitor	0	MRT3	COLLAGEN
TAM	Endothelial_Progenitor	0	MRT3	COLLAGEN
Monocyte	Endothelial_Progenitor	0	MRT3	COLLAGEN
T_NK	Endothelial_Progenitor	0	MRT3	COLLAGEN
B_Cell	Endothelial_Progenitor	0	MRT3	COLLAGEN
Fibroblast	Endothelial_Progenitor	0	MRT3	COLLAGEN
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	COLLAGEN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	COLLAGEN
MRT1	MRT1	0	MRT3	FN1
MRT3	MRT1	0	MRT3	FN1

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT3	FN1
Monocyte	MRT1	0	MRT3	FN1
T_NK	MRT1	0	MRT3	FN1
B_Cell	MRT1	0	MRT3	FN1
Fibroblast	MRT1	0	MRT3	FN1
Endothelial_Cell	MRT1	0	MRT3	FN1
Endothelial_Progenitor	MRT1	0	MRT3	FN1
MRT1	MRT3	0	MRT3	FN1
MRT3	MRT3	0	MRT3	FN1
TAM	MRT3	0	MRT3	FN1
Monocyte	MRT3	0	MRT3	FN1
T_NK	MRT3	0	MRT3	FN1
B_Cell	MRT3	0	MRT3	FN1
Fibroblast	MRT3	0.1870100404	MRT3	FN1
Endothelial_Cell	MRT3	0.04725519911	MRT3	FN1
Endothelial_Progenitor	MRT3	0	MRT3	FN1
MRT1	TAM	0	MRT3	FN1
MRT3	TAM	0	MRT3	FN1
TAM	TAM	0	MRT3	FN1
Monocyte	TAM	0	MRT3	FN1
T_NK	TAM	0	MRT3	FN1
B_Cell	TAM	0	MRT3	FN1
Fibroblast	TAM	0.1656463733	MRT3	FN1
Endothelial_Cell	TAM	0.03886866012	MRT3	FN1
Endothelial_Progenitor	TAM	0	MRT3	FN1
MRT1	Monocyte	0	MRT3	FN1
MRT3	Monocyte	0	MRT3	FN1
TAM	Monocyte	0	MRT3	FN1
Monocyte	Monocyte	0	MRT3	FN1
T_NK	Monocyte	0	MRT3	FN1

Source	Target	Probability	Sample	Pathway
B_Cell	Monocyte	0	MRT3	FN1
Fibroblast	Monocyte	0	MRT3	FN1
Endothelial_Cell	Monocyte	0	MRT3	FN1
Endothelial_Progenitor	Monocyte	0	MRT3	FN1
MRT1	T_NK	0	MRT3	FN1
MRT3	T_NK	0	MRT3	FN1
TAM	T_NK	0	MRT3	FN1
Monocyte	T_NK	0	MRT3	FN1
T_NK	T_NK	0	MRT3	FN1
B_Cell	T_NK	0	MRT3	FN1
Fibroblast	T_NK	0.3177065989	MRT3	FN1
Endothelial_Cell	T_NK	0.0753291693	MRT3	FN1
Endothelial_Progenitor	T_NK	0	MRT3	FN1
MRT1	B_Cell	0	MRT3	FN1
MRT3	B_Cell	0	MRT3	FN1
TAM	B_Cell	0	MRT3	FN1
Monocyte	B_Cell	0	MRT3	FN1
T_NK	B_Cell	0	MRT3	FN1
B_Cell	B_Cell	0	MRT3	FN1
Fibroblast	B_Cell	0	MRT3	FN1
Endothelial_Cell	B_Cell	0	MRT3	FN1
Endothelial_Progenitor	B_Cell	0	MRT3	FN1
MRT1	Fibroblast	0	MRT3	FN1
MRT3	Fibroblast	0	MRT3	FN1
TAM	Fibroblast	0	MRT3	FN1
Monocyte	Fibroblast	0	MRT3	FN1
T_NK	Fibroblast	0	MRT3	FN1
B_Cell	Fibroblast	0	MRT3	FN1
Fibroblast	Fibroblast	0.3205364658	MRT3	FN1
Endothelial_Cell	Fibroblast	0.07917496928	MRT3	FN1

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Fibroblast	0	MRT3	FN1
MRT1	Endothelial_Cell	0	MRT3	FN1
MRT3	Endothelial_Cell	0	MRT3	FN1
TAM	Endothelial_Cell	0	MRT3	FN1
Monocyte	Endothelial_Cell	0	MRT3	FN1
T_NK	Endothelial_Cell	0	MRT3	FN1
B_Cell	Endothelial_Cell	0	MRT3	FN1
Fibroblast	Endothelial_Cell	0.2673573895	MRT3	FN1
Endothelial_Cell	Endothelial_Cell	0.06308872698	MRT3	FN1
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	FN1
MRT1	Endothelial_Progenitor	0	MRT3	FN1
MRT3	Endothelial_Progenitor	0	MRT3	FN1
TAM	Endothelial_Progenitor	0	MRT3	FN1
Monocyte	Endothelial_Progenitor	0	MRT3	FN1
T_NK	Endothelial_Progenitor	0	MRT3	FN1
B_Cell	Endothelial_Progenitor	0	MRT3	FN1
Fibroblast	Endothelial_Progenitor	0	MRT3	FN1
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	FN1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	FN1
MRT1	MRT1	0	MRT3	LAMININ
MRT3	MRT1	0	MRT3	LAMININ
TAM	MRT1	0	MRT3	LAMININ
Monocyte	MRT1	0	MRT3	LAMININ
T_NK	MRT1	0	MRT3	LAMININ
B_Cell	MRT1	0	MRT3	LAMININ
Fibroblast	MRT1	0	MRT3	LAMININ
Endothelial_Cell	MRT1	0	MRT3	LAMININ
Endothelial_Progenitor	MRT1	0	MRT3	LAMININ
MRT1	MRT3	0	MRT3	LAMININ
MRT3	MRT3	0	MRT3	LAMININ

Source	Target	Probability	Sample	Pathway
TAM	MRT3	0	MRT3	LAMININ
Monocyte	MRT3	0	MRT3	LAMININ
T_NK	MRT3	0	MRT3	LAMININ
B_Cell	MRT3	0	MRT3	LAMININ
Fibroblast	MRT3	0	MRT3	LAMININ
Endothelial_Cell	MRT3	0	MRT3	LAMININ
Endothelial_Progenitor	MRT3	0	MRT3	LAMININ
MRT1	TAM	0	MRT3	LAMININ
MRT3	TAM	0.009562914167	MRT3	LAMININ
TAM	TAM	0	MRT3	LAMININ
Monocyte	TAM	0	MRT3	LAMININ
T_NK	TAM	0	MRT3	LAMININ
B_Cell	TAM	0	MRT3	LAMININ
Fibroblast	TAM	0.03088347042	MRT3	LAMININ
Endothelial_Cell	TAM	0.04463089771	MRT3	LAMININ
Endothelial_Progenitor	TAM	0	MRT3	LAMININ
MRT1	Monocyte	0	MRT3	LAMININ
MRT3	Monocyte	0	MRT3	LAMININ
TAM	Monocyte	0	MRT3	LAMININ
Monocyte	Monocyte	0	MRT3	LAMININ
T_NK	Monocyte	0	MRT3	LAMININ
B_Cell	Monocyte	0	MRT3	LAMININ
Fibroblast	Monocyte	0	MRT3	LAMININ
Endothelial_Cell	Monocyte	0	MRT3	LAMININ
Endothelial_Progenitor	Monocyte	0	MRT3	LAMININ
MRT1	T_NK	0	MRT3	LAMININ
MRT3	T_NK	0.03068219365	MRT3	LAMININ
TAM	T_NK	0	MRT3	LAMININ
Monocyte	T_NK	0	MRT3	LAMININ
T_NK	T_NK	0	MRT3	LAMININ

Source	Target	Probability	Sample	Pathway
B_Cell	T_NK	0	MRT3	LAMININ
Fibroblast	T_NK	0.09754654866	MRT3	LAMININ
Endothelial_Cell	T_NK	0.1397108211	MRT3	LAMININ
Endothelial_Progenitor	T_NK	0	MRT3	LAMININ
MRT1	B_Cell	0	MRT3	LAMININ
MRT3	B_Cell	0	MRT3	LAMININ
TAM	B_Cell	0	MRT3	LAMININ
Monocyte	B_Cell	0	MRT3	LAMININ
T_NK	B_Cell	0	MRT3	LAMININ
B_Cell	B_Cell	0	MRT3	LAMININ
Fibroblast	B_Cell	0	MRT3	LAMININ
Endothelial_Cell	B_Cell	0	MRT3	LAMININ
Endothelial_Progenitor	B_Cell	0	MRT3	LAMININ
MRT1	Fibroblast	0	MRT3	LAMININ
MRT3	Fibroblast	0.006041010365	MRT3	LAMININ
TAM	Fibroblast	0	MRT3	LAMININ
Monocyte	Fibroblast	0	MRT3	LAMININ
T_NK	Fibroblast	0	MRT3	LAMININ
B_Cell	Fibroblast	0	MRT3	LAMININ
Fibroblast	Fibroblast	0.01956135587	MRT3	LAMININ
Endothelial_Cell	Fibroblast	0.0283128129	MRT3	LAMININ
Endothelial_Progenitor	Fibroblast	0	MRT3	LAMININ
MRT1	Endothelial_Cell	0	MRT3	LAMININ
MRT3	Endothelial_Cell	0.1129344085	MRT3	LAMININ
TAM	Endothelial_Cell	0	MRT3	LAMININ
Monocyte	Endothelial_Cell	0	MRT3	LAMININ
T_NK	Endothelial_Cell	0	MRT3	LAMININ
B_Cell	Endothelial_Cell	0	MRT3	LAMININ
Fibroblast	Endothelial_Cell	0.3567634925	MRT3	LAMININ
Endothelial_Cell	Endothelial_Cell	0.5092390517	MRT3	LAMININ

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	LAMININ
MRT1	Endothelial_Progenitor	0	MRT3	LAMININ
MRT3	Endothelial_Progenitor	0	MRT3	LAMININ
TAM	Endothelial_Progenitor	0	MRT3	LAMININ
Monocyte	Endothelial_Progenitor	0	MRT3	LAMININ
T_NK	Endothelial_Progenitor	0	MRT3	LAMININ
B_Cell	Endothelial_Progenitor	0	MRT3	LAMININ
Fibroblast	Endothelial_Progenitor	0	MRT3	LAMININ
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	LAMININ
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	LAMININ
MRT1	MRT1	0	MRT3	EPHA
MRT3	MRT1	0	MRT3	EPHA
TAM	MRT1	0	MRT3	EPHA
Monocyte	MRT1	0	MRT3	EPHA
T_NK	MRT1	0	MRT3	EPHA
B_Cell	MRT1	0	MRT3	EPHA
Fibroblast	MRT1	0	MRT3	EPHA
Endothelial_Cell	MRT1	0	MRT3	EPHA
Endothelial_Progenitor	MRT1	0	MRT3	EPHA
MRT1	MRT3	0	MRT3	EPHA
MRT3	MRT3	0.04660201682	MRT3	EPHA
TAM	MRT3	0	MRT3	EPHA
Monocyte	MRT3	0	MRT3	EPHA
T_NK	MRT3	0	MRT3	EPHA
B_Cell	MRT3	0	MRT3	EPHA
Fibroblast	MRT3	0	MRT3	EPHA
Endothelial_Cell	MRT3	0.442716946	MRT3	EPHA
Endothelial_Progenitor	MRT3	0	MRT3	EPHA
MRT1	TAM	0	MRT3	EPHA
MRT3	TAM	0	MRT3	EPHA

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT3	EPHA
Monocyte	TAM	0	MRT3	EPHA
T_NK	TAM	0	MRT3	EPHA
B_Cell	TAM	0	MRT3	EPHA
Fibroblast	TAM	0	MRT3	EPHA
Endothelial_Cell	TAM	0.1843158651	MRT3	EPHA
Endothelial_Progenitor	TAM	0	MRT3	EPHA
MRT1	Monocyte	0	MRT3	EPHA
MRT3	Monocyte	0	MRT3	EPHA
TAM	Monocyte	0	MRT3	EPHA
Monocyte	Monocyte	0	MRT3	EPHA
T_NK	Monocyte	0	MRT3	EPHA
B_Cell	Monocyte	0	MRT3	EPHA
Fibroblast	Monocyte	0	MRT3	EPHA
Endothelial_Cell	Monocyte	0	MRT3	EPHA
Endothelial_Progenitor	Monocyte	0	MRT3	EPHA
MRT1	T_NK	0	MRT3	EPHA
MRT3	T_NK	0	MRT3	EPHA
TAM	T_NK	0	MRT3	EPHA
Monocyte	T_NK	0	MRT3	EPHA
T_NK	T_NK	0	MRT3	EPHA
B_Cell	T_NK	0	MRT3	EPHA
Fibroblast	T_NK	0	MRT3	EPHA
Endothelial_Cell	T_NK	0.2388305987	MRT3	EPHA
Endothelial_Progenitor	T_NK	0	MRT3	EPHA
MRT1	B_Cell	0	MRT3	EPHA
MRT3	B_Cell	0	MRT3	EPHA
TAM	B_Cell	0	MRT3	EPHA
Monocyte	B_Cell	0	MRT3	EPHA
T_NK	B_Cell	0	MRT3	EPHA

Source	Target	Probability	Sample	Pathway
B_Cell	B_Cell	0	MRT3	EPHA
Fibroblast	B_Cell	0	MRT3	EPHA
Endothelial_Cell	B_Cell	0	MRT3	EPHA
Endothelial_Progenitor	B_Cell	0	MRT3	EPHA
MRT1	Fibroblast	0	MRT3	EPHA
MRT3	Fibroblast	0	MRT3	EPHA
TAM	Fibroblast	0	MRT3	EPHA
Monocyte	Fibroblast	0	MRT3	EPHA
T_NK	Fibroblast	0	MRT3	EPHA
B_Cell	Fibroblast	0	MRT3	EPHA
Fibroblast	Fibroblast	0	MRT3	EPHA
Endothelial_Cell	Fibroblast	0.1904835887	MRT3	EPHA
Endothelial_Progenitor	Fibroblast	0	MRT3	EPHA
MRT1	Endothelial_Cell	0	MRT3	EPHA
MRT3	Endothelial_Cell	0	MRT3	EPHA
TAM	Endothelial_Cell	0	MRT3	EPHA
Monocyte	Endothelial_Cell	0	MRT3	EPHA
T_NK	Endothelial_Cell	0	MRT3	EPHA
B_Cell	Endothelial_Cell	0	MRT3	EPHA
Fibroblast	Endothelial_Cell	0	MRT3	EPHA
Endothelial_Cell	Endothelial_Cell	0.1358141305	MRT3	EPHA
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	EPHA
MRT1	Endothelial_Progenitor	0	MRT3	EPHA
MRT3	Endothelial_Progenitor	0	MRT3	EPHA
TAM	Endothelial_Progenitor	0	MRT3	EPHA
Monocyte	Endothelial_Progenitor	0	MRT3	EPHA
T_NK	Endothelial_Progenitor	0	MRT3	EPHA
B_Cell	Endothelial_Progenitor	0	MRT3	EPHA
Fibroblast	Endothelial_Progenitor	0	MRT3	EPHA
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	EPHA

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	EPHA
MRT1	MRT1	0	MRT3	SPP1
MRT3	MRT1	0	MRT3	SPP1
TAM	MRT1	0	MRT3	SPP1
Monocyte	MRT1	0	MRT3	SPP1
T_NK	MRT1	0	MRT3	SPP1
B_Cell	MRT1	0	MRT3	SPP1
Fibroblast	MRT1	0	MRT3	SPP1
Endothelial_Cell	MRT1	0	MRT3	SPP1
Endothelial_Progenitor	MRT1	0	MRT3	SPP1
MRT1	MRT3	0	MRT3	SPP1
MRT3	MRT3	0	MRT3	SPP1
TAM	MRT3	0.1452710451	MRT3	SPP1
Monocyte	MRT3	0	MRT3	SPP1
T_NK	MRT3	0	MRT3	SPP1
B_Cell	MRT3	0	MRT3	SPP1
Fibroblast	MRT3	0	MRT3	SPP1
Endothelial_Cell	MRT3	0	MRT3	SPP1
Endothelial_Progenitor	MRT3	0	MRT3	SPP1
MRT1	TAM	0	MRT3	SPP1
MRT3	TAM	0	MRT3	SPP1
TAM	TAM	0.1257640397	MRT3	SPP1
Monocyte	TAM	0	MRT3	SPP1
T_NK	TAM	0	MRT3	SPP1
B_Cell	TAM	0	MRT3	SPP1
Fibroblast	TAM	0	MRT3	SPP1
Endothelial_Cell	TAM	0	MRT3	SPP1
Endothelial_Progenitor	TAM	0	MRT3	SPP1
MRT1	Monocyte	0	MRT3	SPP1
MRT3	Monocyte	0	MRT3	SPP1

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT3	SPP1
Monocyte	Monocyte	0	MRT3	SPP1
T_NK	Monocyte	0	MRT3	SPP1
B_Cell	Monocyte	0	MRT3	SPP1
Fibroblast	Monocyte	0	MRT3	SPP1
Endothelial_Cell	Monocyte	0	MRT3	SPP1
Endothelial_Progenitor	Monocyte	0	MRT3	SPP1
MRT1	T_NK	0	MRT3	SPP1
MRT3	T_NK	0	MRT3	SPP1
TAM	T_NK	0.2420204928	MRT3	SPP1
Monocyte	T_NK	0	MRT3	SPP1
T_NK	T_NK	0	MRT3	SPP1
B_Cell	T_NK	0	MRT3	SPP1
Fibroblast	T_NK	0	MRT3	SPP1
Endothelial_Cell	T_NK	0	MRT3	SPP1
Endothelial_Progenitor	T_NK	0	MRT3	SPP1
MRT1	B_Cell	0	MRT3	SPP1
MRT3	B_Cell	0	MRT3	SPP1
TAM	B_Cell	0	MRT3	SPP1
Monocyte	B_Cell	0	MRT3	SPP1
T_NK	B_Cell	0	MRT3	SPP1
B_Cell	B_Cell	0	MRT3	SPP1
Fibroblast	B_Cell	0	MRT3	SPP1
Endothelial_Cell	B_Cell	0	MRT3	SPP1
Endothelial_Progenitor	B_Cell	0	MRT3	SPP1
MRT1	Fibroblast	0	MRT3	SPP1
MRT3	Fibroblast	0	MRT3	SPP1
TAM	Fibroblast	0.3002772823	MRT3	SPP1
Monocyte	Fibroblast	0	MRT3	SPP1
T_NK	Fibroblast	0	MRT3	SPP1

Source	Target	Probability	Sample	Pathway
B_Cell	Fibroblast	0	MRT3	SPP1
Fibroblast	Fibroblast	0	MRT3	SPP1
Endothelial_Cell	Fibroblast	0	MRT3	SPP1
Endothelial_Progenitor	Fibroblast	0	MRT3	SPP1
MRT1	Endothelial_Cell	0	MRT3	SPP1
MRT3	Endothelial_Cell	0	MRT3	SPP1
TAM	Endothelial_Cell	0.3631551191	MRT3	SPP1
Monocyte	Endothelial_Cell	0	MRT3	SPP1
T_NK	Endothelial_Cell	0	MRT3	SPP1
B_Cell	Endothelial_Cell	0	MRT3	SPP1
Fibroblast	Endothelial_Cell	0	MRT3	SPP1
Endothelial_Cell	Endothelial_Cell	0	MRT3	SPP1
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	SPP1
MRT1	Endothelial_Progenitor	0	MRT3	SPP1
MRT3	Endothelial_Progenitor	0	MRT3	SPP1
TAM	Endothelial_Progenitor	0	MRT3	SPP1
Monocyte	Endothelial_Progenitor	0	MRT3	SPP1
T_NK	Endothelial_Progenitor	0	MRT3	SPP1
B_Cell	Endothelial_Progenitor	0	MRT3	SPP1
Fibroblast	Endothelial_Progenitor	0	MRT3	SPP1
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	SPP1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	SPP1
MRT1	MRT1	0	MRT3	PTPRM
MRT3	MRT1	0	MRT3	PTPRM
TAM	MRT1	0	MRT3	PTPRM
Monocyte	MRT1	0	MRT3	PTPRM
T_NK	MRT1	0	MRT3	PTPRM
B_Cell	MRT1	0	MRT3	PTPRM
Fibroblast	MRT1	0	MRT3	PTPRM
Endothelial_Cell	MRT1	0	MRT3	PTPRM

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT1	0	MRT3	PTPRM
MRT1	MRT3	0	MRT3	PTPRM
MRT3	MRT3	0	MRT3	PTPRM
TAM	MRT3	0	MRT3	PTPRM
Monocyte	MRT3	0	MRT3	PTPRM
T_NK	MRT3	0	MRT3	PTPRM
B_Cell	MRT3	0	MRT3	PTPRM
Fibroblast	MRT3	0	MRT3	PTPRM
Endothelial_Cell	MRT3	0	MRT3	PTPRM
Endothelial_Progenitor	MRT3	0	MRT3	PTPRM
MRT1	TAM	0	MRT3	PTPRM
MRT3	TAM	0	MRT3	PTPRM
TAM	TAM	0.004224219467	MRT3	PTPRM
Monocyte	TAM	0	MRT3	PTPRM
T_NK	TAM	0	MRT3	PTPRM
B_Cell	TAM	0	MRT3	PTPRM
Fibroblast	TAM	0.009503931476	MRT3	PTPRM
Endothelial_Cell	TAM	0.0232408443	MRT3	PTPRM
Endothelial_Progenitor	TAM	0	MRT3	PTPRM
MRT1	Monocyte	0	MRT3	PTPRM
MRT3	Monocyte	0	MRT3	PTPRM
TAM	Monocyte	0	MRT3	PTPRM
Monocyte	Monocyte	0	MRT3	PTPRM
T_NK	Monocyte	0	MRT3	PTPRM
B_Cell	Monocyte	0	MRT3	PTPRM
Fibroblast	Monocyte	0	MRT3	PTPRM
Endothelial_Cell	Monocyte	0	MRT3	PTPRM
Endothelial_Progenitor	Monocyte	0	MRT3	PTPRM
MRT1	T_NK	0	MRT3	PTPRM
MRT3	T_NK	0	MRT3	PTPRM

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT3	PTPRM
Monocyte	T_NK	0	MRT3	PTPRM
T_NK	T_NK	0	MRT3	PTPRM
B_Cell	T_NK	0	MRT3	PTPRM
Fibroblast	T_NK	0	MRT3	PTPRM
Endothelial_Cell	T_NK	0	MRT3	PTPRM
Endothelial_Progenitor	T_NK	0	MRT3	PTPRM
MRT1	B_Cell	0	MRT3	PTPRM
MRT3	B_Cell	0	MRT3	PTPRM
TAM	B_Cell	0	MRT3	PTPRM
Monocyte	B_Cell	0	MRT3	PTPRM
T_NK	B_Cell	0	MRT3	PTPRM
B_Cell	B_Cell	0	MRT3	PTPRM
Fibroblast	B_Cell	0	MRT3	PTPRM
Endothelial_Cell	B_Cell	0	MRT3	PTPRM
Endothelial_Progenitor	B_Cell	0	MRT3	PTPRM
MRT1	Fibroblast	0	MRT3	PTPRM
MRT3	Fibroblast	0	MRT3	PTPRM
TAM	Fibroblast	0.009503931476	MRT3	PTPRM
Monocyte	Fibroblast	0	MRT3	PTPRM
T_NK	Fibroblast	0	MRT3	PTPRM
B_Cell	Fibroblast	0	MRT3	PTPRM
Fibroblast	Fibroblast	0.02124181264	MRT3	PTPRM
Endothelial_Cell	Fibroblast	0.05106981644	MRT3	PTPRM
Endothelial_Progenitor	Fibroblast	0	MRT3	PTPRM
MRT1	Endothelial_Cell	0	MRT3	PTPRM
MRT3	Endothelial_Cell	0	MRT3	PTPRM
TAM	Endothelial_Cell	0.0232408443	MRT3	PTPRM
Monocyte	Endothelial_Cell	0	MRT3	PTPRM
T_NK	Endothelial_Cell	0	MRT3	PTPRM

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Cell	0	MRT3	PTPRM
Fibroblast	Endothelial_Cell	0.05106981644	MRT3	PTPRM
Endothelial_Cell	Endothelial_Cell	0.1177439381	MRT3	PTPRM
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	PTPRM
MRT1	Endothelial_Progenitor	0	MRT3	PTPRM
MRT3	Endothelial_Progenitor	0	MRT3	PTPRM
TAM	Endothelial_Progenitor	0	MRT3	PTPRM
Monocyte	Endothelial_Progenitor	0	MRT3	PTPRM
T_NK	Endothelial_Progenitor	0	MRT3	PTPRM
B_Cell	Endothelial_Progenitor	0	MRT3	PTPRM
Fibroblast	Endothelial_Progenitor	0	MRT3	PTPRM
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	PTPRM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	PTPRM
MRT1	MRT1	0	MRT3	APP
MRT3	MRT1	0	MRT3	APP
TAM	MRT1	0	MRT3	APP
Monocyte	MRT1	0	MRT3	APP
T_NK	MRT1	0	MRT3	APP
B_Cell	MRT1	0	MRT3	APP
Fibroblast	MRT1	0	MRT3	APP
Endothelial_Cell	MRT1	0	MRT3	APP
Endothelial_Progenitor	MRT1	0	MRT3	APP
MRT1	MRT3	0	MRT3	APP
MRT3	MRT3	0	MRT3	APP
TAM	MRT3	0	MRT3	APP
Monocyte	MRT3	0	MRT3	APP
T_NK	MRT3	0	MRT3	APP
B_Cell	MRT3	0	MRT3	APP
Fibroblast	MRT3	0	MRT3	APP
Endothelial_Cell	MRT3	0	MRT3	APP

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT3	0	MRT3	APP
MRT1	TAM	0	MRT3	APP
MRT3	TAM	0.06865141116	MRT3	APP
TAM	TAM	0.04004453563	MRT3	APP
Monocyte	TAM	0	MRT3	APP
T_NK	TAM	0.04633911593	MRT3	APP
B_Cell	TAM	0	MRT3	APP
Fibroblast	TAM	0.04265670052	MRT3	APP
Endothelial_Cell	TAM	0.1048209662	MRT3	APP
Endothelial_Progenitor	TAM	0	MRT3	APP
MRT1	Monocyte	0	MRT3	APP
MRT3	Monocyte	0	MRT3	APP
TAM	Monocyte	0	MRT3	APP
Monocyte	Monocyte	0	MRT3	APP
T_NK	Monocyte	0	MRT3	APP
B_Cell	Monocyte	0	MRT3	APP
Fibroblast	Monocyte	0	MRT3	APP
Endothelial_Cell	Monocyte	0	MRT3	APP
Endothelial_Progenitor	Monocyte	0	MRT3	APP
MRT1	T_NK	0	MRT3	APP
MRT3	T_NK	0	MRT3	APP
TAM	T_NK	0	MRT3	APP
Monocyte	T_NK	0	MRT3	APP
T_NK	T_NK	0	MRT3	APP
B_Cell	T_NK	0	MRT3	APP
Fibroblast	T_NK	0	MRT3	APP
Endothelial_Cell	T_NK	0	MRT3	APP
Endothelial_Progenitor	T_NK	0	MRT3	APP
MRT1	B_Cell	0	MRT3	APP
MRT3	B_Cell	0	MRT3	APP

Source	Target	Probability	Sample	Pathway
TAM	B_Cell	0	MRT3	APP
Monocyte	B_Cell	0	MRT3	APP
T_NK	B_Cell	0	MRT3	APP
B_Cell	B_Cell	0	MRT3	APP
Fibroblast	B_Cell	0	MRT3	APP
Endothelial_Cell	B_Cell	0	MRT3	APP
Endothelial_Progenitor	B_Cell	0	MRT3	APP
MRT1	Fibroblast	0	MRT3	APP
MRT3	Fibroblast	0	MRT3	APP
TAM	Fibroblast	0	MRT3	APP
Monocyte	Fibroblast	0	MRT3	APP
T_NK	Fibroblast	0	MRT3	APP
B_Cell	Fibroblast	0	MRT3	APP
Fibroblast	Fibroblast	0	MRT3	APP
Endothelial_Cell	Fibroblast	0	MRT3	APP
Endothelial_Progenitor	Fibroblast	0	MRT3	APP
MRT1	Endothelial_Cell	0	MRT3	APP
MRT3	Endothelial_Cell	0	MRT3	APP
TAM	Endothelial_Cell	0	MRT3	APP
Monocyte	Endothelial_Cell	0	MRT3	APP
T_NK	Endothelial_Cell	0	MRT3	APP
B_Cell	Endothelial_Cell	0	MRT3	APP
Fibroblast	Endothelial_Cell	0	MRT3	APP
Endothelial_Cell	Endothelial_Cell	0	MRT3	APP
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	APP
MRT1	Endothelial_Progenitor	0	MRT3	APP
MRT3	Endothelial_Progenitor	0	MRT3	APP
TAM	Endothelial_Progenitor	0	MRT3	APP
Monocyte	Endothelial_Progenitor	0	MRT3	APP
T_NK	Endothelial_Progenitor	0	MRT3	APP

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Progenitor	0	MRT3	APP
Fibroblast	Endothelial_Progenitor	0	MRT3	APP
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	APP
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	APP
MRT1	MRT1	0	MRT3	CD99
MRT3	MRT1	0	MRT3	CD99
TAM	MRT1	0	MRT3	CD99
Monocyte	MRT1	0	MRT3	CD99
T_NK	MRT1	0	MRT3	CD99
B_Cell	MRT1	0	MRT3	CD99
Fibroblast	MRT1	0	MRT3	CD99
Endothelial_Cell	MRT1	0	MRT3	CD99
Endothelial_Progenitor	MRT1	0	MRT3	CD99
MRT1	MRT3	0	MRT3	CD99
MRT3	MRT3	0	MRT3	CD99
TAM	MRT3	0	MRT3	CD99
Monocyte	MRT3	0	MRT3	CD99
T_NK	MRT3	0	MRT3	CD99
B_Cell	MRT3	0	MRT3	CD99
Fibroblast	MRT3	0	MRT3	CD99
Endothelial_Cell	MRT3	0.04523658723	MRT3	CD99
Endothelial_Progenitor	MRT3	0	MRT3	CD99
MRT1	TAM	0	MRT3	CD99
MRT3	TAM	0.006017419957	MRT3	CD99
TAM	TAM	0.00266934735	MRT3	CD99
Monocyte	TAM	0	MRT3	CD99
T_NK	TAM	0	MRT3	CD99
B_Cell	TAM	0	MRT3	CD99
Fibroblast	TAM	0.006017419957	MRT3	CD99
Endothelial_Cell	TAM	0.01304389474	MRT3	CD99

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	TAM	0	MRT3	CD99
MRT1	Monocyte	0	MRT3	CD99
MRT3	Monocyte	0	MRT3	CD99
TAM	Monocyte	0	MRT3	CD99
Monocyte	Monocyte	0	MRT3	CD99
T_NK	Monocyte	0	MRT3	CD99
B_Cell	Monocyte	0	MRT3	CD99
Fibroblast	Monocyte	0	MRT3	CD99
Endothelial_Cell	Monocyte	0	MRT3	CD99
Endothelial_Progenitor	Monocyte	0	MRT3	CD99
MRT1	T_NK	0	MRT3	CD99
MRT3	T_NK	0	MRT3	CD99
TAM	T_NK	0	MRT3	CD99
Monocyte	T_NK	0	MRT3	CD99
T_NK	T_NK	0	MRT3	CD99
B_Cell	T_NK	0	MRT3	CD99
Fibroblast	T_NK	0	MRT3	CD99
Endothelial_Cell	T_NK	0	MRT3	CD99
Endothelial_Progenitor	T_NK	0	MRT3	CD99
MRT1	B_Cell	0	MRT3	CD99
MRT3	B_Cell	0	MRT3	CD99
TAM	B_Cell	0	MRT3	CD99
Monocyte	B_Cell	0	MRT3	CD99
T_NK	B_Cell	0	MRT3	CD99
B_Cell	B_Cell	0	MRT3	CD99
Fibroblast	B_Cell	0	MRT3	CD99
Endothelial_Cell	B_Cell	0	MRT3	CD99
Endothelial_Progenitor	B_Cell	0	MRT3	CD99
MRT1	Fibroblast	0	MRT3	CD99
MRT3	Fibroblast	0	MRT3	CD99

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT3	CD99
Monocyte	Fibroblast	0	MRT3	CD99
T_NK	Fibroblast	0	MRT3	CD99
B_Cell	Fibroblast	0	MRT3	CD99
Fibroblast	Fibroblast	0	MRT3	CD99
Endothelial_Cell	Fibroblast	0.04523658723	MRT3	CD99
Endothelial_Progenitor	Fibroblast	0	MRT3	CD99
MRT1	Endothelial_Cell	0	MRT3	CD99
MRT3	Endothelial_Cell	0.04523658723	MRT3	CD99
TAM	Endothelial_Cell	0	MRT3	CD99
Monocyte	Endothelial_Cell	0	MRT3	CD99
T_NK	Endothelial_Cell	0	MRT3	CD99
B_Cell	Endothelial_Cell	0	MRT3	CD99
Fibroblast	Endothelial_Cell	0.04523658723	MRT3	CD99
Endothelial_Cell	Endothelial_Cell	0.09373996606	MRT3	CD99
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CD99
MRT1	Endothelial_Progenitor	0	MRT3	CD99
MRT3	Endothelial_Progenitor	0	MRT3	CD99
TAM	Endothelial_Progenitor	0	MRT3	CD99
Monocyte	Endothelial_Progenitor	0	MRT3	CD99
T_NK	Endothelial_Progenitor	0	MRT3	CD99
B_Cell	Endothelial_Progenitor	0	MRT3	CD99
Fibroblast	Endothelial_Progenitor	0	MRT3	CD99
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CD99
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CD99
MRT1	MRT1	0	MRT3	MK
MRT3	MRT1	0	MRT3	MK
TAM	MRT1	0	MRT3	MK
Monocyte	MRT1	0	MRT3	MK
T_NK	MRT1	0	MRT3	MK

Source	Target	Probability	Sample	Pathway
B_Cell	MRT1	0	MRT3	MK
Fibroblast	MRT1	0	MRT3	MK
Endothelial_Cell	MRT1	0	MRT3	MK
Endothelial_Progenitor	MRT1	0	MRT3	MK
MRT1	MRT3	0	MRT3	MK
MRT3	MRT3	0	MRT3	MK
TAM	MRT3	0	MRT3	MK
Monocyte	MRT3	0	MRT3	MK
T_NK	MRT3	0	MRT3	MK
B_Cell	MRT3	0	MRT3	MK
Fibroblast	MRT3	0	MRT3	MK
Endothelial_Cell	MRT3	0	MRT3	MK
Endothelial_Progenitor	MRT3	0	MRT3	MK
MRT1	TAM	0	MRT3	MK
MRT3	TAM	0.05908715182	MRT3	MK
TAM	TAM	0.01986166055	MRT3	MK
Monocyte	TAM	0	MRT3	MK
T_NK	TAM	0.04587591224	MRT3	MK
B_Cell	TAM	0	MRT3	MK
Fibroblast	TAM	0.02364287255	MRT3	MK
Endothelial_Cell	TAM	0.02364287255	MRT3	MK
Endothelial_Progenitor	TAM	0	MRT3	MK
MRT1	Monocyte	0	MRT3	MK
MRT3	Monocyte	0	MRT3	MK
TAM	Monocyte	0	MRT3	MK
Monocyte	Monocyte	0	MRT3	MK
T_NK	Monocyte	0	MRT3	MK
B_Cell	Monocyte	0	MRT3	MK
Fibroblast	Monocyte	0	MRT3	MK
Endothelial_Cell	Monocyte	0	MRT3	MK

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Monocyte	0	MRT3	MK
MRT1	T_NK	0	MRT3	MK
MRT3	T_NK	0.02525314396	MRT3	MK
TAM	T_NK	0.01183062188	MRT3	MK
Monocyte	T_NK	0	MRT3	MK
T_NK	T_NK	0.01956340497	MRT3	MK
B_Cell	T_NK	0	MRT3	MK
Fibroblast	T_NK	0.01410490774	MRT3	MK
Endothelial_Cell	T_NK	0.01410490774	MRT3	MK
Endothelial_Progenitor	T_NK	0	MRT3	MK
MRT1	B_Cell	0	MRT3	MK
MRT3	B_Cell	0	MRT3	MK
TAM	B_Cell	0	MRT3	MK
Monocyte	B_Cell	0	MRT3	MK
T_NK	B_Cell	0	MRT3	MK
B_Cell	B_Cell	0	MRT3	MK
Fibroblast	B_Cell	0	MRT3	MK
Endothelial_Cell	B_Cell	0	MRT3	MK
Endothelial_Progenitor	B_Cell	0	MRT3	MK
MRT1	Fibroblast	0	MRT3	MK
MRT3	Fibroblast	0	MRT3	MK
TAM	Fibroblast	0	MRT3	MK
Monocyte	Fibroblast	0	MRT3	MK
T_NK	Fibroblast	0	MRT3	MK
B_Cell	Fibroblast	0	MRT3	MK
Fibroblast	Fibroblast	0	MRT3	MK
Endothelial_Cell	Fibroblast	0	MRT3	MK
Endothelial_Progenitor	Fibroblast	0	MRT3	MK
MRT1	Endothelial_Cell	0	MRT3	MK
MRT3	Endothelial_Cell	0	MRT3	MK

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT3	MK
Monocyte	Endothelial_Cell	0	MRT3	MK
T_NK	Endothelial_Cell	0	MRT3	MK
B_Cell	Endothelial_Cell	0	MRT3	MK
Fibroblast	Endothelial_Cell	0	MRT3	MK
Endothelial_Cell	Endothelial_Cell	0	MRT3	MK
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	MK
MRT1	Endothelial_Progenitor	0	MRT3	MK
MRT3	Endothelial_Progenitor	0	MRT3	MK
TAM	Endothelial_Progenitor	0	MRT3	MK
Monocyte	Endothelial_Progenitor	0	MRT3	MK
T_NK	Endothelial_Progenitor	0	MRT3	MK
B_Cell	Endothelial_Progenitor	0	MRT3	MK
Fibroblast	Endothelial_Progenitor	0	MRT3	MK
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	MK
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	MK
MRT1	MRT1	0	MRT3	THBS
MRT3	MRT1	0	MRT3	THBS
TAM	MRT1	0	MRT3	THBS
Monocyte	MRT1	0	MRT3	THBS
T_NK	MRT1	0	MRT3	THBS
B_Cell	MRT1	0	MRT3	THBS
Fibroblast	MRT1	0	MRT3	THBS
Endothelial_Cell	MRT1	0	MRT3	THBS
Endothelial_Progenitor	MRT1	0	MRT3	THBS
MRT1	MRT3	0	MRT3	THBS
MRT3	MRT3	0	MRT3	THBS
TAM	MRT3	0	MRT3	THBS
Monocyte	MRT3	0	MRT3	THBS
T_NK	MRT3	0	MRT3	THBS

Source	Target	Probability	Sample	Pathway
B_Cell	MRT3	0	MRT3	THBS
Fibroblast	MRT3	0	MRT3	THBS
Endothelial_Cell	MRT3	0	MRT3	THBS
Endothelial_Progenitor	MRT3	0	MRT3	THBS
MRT1	TAM	0	MRT3	THBS
MRT3	TAM	0	MRT3	THBS
TAM	TAM	0.00266934735	MRT3	THBS
Monocyte	TAM	0	MRT3	THBS
T_NK	TAM	0	MRT3	THBS
B_Cell	TAM	0	MRT3	THBS
Fibroblast	TAM	0.008395224818	MRT3	THBS
Endothelial_Cell	TAM	0	MRT3	THBS
Endothelial_Progenitor	TAM	0	MRT3	THBS
MRT1	Monocyte	0	MRT3	THBS
MRT3	Monocyte	0	MRT3	THBS
TAM	Monocyte	0	MRT3	THBS
Monocyte	Monocyte	0	MRT3	THBS
T_NK	Monocyte	0	MRT3	THBS
B_Cell	Monocyte	0	MRT3	THBS
Fibroblast	Monocyte	0	MRT3	THBS
Endothelial_Cell	Monocyte	0	MRT3	THBS
Endothelial_Progenitor	Monocyte	0	MRT3	THBS
MRT1	T_NK	0	MRT3	THBS
MRT3	T_NK	0	MRT3	THBS
TAM	T_NK	0.01256649117	MRT3	THBS
Monocyte	T_NK	0	MRT3	THBS
T_NK	T_NK	0	MRT3	THBS
B_Cell	T_NK	0	MRT3	THBS
Fibroblast	T_NK	0.03908395952	MRT3	THBS
Endothelial_Cell	T_NK	0	MRT3	THBS

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	T_NK	0	MRT3	THBS
MRT1	B_Cell	0	MRT3	THBS
MRT3	B_Cell	0	MRT3	THBS
TAM	B_Cell	0	MRT3	THBS
Monocyte	B_Cell	0	MRT3	THBS
T_NK	B_Cell	0	MRT3	THBS
B_Cell	B_Cell	0	MRT3	THBS
Fibroblast	B_Cell	0	MRT3	THBS
Endothelial_Cell	B_Cell	0	MRT3	THBS
Endothelial_Progenitor	B_Cell	0	MRT3	THBS
MRT1	Fibroblast	0	MRT3	THBS
MRT3	Fibroblast	0	MRT3	THBS
TAM	Fibroblast	0	MRT3	THBS
Monocyte	Fibroblast	0	MRT3	THBS
T_NK	Fibroblast	0	MRT3	THBS
B_Cell	Fibroblast	0	MRT3	THBS
Fibroblast	Fibroblast	0	MRT3	THBS
Endothelial_Cell	Fibroblast	0	MRT3	THBS
Endothelial_Progenitor	Fibroblast	0	MRT3	THBS
MRT1	Endothelial_Cell	0	MRT3	THBS
MRT3	Endothelial_Cell	0	MRT3	THBS
TAM	Endothelial_Cell	0.02410543301	MRT3	THBS
Monocyte	Endothelial_Cell	0	MRT3	THBS
T_NK	Endothelial_Cell	0	MRT3	THBS
B_Cell	Endothelial_Cell	0	MRT3	THBS
Fibroblast	Endothelial_Cell	0.07402538407	MRT3	THBS
Endothelial_Cell	Endothelial_Cell	0	MRT3	THBS
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	THBS
MRT1	Endothelial_Progenitor	0	MRT3	THBS
MRT3	Endothelial_Progenitor	0	MRT3	THBS

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT3	THBS
Monocyte	Endothelial_Progenitor	0	MRT3	THBS
T_NK	Endothelial_Progenitor	0	MRT3	THBS
B_Cell	Endothelial_Progenitor	0	MRT3	THBS
Fibroblast	Endothelial_Progenitor	0	MRT3	THBS
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	THBS
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	THBS
MRT1	MRT1	0	MRT3	CD45
MRT3	MRT1	0	MRT3	CD45
TAM	MRT1	0	MRT3	CD45
Monocyte	MRT1	0	MRT3	CD45
T_NK	MRT1	0	MRT3	CD45
B_Cell	MRT1	0	MRT3	CD45
Fibroblast	MRT1	0	MRT3	CD45
Endothelial_Cell	MRT1	0	MRT3	CD45
Endothelial_Progenitor	MRT1	0	MRT3	CD45
MRT1	MRT3	0	MRT3	CD45
MRT3	MRT3	0	MRT3	CD45
TAM	MRT3	0	MRT3	CD45
Monocyte	MRT3	0	MRT3	CD45
T_NK	MRT3	0	MRT3	CD45
B_Cell	MRT3	0	MRT3	CD45
Fibroblast	MRT3	0	MRT3	CD45
Endothelial_Cell	MRT3	0	MRT3	CD45
Endothelial_Progenitor	MRT3	0	MRT3	CD45
MRT1	TAM	0	MRT3	CD45
MRT3	TAM	0	MRT3	CD45
TAM	TAM	0.008654781157	MRT3	CD45
Monocyte	TAM	0	MRT3	CD45
T_NK	TAM	0.0156849991	MRT3	CD45

Source	Target	Probability	Sample	Pathway
B_Cell	TAM	0	MRT3	CD45
Fibroblast	TAM	0	MRT3	CD45
Endothelial_Cell	TAM	0	MRT3	CD45
Endothelial_Progenitor	TAM	0	MRT3	CD45
MRT1	Monocyte	0	MRT3	CD45
MRT3	Monocyte	0	MRT3	CD45
TAM	Monocyte	0	MRT3	CD45
Monocyte	Monocyte	0	MRT3	CD45
T_NK	Monocyte	0	MRT3	CD45
B_Cell	Monocyte	0	MRT3	CD45
Fibroblast	Monocyte	0	MRT3	CD45
Endothelial_Cell	Monocyte	0	MRT3	CD45
Endothelial_Progenitor	Monocyte	0	MRT3	CD45
MRT1	T_NK	0	MRT3	CD45
MRT3	T_NK	0	MRT3	CD45
TAM	T_NK	0	MRT3	CD45
Monocyte	T_NK	0	MRT3	CD45
T_NK	T_NK	0	MRT3	CD45
B_Cell	T_NK	0	MRT3	CD45
Fibroblast	T_NK	0	MRT3	CD45
Endothelial_Cell	T_NK	0	MRT3	CD45
Endothelial_Progenitor	T_NK	0	MRT3	CD45
MRT1	B_Cell	0	MRT3	CD45
MRT3	B_Cell	0	MRT3	CD45
TAM	B_Cell	0	MRT3	CD45
Monocyte	B_Cell	0	MRT3	CD45
T_NK	B_Cell	0	MRT3	CD45
B_Cell	B_Cell	0	MRT3	CD45
Fibroblast	B_Cell	0	MRT3	CD45
Endothelial_Cell	B_Cell	0	MRT3	CD45

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	B_Cell	0	MRT3	CD45
MRT1	Fibroblast	0	MRT3	CD45
MRT3	Fibroblast	0	MRT3	CD45
TAM	Fibroblast	0	MRT3	CD45
Monocyte	Fibroblast	0	MRT3	CD45
T_NK	Fibroblast	0	MRT3	CD45
B_Cell	Fibroblast	0	MRT3	CD45
Fibroblast	Fibroblast	0	MRT3	CD45
Endothelial_Cell	Fibroblast	0	MRT3	CD45
Endothelial_Progenitor	Fibroblast	0	MRT3	CD45
MRT1	Endothelial_Cell	0	MRT3	CD45
MRT3	Endothelial_Cell	0	MRT3	CD45
TAM	Endothelial_Cell	0.04318599603	MRT3	CD45
Monocyte	Endothelial_Cell	0	MRT3	CD45
T_NK	Endothelial_Cell	0.07611213429	MRT3	CD45
B_Cell	Endothelial_Cell	0	MRT3	CD45
Fibroblast	Endothelial_Cell	0	MRT3	CD45
Endothelial_Cell	Endothelial_Cell	0	MRT3	CD45
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CD45
MRT1	Endothelial_Progenitor	0	MRT3	CD45
MRT3	Endothelial_Progenitor	0	MRT3	CD45
TAM	Endothelial_Progenitor	0	MRT3	CD45
Monocyte	Endothelial_Progenitor	0	MRT3	CD45
T_NK	Endothelial_Progenitor	0	MRT3	CD45
B_Cell	Endothelial_Progenitor	0	MRT3	CD45
Fibroblast	Endothelial_Progenitor	0	MRT3	CD45
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CD45
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CD45
MRT1	MRT1	0	MRT3	PERIOSTIN
MRT3	MRT1	0	MRT3	PERIOSTIN

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT3	PERIOSTIN
Monocyte	MRT1	0	MRT3	PERIOSTIN
T_NK	MRT1	0	MRT3	PERIOSTIN
B_Cell	MRT1	0	MRT3	PERIOSTIN
Fibroblast	MRT1	0	MRT3	PERIOSTIN
Endothelial_Cell	MRT1	0	MRT3	PERIOSTIN
Endothelial_Progenitor	MRT1	0	MRT3	PERIOSTIN
MRT1	MRT3	0	MRT3	PERIOSTIN
MRT3	MRT3	0	MRT3	PERIOSTIN
TAM	MRT3	0	MRT3	PERIOSTIN
Monocyte	MRT3	0	MRT3	PERIOSTIN
T_NK	MRT3	0	MRT3	PERIOSTIN
B_Cell	MRT3	0	MRT3	PERIOSTIN
Fibroblast	MRT3	0	MRT3	PERIOSTIN
Endothelial_Cell	MRT3	0	MRT3	PERIOSTIN
Endothelial_Progenitor	MRT3	0	MRT3	PERIOSTIN
MRT1	TAM	0	MRT3	PERIOSTIN
MRT3	TAM	0	MRT3	PERIOSTIN
TAM	TAM	0	MRT3	PERIOSTIN
Monocyte	TAM	0	MRT3	PERIOSTIN
T_NK	TAM	0	MRT3	PERIOSTIN
B_Cell	TAM	0	MRT3	PERIOSTIN
Fibroblast	TAM	0	MRT3	PERIOSTIN
Endothelial_Cell	TAM	0	MRT3	PERIOSTIN
Endothelial_Progenitor	TAM	0	MRT3	PERIOSTIN
MRT1	Monocyte	0	MRT3	PERIOSTIN
MRT3	Monocyte	0	MRT3	PERIOSTIN
TAM	Monocyte	0	MRT3	PERIOSTIN
Monocyte	Monocyte	0	MRT3	PERIOSTIN
T_NK	Monocyte	0	MRT3	PERIOSTIN

Source	Target	Probability	Sample	Pathway
B_Cell	Monocyte	0	MRT3	PERIOSTIN
Fibroblast	Monocyte	0	MRT3	PERIOSTIN
Endothelial_Cell	Monocyte	0	MRT3	PERIOSTIN
Endothelial_Progenitor	Monocyte	0	MRT3	PERIOSTIN
MRT1	T_NK	0	MRT3	PERIOSTIN
MRT3	T_NK	0	MRT3	PERIOSTIN
TAM	T_NK	0	MRT3	PERIOSTIN
Monocyte	T_NK	0	MRT3	PERIOSTIN
T_NK	T_NK	0	MRT3	PERIOSTIN
B_Cell	T_NK	0	MRT3	PERIOSTIN
Fibroblast	T_NK	0	MRT3	PERIOSTIN
Endothelial_Cell	T_NK	0	MRT3	PERIOSTIN
Endothelial_Progenitor	T_NK	0	MRT3	PERIOSTIN
MRT1	B_Cell	0	MRT3	PERIOSTIN
MRT3	B_Cell	0	MRT3	PERIOSTIN
TAM	B_Cell	0	MRT3	PERIOSTIN
Monocyte	B_Cell	0	MRT3	PERIOSTIN
T_NK	B_Cell	0	MRT3	PERIOSTIN
B_Cell	B_Cell	0	MRT3	PERIOSTIN
Fibroblast	B_Cell	0	MRT3	PERIOSTIN
Endothelial_Cell	B_Cell	0	MRT3	PERIOSTIN
Endothelial_Progenitor	B_Cell	0	MRT3	PERIOSTIN
MRT1	Fibroblast	0	MRT3	PERIOSTIN
MRT3	Fibroblast	0.01794954539	MRT3	PERIOSTIN
TAM	Fibroblast	0.01611712887	MRT3	PERIOSTIN
Monocyte	Fibroblast	0	MRT3	PERIOSTIN
T_NK	Fibroblast	0.02741984221	MRT3	PERIOSTIN
B_Cell	Fibroblast	0	MRT3	PERIOSTIN
Fibroblast	Fibroblast	0.06417266281	MRT3	PERIOSTIN
Endothelial_Cell	Fibroblast	0.01611712887	MRT3	PERIOSTIN

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Fibroblast	0	MRT3	PERIOSTIN
MRT1	Endothelial_Cell	0	MRT3	PERIOSTIN
MRT3	Endothelial_Cell	0	MRT3	PERIOSTIN
TAM	Endothelial_Cell	0	MRT3	PERIOSTIN
Monocyte	Endothelial_Cell	0	MRT3	PERIOSTIN
T_NK	Endothelial_Cell	0	MRT3	PERIOSTIN
B_Cell	Endothelial_Cell	0	MRT3	PERIOSTIN
Fibroblast	Endothelial_Cell	0	MRT3	PERIOSTIN
Endothelial_Cell	Endothelial_Cell	0	MRT3	PERIOSTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	PERIOSTIN
MRT1	Endothelial_Progenitor	0	MRT3	PERIOSTIN
MRT3	Endothelial_Progenitor	0	MRT3	PERIOSTIN
TAM	Endothelial_Progenitor	0	MRT3	PERIOSTIN
Monocyte	Endothelial_Progenitor	0	MRT3	PERIOSTIN
T_NK	Endothelial_Progenitor	0	MRT3	PERIOSTIN
B_Cell	Endothelial_Progenitor	0	MRT3	PERIOSTIN
Fibroblast	Endothelial_Progenitor	0	MRT3	PERIOSTIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	PERIOSTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	PERIOSTIN
MRT1	MRT1	0	MRT3	CDH
MRT3	MRT1	0	MRT3	CDH
TAM	MRT1	0	MRT3	CDH
Monocyte	MRT1	0	MRT3	CDH
T_NK	MRT1	0	MRT3	CDH
B_Cell	MRT1	0	MRT3	CDH
Fibroblast	MRT1	0	MRT3	CDH
Endothelial_Cell	MRT1	0	MRT3	CDH
Endothelial_Progenitor	MRT1	0	MRT3	CDH
MRT1	MRT3	0	MRT3	CDH
MRT3	MRT3	0.1120359453	MRT3	CDH

Source	Target	Probability	Sample	Pathway
TAM	MRT3	0	MRT3	CDH
Monocyte	MRT3	0	MRT3	CDH
T_NK	MRT3	0	MRT3	CDH
B_Cell	MRT3	0	MRT3	CDH
Fibroblast	MRT3	0	MRT3	CDH
Endothelial_Cell	MRT3	0	MRT3	CDH
Endothelial_Progenitor	MRT3	0	MRT3	CDH
MRT1	TAM	0	MRT3	CDH
MRT3	TAM	0	MRT3	CDH
TAM	TAM	0	MRT3	CDH
Monocyte	TAM	0	MRT3	CDH
T_NK	TAM	0	MRT3	CDH
B_Cell	TAM	0	MRT3	CDH
Fibroblast	TAM	0	MRT3	CDH
Endothelial_Cell	TAM	0	MRT3	CDH
Endothelial_Progenitor	TAM	0	MRT3	CDH
MRT1	Monocyte	0	MRT3	CDH
MRT3	Monocyte	0	MRT3	CDH
TAM	Monocyte	0	MRT3	CDH
Monocyte	Monocyte	0	MRT3	CDH
T_NK	Monocyte	0	MRT3	CDH
B_Cell	Monocyte	0	MRT3	CDH
Fibroblast	Monocyte	0	MRT3	CDH
Endothelial_Cell	Monocyte	0	MRT3	CDH
Endothelial_Progenitor	Monocyte	0	MRT3	CDH
MRT1	T_NK	0	MRT3	CDH
MRT3	T_NK	0	MRT3	CDH
TAM	T_NK	0	MRT3	CDH
Monocyte	T_NK	0	MRT3	CDH
T_NK	T_NK	0	MRT3	CDH

Source	Target	Probability	Sample	Pathway
B_Cell	T_NK	0	MRT3	CDH
Fibroblast	T_NK	0	MRT3	CDH
Endothelial_Cell	T_NK	0	MRT3	CDH
Endothelial_Progenitor	T_NK	0	MRT3	CDH
MRT1	B_Cell	0	MRT3	CDH
MRT3	B_Cell	0	MRT3	CDH
TAM	B_Cell	0	MRT3	CDH
Monocyte	B_Cell	0	MRT3	CDH
T_NK	B_Cell	0	MRT3	CDH
B_Cell	B_Cell	0	MRT3	CDH
Fibroblast	B_Cell	0	MRT3	CDH
Endothelial_Cell	B_Cell	0	MRT3	CDH
Endothelial_Progenitor	B_Cell	0	MRT3	CDH
MRT1	Fibroblast	0	MRT3	CDH
MRT3	Fibroblast	0	MRT3	CDH
TAM	Fibroblast	0	MRT3	CDH
Monocyte	Fibroblast	0	MRT3	CDH
T_NK	Fibroblast	0	MRT3	CDH
B_Cell	Fibroblast	0	MRT3	CDH
Fibroblast	Fibroblast	0	MRT3	CDH
Endothelial_Cell	Fibroblast	0	MRT3	CDH
Endothelial_Progenitor	Fibroblast	0	MRT3	CDH
MRT1	Endothelial_Cell	0	MRT3	CDH
MRT3	Endothelial_Cell	0	MRT3	CDH
TAM	Endothelial_Cell	0	MRT3	CDH
Monocyte	Endothelial_Cell	0	MRT3	CDH
T_NK	Endothelial_Cell	0	MRT3	CDH
B_Cell	Endothelial_Cell	0	MRT3	CDH
Fibroblast	Endothelial_Cell	0	MRT3	CDH
Endothelial_Cell	Endothelial_Cell	0	MRT3	CDH

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CDH
MRT1	Endothelial_Progenitor	0	MRT3	CDH
MRT3	Endothelial_Progenitor	0	MRT3	CDH
TAM	Endothelial_Progenitor	0	MRT3	CDH
Monocyte	Endothelial_Progenitor	0	MRT3	CDH
T_NK	Endothelial_Progenitor	0	MRT3	CDH
B_Cell	Endothelial_Progenitor	0	MRT3	CDH
Fibroblast	Endothelial_Progenitor	0	MRT3	CDH
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CDH
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CDH
MRT1	MRT1	0	MRT3	NRXN
MRT3	MRT1	0	MRT3	NRXN
TAM	MRT1	0	MRT3	NRXN
Monocyte	MRT1	0	MRT3	NRXN
T_NK	MRT1	0	MRT3	NRXN
B_Cell	MRT1	0	MRT3	NRXN
Fibroblast	MRT1	0	MRT3	NRXN
Endothelial_Cell	MRT1	0	MRT3	NRXN
Endothelial_Progenitor	MRT1	0	MRT3	NRXN
MRT1	MRT3	0	MRT3	NRXN
MRT3	MRT3	0.1105859608	MRT3	NRXN
TAM	MRT3	0	MRT3	NRXN
Monocyte	MRT3	0	MRT3	NRXN
T_NK	MRT3	0	MRT3	NRXN
B_Cell	MRT3	0	MRT3	NRXN
Fibroblast	MRT3	0	MRT3	NRXN
Endothelial_Cell	MRT3	0	MRT3	NRXN
Endothelial_Progenitor	MRT3	0	MRT3	NRXN
MRT1	TAM	0	MRT3	NRXN
MRT3	TAM	0	MRT3	NRXN

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT3	NRXN
Monocyte	TAM	0	MRT3	NRXN
T_NK	TAM	0	MRT3	NRXN
B_Cell	TAM	0	MRT3	NRXN
Fibroblast	TAM	0	MRT3	NRXN
Endothelial_Cell	TAM	0	MRT3	NRXN
Endothelial_Progenitor	TAM	0	MRT3	NRXN
MRT1	Monocyte	0	MRT3	NRXN
MRT3	Monocyte	0	MRT3	NRXN
TAM	Monocyte	0	MRT3	NRXN
Monocyte	Monocyte	0	MRT3	NRXN
T_NK	Monocyte	0	MRT3	NRXN
B_Cell	Monocyte	0	MRT3	NRXN
Fibroblast	Monocyte	0	MRT3	NRXN
Endothelial_Cell	Monocyte	0	MRT3	NRXN
Endothelial_Progenitor	Monocyte	0	MRT3	NRXN
MRT1	T_NK	0	MRT3	NRXN
MRT3	T_NK	0	MRT3	NRXN
TAM	T_NK	0	MRT3	NRXN
Monocyte	T_NK	0	MRT3	NRXN
T_NK	T_NK	0	MRT3	NRXN
B_Cell	T_NK	0	MRT3	NRXN
Fibroblast	T_NK	0	MRT3	NRXN
Endothelial_Cell	T_NK	0	MRT3	NRXN
Endothelial_Progenitor	T_NK	0	MRT3	NRXN
MRT1	B_Cell	0	MRT3	NRXN
MRT3	B_Cell	0	MRT3	NRXN
TAM	B_Cell	0	MRT3	NRXN
Monocyte	B_Cell	0	MRT3	NRXN
T_NK	B_Cell	0	MRT3	NRXN

Source	Target	Probability	Sample	Pathway
B_Cell	B_Cell	0	MRT3	NRXN
Fibroblast	B_Cell	0	MRT3	NRXN
Endothelial_Cell	B_Cell	0	MRT3	NRXN
Endothelial_Progenitor	B_Cell	0	MRT3	NRXN
MRT1	Fibroblast	0	MRT3	NRXN
MRT3	Fibroblast	0	MRT3	NRXN
TAM	Fibroblast	0	MRT3	NRXN
Monocyte	Fibroblast	0	MRT3	NRXN
T_NK	Fibroblast	0	MRT3	NRXN
B_Cell	Fibroblast	0	MRT3	NRXN
Fibroblast	Fibroblast	0	MRT3	NRXN
Endothelial_Cell	Fibroblast	0	MRT3	NRXN
Endothelial_Progenitor	Fibroblast	0	MRT3	NRXN
MRT1	Endothelial_Cell	0	MRT3	NRXN
MRT3	Endothelial_Cell	0	MRT3	NRXN
TAM	Endothelial_Cell	0	MRT3	NRXN
Monocyte	Endothelial_Cell	0	MRT3	NRXN
T_NK	Endothelial_Cell	0	MRT3	NRXN
B_Cell	Endothelial_Cell	0	MRT3	NRXN
Fibroblast	Endothelial_Cell	0	MRT3	NRXN
Endothelial_Cell	Endothelial_Cell	0	MRT3	NRXN
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	NRXN
MRT1	Endothelial_Progenitor	0	MRT3	NRXN
MRT3	Endothelial_Progenitor	0	MRT3	NRXN
TAM	Endothelial_Progenitor	0	MRT3	NRXN
Monocyte	Endothelial_Progenitor	0	MRT3	NRXN
T_NK	Endothelial_Progenitor	0	MRT3	NRXN
B_Cell	Endothelial_Progenitor	0	MRT3	NRXN
Fibroblast	Endothelial_Progenitor	0	MRT3	NRXN
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	NRXN

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	NRXN
MRT1	MRT1	0	MRT3	VEGF
MRT3	MRT1	0	MRT3	VEGF
TAM	MRT1	0	MRT3	VEGF
Monocyte	MRT1	0	MRT3	VEGF
T_NK	MRT1	0	MRT3	VEGF
B_Cell	MRT1	0	MRT3	VEGF
Fibroblast	MRT1	0	MRT3	VEGF
Endothelial_Cell	MRT1	0	MRT3	VEGF
Endothelial_Progenitor	MRT1	0	MRT3	VEGF
MRT1	MRT3	0	MRT3	VEGF
MRT3	MRT3	0	MRT3	VEGF
TAM	MRT3	0	MRT3	VEGF
Monocyte	MRT3	0	MRT3	VEGF
T_NK	MRT3	0	MRT3	VEGF
B_Cell	MRT3	0	MRT3	VEGF
Fibroblast	MRT3	0	MRT3	VEGF
Endothelial_Cell	MRT3	0	MRT3	VEGF
Endothelial_Progenitor	MRT3	0	MRT3	VEGF
MRT1	TAM	0	MRT3	VEGF
MRT3	TAM	0	MRT3	VEGF
TAM	TAM	0	MRT3	VEGF
Monocyte	TAM	0	MRT3	VEGF
T_NK	TAM	0	MRT3	VEGF
B_Cell	TAM	0	MRT3	VEGF
Fibroblast	TAM	0	MRT3	VEGF
Endothelial_Cell	TAM	0	MRT3	VEGF
Endothelial_Progenitor	TAM	0	MRT3	VEGF
MRT1	Monocyte	0	MRT3	VEGF
MRT3	Monocyte	0	MRT3	VEGF

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT3	VEGF
Monocyte	Monocyte	0	MRT3	VEGF
T_NK	Monocyte	0	MRT3	VEGF
B_Cell	Monocyte	0	MRT3	VEGF
Fibroblast	Monocyte	0	MRT3	VEGF
Endothelial_Cell	Monocyte	0	MRT3	VEGF
Endothelial_Progenitor	Monocyte	0	MRT3	VEGF
MRT1	T_NK	0	MRT3	VEGF
MRT3	T_NK	0	MRT3	VEGF
TAM	T_NK	0	MRT3	VEGF
Monocyte	T_NK	0	MRT3	VEGF
T_NK	T_NK	0	MRT3	VEGF
B_Cell	T_NK	0	MRT3	VEGF
Fibroblast	T_NK	0	MRT3	VEGF
Endothelial_Cell	T_NK	0	MRT3	VEGF
Endothelial_Progenitor	T_NK	0	MRT3	VEGF
MRT1	B_Cell	0	MRT3	VEGF
MRT3	B_Cell	0	MRT3	VEGF
TAM	B_Cell	0	MRT3	VEGF
Monocyte	B_Cell	0	MRT3	VEGF
T_NK	B_Cell	0	MRT3	VEGF
B_Cell	B_Cell	0	MRT3	VEGF
Fibroblast	B_Cell	0	MRT3	VEGF
Endothelial_Cell	B_Cell	0	MRT3	VEGF
Endothelial_Progenitor	B_Cell	0	MRT3	VEGF
MRT1	Fibroblast	0	MRT3	VEGF
MRT3	Fibroblast	0	MRT3	VEGF
TAM	Fibroblast	0	MRT3	VEGF
Monocyte	Fibroblast	0	MRT3	VEGF
T_NK	Fibroblast	0	MRT3	VEGF

Source	Target	Probability	Sample	Pathway
B_Cell	Fibroblast	0	MRT3	VEGF
Fibroblast	Fibroblast	0	MRT3	VEGF
Endothelial_Cell	Fibroblast	0	MRT3	VEGF
Endothelial_Progenitor	Fibroblast	0	MRT3	VEGF
MRT1	Endothelial_Cell	0	MRT3	VEGF
MRT3	Endothelial_Cell	0.04104731592	MRT3	VEGF
TAM	Endothelial_Cell	0.008102513725	MRT3	VEGF
Monocyte	Endothelial_Cell	0	MRT3	VEGF
T_NK	Endothelial_Cell	0	MRT3	VEGF
B_Cell	Endothelial_Cell	0	MRT3	VEGF
Fibroblast	Endothelial_Cell	0.04914982964	MRT3	VEGF
Endothelial_Cell	Endothelial_Cell	0	MRT3	VEGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	VEGF
MRT1	Endothelial_Progenitor	0	MRT3	VEGF
MRT3	Endothelial_Progenitor	0	MRT3	VEGF
TAM	Endothelial_Progenitor	0	MRT3	VEGF
Monocyte	Endothelial_Progenitor	0	MRT3	VEGF
T_NK	Endothelial_Progenitor	0	MRT3	VEGF
B_Cell	Endothelial_Progenitor	0	MRT3	VEGF
Fibroblast	Endothelial_Progenitor	0	MRT3	VEGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	VEGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	VEGF
MRT1	MRT1	0	MRT3	VISFATIN
MRT3	MRT1	0	MRT3	VISFATIN
TAM	MRT1	0	MRT3	VISFATIN
Monocyte	MRT1	0	MRT3	VISFATIN
T_NK	MRT1	0	MRT3	VISFATIN
B_Cell	MRT1	0	MRT3	VISFATIN
Fibroblast	MRT1	0	MRT3	VISFATIN
Endothelial_Cell	MRT1	0	MRT3	VISFATIN

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT1	0	MRT3	VISFATIN
MRT1	MRT3	0	MRT3	VISFATIN
MRT3	MRT3	0	MRT3	VISFATIN
TAM	MRT3	0.01168265067	MRT3	VISFATIN
Monocyte	MRT3	0	MRT3	VISFATIN
T_NK	MRT3	0	MRT3	VISFATIN
B_Cell	MRT3	0	MRT3	VISFATIN
Fibroblast	MRT3	0	MRT3	VISFATIN
Endothelial_Cell	MRT3	0	MRT3	VISFATIN
Endothelial_Progenitor	MRT3	0	MRT3	VISFATIN
MRT1	TAM	0	MRT3	VISFATIN
MRT3	TAM	0	MRT3	VISFATIN
TAM	TAM	0	MRT3	VISFATIN
Monocyte	TAM	0	MRT3	VISFATIN
T_NK	TAM	0	MRT3	VISFATIN
B_Cell	TAM	0	MRT3	VISFATIN
Fibroblast	TAM	0	MRT3	VISFATIN
Endothelial_Cell	TAM	0	MRT3	VISFATIN
Endothelial_Progenitor	TAM	0	MRT3	VISFATIN
MRT1	Monocyte	0	MRT3	VISFATIN
MRT3	Monocyte	0	MRT3	VISFATIN
TAM	Monocyte	0	MRT3	VISFATIN
Monocyte	Monocyte	0	MRT3	VISFATIN
T_NK	Monocyte	0	MRT3	VISFATIN
B_Cell	Monocyte	0	MRT3	VISFATIN
Fibroblast	Monocyte	0	MRT3	VISFATIN
Endothelial_Cell	Monocyte	0	MRT3	VISFATIN
Endothelial_Progenitor	Monocyte	0	MRT3	VISFATIN
MRT1	T_NK	0	MRT3	VISFATIN
MRT3	T_NK	0	MRT3	VISFATIN

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT3	VISFATIN
Monocyte	T_NK	0	MRT3	VISFATIN
T_NK	T_NK	0	MRT3	VISFATIN
B_Cell	T_NK	0	MRT3	VISFATIN
Fibroblast	T_NK	0	MRT3	VISFATIN
Endothelial_Cell	T_NK	0	MRT3	VISFATIN
Endothelial_Progenitor	T_NK	0	MRT3	VISFATIN
MRT1	B_Cell	0	MRT3	VISFATIN
MRT3	B_Cell	0	MRT3	VISFATIN
TAM	B_Cell	0	MRT3	VISFATIN
Monocyte	B_Cell	0	MRT3	VISFATIN
T_NK	B_Cell	0	MRT3	VISFATIN
B_Cell	B_Cell	0	MRT3	VISFATIN
Fibroblast	B_Cell	0	MRT3	VISFATIN
Endothelial_Cell	B_Cell	0	MRT3	VISFATIN
Endothelial_Progenitor	B_Cell	0	MRT3	VISFATIN
MRT1	Fibroblast	0	MRT3	VISFATIN
MRT3	Fibroblast	0	MRT3	VISFATIN
TAM	Fibroblast	0.03876128721	MRT3	VISFATIN
Monocyte	Fibroblast	0	MRT3	VISFATIN
T_NK	Fibroblast	0	MRT3	VISFATIN
B_Cell	Fibroblast	0	MRT3	VISFATIN
Fibroblast	Fibroblast	0	MRT3	VISFATIN
Endothelial_Cell	Fibroblast	0	MRT3	VISFATIN
Endothelial_Progenitor	Fibroblast	0	MRT3	VISFATIN
MRT1	Endothelial_Cell	0	MRT3	VISFATIN
MRT3	Endothelial_Cell	0	MRT3	VISFATIN
TAM	Endothelial_Cell	0.04762813949	MRT3	VISFATIN
Monocyte	Endothelial_Cell	0	MRT3	VISFATIN
T_NK	Endothelial_Cell	0	MRT3	VISFATIN

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Cell	0	MRT3	VISFATIN
Fibroblast	Endothelial_Cell	0	MRT3	VISFATIN
Endothelial_Cell	Endothelial_Cell	0	MRT3	VISFATIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	VISFATIN
MRT1	Endothelial_Progenitor	0	MRT3	VISFATIN
MRT3	Endothelial_Progenitor	0	MRT3	VISFATIN
TAM	Endothelial_Progenitor	0	MRT3	VISFATIN
Monocyte	Endothelial_Progenitor	0	MRT3	VISFATIN
T_NK	Endothelial_Progenitor	0	MRT3	VISFATIN
B_Cell	Endothelial_Progenitor	0	MRT3	VISFATIN
Fibroblast	Endothelial_Progenitor	0	MRT3	VISFATIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	VISFATIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	VISFATIN
MRT1	MRT1	0	MRT3	ANGPT
MRT3	MRT1	0	MRT3	ANGPT
TAM	MRT1	0	MRT3	ANGPT
Monocyte	MRT1	0	MRT3	ANGPT
T_NK	MRT1	0	MRT3	ANGPT
B_Cell	MRT1	0	MRT3	ANGPT
Fibroblast	MRT1	0	MRT3	ANGPT
Endothelial_Cell	MRT1	0	MRT3	ANGPT
Endothelial_Progenitor	MRT1	0	MRT3	ANGPT
MRT1	MRT3	0	MRT3	ANGPT
MRT3	MRT3	0	MRT3	ANGPT
TAM	MRT3	0	MRT3	ANGPT
Monocyte	MRT3	0	MRT3	ANGPT
T_NK	MRT3	0	MRT3	ANGPT
B_Cell	MRT3	0	MRT3	ANGPT
Fibroblast	MRT3	0	MRT3	ANGPT
Endothelial_Cell	MRT3	0.01007254355	MRT3	ANGPT

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT3	0	MRT3	ANGPT
MRT1	TAM	0	MRT3	ANGPT
MRT3	TAM	0	MRT3	ANGPT
TAM	TAM	0	MRT3	ANGPT
Monocyte	TAM	0	MRT3	ANGPT
T_NK	TAM	0	MRT3	ANGPT
B_Cell	TAM	0	MRT3	ANGPT
Fibroblast	TAM	0	MRT3	ANGPT
Endothelial_Cell	TAM	0	MRT3	ANGPT
Endothelial_Progenitor	TAM	0	MRT3	ANGPT
MRT1	Monocyte	0	MRT3	ANGPT
MRT3	Monocyte	0	MRT3	ANGPT
TAM	Monocyte	0	MRT3	ANGPT
Monocyte	Monocyte	0	MRT3	ANGPT
T_NK	Monocyte	0	MRT3	ANGPT
B_Cell	Monocyte	0	MRT3	ANGPT
Fibroblast	Monocyte	0	MRT3	ANGPT
Endothelial_Cell	Monocyte	0	MRT3	ANGPT
Endothelial_Progenitor	Monocyte	0	MRT3	ANGPT
MRT1	T_NK	0	MRT3	ANGPT
MRT3	T_NK	0	MRT3	ANGPT
TAM	T_NK	0	MRT3	ANGPT
Monocyte	T_NK	0	MRT3	ANGPT
T_NK	T_NK	0	MRT3	ANGPT
B_Cell	T_NK	0	MRT3	ANGPT
Fibroblast	T_NK	0	MRT3	ANGPT
Endothelial_Cell	T_NK	0	MRT3	ANGPT
Endothelial_Progenitor	T_NK	0	MRT3	ANGPT
MRT1	B_Cell	0	MRT3	ANGPT
MRT3	B_Cell	0	MRT3	ANGPT

Source	Target	Probability	Sample	Pathway
TAM	B_Cell	0	MRT3	ANGPT
Monocyte	B_Cell	0	MRT3	ANGPT
T_NK	B_Cell	0	MRT3	ANGPT
B_Cell	B_Cell	0	MRT3	ANGPT
Fibroblast	B_Cell	0	MRT3	ANGPT
Endothelial_Cell	B_Cell	0	MRT3	ANGPT
Endothelial_Progenitor	B_Cell	0	MRT3	ANGPT
MRT1	Fibroblast	0	MRT3	ANGPT
MRT3	Fibroblast	0	MRT3	ANGPT
TAM	Fibroblast	0	MRT3	ANGPT
Monocyte	Fibroblast	0	MRT3	ANGPT
T_NK	Fibroblast	0	MRT3	ANGPT
B_Cell	Fibroblast	0	MRT3	ANGPT
Fibroblast	Fibroblast	0	MRT3	ANGPT
Endothelial_Cell	Fibroblast	0.03354586527	MRT3	ANGPT
Endothelial_Progenitor	Fibroblast	0	MRT3	ANGPT
MRT1	Endothelial_Cell	0	MRT3	ANGPT
MRT3	Endothelial_Cell	0	MRT3	ANGPT
TAM	Endothelial_Cell	0	MRT3	ANGPT
Monocyte	Endothelial_Cell	0	MRT3	ANGPT
T_NK	Endothelial_Cell	0	MRT3	ANGPT
B_Cell	Endothelial_Cell	0	MRT3	ANGPT
Fibroblast	Endothelial_Cell	0	MRT3	ANGPT
Endothelial_Cell	Endothelial_Cell	0.03024516243	MRT3	ANGPT
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	ANGPT
MRT1	Endothelial_Progenitor	0	MRT3	ANGPT
MRT3	Endothelial_Progenitor	0	MRT3	ANGPT
TAM	Endothelial_Progenitor	0	MRT3	ANGPT
Monocyte	Endothelial_Progenitor	0	MRT3	ANGPT
T_NK	Endothelial_Progenitor	0	MRT3	ANGPT

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Progenitor	0	MRT3	ANGPT
Fibroblast	Endothelial_Progenitor	0	MRT3	ANGPT
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	ANGPT
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	ANGPT
MRT1	MRT1	0	MRT3	ANGPTL
MRT3	MRT1	0	MRT3	ANGPTL
TAM	MRT1	0	MRT3	ANGPTL
Monocyte	MRT1	0	MRT3	ANGPTL
T_NK	MRT1	0	MRT3	ANGPTL
B_Cell	MRT1	0	MRT3	ANGPTL
Fibroblast	MRT1	0	MRT3	ANGPTL
Endothelial_Cell	MRT1	0	MRT3	ANGPTL
Endothelial_Progenitor	MRT1	0	MRT3	ANGPTL
MRT1	MRT3	0	MRT3	ANGPTL
MRT3	MRT3	0	MRT3	ANGPTL
TAM	MRT3	0	MRT3	ANGPTL
Monocyte	MRT3	0	MRT3	ANGPTL
T_NK	MRT3	0	MRT3	ANGPTL
B_Cell	MRT3	0	MRT3	ANGPTL
Fibroblast	MRT3	0	MRT3	ANGPTL
Endothelial_Cell	MRT3	0	MRT3	ANGPTL
Endothelial_Progenitor	MRT3	0	MRT3	ANGPTL
MRT1	TAM	0	MRT3	ANGPTL
MRT3	TAM	0	MRT3	ANGPTL
TAM	TAM	0.00670939331	MRT3	ANGPTL
Monocyte	TAM	0	MRT3	ANGPTL
T_NK	TAM	0	MRT3	ANGPTL
B_Cell	TAM	0	MRT3	ANGPTL
Fibroblast	TAM	0.00670939331	MRT3	ANGPTL
Endothelial_Cell	TAM	0	MRT3	ANGPTL

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	TAM	0	MRT3	ANGPTL
MRT1	Monocyte	0	MRT3	ANGPTL
MRT3	Monocyte	0	MRT3	ANGPTL
TAM	Monocyte	0	MRT3	ANGPTL
Monocyte	Monocyte	0	MRT3	ANGPTL
T_NK	Monocyte	0	MRT3	ANGPTL
B_Cell	Monocyte	0	MRT3	ANGPTL
Fibroblast	Monocyte	0	MRT3	ANGPTL
Endothelial_Cell	Monocyte	0	MRT3	ANGPTL
Endothelial_Progenitor	Monocyte	0	MRT3	ANGPTL
MRT1	T_NK	0	MRT3	ANGPTL
MRT3	T_NK	0	MRT3	ANGPTL
TAM	T_NK	0	MRT3	ANGPTL
Monocyte	T_NK	0	MRT3	ANGPTL
T_NK	T_NK	0	MRT3	ANGPTL
B_Cell	T_NK	0	MRT3	ANGPTL
Fibroblast	T_NK	0	MRT3	ANGPTL
Endothelial_Cell	T_NK	0	MRT3	ANGPTL
Endothelial_Progenitor	T_NK	0	MRT3	ANGPTL
MRT1	B_Cell	0	MRT3	ANGPTL
MRT3	B_Cell	0	MRT3	ANGPTL
TAM	B_Cell	0	MRT3	ANGPTL
Monocyte	B_Cell	0	MRT3	ANGPTL
T_NK	B_Cell	0	MRT3	ANGPTL
B_Cell	B_Cell	0	MRT3	ANGPTL
Fibroblast	B_Cell	0	MRT3	ANGPTL
Endothelial_Cell	B_Cell	0	MRT3	ANGPTL
Endothelial_Progenitor	B_Cell	0	MRT3	ANGPTL
MRT1	Fibroblast	0	MRT3	ANGPTL
MRT3	Fibroblast	0	MRT3	ANGPTL

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0.01243701431	MRT3	ANGPTL
Monocyte	Fibroblast	0	MRT3	ANGPTL
T_NK	Fibroblast	0	MRT3	ANGPTL
B_Cell	Fibroblast	0	MRT3	ANGPTL
Fibroblast	Fibroblast	0.01816463531	MRT3	ANGPTL
Endothelial_Cell	Fibroblast	0	MRT3	ANGPTL
Endothelial_Progenitor	Fibroblast	0	MRT3	ANGPTL
MRT1	Endothelial_Cell	0	MRT3	ANGPTL
MRT3	Endothelial_Cell	0	MRT3	ANGPTL
TAM	Endothelial_Cell	0.01033881273	MRT3	ANGPTL
Monocyte	Endothelial_Cell	0	MRT3	ANGPTL
T_NK	Endothelial_Cell	0	MRT3	ANGPTL
B_Cell	Endothelial_Cell	0	MRT3	ANGPTL
Fibroblast	Endothelial_Cell	0.01563712581	MRT3	ANGPTL
Endothelial_Cell	Endothelial_Cell	0	MRT3	ANGPTL
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	ANGPTL
MRT1	Endothelial_Progenitor	0	MRT3	ANGPTL
MRT3	Endothelial_Progenitor	0	MRT3	ANGPTL
TAM	Endothelial_Progenitor	0	MRT3	ANGPTL
Monocyte	Endothelial_Progenitor	0	MRT3	ANGPTL
T_NK	Endothelial_Progenitor	0	MRT3	ANGPTL
B_Cell	Endothelial_Progenitor	0	MRT3	ANGPTL
Fibroblast	Endothelial_Progenitor	0	MRT3	ANGPTL
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	ANGPTL
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	ANGPTL
MRT1	MRT1	0	MRT3	MPZ
MRT3	MRT1	0	MRT3	MPZ
TAM	MRT1	0	MRT3	MPZ
Monocyte	MRT1	0	MRT3	MPZ
T_NK	MRT1	0	MRT3	MPZ

Source	Target	Probability	Sample	Pathway
B_Cell	MRT1	0	MRT3	MPZ
Fibroblast	MRT1	0	MRT3	MPZ
Endothelial_Cell	MRT1	0	MRT3	MPZ
Endothelial_Progenitor	MRT1	0	MRT3	MPZ
MRT1	MRT3	0	MRT3	MPZ
MRT3	MRT3	0	MRT3	MPZ
TAM	MRT3	0	MRT3	MPZ
Monocyte	MRT3	0	MRT3	MPZ
T_NK	MRT3	0	MRT3	MPZ
B_Cell	MRT3	0	MRT3	MPZ
Fibroblast	MRT3	0.006017419957	MRT3	MPZ
Endothelial_Cell	MRT3	0	MRT3	MPZ
Endothelial_Progenitor	MRT3	0	MRT3	MPZ
MRT1	TAM	0	MRT3	MPZ
MRT3	TAM	0	MRT3	MPZ
TAM	TAM	0	MRT3	MPZ
Monocyte	TAM	0	MRT3	MPZ
T_NK	TAM	0	MRT3	MPZ
B_Cell	TAM	0	MRT3	MPZ
Fibroblast	TAM	0	MRT3	MPZ
Endothelial_Cell	TAM	0	MRT3	MPZ
Endothelial_Progenitor	TAM	0	MRT3	MPZ
MRT1	Monocyte	0	MRT3	MPZ
MRT3	Monocyte	0	MRT3	MPZ
TAM	Monocyte	0	MRT3	MPZ
Monocyte	Monocyte	0	MRT3	MPZ
T_NK	Monocyte	0	MRT3	MPZ
B_Cell	Monocyte	0	MRT3	MPZ
Fibroblast	Monocyte	0	MRT3	MPZ
Endothelial_Cell	Monocyte	0	MRT3	MPZ

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Monocyte	0	MRT3	MPZ
MRT1	T_NK	0	MRT3	MPZ
MRT3	T_NK	0	MRT3	MPZ
TAM	T_NK	0	MRT3	MPZ
Monocyte	T_NK	0	MRT3	MPZ
T_NK	T_NK	0	MRT3	MPZ
B_Cell	T_NK	0	MRT3	MPZ
Fibroblast	T_NK	0	MRT3	MPZ
Endothelial_Cell	T_NK	0	MRT3	MPZ
Endothelial_Progenitor	T_NK	0	MRT3	MPZ
MRT1	B_Cell	0	MRT3	MPZ
MRT3	B_Cell	0	MRT3	MPZ
TAM	B_Cell	0	MRT3	MPZ
Monocyte	B_Cell	0	MRT3	MPZ
T_NK	B_Cell	0	MRT3	MPZ
B_Cell	B_Cell	0	MRT3	MPZ
Fibroblast	B_Cell	0	MRT3	MPZ
Endothelial_Cell	B_Cell	0	MRT3	MPZ
Endothelial_Progenitor	B_Cell	0	MRT3	MPZ
MRT1	Fibroblast	0	MRT3	MPZ
MRT3	Fibroblast	0.006017419957	MRT3	MPZ
TAM	Fibroblast	0	MRT3	MPZ
Monocyte	Fibroblast	0	MRT3	MPZ
T_NK	Fibroblast	0	MRT3	MPZ
B_Cell	Fibroblast	0	MRT3	MPZ
Fibroblast	Fibroblast	0.02124181264	MRT3	MPZ
Endothelial_Cell	Fibroblast	0.006017419957	MRT3	MPZ
Endothelial_Progenitor	Fibroblast	0	MRT3	MPZ
MRT1	Endothelial_Cell	0	MRT3	MPZ
MRT3	Endothelial_Cell	0	MRT3	MPZ

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT3	MPZ
Monocyte	Endothelial_Cell	0	MRT3	MPZ
T_NK	Endothelial_Cell	0	MRT3	MPZ
B_Cell	Endothelial_Cell	0	MRT3	MPZ
Fibroblast	Endothelial_Cell	0.006017419957	MRT3	MPZ
Endothelial_Cell	Endothelial_Cell	0	MRT3	MPZ
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	MPZ
MRT1	Endothelial_Progenitor	0	MRT3	MPZ
MRT3	Endothelial_Progenitor	0	MRT3	MPZ
TAM	Endothelial_Progenitor	0	MRT3	MPZ
Monocyte	Endothelial_Progenitor	0	MRT3	MPZ
T_NK	Endothelial_Progenitor	0	MRT3	MPZ
B_Cell	Endothelial_Progenitor	0	MRT3	MPZ
Fibroblast	Endothelial_Progenitor	0	MRT3	MPZ
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	MPZ
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	MPZ
MRT1	MRT1	0	MRT3	PECAM1
MRT3	MRT1	0	MRT3	PECAM1
TAM	MRT1	0	MRT3	PECAM1
Monocyte	MRT1	0	MRT3	PECAM1
T_NK	MRT1	0	MRT3	PECAM1
B_Cell	MRT1	0	MRT3	PECAM1
Fibroblast	MRT1	0	MRT3	PECAM1
Endothelial_Cell	MRT1	0	MRT3	PECAM1
Endothelial_Progenitor	MRT1	0	MRT3	PECAM1
MRT1	MRT3	0	MRT3	PECAM1
MRT3	MRT3	0	MRT3	PECAM1
TAM	MRT3	0	MRT3	PECAM1
Monocyte	MRT3	0	MRT3	PECAM1
T_NK	MRT3	0	MRT3	PECAM1

Source	Target	Probability	Sample	Pathway
B_Cell	MRT3	0	MRT3	PECAM1
Fibroblast	MRT3	0	MRT3	PECAM1
Endothelial_Cell	MRT3	0	MRT3	PECAM1
Endothelial_Progenitor	MRT3	0	MRT3	PECAM1
MRT1	TAM	0	MRT3	PECAM1
MRT3	TAM	0	MRT3	PECAM1
TAM	TAM	0.001685831508	MRT3	PECAM1
Monocyte	TAM	0	MRT3	PECAM1
T_NK	TAM	0	MRT3	PECAM1
B_Cell	TAM	0	MRT3	PECAM1
Fibroblast	TAM	0	MRT3	PECAM1
Endothelial_Cell	TAM	0.00670939331	MRT3	PECAM1
Endothelial_Progenitor	TAM	0	MRT3	PECAM1
MRT1	Monocyte	0	MRT3	PECAM1
MRT3	Monocyte	0	MRT3	PECAM1
TAM	Monocyte	0	MRT3	PECAM1
Monocyte	Monocyte	0	MRT3	PECAM1
T_NK	Monocyte	0	MRT3	PECAM1
B_Cell	Monocyte	0	MRT3	PECAM1
Fibroblast	Monocyte	0	MRT3	PECAM1
Endothelial_Cell	Monocyte	0	MRT3	PECAM1
Endothelial_Progenitor	Monocyte	0	MRT3	PECAM1
MRT1	T_NK	0	MRT3	PECAM1
MRT3	T_NK	0	MRT3	PECAM1
TAM	T_NK	0	MRT3	PECAM1
Monocyte	T_NK	0	MRT3	PECAM1
T_NK	T_NK	0	MRT3	PECAM1
B_Cell	T_NK	0	MRT3	PECAM1
Fibroblast	T_NK	0	MRT3	PECAM1
Endothelial_Cell	T_NK	0	MRT3	PECAM1

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	T_NK	0	MRT3	PECAM1
MRT1	B_Cell	0	MRT3	PECAM1
MRT3	B_Cell	0	MRT3	PECAM1
TAM	B_Cell	0	MRT3	PECAM1
Monocyte	B_Cell	0	MRT3	PECAM1
T_NK	B_Cell	0	MRT3	PECAM1
B_Cell	B_Cell	0	MRT3	PECAM1
Fibroblast	B_Cell	0	MRT3	PECAM1
Endothelial_Cell	B_Cell	0	MRT3	PECAM1
Endothelial_Progenitor	B_Cell	0	MRT3	PECAM1
MRT1	Fibroblast	0	MRT3	PECAM1
MRT3	Fibroblast	0	MRT3	PECAM1
TAM	Fibroblast	0	MRT3	PECAM1
Monocyte	Fibroblast	0	MRT3	PECAM1
T_NK	Fibroblast	0	MRT3	PECAM1
B_Cell	Fibroblast	0	MRT3	PECAM1
Fibroblast	Fibroblast	0	MRT3	PECAM1
Endothelial_Cell	Fibroblast	0	MRT3	PECAM1
Endothelial_Progenitor	Fibroblast	0	MRT3	PECAM1
MRT1	Endothelial_Cell	0	MRT3	PECAM1
MRT3	Endothelial_Cell	0	MRT3	PECAM1
TAM	Endothelial_Cell	0.00670939331	MRT3	PECAM1
Monocyte	Endothelial_Cell	0	MRT3	PECAM1
T_NK	Endothelial_Cell	0	MRT3	PECAM1
B_Cell	Endothelial_Cell	0	MRT3	PECAM1
Fibroblast	Endothelial_Cell	0	MRT3	PECAM1
Endothelial_Cell	Endothelial_Cell	0.02630804027	MRT3	PECAM1
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	PECAM1
MRT1	Endothelial_Progenitor	0	MRT3	PECAM1
MRT3	Endothelial_Progenitor	0	MRT3	PECAM1

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT3	PECAM1
Monocyte	Endothelial_Progenitor	0	MRT3	PECAM1
T_NK	Endothelial_Progenitor	0	MRT3	PECAM1
B_Cell	Endothelial_Progenitor	0	MRT3	PECAM1
Fibroblast	Endothelial_Progenitor	0	MRT3	PECAM1
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	PECAM1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	PECAM1
MRT1	MRT1	0	MRT3	PDGF
MRT3	MRT1	0	MRT3	PDGF
TAM	MRT1	0	MRT3	PDGF
Monocyte	MRT1	0	MRT3	PDGF
T_NK	MRT1	0	MRT3	PDGF
B_Cell	MRT1	0	MRT3	PDGF
Fibroblast	MRT1	0	MRT3	PDGF
Endothelial_Cell	MRT1	0	MRT3	PDGF
Endothelial_Progenitor	MRT1	0	MRT3	PDGF
MRT1	MRT3	0	MRT3	PDGF
MRT3	MRT3	0	MRT3	PDGF
TAM	MRT3	0	MRT3	PDGF
Monocyte	MRT3	0	MRT3	PDGF
T_NK	MRT3	0	MRT3	PDGF
B_Cell	MRT3	0	MRT3	PDGF
Fibroblast	MRT3	0	MRT3	PDGF
Endothelial_Cell	MRT3	0	MRT3	PDGF
Endothelial_Progenitor	MRT3	0	MRT3	PDGF
MRT1	TAM	0	MRT3	PDGF
MRT3	TAM	0	MRT3	PDGF
TAM	TAM	0	MRT3	PDGF
Monocyte	TAM	0	MRT3	PDGF
T_NK	TAM	0	MRT3	PDGF

Source	Target	Probability	Sample	Pathway
B_Cell	TAM	0	MRT3	PDGF
Fibroblast	TAM	0	MRT3	PDGF
Endothelial_Cell	TAM	0	MRT3	PDGF
Endothelial_Progenitor	TAM	0	MRT3	PDGF
MRT1	Monocyte	0	MRT3	PDGF
MRT3	Monocyte	0	MRT3	PDGF
TAM	Monocyte	0	MRT3	PDGF
Monocyte	Monocyte	0	MRT3	PDGF
T_NK	Monocyte	0	MRT3	PDGF
B_Cell	Monocyte	0	MRT3	PDGF
Fibroblast	Monocyte	0	MRT3	PDGF
Endothelial_Cell	Monocyte	0	MRT3	PDGF
Endothelial_Progenitor	Monocyte	0	MRT3	PDGF
MRT1	T_NK	0	MRT3	PDGF
MRT3	T_NK	0	MRT3	PDGF
TAM	T_NK	0	MRT3	PDGF
Monocyte	T_NK	0	MRT3	PDGF
T_NK	T_NK	0	MRT3	PDGF
B_Cell	T_NK	0	MRT3	PDGF
Fibroblast	T_NK	0	MRT3	PDGF
Endothelial_Cell	T_NK	0	MRT3	PDGF
Endothelial_Progenitor	T_NK	0	MRT3	PDGF
MRT1	B_Cell	0	MRT3	PDGF
MRT3	B_Cell	0	MRT3	PDGF
TAM	B_Cell	0	MRT3	PDGF
Monocyte	B_Cell	0	MRT3	PDGF
T_NK	B_Cell	0	MRT3	PDGF
B_Cell	B_Cell	0	MRT3	PDGF
Fibroblast	B_Cell	0	MRT3	PDGF
Endothelial_Cell	B_Cell	0	MRT3	PDGF

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	B_Cell	0	MRT3	PDGF
MRT1	Fibroblast	0	MRT3	PDGF
MRT3	Fibroblast	0.00701314006	MRT3	PDGF
TAM	Fibroblast	0	MRT3	PDGF
Monocyte	Fibroblast	0	MRT3	PDGF
T_NK	Fibroblast	0	MRT3	PDGF
B_Cell	Fibroblast	0	MRT3	PDGF
Fibroblast	Fibroblast	0.02143833603	MRT3	PDGF
Endothelial_Cell	Fibroblast	0	MRT3	PDGF
Endothelial_Progenitor	Fibroblast	0	MRT3	PDGF
MRT1	Endothelial_Cell	0	MRT3	PDGF
MRT3	Endothelial_Cell	0	MRT3	PDGF
TAM	Endothelial_Cell	0	MRT3	PDGF
Monocyte	Endothelial_Cell	0	MRT3	PDGF
T_NK	Endothelial_Cell	0	MRT3	PDGF
B_Cell	Endothelial_Cell	0	MRT3	PDGF
Fibroblast	Endothelial_Cell	0	MRT3	PDGF
Endothelial_Cell	Endothelial_Cell	0	MRT3	PDGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	PDGF
MRT1	Endothelial_Progenitor	0	MRT3	PDGF
MRT3	Endothelial_Progenitor	0	MRT3	PDGF
TAM	Endothelial_Progenitor	0	MRT3	PDGF
Monocyte	Endothelial_Progenitor	0	MRT3	PDGF
T_NK	Endothelial_Progenitor	0	MRT3	PDGF
B_Cell	Endothelial_Progenitor	0	MRT3	PDGF
Fibroblast	Endothelial_Progenitor	0	MRT3	PDGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	PDGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	PDGF
MRT1	MRT1	0	MRT3	TENASCIN
MRT3	MRT1	0	MRT3	TENASCIN

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT3	TENASCIN
Monocyte	MRT1	0	MRT3	TENASCIN
T_NK	MRT1	0	MRT3	TENASCIN
B_Cell	MRT1	0	MRT3	TENASCIN
Fibroblast	MRT1	0	MRT3	TENASCIN
Endothelial_Cell	MRT1	0	MRT3	TENASCIN
Endothelial_Progenitor	MRT1	0	MRT3	TENASCIN
MRT1	MRT3	0	MRT3	TENASCIN
MRT3	MRT3	0	MRT3	TENASCIN
TAM	MRT3	0	MRT3	TENASCIN
Monocyte	MRT3	0	MRT3	TENASCIN
T_NK	MRT3	0	MRT3	TENASCIN
B_Cell	MRT3	0	MRT3	TENASCIN
Fibroblast	MRT3	0	MRT3	TENASCIN
Endothelial_Cell	MRT3	0	MRT3	TENASCIN
Endothelial_Progenitor	MRT3	0	MRT3	TENASCIN
MRT1	TAM	0	MRT3	TENASCIN
MRT3	TAM	0	MRT3	TENASCIN
TAM	TAM	0	MRT3	TENASCIN
Monocyte	TAM	0	MRT3	TENASCIN
T_NK	TAM	0	MRT3	TENASCIN
B_Cell	TAM	0	MRT3	TENASCIN
Fibroblast	TAM	0	MRT3	TENASCIN
Endothelial_Cell	TAM	0	MRT3	TENASCIN
Endothelial_Progenitor	TAM	0	MRT3	TENASCIN
MRT1	Monocyte	0	MRT3	TENASCIN
MRT3	Monocyte	0	MRT3	TENASCIN
TAM	Monocyte	0	MRT3	TENASCIN
Monocyte	Monocyte	0	MRT3	TENASCIN
T_NK	Monocyte	0	MRT3	TENASCIN

Source	Target	Probability	Sample	Pathway
B_Cell	Monocyte	0	MRT3	TENASCIN
Fibroblast	Monocyte	0	MRT3	TENASCIN
Endothelial_Cell	Monocyte	0	MRT3	TENASCIN
Endothelial_Progenitor	Monocyte	0	MRT3	TENASCIN
MRT1	T_NK	0	MRT3	TENASCIN
MRT3	T_NK	0	MRT3	TENASCIN
TAM	T_NK	0	MRT3	TENASCIN
Monocyte	T_NK	0	MRT3	TENASCIN
T_NK	T_NK	0	MRT3	TENASCIN
B_Cell	T_NK	0	MRT3	TENASCIN
Fibroblast	T_NK	0	MRT3	TENASCIN
Endothelial_Cell	T_NK	0	MRT3	TENASCIN
Endothelial_Progenitor	T_NK	0	MRT3	TENASCIN
MRT1	B_Cell	0	MRT3	TENASCIN
MRT3	B_Cell	0	MRT3	TENASCIN
TAM	B_Cell	0	MRT3	TENASCIN
Monocyte	B_Cell	0	MRT3	TENASCIN
T_NK	B_Cell	0	MRT3	TENASCIN
B_Cell	B_Cell	0	MRT3	TENASCIN
Fibroblast	B_Cell	0	MRT3	TENASCIN
Endothelial_Cell	B_Cell	0	MRT3	TENASCIN
Endothelial_Progenitor	B_Cell	0	MRT3	TENASCIN
MRT1	Fibroblast	0	MRT3	TENASCIN
MRT3	Fibroblast	0	MRT3	TENASCIN
TAM	Fibroblast	0	MRT3	TENASCIN
Monocyte	Fibroblast	0	MRT3	TENASCIN
T_NK	Fibroblast	0	MRT3	TENASCIN
B_Cell	Fibroblast	0	MRT3	TENASCIN
Fibroblast	Fibroblast	0	MRT3	TENASCIN
Endothelial_Cell	Fibroblast	0	MRT3	TENASCIN

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Fibroblast	0	MRT3	TENASCIN
MRT1	Endothelial_Cell	0	MRT3	TENASCIN
MRT3	Endothelial_Cell	0	MRT3	TENASCIN
TAM	Endothelial_Cell	0	MRT3	TENASCIN
Monocyte	Endothelial_Cell	0	MRT3	TENASCIN
T_NK	Endothelial_Cell	0	MRT3	TENASCIN
B_Cell	Endothelial_Cell	0	MRT3	TENASCIN
Fibroblast	Endothelial_Cell	0.0281582683	MRT3	TENASCIN
Endothelial_Cell	Endothelial_Cell	0	MRT3	TENASCIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	TENASCIN
MRT1	Endothelial_Progenitor	0	MRT3	TENASCIN
MRT3	Endothelial_Progenitor	0	MRT3	TENASCIN
TAM	Endothelial_Progenitor	0	MRT3	TENASCIN
Monocyte	Endothelial_Progenitor	0	MRT3	TENASCIN
T_NK	Endothelial_Progenitor	0	MRT3	TENASCIN
B_Cell	Endothelial_Progenitor	0	MRT3	TENASCIN
Fibroblast	Endothelial_Progenitor	0	MRT3	TENASCIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	TENASCIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	TENASCIN
MRT1	MRT1	0	MRT3	CDH5
MRT3	MRT1	0	MRT3	CDH5
TAM	MRT1	0	MRT3	CDH5
Monocyte	MRT1	0	MRT3	CDH5
T_NK	MRT1	0	MRT3	CDH5
B_Cell	MRT1	0	MRT3	CDH5
Fibroblast	MRT1	0	MRT3	CDH5
Endothelial_Cell	MRT1	0	MRT3	CDH5
Endothelial_Progenitor	MRT1	0	MRT3	CDH5
MRT1	MRT3	0	MRT3	CDH5
MRT3	MRT3	0	MRT3	CDH5

Source	Target	Probability	Sample	Pathway
TAM	MRT3	0	MRT3	CDH5
Monocyte	MRT3	0	MRT3	CDH5
T_NK	MRT3	0	MRT3	CDH5
B_Cell	MRT3	0	MRT3	CDH5
Fibroblast	MRT3	0	MRT3	CDH5
Endothelial_Cell	MRT3	0	MRT3	CDH5
Endothelial_Progenitor	MRT3	0	MRT3	CDH5
MRT1	TAM	0	MRT3	CDH5
MRT3	TAM	0	MRT3	CDH5
TAM	TAM	0	MRT3	CDH5
Monocyte	TAM	0	MRT3	CDH5
T_NK	TAM	0	MRT3	CDH5
B_Cell	TAM	0	MRT3	CDH5
Fibroblast	TAM	0	MRT3	CDH5
Endothelial_Cell	TAM	0	MRT3	CDH5
Endothelial_Progenitor	TAM	0	MRT3	CDH5
MRT1	Monocyte	0	MRT3	CDH5
MRT3	Monocyte	0	MRT3	CDH5
TAM	Monocyte	0	MRT3	CDH5
Monocyte	Monocyte	0	MRT3	CDH5
T_NK	Monocyte	0	MRT3	CDH5
B_Cell	Monocyte	0	MRT3	CDH5
Fibroblast	Monocyte	0	MRT3	CDH5
Endothelial_Cell	Monocyte	0	MRT3	CDH5
Endothelial_Progenitor	Monocyte	0	MRT3	CDH5
MRT1	T_NK	0	MRT3	CDH5
MRT3	T_NK	0	MRT3	CDH5
TAM	T_NK	0	MRT3	CDH5
Monocyte	T_NK	0	MRT3	CDH5
T_NK	T_NK	0	MRT3	CDH5

Source	Target	Probability	Sample	Pathway
B_Cell	T_NK	0	MRT3	CDH5
Fibroblast	T_NK	0	MRT3	CDH5
Endothelial_Cell	T_NK	0	MRT3	CDH5
Endothelial_Progenitor	T_NK	0	MRT3	CDH5
MRT1	B_Cell	0	MRT3	CDH5
MRT3	B_Cell	0	MRT3	CDH5
TAM	B_Cell	0	MRT3	CDH5
Monocyte	B_Cell	0	MRT3	CDH5
T_NK	B_Cell	0	MRT3	CDH5
B_Cell	B_Cell	0	MRT3	CDH5
Fibroblast	B_Cell	0	MRT3	CDH5
Endothelial_Cell	B_Cell	0	MRT3	CDH5
Endothelial_Progenitor	B_Cell	0	MRT3	CDH5
MRT1	Fibroblast	0	MRT3	CDH5
MRT3	Fibroblast	0	MRT3	CDH5
TAM	Fibroblast	0	MRT3	CDH5
Monocyte	Fibroblast	0	MRT3	CDH5
T_NK	Fibroblast	0	MRT3	CDH5
B_Cell	Fibroblast	0	MRT3	CDH5
Fibroblast	Fibroblast	0	MRT3	CDH5
Endothelial_Cell	Fibroblast	0	MRT3	CDH5
Endothelial_Progenitor	Fibroblast	0	MRT3	CDH5
MRT1	Endothelial_Cell	0	MRT3	CDH5
MRT3	Endothelial_Cell	0	MRT3	CDH5
TAM	Endothelial_Cell	0	MRT3	CDH5
Monocyte	Endothelial_Cell	0	MRT3	CDH5
T_NK	Endothelial_Cell	0	MRT3	CDH5
B_Cell	Endothelial_Cell	0	MRT3	CDH5
Fibroblast	Endothelial_Cell	0	MRT3	CDH5
Endothelial_Cell	Endothelial_Cell	0.01497058056	MRT3	CDH5

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CDH5
MRT1	Endothelial_Progenitor	0	MRT3	CDH5
MRT3	Endothelial_Progenitor	0	MRT3	CDH5
TAM	Endothelial_Progenitor	0	MRT3	CDH5
Monocyte	Endothelial_Progenitor	0	MRT3	CDH5
T_NK	Endothelial_Progenitor	0	MRT3	CDH5
B_Cell	Endothelial_Progenitor	0	MRT3	CDH5
Fibroblast	Endothelial_Progenitor	0	MRT3	CDH5
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CDH5
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CDH5
MRT1	MRT1	0	MRT3	IGF
MRT3	MRT1	0	MRT3	IGF
TAM	MRT1	0	MRT3	IGF
Monocyte	MRT1	0	MRT3	IGF
T_NK	MRT1	0	MRT3	IGF
B_Cell	MRT1	0	MRT3	IGF
Fibroblast	MRT1	0	MRT3	IGF
Endothelial_Cell	MRT1	0	MRT3	IGF
Endothelial_Progenitor	MRT1	0	MRT3	IGF
MRT1	MRT3	0	MRT3	IGF
MRT3	MRT3	0	MRT3	IGF
TAM	MRT3	0	MRT3	IGF
Monocyte	MRT3	0	MRT3	IGF
T_NK	MRT3	0	MRT3	IGF
B_Cell	MRT3	0	MRT3	IGF
Fibroblast	MRT3	0	MRT3	IGF
Endothelial_Cell	MRT3	0	MRT3	IGF
Endothelial_Progenitor	MRT3	0	MRT3	IGF
MRT1	TAM	0	MRT3	IGF
MRT3	TAM	0	MRT3	IGF

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT3	IGF
Monocyte	TAM	0	MRT3	IGF
T_NK	TAM	0	MRT3	IGF
B_Cell	TAM	0	MRT3	IGF
Fibroblast	TAM	0	MRT3	IGF
Endothelial_Cell	TAM	0	MRT3	IGF
Endothelial_Progenitor	TAM	0	MRT3	IGF
MRT1	Monocyte	0	MRT3	IGF
MRT3	Monocyte	0	MRT3	IGF
TAM	Monocyte	0	MRT3	IGF
Monocyte	Monocyte	0	MRT3	IGF
T_NK	Monocyte	0	MRT3	IGF
B_Cell	Monocyte	0	MRT3	IGF
Fibroblast	Monocyte	0	MRT3	IGF
Endothelial_Cell	Monocyte	0	MRT3	IGF
Endothelial_Progenitor	Monocyte	0	MRT3	IGF
MRT1	T_NK	0	MRT3	IGF
MRT3	T_NK	0	MRT3	IGF
TAM	T_NK	0	MRT3	IGF
Monocyte	T_NK	0	MRT3	IGF
T_NK	T_NK	0	MRT3	IGF
B_Cell	T_NK	0	MRT3	IGF
Fibroblast	T_NK	0	MRT3	IGF
Endothelial_Cell	T_NK	0	MRT3	IGF
Endothelial_Progenitor	T_NK	0	MRT3	IGF
MRT1	B_Cell	0	MRT3	IGF
MRT3	B_Cell	0	MRT3	IGF
TAM	B_Cell	0	MRT3	IGF
Monocyte	B_Cell	0	MRT3	IGF
T_NK	B_Cell	0	MRT3	IGF

Source	Target	Probability	Sample	Pathway
B_Cell	B_Cell	0	MRT3	IGF
Fibroblast	B_Cell	0	MRT3	IGF
Endothelial_Cell	B_Cell	0	MRT3	IGF
Endothelial_Progenitor	B_Cell	0	MRT3	IGF
MRT1	Fibroblast	0	MRT3	IGF
MRT3	Fibroblast	0	MRT3	IGF
TAM	Fibroblast	0	MRT3	IGF
Monocyte	Fibroblast	0	MRT3	IGF
T_NK	Fibroblast	0	MRT3	IGF
B_Cell	Fibroblast	0	MRT3	IGF
Fibroblast	Fibroblast	0	MRT3	IGF
Endothelial_Cell	Fibroblast	0.01021013763	MRT3	IGF
Endothelial_Progenitor	Fibroblast	0	MRT3	IGF
MRT1	Endothelial_Cell	0	MRT3	IGF
MRT3	Endothelial_Cell	0	MRT3	IGF
TAM	Endothelial_Cell	0	MRT3	IGF
Monocyte	Endothelial_Cell	0	MRT3	IGF
T_NK	Endothelial_Cell	0	MRT3	IGF
B_Cell	Endothelial_Cell	0	MRT3	IGF
Fibroblast	Endothelial_Cell	0	MRT3	IGF
Endothelial_Cell	Endothelial_Cell	0.003452193573	MRT3	IGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	IGF
MRT1	Endothelial_Progenitor	0	MRT3	IGF
MRT3	Endothelial_Progenitor	0	MRT3	IGF
TAM	Endothelial_Progenitor	0	MRT3	IGF
Monocyte	Endothelial_Progenitor	0	MRT3	IGF
T_NK	Endothelial_Progenitor	0	MRT3	IGF
B_Cell	Endothelial_Progenitor	0	MRT3	IGF
Fibroblast	Endothelial_Progenitor	0	MRT3	IGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	IGF

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	IGF
MRT1	MRT1	0	MRT3	NOTCH
MRT3	MRT1	0	MRT3	NOTCH
TAM	MRT1	0	MRT3	NOTCH
Monocyte	MRT1	0	MRT3	NOTCH
T_NK	MRT1	0	MRT3	NOTCH
B_Cell	MRT1	0	MRT3	NOTCH
Fibroblast	MRT1	0	MRT3	NOTCH
Endothelial_Cell	MRT1	0	MRT3	NOTCH
Endothelial_Progenitor	MRT1	0	MRT3	NOTCH
MRT1	MRT3	0	MRT3	NOTCH
MRT3	MRT3	0	MRT3	NOTCH
TAM	MRT3	0	MRT3	NOTCH
Monocyte	MRT3	0	MRT3	NOTCH
T_NK	MRT3	0	MRT3	NOTCH
B_Cell	MRT3	0	MRT3	NOTCH
Fibroblast	MRT3	0	MRT3	NOTCH
Endothelial_Cell	MRT3	0	MRT3	NOTCH
Endothelial_Progenitor	MRT3	0	MRT3	NOTCH
MRT1	TAM	0	MRT3	NOTCH
MRT3	TAM	0	MRT3	NOTCH
TAM	TAM	0	MRT3	NOTCH
Monocyte	TAM	0	MRT3	NOTCH
T_NK	TAM	0	MRT3	NOTCH
B_Cell	TAM	0	MRT3	NOTCH
Fibroblast	TAM	0.001685831508	MRT3	NOTCH
Endothelial_Cell	TAM	0.00266934735	MRT3	NOTCH
Endothelial_Progenitor	TAM	0	MRT3	NOTCH
MRT1	Monocyte	0	MRT3	NOTCH
MRT3	Monocyte	0	MRT3	NOTCH

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT3	NOTCH
Monocyte	Monocyte	0	MRT3	NOTCH
T_NK	Monocyte	0	MRT3	NOTCH
B_Cell	Monocyte	0	MRT3	NOTCH
Fibroblast	Monocyte	0	MRT3	NOTCH
Endothelial_Cell	Monocyte	0	MRT3	NOTCH
Endothelial_Progenitor	Monocyte	0	MRT3	NOTCH
MRT1	T_NK	0	MRT3	NOTCH
MRT3	T_NK	0	MRT3	NOTCH
TAM	T_NK	0	MRT3	NOTCH
Monocyte	T_NK	0	MRT3	NOTCH
T_NK	T_NK	0	MRT3	NOTCH
B_Cell	T_NK	0	MRT3	NOTCH
Fibroblast	T_NK	0	MRT3	NOTCH
Endothelial_Cell	T_NK	0	MRT3	NOTCH
Endothelial_Progenitor	T_NK	0	MRT3	NOTCH
MRT1	B_Cell	0	MRT3	NOTCH
MRT3	B_Cell	0	MRT3	NOTCH
TAM	B_Cell	0	MRT3	NOTCH
Monocyte	B_Cell	0	MRT3	NOTCH
T_NK	B_Cell	0	MRT3	NOTCH
B_Cell	B_Cell	0	MRT3	NOTCH
Fibroblast	B_Cell	0	MRT3	NOTCH
Endothelial_Cell	B_Cell	0	MRT3	NOTCH
Endothelial_Progenitor	B_Cell	0	MRT3	NOTCH
MRT1	Fibroblast	0	MRT3	NOTCH
MRT3	Fibroblast	0	MRT3	NOTCH
TAM	Fibroblast	0	MRT3	NOTCH
Monocyte	Fibroblast	0	MRT3	NOTCH
T_NK	Fibroblast	0	MRT3	NOTCH

Source	Target	Probability	Sample	Pathway
B_Cell	Fibroblast	0	MRT3	NOTCH
Fibroblast	Fibroblast	0.001685831508	MRT3	NOTCH
Endothelial_Cell	Fibroblast	0.00266934735	MRT3	NOTCH
Endothelial_Progenitor	Fibroblast	0	MRT3	NOTCH
MRT1	Endothelial_Cell	0	MRT3	NOTCH
MRT3	Endothelial_Cell	0	MRT3	NOTCH
TAM	Endothelial_Cell	0	MRT3	NOTCH
Monocyte	Endothelial_Cell	0	MRT3	NOTCH
T_NK	Endothelial_Cell	0	MRT3	NOTCH
B_Cell	Endothelial_Cell	0	MRT3	NOTCH
Fibroblast	Endothelial_Cell	0.001685831508	MRT3	NOTCH
Endothelial_Cell	Endothelial_Cell	0.00266934735	MRT3	NOTCH
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	NOTCH
MRT1	Endothelial_Progenitor	0	MRT3	NOTCH
MRT3	Endothelial_Progenitor	0	MRT3	NOTCH
TAM	Endothelial_Progenitor	0	MRT3	NOTCH
Monocyte	Endothelial_Progenitor	0	MRT3	NOTCH
T_NK	Endothelial_Progenitor	0	MRT3	NOTCH
B_Cell	Endothelial_Progenitor	0	MRT3	NOTCH
Fibroblast	Endothelial_Progenitor	0	MRT3	NOTCH
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	NOTCH
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	NOTCH
MRT1	MRT1	0	MRT3	CD46
MRT3	MRT1	0	MRT3	CD46
TAM	MRT1	0	MRT3	CD46
Monocyte	MRT1	0	MRT3	CD46
T_NK	MRT1	0	MRT3	CD46
B_Cell	MRT1	0	MRT3	CD46
Fibroblast	MRT1	0	MRT3	CD46
Endothelial_Cell	MRT1	0	MRT3	CD46

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT1	0	MRT3	CD46
MRT1	MRT3	0	MRT3	CD46
MRT3	MRT3	0	MRT3	CD46
TAM	MRT3	0	MRT3	CD46
Monocyte	MRT3	0	MRT3	CD46
T_NK	MRT3	0	MRT3	CD46
B_Cell	MRT3	0	MRT3	CD46
Fibroblast	MRT3	0	MRT3	CD46
Endothelial_Cell	MRT3	0	MRT3	CD46
Endothelial_Progenitor	MRT3	0	MRT3	CD46
MRT1	TAM	0	MRT3	CD46
MRT3	TAM	0	MRT3	CD46
TAM	TAM	0	MRT3	CD46
Monocyte	TAM	0	MRT3	CD46
T_NK	TAM	0	MRT3	CD46
B_Cell	TAM	0	MRT3	CD46
Fibroblast	TAM	0	MRT3	CD46
Endothelial_Cell	TAM	0	MRT3	CD46
Endothelial_Progenitor	TAM	0	MRT3	CD46
MRT1	Monocyte	0	MRT3	CD46
MRT3	Monocyte	0	MRT3	CD46
TAM	Monocyte	0	MRT3	CD46
Monocyte	Monocyte	0	MRT3	CD46
T_NK	Monocyte	0	MRT3	CD46
B_Cell	Monocyte	0	MRT3	CD46
Fibroblast	Monocyte	0	MRT3	CD46
Endothelial_Cell	Monocyte	0	MRT3	CD46
Endothelial_Progenitor	Monocyte	0	MRT3	CD46
MRT1	T_NK	0	MRT3	CD46
MRT3	T_NK	0	MRT3	CD46

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT3	CD46
Monocyte	T_NK	0	MRT3	CD46
T_NK	T_NK	0	MRT3	CD46
B_Cell	T_NK	0	MRT3	CD46
Fibroblast	T_NK	0	MRT3	CD46
Endothelial_Cell	T_NK	0	MRT3	CD46
Endothelial_Progenitor	T_NK	0	MRT3	CD46
MRT1	B_Cell	0	MRT3	CD46
MRT3	B_Cell	0	MRT3	CD46
TAM	B_Cell	0	MRT3	CD46
Monocyte	B_Cell	0	MRT3	CD46
T_NK	B_Cell	0	MRT3	CD46
B_Cell	B_Cell	0	MRT3	CD46
Fibroblast	B_Cell	0	MRT3	CD46
Endothelial_Cell	B_Cell	0	MRT3	CD46
Endothelial_Progenitor	B_Cell	0	MRT3	CD46
MRT1	Fibroblast	0	MRT3	CD46
MRT3	Fibroblast	0.001685831508	MRT3	CD46
TAM	Fibroblast	0	MRT3	CD46
Monocyte	Fibroblast	0	MRT3	CD46
T_NK	Fibroblast	0.00266934735	MRT3	CD46
B_Cell	Fibroblast	0	MRT3	CD46
Fibroblast	Fibroblast	0	MRT3	CD46
Endothelial_Cell	Fibroblast	0.000421991431	MRT3	CD46
Endothelial_Progenitor	Fibroblast	0	MRT3	CD46
MRT1	Endothelial_Cell	0	MRT3	CD46
MRT3	Endothelial_Cell	0.00266934735	MRT3	CD46
TAM	Endothelial_Cell	0	MRT3	CD46
Monocyte	Endothelial_Cell	0	MRT3	CD46
T_NK	Endothelial_Cell	0.004224219467	MRT3	CD46

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Cell	0	MRT3	CD46
Fibroblast	Endothelial_Cell	0	MRT3	CD46
Endothelial_Cell	Endothelial_Cell	0.000668675532	MRT3	CD46
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CD46
MRT1	Endothelial_Progenitor	0	MRT3	CD46
MRT3	Endothelial_Progenitor	0	MRT3	CD46
TAM	Endothelial_Progenitor	0	MRT3	CD46
Monocyte	Endothelial_Progenitor	0	MRT3	CD46
T_NK	Endothelial_Progenitor	0	MRT3	CD46
B_Cell	Endothelial_Progenitor	0	MRT3	CD46
Fibroblast	Endothelial_Progenitor	0	MRT3	CD46
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CD46
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CD46
MRT1	MRT1	0	MRT3	THY1
MRT3	MRT1	0	MRT3	THY1
TAM	MRT1	0	MRT3	THY1
Monocyte	MRT1	0	MRT3	THY1
T_NK	MRT1	0	MRT3	THY1
B_Cell	MRT1	0	MRT3	THY1
Fibroblast	MRT1	0	MRT3	THY1
Endothelial_Cell	MRT1	0	MRT3	THY1
Endothelial_Progenitor	MRT1	0	MRT3	THY1
MRT1	MRT3	0	MRT3	THY1
MRT3	MRT3	0	MRT3	THY1
TAM	MRT3	0	MRT3	THY1
Monocyte	MRT3	0	MRT3	THY1
T_NK	MRT3	0	MRT3	THY1
B_Cell	MRT3	0	MRT3	THY1
Fibroblast	MRT3	0	MRT3	THY1
Endothelial_Cell	MRT3	0	MRT3	THY1

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT3	0	MRT3	THY1
MRT1	TAM	0	MRT3	THY1
MRT3	TAM	0.004009166358	MRT3	THY1
TAM	TAM	0	MRT3	THY1
Monocyte	TAM	0	MRT3	THY1
T_NK	TAM	0	MRT3	THY1
B_Cell	TAM	0	MRT3	THY1
Fibroblast	TAM	0.004009166358	MRT3	THY1
Endothelial_Cell	TAM	0.004009166358	MRT3	THY1
Endothelial_Progenitor	TAM	0	MRT3	THY1
MRT1	Monocyte	0	MRT3	THY1
MRT3	Monocyte	0	MRT3	THY1
TAM	Monocyte	0	MRT3	THY1
Monocyte	Monocyte	0	MRT3	THY1
T_NK	Monocyte	0	MRT3	THY1
B_Cell	Monocyte	0	MRT3	THY1
Fibroblast	Monocyte	0	MRT3	THY1
Endothelial_Cell	Monocyte	0	MRT3	THY1
Endothelial_Progenitor	Monocyte	0	MRT3	THY1
MRT1	T_NK	0	MRT3	THY1
MRT3	T_NK	0	MRT3	THY1
TAM	T_NK	0	MRT3	THY1
Monocyte	T_NK	0	MRT3	THY1
T_NK	T_NK	0	MRT3	THY1
B_Cell	T_NK	0	MRT3	THY1
Fibroblast	T_NK	0	MRT3	THY1
Endothelial_Cell	T_NK	0	MRT3	THY1
Endothelial_Progenitor	T_NK	0	MRT3	THY1
MRT1	B_Cell	0	MRT3	THY1
MRT3	B_Cell	0	MRT3	THY1

Source	Target	Probability	Sample	Pathway
TAM	B_Cell	0	MRT3	THY1
Monocyte	B_Cell	0	MRT3	THY1
T_NK	B_Cell	0	MRT3	THY1
B_Cell	B_Cell	0	MRT3	THY1
Fibroblast	B_Cell	0	MRT3	THY1
Endothelial_Cell	B_Cell	0	MRT3	THY1
Endothelial_Progenitor	B_Cell	0	MRT3	THY1
MRT1	Fibroblast	0	MRT3	THY1
MRT3	Fibroblast	0	MRT3	THY1
TAM	Fibroblast	0	MRT3	THY1
Monocyte	Fibroblast	0	MRT3	THY1
T_NK	Fibroblast	0	MRT3	THY1
B_Cell	Fibroblast	0	MRT3	THY1
Fibroblast	Fibroblast	0	MRT3	THY1
Endothelial_Cell	Fibroblast	0	MRT3	THY1
Endothelial_Progenitor	Fibroblast	0	MRT3	THY1
MRT1	Endothelial_Cell	0	MRT3	THY1
MRT3	Endothelial_Cell	0	MRT3	THY1
TAM	Endothelial_Cell	0	MRT3	THY1
Monocyte	Endothelial_Cell	0	MRT3	THY1
T_NK	Endothelial_Cell	0	MRT3	THY1
B_Cell	Endothelial_Cell	0	MRT3	THY1
Fibroblast	Endothelial_Cell	0	MRT3	THY1
Endothelial_Cell	Endothelial_Cell	0	MRT3	THY1
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	THY1
MRT1	Endothelial_Progenitor	0	MRT3	THY1
MRT3	Endothelial_Progenitor	0	MRT3	THY1
TAM	Endothelial_Progenitor	0	MRT3	THY1
Monocyte	Endothelial_Progenitor	0	MRT3	THY1
T_NK	Endothelial_Progenitor	0	MRT3	THY1

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Progenitor	0	MRT3	THY1
Fibroblast	Endothelial_Progenitor	0	MRT3	THY1
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	THY1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	THY1
MRT1	MRT1	0	MRT3	CCL
MRT3	MRT1	0	MRT3	CCL
TAM	MRT1	0	MRT3	CCL
Monocyte	MRT1	0	MRT3	CCL
T_NK	MRT1	0	MRT3	CCL
B_Cell	MRT1	0	MRT3	CCL
Fibroblast	MRT1	0	MRT3	CCL
Endothelial_Cell	MRT1	0	MRT3	CCL
Endothelial_Progenitor	MRT1	0	MRT3	CCL
MRT1	MRT3	0	MRT3	CCL
MRT3	MRT3	0	MRT3	CCL
TAM	MRT3	0	MRT3	CCL
Monocyte	MRT3	0	MRT3	CCL
T_NK	MRT3	0	MRT3	CCL
B_Cell	MRT3	0	MRT3	CCL
Fibroblast	MRT3	0	MRT3	CCL
Endothelial_Cell	MRT3	0	MRT3	CCL
Endothelial_Progenitor	MRT3	0	MRT3	CCL
MRT1	TAM	0	MRT3	CCL
MRT3	TAM	0	MRT3	CCL
TAM	TAM	0	MRT3	CCL
Monocyte	TAM	0	MRT3	CCL
T_NK	TAM	0	MRT3	CCL
B_Cell	TAM	0	MRT3	CCL
Fibroblast	TAM	0	MRT3	CCL
Endothelial_Cell	TAM	0	MRT3	CCL

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	TAM	0	MRT3	CCL
MRT1	Monocyte	0	MRT3	CCL
MRT3	Monocyte	0	MRT3	CCL
TAM	Monocyte	0	MRT3	CCL
Monocyte	Monocyte	0	MRT3	CCL
T_NK	Monocyte	0	MRT3	CCL
B_Cell	Monocyte	0	MRT3	CCL
Fibroblast	Monocyte	0	MRT3	CCL
Endothelial_Cell	Monocyte	0	MRT3	CCL
Endothelial_Progenitor	Monocyte	0	MRT3	CCL
MRT1	T_NK	0	MRT3	CCL
MRT3	T_NK	0	MRT3	CCL
TAM	T_NK	0	MRT3	CCL
Monocyte	T_NK	0	MRT3	CCL
T_NK	T_NK	0	MRT3	CCL
B_Cell	T_NK	0	MRT3	CCL
Fibroblast	T_NK	0	MRT3	CCL
Endothelial_Cell	T_NK	0.008169148938	MRT3	CCL
Endothelial_Progenitor	T_NK	0	MRT3	CCL
MRT1	B_Cell	0	MRT3	CCL
MRT3	B_Cell	0	MRT3	CCL
TAM	B_Cell	0	MRT3	CCL
Monocyte	B_Cell	0	MRT3	CCL
T_NK	B_Cell	0	MRT3	CCL
B_Cell	B_Cell	0	MRT3	CCL
Fibroblast	B_Cell	0	MRT3	CCL
Endothelial_Cell	B_Cell	0	MRT3	CCL
Endothelial_Progenitor	B_Cell	0	MRT3	CCL
MRT1	Fibroblast	0	MRT3	CCL
MRT3	Fibroblast	0	MRT3	CCL

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT3	CCL
Monocyte	Fibroblast	0	MRT3	CCL
T_NK	Fibroblast	0	MRT3	CCL
B_Cell	Fibroblast	0	MRT3	CCL
Fibroblast	Fibroblast	0	MRT3	CCL
Endothelial_Cell	Fibroblast	0	MRT3	CCL
Endothelial_Progenitor	Fibroblast	0	MRT3	CCL
MRT1	Endothelial_Cell	0	MRT3	CCL
MRT3	Endothelial_Cell	0	MRT3	CCL
TAM	Endothelial_Cell	0	MRT3	CCL
Monocyte	Endothelial_Cell	0	MRT3	CCL
T_NK	Endothelial_Cell	0	MRT3	CCL
B_Cell	Endothelial_Cell	0	MRT3	CCL
Fibroblast	Endothelial_Cell	0	MRT3	CCL
Endothelial_Cell	Endothelial_Cell	0	MRT3	CCL
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CCL
MRT1	Endothelial_Progenitor	0	MRT3	CCL
MRT3	Endothelial_Progenitor	0	MRT3	CCL
TAM	Endothelial_Progenitor	0	MRT3	CCL
Monocyte	Endothelial_Progenitor	0	MRT3	CCL
T_NK	Endothelial_Progenitor	0	MRT3	CCL
B_Cell	Endothelial_Progenitor	0	MRT3	CCL
Fibroblast	Endothelial_Progenitor	0	MRT3	CCL
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CCL
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CCL
MRT1	MRT1	0	MRT3	SEMA3
MRT3	MRT1	0	MRT3	SEMA3
TAM	MRT1	0	MRT3	SEMA3
Monocyte	MRT1	0	MRT3	SEMA3
T_NK	MRT1	0	MRT3	SEMA3

Source	Target	Probability	Sample	Pathway
B_Cell	MRT1	0	MRT3	SEMA3
Fibroblast	MRT1	0	MRT3	SEMA3
Endothelial_Cell	MRT1	0	MRT3	SEMA3
Endothelial_Progenitor	MRT1	0	MRT3	SEMA3
MRT1	MRT3	0	MRT3	SEMA3
MRT3	MRT3	0	MRT3	SEMA3
TAM	MRT3	0	MRT3	SEMA3
Monocyte	MRT3	0	MRT3	SEMA3
T_NK	MRT3	0	MRT3	SEMA3
B_Cell	MRT3	0	MRT3	SEMA3
Fibroblast	MRT3	0	MRT3	SEMA3
Endothelial_Cell	MRT3	0	MRT3	SEMA3
Endothelial_Progenitor	MRT3	0	MRT3	SEMA3
MRT1	TAM	0	MRT3	SEMA3
MRT3	TAM	0.004882678453	MRT3	SEMA3
TAM	TAM	0	MRT3	SEMA3
Monocyte	TAM	0	MRT3	SEMA3
T_NK	TAM	0	MRT3	SEMA3
B_Cell	TAM	0	MRT3	SEMA3
Fibroblast	TAM	0	MRT3	SEMA3
Endothelial_Cell	TAM	0	MRT3	SEMA3
Endothelial_Progenitor	TAM	0	MRT3	SEMA3
MRT1	Monocyte	0	MRT3	SEMA3
MRT3	Monocyte	0	MRT3	SEMA3
TAM	Monocyte	0	MRT3	SEMA3
Monocyte	Monocyte	0	MRT3	SEMA3
T_NK	Monocyte	0	MRT3	SEMA3
B_Cell	Monocyte	0	MRT3	SEMA3
Fibroblast	Monocyte	0	MRT3	SEMA3
Endothelial_Cell	Monocyte	0	MRT3	SEMA3

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Monocyte	0	MRT3	SEMA3
MRT1	T_NK	0	MRT3	SEMA3
MRT3	T_NK	0	MRT3	SEMA3
TAM	T_NK	0	MRT3	SEMA3
Monocyte	T_NK	0	MRT3	SEMA3
T_NK	T_NK	0	MRT3	SEMA3
B_Cell	T_NK	0	MRT3	SEMA3
Fibroblast	T_NK	0	MRT3	SEMA3
Endothelial_Cell	T_NK	0	MRT3	SEMA3
Endothelial_Progenitor	T_NK	0	MRT3	SEMA3
MRT1	B_Cell	0	MRT3	SEMA3
MRT3	B_Cell	0	MRT3	SEMA3
TAM	B_Cell	0	MRT3	SEMA3
Monocyte	B_Cell	0	MRT3	SEMA3
T_NK	B_Cell	0	MRT3	SEMA3
B_Cell	B_Cell	0	MRT3	SEMA3
Fibroblast	B_Cell	0	MRT3	SEMA3
Endothelial_Cell	B_Cell	0	MRT3	SEMA3
Endothelial_Progenitor	B_Cell	0	MRT3	SEMA3
MRT1	Fibroblast	0	MRT3	SEMA3
MRT3	Fibroblast	0	MRT3	SEMA3
TAM	Fibroblast	0	MRT3	SEMA3
Monocyte	Fibroblast	0	MRT3	SEMA3
T_NK	Fibroblast	0	MRT3	SEMA3
B_Cell	Fibroblast	0	MRT3	SEMA3
Fibroblast	Fibroblast	0	MRT3	SEMA3
Endothelial_Cell	Fibroblast	0	MRT3	SEMA3
Endothelial_Progenitor	Fibroblast	0	MRT3	SEMA3
MRT1	Endothelial_Cell	0	MRT3	SEMA3
MRT3	Endothelial_Cell	0.00266934735	MRT3	SEMA3

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT3	SEMA3
Monocyte	Endothelial_Cell	0	MRT3	SEMA3
T_NK	Endothelial_Cell	0	MRT3	SEMA3
B_Cell	Endothelial_Cell	0	MRT3	SEMA3
Fibroblast	Endothelial_Cell	0	MRT3	SEMA3
Endothelial_Cell	Endothelial_Cell	0	MRT3	SEMA3
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	SEMA3
MRT1	Endothelial_Progenitor	0	MRT3	SEMA3
MRT3	Endothelial_Progenitor	0	MRT3	SEMA3
TAM	Endothelial_Progenitor	0	MRT3	SEMA3
Monocyte	Endothelial_Progenitor	0	MRT3	SEMA3
T_NK	Endothelial_Progenitor	0	MRT3	SEMA3
B_Cell	Endothelial_Progenitor	0	MRT3	SEMA3
Fibroblast	Endothelial_Progenitor	0	MRT3	SEMA3
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	SEMA3
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	SEMA3
MRT1	MRT1	0	MRT3	SELL
MRT3	MRT1	0	MRT3	SELL
TAM	MRT1	0	MRT3	SELL
Monocyte	MRT1	0	MRT3	SELL
T_NK	MRT1	0	MRT3	SELL
B_Cell	MRT1	0	MRT3	SELL
Fibroblast	MRT1	0	MRT3	SELL
Endothelial_Cell	MRT1	0	MRT3	SELL
Endothelial_Progenitor	MRT1	0	MRT3	SELL
MRT1	MRT3	0	MRT3	SELL
MRT3	MRT3	0	MRT3	SELL
TAM	MRT3	0	MRT3	SELL
Monocyte	MRT3	0	MRT3	SELL
T_NK	MRT3	0.00266934735	MRT3	SELL

Source	Target	Probability	Sample	Pathway
B_Cell	MRT3	0	MRT3	SELL
Fibroblast	MRT3	0	MRT3	SELL
Endothelial_Cell	MRT3	0	MRT3	SELL
Endothelial_Progenitor	MRT3	0	MRT3	SELL
MRT1	TAM	0	MRT3	SELL
MRT3	TAM	0	MRT3	SELL
TAM	TAM	0	MRT3	SELL
Monocyte	TAM	0	MRT3	SELL
T_NK	TAM	0	MRT3	SELL
B_Cell	TAM	0	MRT3	SELL
Fibroblast	TAM	0	MRT3	SELL
Endothelial_Cell	TAM	0	MRT3	SELL
Endothelial_Progenitor	TAM	0	MRT3	SELL
MRT1	Monocyte	0	MRT3	SELL
MRT3	Monocyte	0	MRT3	SELL
TAM	Monocyte	0	MRT3	SELL
Monocyte	Monocyte	0	MRT3	SELL
T_NK	Monocyte	0	MRT3	SELL
B_Cell	Monocyte	0	MRT3	SELL
Fibroblast	Monocyte	0	MRT3	SELL
Endothelial_Cell	Monocyte	0	MRT3	SELL
Endothelial_Progenitor	Monocyte	0	MRT3	SELL
MRT1	T_NK	0	MRT3	SELL
MRT3	T_NK	0	MRT3	SELL
TAM	T_NK	0	MRT3	SELL
Monocyte	T_NK	0	MRT3	SELL
T_NK	T_NK	0	MRT3	SELL
B_Cell	T_NK	0	MRT3	SELL
Fibroblast	T_NK	0	MRT3	SELL
Endothelial_Cell	T_NK	0	MRT3	SELL

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	T_NK	0	MRT3	SELL
MRT1	B_Cell	0	MRT3	SELL
MRT3	B_Cell	0	MRT3	SELL
TAM	B_Cell	0	MRT3	SELL
Monocyte	B_Cell	0	MRT3	SELL
T_NK	B_Cell	0	MRT3	SELL
B_Cell	B_Cell	0	MRT3	SELL
Fibroblast	B_Cell	0	MRT3	SELL
Endothelial_Cell	B_Cell	0	MRT3	SELL
Endothelial_Progenitor	B_Cell	0	MRT3	SELL
MRT1	Fibroblast	0	MRT3	SELL
MRT3	Fibroblast	0	MRT3	SELL
TAM	Fibroblast	0	MRT3	SELL
Monocyte	Fibroblast	0	MRT3	SELL
T_NK	Fibroblast	0	MRT3	SELL
B_Cell	Fibroblast	0	MRT3	SELL
Fibroblast	Fibroblast	0	MRT3	SELL
Endothelial_Cell	Fibroblast	0	MRT3	SELL
Endothelial_Progenitor	Fibroblast	0	MRT3	SELL
MRT1	Endothelial_Cell	0	MRT3	SELL
MRT3	Endothelial_Cell	0	MRT3	SELL
TAM	Endothelial_Cell	0	MRT3	SELL
Monocyte	Endothelial_Cell	0	MRT3	SELL
T_NK	Endothelial_Cell	0.00266934735	MRT3	SELL
B_Cell	Endothelial_Cell	0	MRT3	SELL
Fibroblast	Endothelial_Cell	0	MRT3	SELL
Endothelial_Cell	Endothelial_Cell	0	MRT3	SELL
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	SELL
MRT1	Endothelial_Progenitor	0	MRT3	SELL
MRT3	Endothelial_Progenitor	0	MRT3	SELL

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Progenitor	0	MRT3	SELL
Monocyte	Endothelial_Progenitor	0	MRT3	SELL
T_NK	Endothelial_Progenitor	0	MRT3	SELL
B_Cell	Endothelial_Progenitor	0	MRT3	SELL
Fibroblast	Endothelial_Progenitor	0	MRT3	SELL
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	SELL
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	SELL
MRT1	MRT1	0	MRT3	CD86
MRT3	MRT1	0	MRT3	CD86
TAM	MRT1	0	MRT3	CD86
Monocyte	MRT1	0	MRT3	CD86
T_NK	MRT1	0	MRT3	CD86
B_Cell	MRT1	0	MRT3	CD86
Fibroblast	MRT1	0	MRT3	CD86
Endothelial_Cell	MRT1	0	MRT3	CD86
Endothelial_Progenitor	MRT1	0	MRT3	CD86
MRT1	MRT3	0	MRT3	CD86
MRT3	MRT3	0	MRT3	CD86
TAM	MRT3	0	MRT3	CD86
Monocyte	MRT3	0	MRT3	CD86
T_NK	MRT3	0	MRT3	CD86
B_Cell	MRT3	0	MRT3	CD86
Fibroblast	MRT3	0	MRT3	CD86
Endothelial_Cell	MRT3	0	MRT3	CD86
Endothelial_Progenitor	MRT3	0	MRT3	CD86
MRT1	TAM	0	MRT3	CD86
MRT3	TAM	0	MRT3	CD86
TAM	TAM	0	MRT3	CD86
Monocyte	TAM	0	MRT3	CD86
T_NK	TAM	0	MRT3	CD86

Source	Target	Probability	Sample	Pathway
B_Cell	TAM	0	MRT3	CD86
Fibroblast	TAM	0	MRT3	CD86
Endothelial_Cell	TAM	0	MRT3	CD86
Endothelial_Progenitor	TAM	0	MRT3	CD86
MRT1	Monocyte	0	MRT3	CD86
MRT3	Monocyte	0	MRT3	CD86
TAM	Monocyte	0	MRT3	CD86
Monocyte	Monocyte	0	MRT3	CD86
T_NK	Monocyte	0	MRT3	CD86
B_Cell	Monocyte	0	MRT3	CD86
Fibroblast	Monocyte	0	MRT3	CD86
Endothelial_Cell	Monocyte	0	MRT3	CD86
Endothelial_Progenitor	Monocyte	0	MRT3	CD86
MRT1	T_NK	0	MRT3	CD86
MRT3	T_NK	0	MRT3	CD86
TAM	T_NK	0.003447389906	MRT3	CD86
Monocyte	T_NK	0	MRT3	CD86
T_NK	T_NK	0	MRT3	CD86
B_Cell	T_NK	0	MRT3	CD86
Fibroblast	T_NK	0	MRT3	CD86
Endothelial_Cell	T_NK	0	MRT3	CD86
Endothelial_Progenitor	T_NK	0	MRT3	CD86
MRT1	B_Cell	0	MRT3	CD86
MRT3	B_Cell	0	MRT3	CD86
TAM	B_Cell	0	MRT3	CD86
Monocyte	B_Cell	0	MRT3	CD86
T_NK	B_Cell	0	MRT3	CD86
B_Cell	B_Cell	0	MRT3	CD86
Fibroblast	B_Cell	0	MRT3	CD86
Endothelial_Cell	B_Cell	0	MRT3	CD86

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	B_Cell	0	MRT3	CD86
MRT1	Fibroblast	0	MRT3	CD86
MRT3	Fibroblast	0	MRT3	CD86
TAM	Fibroblast	0	MRT3	CD86
Monocyte	Fibroblast	0	MRT3	CD86
T_NK	Fibroblast	0	MRT3	CD86
B_Cell	Fibroblast	0	MRT3	CD86
Fibroblast	Fibroblast	0	MRT3	CD86
Endothelial_Cell	Fibroblast	0	MRT3	CD86
Endothelial_Progenitor	Fibroblast	0	MRT3	CD86
MRT1	Endothelial_Cell	0	MRT3	CD86
MRT3	Endothelial_Cell	0	MRT3	CD86
TAM	Endothelial_Cell	0	MRT3	CD86
Monocyte	Endothelial_Cell	0	MRT3	CD86
T_NK	Endothelial_Cell	0	MRT3	CD86
B_Cell	Endothelial_Cell	0	MRT3	CD86
Fibroblast	Endothelial_Cell	0	MRT3	CD86
Endothelial_Cell	Endothelial_Cell	0	MRT3	CD86
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CD86
MRT1	Endothelial_Progenitor	0	MRT3	CD86
MRT3	Endothelial_Progenitor	0	MRT3	CD86
TAM	Endothelial_Progenitor	0	MRT3	CD86
Monocyte	Endothelial_Progenitor	0	MRT3	CD86
T_NK	Endothelial_Progenitor	0	MRT3	CD86
B_Cell	Endothelial_Progenitor	0	MRT3	CD86
Fibroblast	Endothelial_Progenitor	0	MRT3	CD86
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CD86
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CD86
MRT1	MRT1	0	MRT3	CD226
MRT3	MRT1	0	MRT3	CD226

Source	Target	Probability	Sample	Pathway
TAM	MRT1	0	MRT3	CD226
Monocyte	MRT1	0	MRT3	CD226
T_NK	MRT1	0	MRT3	CD226
B_Cell	MRT1	0	MRT3	CD226
Fibroblast	MRT1	0	MRT3	CD226
Endothelial_Cell	MRT1	0	MRT3	CD226
Endothelial_Progenitor	MRT1	0	MRT3	CD226
MRT1	MRT3	0	MRT3	CD226
MRT3	MRT3	0	MRT3	CD226
TAM	MRT3	0	MRT3	CD226
Monocyte	MRT3	0	MRT3	CD226
T_NK	MRT3	0.001336457409	MRT3	CD226
B_Cell	MRT3	0	MRT3	CD226
Fibroblast	MRT3	0	MRT3	CD226
Endothelial_Cell	MRT3	0	MRT3	CD226
Endothelial_Progenitor	MRT3	0	MRT3	CD226
MRT1	TAM	0	MRT3	CD226
MRT3	TAM	0	MRT3	CD226
TAM	TAM	0	MRT3	CD226
Monocyte	TAM	0	MRT3	CD226
T_NK	TAM	0	MRT3	CD226
B_Cell	TAM	0	MRT3	CD226
Fibroblast	TAM	0	MRT3	CD226
Endothelial_Cell	TAM	0	MRT3	CD226
Endothelial_Progenitor	TAM	0	MRT3	CD226
MRT1	Monocyte	0	MRT3	CD226
MRT3	Monocyte	0	MRT3	CD226
TAM	Monocyte	0	MRT3	CD226
Monocyte	Monocyte	0	MRT3	CD226
T_NK	Monocyte	0	MRT3	CD226

Source	Target	Probability	Sample	Pathway
B_Cell	Monocyte	0	MRT3	CD226
Fibroblast	Monocyte	0	MRT3	CD226
Endothelial_Cell	Monocyte	0	MRT3	CD226
Endothelial_Progenitor	Monocyte	0	MRT3	CD226
MRT1	T_NK	0	MRT3	CD226
MRT3	T_NK	0	MRT3	CD226
TAM	T_NK	0	MRT3	CD226
Monocyte	T_NK	0	MRT3	CD226
T_NK	T_NK	0	MRT3	CD226
B_Cell	T_NK	0	MRT3	CD226
Fibroblast	T_NK	0	MRT3	CD226
Endothelial_Cell	T_NK	0	MRT3	CD226
Endothelial_Progenitor	T_NK	0	MRT3	CD226
MRT1	B_Cell	0	MRT3	CD226
MRT3	B_Cell	0	MRT3	CD226
TAM	B_Cell	0	MRT3	CD226
Monocyte	B_Cell	0	MRT3	CD226
T_NK	B_Cell	0	MRT3	CD226
B_Cell	B_Cell	0	MRT3	CD226
Fibroblast	B_Cell	0	MRT3	CD226
Endothelial_Cell	B_Cell	0	MRT3	CD226
Endothelial_Progenitor	B_Cell	0	MRT3	CD226
MRT1	Fibroblast	0	MRT3	CD226
MRT3	Fibroblast	0	MRT3	CD226
TAM	Fibroblast	0	MRT3	CD226
Monocyte	Fibroblast	0	MRT3	CD226
T_NK	Fibroblast	0.001336457409	MRT3	CD226
B_Cell	Fibroblast	0	MRT3	CD226
Fibroblast	Fibroblast	0	MRT3	CD226
Endothelial_Cell	Fibroblast	0	MRT3	CD226

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Fibroblast	0	MRT3	CD226
MRT1	Endothelial_Cell	0	MRT3	CD226
MRT3	Endothelial_Cell	0	MRT3	CD226
TAM	Endothelial_Cell	0	MRT3	CD226
Monocyte	Endothelial_Cell	0	MRT3	CD226
T_NK	Endothelial_Cell	0	MRT3	CD226
B_Cell	Endothelial_Cell	0	MRT3	CD226
Fibroblast	Endothelial_Cell	0	MRT3	CD226
Endothelial_Cell	Endothelial_Cell	0	MRT3	CD226
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CD226
MRT1	Endothelial_Progenitor	0	MRT3	CD226
MRT3	Endothelial_Progenitor	0	MRT3	CD226
TAM	Endothelial_Progenitor	0	MRT3	CD226
Monocyte	Endothelial_Progenitor	0	MRT3	CD226
T_NK	Endothelial_Progenitor	0	MRT3	CD226
B_Cell	Endothelial_Progenitor	0	MRT3	CD226
Fibroblast	Endothelial_Progenitor	0	MRT3	CD226
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CD226
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CD226
MRT1	MRT1	0	MRT3	NECTIN
MRT3	MRT1	0	MRT3	NECTIN
TAM	MRT1	0	MRT3	NECTIN
Monocyte	MRT1	0	MRT3	NECTIN
T_NK	MRT1	0	MRT3	NECTIN
B_Cell	MRT1	0	MRT3	NECTIN
Fibroblast	MRT1	0	MRT3	NECTIN
Endothelial_Cell	MRT1	0	MRT3	NECTIN
Endothelial_Progenitor	MRT1	0	MRT3	NECTIN
MRT1	MRT3	0	MRT3	NECTIN
MRT3	MRT3	0	MRT3	NECTIN

Source	Target	Probability	Sample	Pathway
TAM	MRT3	0	MRT3	NECTIN
Monocyte	MRT3	0	MRT3	NECTIN
T_NK	MRT3	0	MRT3	NECTIN
B_Cell	MRT3	0	MRT3	NECTIN
Fibroblast	MRT3	0	MRT3	NECTIN
Endothelial_Cell	MRT3	0	MRT3	NECTIN
Endothelial_Progenitor	MRT3	0	MRT3	NECTIN
MRT1	TAM	0	MRT3	NECTIN
MRT3	TAM	0	MRT3	NECTIN
TAM	TAM	0	MRT3	NECTIN
Monocyte	TAM	0	MRT3	NECTIN
T_NK	TAM	0	MRT3	NECTIN
B_Cell	TAM	0	MRT3	NECTIN
Fibroblast	TAM	0	MRT3	NECTIN
Endothelial_Cell	TAM	0	MRT3	NECTIN
Endothelial_Progenitor	TAM	0	MRT3	NECTIN
MRT1	Monocyte	0	MRT3	NECTIN
MRT3	Monocyte	0	MRT3	NECTIN
TAM	Monocyte	0	MRT3	NECTIN
Monocyte	Monocyte	0	MRT3	NECTIN
T_NK	Monocyte	0	MRT3	NECTIN
B_Cell	Monocyte	0	MRT3	NECTIN
Fibroblast	Monocyte	0	MRT3	NECTIN
Endothelial_Cell	Monocyte	0	MRT3	NECTIN
Endothelial_Progenitor	Monocyte	0	MRT3	NECTIN
MRT1	T_NK	0	MRT3	NECTIN
MRT3	T_NK	0.001336457409	MRT3	NECTIN
TAM	T_NK	0	MRT3	NECTIN
Monocyte	T_NK	0	MRT3	NECTIN
T_NK	T_NK	0	MRT3	NECTIN

Source	Target	Probability	Sample	Pathway
B_Cell	T_NK	0	MRT3	NECTIN
Fibroblast	T_NK	0.001336457409	MRT3	NECTIN
Endothelial_Cell	T_NK	0	MRT3	NECTIN
Endothelial_Progenitor	T_NK	0	MRT3	NECTIN
MRT1	B_Cell	0	MRT3	NECTIN
MRT3	B_Cell	0	MRT3	NECTIN
TAM	B_Cell	0	MRT3	NECTIN
Monocyte	B_Cell	0	MRT3	NECTIN
T_NK	B_Cell	0	MRT3	NECTIN
B_Cell	B_Cell	0	MRT3	NECTIN
Fibroblast	B_Cell	0	MRT3	NECTIN
Endothelial_Cell	B_Cell	0	MRT3	NECTIN
Endothelial_Progenitor	B_Cell	0	MRT3	NECTIN
MRT1	Fibroblast	0	MRT3	NECTIN
MRT3	Fibroblast	0	MRT3	NECTIN
TAM	Fibroblast	0	MRT3	NECTIN
Monocyte	Fibroblast	0	MRT3	NECTIN
T_NK	Fibroblast	0	MRT3	NECTIN
B_Cell	Fibroblast	0	MRT3	NECTIN
Fibroblast	Fibroblast	0	MRT3	NECTIN
Endothelial_Cell	Fibroblast	0	MRT3	NECTIN
Endothelial_Progenitor	Fibroblast	0	MRT3	NECTIN
MRT1	Endothelial_Cell	0	MRT3	NECTIN
MRT3	Endothelial_Cell	0	MRT3	NECTIN
TAM	Endothelial_Cell	0	MRT3	NECTIN
Monocyte	Endothelial_Cell	0	MRT3	NECTIN
T_NK	Endothelial_Cell	0	MRT3	NECTIN
B_Cell	Endothelial_Cell	0	MRT3	NECTIN
Fibroblast	Endothelial_Cell	0	MRT3	NECTIN
Endothelial_Cell	Endothelial_Cell	0	MRT3	NECTIN

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	NECTIN
MRT1	Endothelial_Progenitor	0	MRT3	NECTIN
MRT3	Endothelial_Progenitor	0	MRT3	NECTIN
TAM	Endothelial_Progenitor	0	MRT3	NECTIN
Monocyte	Endothelial_Progenitor	0	MRT3	NECTIN
T_NK	Endothelial_Progenitor	0	MRT3	NECTIN
B_Cell	Endothelial_Progenitor	0	MRT3	NECTIN
Fibroblast	Endothelial_Progenitor	0	MRT3	NECTIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	NECTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	NECTIN
MRT1	MRT1	0	MRT3	NGL
MRT3	MRT1	0	MRT3	NGL
TAM	MRT1	0	MRT3	NGL
Monocyte	MRT1	0	MRT3	NGL
T_NK	MRT1	0	MRT3	NGL
B_Cell	MRT1	0	MRT3	NGL
Fibroblast	MRT1	0	MRT3	NGL
Endothelial_Cell	MRT1	0	MRT3	NGL
Endothelial_Progenitor	MRT1	0	MRT3	NGL
MRT1	MRT3	0	MRT3	NGL
MRT3	MRT3	0.00266934735	MRT3	NGL
TAM	MRT3	0	MRT3	NGL
Monocyte	MRT3	0	MRT3	NGL
T_NK	MRT3	0	MRT3	NGL
B_Cell	MRT3	0	MRT3	NGL
Fibroblast	MRT3	0	MRT3	NGL
Endothelial_Cell	MRT3	0	MRT3	NGL
Endothelial_Progenitor	MRT3	0	MRT3	NGL
MRT1	TAM	0	MRT3	NGL
MRT3	TAM	0	MRT3	NGL

Source	Target	Probability	Sample	Pathway
TAM	TAM	0	MRT3	NGL
Monocyte	TAM	0	MRT3	NGL
T_NK	TAM	0	MRT3	NGL
B_Cell	TAM	0	MRT3	NGL
Fibroblast	TAM	0	MRT3	NGL
Endothelial_Cell	TAM	0	MRT3	NGL
Endothelial_Progenitor	TAM	0	MRT3	NGL
MRT1	Monocyte	0	MRT3	NGL
MRT3	Monocyte	0	MRT3	NGL
TAM	Monocyte	0	MRT3	NGL
Monocyte	Monocyte	0	MRT3	NGL
T_NK	Monocyte	0	MRT3	NGL
B_Cell	Monocyte	0	MRT3	NGL
Fibroblast	Monocyte	0	MRT3	NGL
Endothelial_Cell	Monocyte	0	MRT3	NGL
Endothelial_Progenitor	Monocyte	0	MRT3	NGL
MRT1	T_NK	0	MRT3	NGL
MRT3	T_NK	0	MRT3	NGL
TAM	T_NK	0	MRT3	NGL
Monocyte	T_NK	0	MRT3	NGL
T_NK	T_NK	0	MRT3	NGL
B_Cell	T_NK	0	MRT3	NGL
Fibroblast	T_NK	0	MRT3	NGL
Endothelial_Cell	T_NK	0	MRT3	NGL
Endothelial_Progenitor	T_NK	0	MRT3	NGL
MRT1	B_Cell	0	MRT3	NGL
MRT3	B_Cell	0	MRT3	NGL
TAM	B_Cell	0	MRT3	NGL
Monocyte	B_Cell	0	MRT3	NGL
T_NK	B_Cell	0	MRT3	NGL

Source	Target	Probability	Sample	Pathway
B_Cell	B_Cell	0	MRT3	NGL
Fibroblast	B_Cell	0	MRT3	NGL
Endothelial_Cell	B_Cell	0	MRT3	NGL
Endothelial_Progenitor	B_Cell	0	MRT3	NGL
MRT1	Fibroblast	0	MRT3	NGL
MRT3	Fibroblast	0	MRT3	NGL
TAM	Fibroblast	0	MRT3	NGL
Monocyte	Fibroblast	0	MRT3	NGL
T_NK	Fibroblast	0	MRT3	NGL
B_Cell	Fibroblast	0	MRT3	NGL
Fibroblast	Fibroblast	0	MRT3	NGL
Endothelial_Cell	Fibroblast	0	MRT3	NGL
Endothelial_Progenitor	Fibroblast	0	MRT3	NGL
MRT1	Endothelial_Cell	0	MRT3	NGL
MRT3	Endothelial_Cell	0	MRT3	NGL
TAM	Endothelial_Cell	0	MRT3	NGL
Monocyte	Endothelial_Cell	0	MRT3	NGL
T_NK	Endothelial_Cell	0	MRT3	NGL
B_Cell	Endothelial_Cell	0	MRT3	NGL
Fibroblast	Endothelial_Cell	0	MRT3	NGL
Endothelial_Cell	Endothelial_Cell	0	MRT3	NGL
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	NGL
MRT1	Endothelial_Progenitor	0	MRT3	NGL
MRT3	Endothelial_Progenitor	0	MRT3	NGL
TAM	Endothelial_Progenitor	0	MRT3	NGL
Monocyte	Endothelial_Progenitor	0	MRT3	NGL
T_NK	Endothelial_Progenitor	0	MRT3	NGL
B_Cell	Endothelial_Progenitor	0	MRT3	NGL
Fibroblast	Endothelial_Progenitor	0	MRT3	NGL
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	NGL

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	NGL
MRT1	MRT1	0	MRT3	TGFb
MRT3	MRT1	0	MRT3	TGFb
TAM	MRT1	0	MRT3	TGFb
Monocyte	MRT1	0	MRT3	TGFb
T_NK	MRT1	0	MRT3	TGFb
B_Cell	MRT1	0	MRT3	TGFb
Fibroblast	MRT1	0	MRT3	TGFb
Endothelial_Cell	MRT1	0	MRT3	TGFb
Endothelial_Progenitor	MRT1	0	MRT3	TGFb
MRT1	MRT3	0	MRT3	TGFb
MRT3	MRT3	0	MRT3	TGFb
TAM	MRT3	0	MRT3	TGFb
Monocyte	MRT3	0	MRT3	TGFb
T_NK	MRT3	0	MRT3	TGFb
B_Cell	MRT3	0	MRT3	TGFb
Fibroblast	MRT3	0	MRT3	TGFb
Endothelial_Cell	MRT3	0	MRT3	TGFb
Endothelial_Progenitor	MRT3	0	MRT3	TGFb
MRT1	TAM	0	MRT3	TGFb
MRT3	TAM	0	MRT3	TGFb
TAM	TAM	0	MRT3	TGFb
Monocyte	TAM	0	MRT3	TGFb
T_NK	TAM	0	MRT3	TGFb
B_Cell	TAM	0	MRT3	TGFb
Fibroblast	TAM	0.000923377136	MRT3	TGFb
Endothelial_Cell	TAM	0.00122221282	MRT3	TGFb
Endothelial_Progenitor	TAM	0	MRT3	TGFb
MRT1	Monocyte	0	MRT3	TGFb
MRT3	Monocyte	0	MRT3	TGFb

Source	Target	Probability	Sample	Pathway
TAM	Monocyte	0	MRT3	TGFb
Monocyte	Monocyte	0	MRT3	TGFb
T_NK	Monocyte	0	MRT3	TGFb
B_Cell	Monocyte	0	MRT3	TGFb
Fibroblast	Monocyte	0	MRT3	TGFb
Endothelial_Cell	Monocyte	0	MRT3	TGFb
Endothelial_Progenitor	Monocyte	0	MRT3	TGFb
MRT1	T_NK	0	MRT3	TGFb
MRT3	T_NK	0	MRT3	TGFb
TAM	T_NK	0	MRT3	TGFb
Monocyte	T_NK	0	MRT3	TGFb
T_NK	T_NK	0	MRT3	TGFb
B_Cell	T_NK	0	MRT3	TGFb
Fibroblast	T_NK	0	MRT3	TGFb
Endothelial_Cell	T_NK	0	MRT3	TGFb
Endothelial_Progenitor	T_NK	0	MRT3	TGFb
MRT1	B_Cell	0	MRT3	TGFb
MRT3	B_Cell	0	MRT3	TGFb
TAM	B_Cell	0	MRT3	TGFb
Monocyte	B_Cell	0	MRT3	TGFb
T_NK	B_Cell	0	MRT3	TGFb
B_Cell	B_Cell	0	MRT3	TGFb
Fibroblast	B_Cell	0	MRT3	TGFb
Endothelial_Cell	B_Cell	0	MRT3	TGFb
Endothelial_Progenitor	B_Cell	0	MRT3	TGFb
MRT1	Fibroblast	0	MRT3	TGFb
MRT3	Fibroblast	0	MRT3	TGFb
TAM	Fibroblast	0	MRT3	TGFb
Monocyte	Fibroblast	0	MRT3	TGFb
T_NK	Fibroblast	0	MRT3	TGFb

Source	Target	Probability	Sample	Pathway
B_Cell	Fibroblast	0	MRT3	TGFb
Fibroblast	Fibroblast	0	MRT3	TGFb
Endothelial_Cell	Fibroblast	0	MRT3	TGFb
Endothelial_Progenitor	Fibroblast	0	MRT3	TGFb
MRT1	Endothelial_Cell	0	MRT3	TGFb
MRT3	Endothelial_Cell	0	MRT3	TGFb
TAM	Endothelial_Cell	0	MRT3	TGFb
Monocyte	Endothelial_Cell	0	MRT3	TGFb
T_NK	Endothelial_Cell	0	MRT3	TGFb
B_Cell	Endothelial_Cell	0	MRT3	TGFb
Fibroblast	Endothelial_Cell	0	MRT3	TGFb
Endothelial_Cell	Endothelial_Cell	0	MRT3	TGFb
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	TGFb
MRT1	Endothelial_Progenitor	0	MRT3	TGFb
MRT3	Endothelial_Progenitor	0	MRT3	TGFb
TAM	Endothelial_Progenitor	0	MRT3	TGFb
Monocyte	Endothelial_Progenitor	0	MRT3	TGFb
T_NK	Endothelial_Progenitor	0	MRT3	TGFb
B_Cell	Endothelial_Progenitor	0	MRT3	TGFb
Fibroblast	Endothelial_Progenitor	0	MRT3	TGFb
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	TGFb
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	TGFb
MRT1	MRT1	0	MRT3	ADGRE5
MRT3	MRT1	0	MRT3	ADGRE5
TAM	MRT1	0	MRT3	ADGRE5
Monocyte	MRT1	0	MRT3	ADGRE5
T_NK	MRT1	0	MRT3	ADGRE5
B_Cell	MRT1	0	MRT3	ADGRE5
Fibroblast	MRT1	0	MRT3	ADGRE5
Endothelial_Cell	MRT1	0	MRT3	ADGRE5

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT1	0	MRT3	ADGRE5
MRT1	MRT3	0	MRT3	ADGRE5
MRT3	MRT3	0	MRT3	ADGRE5
TAM	MRT3	0	MRT3	ADGRE5
Monocyte	MRT3	0	MRT3	ADGRE5
T_NK	MRT3	0	MRT3	ADGRE5
B_Cell	MRT3	0	MRT3	ADGRE5
Fibroblast	MRT3	0	MRT3	ADGRE5
Endothelial_Cell	MRT3	0	MRT3	ADGRE5
Endothelial_Progenitor	MRT3	0	MRT3	ADGRE5
MRT1	TAM	0	MRT3	ADGRE5
MRT3	TAM	0	MRT3	ADGRE5
TAM	TAM	0	MRT3	ADGRE5
Monocyte	TAM	0	MRT3	ADGRE5
T_NK	TAM	0	MRT3	ADGRE5
B_Cell	TAM	0	MRT3	ADGRE5
Fibroblast	TAM	0	MRT3	ADGRE5
Endothelial_Cell	TAM	0	MRT3	ADGRE5
Endothelial_Progenitor	TAM	0	MRT3	ADGRE5
MRT1	Monocyte	0	MRT3	ADGRE5
MRT3	Monocyte	0	MRT3	ADGRE5
TAM	Monocyte	0	MRT3	ADGRE5
Monocyte	Monocyte	0	MRT3	ADGRE5
T_NK	Monocyte	0	MRT3	ADGRE5
B_Cell	Monocyte	0	MRT3	ADGRE5
Fibroblast	Monocyte	0	MRT3	ADGRE5
Endothelial_Cell	Monocyte	0	MRT3	ADGRE5
Endothelial_Progenitor	Monocyte	0	MRT3	ADGRE5
MRT1	T_NK	0	MRT3	ADGRE5
MRT3	T_NK	0	MRT3	ADGRE5

Source	Target	Probability	Sample	Pathway
TAM	T_NK	0	MRT3	ADGRE5
Monocyte	T_NK	0	MRT3	ADGRE5
T_NK	T_NK	0.002116580183	MRT3	ADGRE5
B_Cell	T_NK	0	MRT3	ADGRE5
Fibroblast	T_NK	0	MRT3	ADGRE5
Endothelial_Cell	T_NK	0	MRT3	ADGRE5
Endothelial_Progenitor	T_NK	0	MRT3	ADGRE5
MRT1	B_Cell	0	MRT3	ADGRE5
MRT3	B_Cell	0	MRT3	ADGRE5
TAM	B_Cell	0	MRT3	ADGRE5
Monocyte	B_Cell	0	MRT3	ADGRE5
T_NK	B_Cell	0	MRT3	ADGRE5
B_Cell	B_Cell	0	MRT3	ADGRE5
Fibroblast	B_Cell	0	MRT3	ADGRE5
Endothelial_Cell	B_Cell	0	MRT3	ADGRE5
Endothelial_Progenitor	B_Cell	0	MRT3	ADGRE5
MRT1	Fibroblast	0	MRT3	ADGRE5
MRT3	Fibroblast	0	MRT3	ADGRE5
TAM	Fibroblast	0	MRT3	ADGRE5
Monocyte	Fibroblast	0	MRT3	ADGRE5
T_NK	Fibroblast	0	MRT3	ADGRE5
B_Cell	Fibroblast	0	MRT3	ADGRE5
Fibroblast	Fibroblast	0	MRT3	ADGRE5
Endothelial_Cell	Fibroblast	0	MRT3	ADGRE5
Endothelial_Progenitor	Fibroblast	0	MRT3	ADGRE5
MRT1	Endothelial_Cell	0	MRT3	ADGRE5
MRT3	Endothelial_Cell	0	MRT3	ADGRE5
TAM	Endothelial_Cell	0	MRT3	ADGRE5
Monocyte	Endothelial_Cell	0	MRT3	ADGRE5
T_NK	Endothelial_Cell	0	MRT3	ADGRE5

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Cell	0	MRT3	ADGRE5
Fibroblast	Endothelial_Cell	0	MRT3	ADGRE5
Endothelial_Cell	Endothelial_Cell	0	MRT3	ADGRE5
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	ADGRE5
MRT1	Endothelial_Progenitor	0	MRT3	ADGRE5
MRT3	Endothelial_Progenitor	0	MRT3	ADGRE5
TAM	Endothelial_Progenitor	0	MRT3	ADGRE5
Monocyte	Endothelial_Progenitor	0	MRT3	ADGRE5
T_NK	Endothelial_Progenitor	0	MRT3	ADGRE5
B_Cell	Endothelial_Progenitor	0	MRT3	ADGRE5
Fibroblast	Endothelial_Progenitor	0	MRT3	ADGRE5
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	ADGRE5
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	ADGRE5
MRT1	MRT1	0	MRT3	ITGB2
MRT3	MRT1	0	MRT3	ITGB2
TAM	MRT1	0	MRT3	ITGB2
Monocyte	MRT1	0	MRT3	ITGB2
T_NK	MRT1	0	MRT3	ITGB2
B_Cell	MRT1	0	MRT3	ITGB2
Fibroblast	MRT1	0	MRT3	ITGB2
Endothelial_Cell	MRT1	0	MRT3	ITGB2
Endothelial_Progenitor	MRT1	0	MRT3	ITGB2
MRT1	MRT3	0	MRT3	ITGB2
MRT3	MRT3	0	MRT3	ITGB2
TAM	MRT3	0	MRT3	ITGB2
Monocyte	MRT3	0	MRT3	ITGB2
T_NK	MRT3	0	MRT3	ITGB2
B_Cell	MRT3	0	MRT3	ITGB2
Fibroblast	MRT3	0	MRT3	ITGB2
Endothelial_Cell	MRT3	0	MRT3	ITGB2

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	MRT3	0	MRT3	ITGB2
MRT1	TAM	0	MRT3	ITGB2
MRT3	TAM	0	MRT3	ITGB2
TAM	TAM	0	MRT3	ITGB2
Monocyte	TAM	0	MRT3	ITGB2
T_NK	TAM	0	MRT3	ITGB2
B_Cell	TAM	0	MRT3	ITGB2
Fibroblast	TAM	0	MRT3	ITGB2
Endothelial_Cell	TAM	0	MRT3	ITGB2
Endothelial_Progenitor	TAM	0	MRT3	ITGB2
MRT1	Monocyte	0	MRT3	ITGB2
MRT3	Monocyte	0	MRT3	ITGB2
TAM	Monocyte	0	MRT3	ITGB2
Monocyte	Monocyte	0	MRT3	ITGB2
T_NK	Monocyte	0	MRT3	ITGB2
B_Cell	Monocyte	0	MRT3	ITGB2
Fibroblast	Monocyte	0	MRT3	ITGB2
Endothelial_Cell	Monocyte	0	MRT3	ITGB2
Endothelial_Progenitor	Monocyte	0	MRT3	ITGB2
MRT1	T_NK	0	MRT3	ITGB2
MRT3	T_NK	0	MRT3	ITGB2
TAM	T_NK	0.002116580183	MRT3	ITGB2
Monocyte	T_NK	0	MRT3	ITGB2
T_NK	T_NK	0	MRT3	ITGB2
B_Cell	T_NK	0	MRT3	ITGB2
Fibroblast	T_NK	0	MRT3	ITGB2
Endothelial_Cell	T_NK	0	MRT3	ITGB2
Endothelial_Progenitor	T_NK	0	MRT3	ITGB2
MRT1	B_Cell	0	MRT3	ITGB2
MRT3	B_Cell	0	MRT3	ITGB2

Source	Target	Probability	Sample	Pathway
TAM	B_Cell	0	MRT3	ITGB2
Monocyte	B_Cell	0	MRT3	ITGB2
T_NK	B_Cell	0	MRT3	ITGB2
B_Cell	B_Cell	0	MRT3	ITGB2
Fibroblast	B_Cell	0	MRT3	ITGB2
Endothelial_Cell	B_Cell	0	MRT3	ITGB2
Endothelial_Progenitor	B_Cell	0	MRT3	ITGB2
MRT1	Fibroblast	0	MRT3	ITGB2
MRT3	Fibroblast	0	MRT3	ITGB2
TAM	Fibroblast	0	MRT3	ITGB2
Monocyte	Fibroblast	0	MRT3	ITGB2
T_NK	Fibroblast	0	MRT3	ITGB2
B_Cell	Fibroblast	0	MRT3	ITGB2
Fibroblast	Fibroblast	0	MRT3	ITGB2
Endothelial_Cell	Fibroblast	0	MRT3	ITGB2
Endothelial_Progenitor	Fibroblast	0	MRT3	ITGB2
MRT1	Endothelial_Cell	0	MRT3	ITGB2
MRT3	Endothelial_Cell	0	MRT3	ITGB2
TAM	Endothelial_Cell	0	MRT3	ITGB2
Monocyte	Endothelial_Cell	0	MRT3	ITGB2
T_NK	Endothelial_Cell	0	MRT3	ITGB2
B_Cell	Endothelial_Cell	0	MRT3	ITGB2
Fibroblast	Endothelial_Cell	0	MRT3	ITGB2
Endothelial_Cell	Endothelial_Cell	0	MRT3	ITGB2
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	ITGB2
MRT1	Endothelial_Progenitor	0	MRT3	ITGB2
MRT3	Endothelial_Progenitor	0	MRT3	ITGB2
TAM	Endothelial_Progenitor	0	MRT3	ITGB2
Monocyte	Endothelial_Progenitor	0	MRT3	ITGB2
T_NK	Endothelial_Progenitor	0	MRT3	ITGB2

Source	Target	Probability	Sample	Pathway
B_Cell	Endothelial_Progenitor	0	MRT3	ITGB2
Fibroblast	Endothelial_Progenitor	0	MRT3	ITGB2
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	ITGB2
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	ITGB2
MRT1	MRT1	0	MRT3	CADM
MRT3	MRT1	0	MRT3	CADM
TAM	MRT1	0	MRT3	CADM
Monocyte	MRT1	0	MRT3	CADM
T_NK	MRT1	0	MRT3	CADM
B_Cell	MRT1	0	MRT3	CADM
Fibroblast	MRT1	0	MRT3	CADM
Endothelial_Cell	MRT1	0	MRT3	CADM
Endothelial_Progenitor	MRT1	0	MRT3	CADM
MRT1	MRT3	0	MRT3	CADM
MRT3	MRT3	0	MRT3	CADM
TAM	MRT3	0	MRT3	CADM
Monocyte	MRT3	0	MRT3	CADM
T_NK	MRT3	0	MRT3	CADM
B_Cell	MRT3	0	MRT3	CADM
Fibroblast	MRT3	0	MRT3	CADM
Endothelial_Cell	MRT3	0	MRT3	CADM
Endothelial_Progenitor	MRT3	0	MRT3	CADM
MRT1	TAM	0	MRT3	CADM
MRT3	TAM	0	MRT3	CADM
TAM	TAM	0.001685831508	MRT3	CADM
Monocyte	TAM	0	MRT3	CADM
T_NK	TAM	0	MRT3	CADM
B_Cell	TAM	0	MRT3	CADM
Fibroblast	TAM	0	MRT3	CADM
Endothelial_Cell	TAM	0	MRT3	CADM

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	TAM	0	MRT3	CADM
MRT1	Monocyte	0	MRT3	CADM
MRT3	Monocyte	0	MRT3	CADM
TAM	Monocyte	0	MRT3	CADM
Monocyte	Monocyte	0	MRT3	CADM
T_NK	Monocyte	0	MRT3	CADM
B_Cell	Monocyte	0	MRT3	CADM
Fibroblast	Monocyte	0	MRT3	CADM
Endothelial_Cell	Monocyte	0	MRT3	CADM
Endothelial_Progenitor	Monocyte	0	MRT3	CADM
MRT1	T_NK	0	MRT3	CADM
MRT3	T_NK	0	MRT3	CADM
TAM	T_NK	0	MRT3	CADM
Monocyte	T_NK	0	MRT3	CADM
T_NK	T_NK	0	MRT3	CADM
B_Cell	T_NK	0	MRT3	CADM
Fibroblast	T_NK	0	MRT3	CADM
Endothelial_Cell	T_NK	0	MRT3	CADM
Endothelial_Progenitor	T_NK	0	MRT3	CADM
MRT1	B_Cell	0	MRT3	CADM
MRT3	B_Cell	0	MRT3	CADM
TAM	B_Cell	0	MRT3	CADM
Monocyte	B_Cell	0	MRT3	CADM
T_NK	B_Cell	0	MRT3	CADM
B_Cell	B_Cell	0	MRT3	CADM
Fibroblast	B_Cell	0	MRT3	CADM
Endothelial_Cell	B_Cell	0	MRT3	CADM
Endothelial_Progenitor	B_Cell	0	MRT3	CADM
MRT1	Fibroblast	0	MRT3	CADM
MRT3	Fibroblast	0	MRT3	CADM

Source	Target	Probability	Sample	Pathway
TAM	Fibroblast	0	MRT3	CADM
Monocyte	Fibroblast	0	MRT3	CADM
T_NK	Fibroblast	0	MRT3	CADM
B_Cell	Fibroblast	0	MRT3	CADM
Fibroblast	Fibroblast	0	MRT3	CADM
Endothelial_Cell	Fibroblast	0	MRT3	CADM
Endothelial_Progenitor	Fibroblast	0	MRT3	CADM
MRT1	Endothelial_Cell	0	MRT3	CADM
MRT3	Endothelial_Cell	0	MRT3	CADM
TAM	Endothelial_Cell	0	MRT3	CADM
Monocyte	Endothelial_Cell	0	MRT3	CADM
T_NK	Endothelial_Cell	0	MRT3	CADM
B_Cell	Endothelial_Cell	0	MRT3	CADM
Fibroblast	Endothelial_Cell	0	MRT3	CADM
Endothelial_Cell	Endothelial_Cell	0	MRT3	CADM
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	CADM
MRT1	Endothelial_Progenitor	0	MRT3	CADM
MRT3	Endothelial_Progenitor	0	MRT3	CADM
TAM	Endothelial_Progenitor	0	MRT3	CADM
Monocyte	Endothelial_Progenitor	0	MRT3	CADM
T_NK	Endothelial_Progenitor	0	MRT3	CADM
B_Cell	Endothelial_Progenitor	0	MRT3	CADM
Fibroblast	Endothelial_Progenitor	0	MRT3	CADM
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	CADM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	CADM
MRT1	MRT1	0	MRT3	EPHB
MRT3	MRT1	0	MRT3	EPHB
TAM	MRT1	0	MRT3	EPHB
Monocyte	MRT1	0	MRT3	EPHB
T_NK	MRT1	0	MRT3	EPHB

Source	Target	Probability	Sample	Pathway
B_Cell	MRT1	0	MRT3	EPHB
Fibroblast	MRT1	0	MRT3	EPHB
Endothelial_Cell	MRT1	0	MRT3	EPHB
Endothelial_Progenitor	MRT1	0	MRT3	EPHB
MRT1	MRT3	0	MRT3	EPHB
MRT3	MRT3	0	MRT3	EPHB
TAM	MRT3	0	MRT3	EPHB
Monocyte	MRT3	0	MRT3	EPHB
T_NK	MRT3	0	MRT3	EPHB
B_Cell	MRT3	0	MRT3	EPHB
Fibroblast	MRT3	0	MRT3	EPHB
Endothelial_Cell	MRT3	0	MRT3	EPHB
Endothelial_Progenitor	MRT3	0	MRT3	EPHB
MRT1	TAM	0	MRT3	EPHB
MRT3	TAM	0	MRT3	EPHB
TAM	TAM	0	MRT3	EPHB
Monocyte	TAM	0	MRT3	EPHB
T_NK	TAM	0	MRT3	EPHB
B_Cell	TAM	0	MRT3	EPHB
Fibroblast	TAM	0	MRT3	EPHB
Endothelial_Cell	TAM	0	MRT3	EPHB
Endothelial_Progenitor	TAM	0	MRT3	EPHB
MRT1	Monocyte	0	MRT3	EPHB
MRT3	Monocyte	0	MRT3	EPHB
TAM	Monocyte	0	MRT3	EPHB
Monocyte	Monocyte	0	MRT3	EPHB
T_NK	Monocyte	0	MRT3	EPHB
B_Cell	Monocyte	0	MRT3	EPHB
Fibroblast	Monocyte	0	MRT3	EPHB
Endothelial_Cell	Monocyte	0	MRT3	EPHB

Source	Target	Probability	Sample	Pathway
Endothelial_Progenitor	Monocyte	0	MRT3	EPHB
MRT1	T_NK	0	MRT3	EPHB
MRT3	T_NK	0	MRT3	EPHB
TAM	T_NK	0	MRT3	EPHB
Monocyte	T_NK	0	MRT3	EPHB
T_NK	T_NK	0	MRT3	EPHB
B_Cell	T_NK	0	MRT3	EPHB
Fibroblast	T_NK	0	MRT3	EPHB
Endothelial_Cell	T_NK	0	MRT3	EPHB
Endothelial_Progenitor	T_NK	0	MRT3	EPHB
MRT1	B_Cell	0	MRT3	EPHB
MRT3	B_Cell	0	MRT3	EPHB
TAM	B_Cell	0	MRT3	EPHB
Monocyte	B_Cell	0	MRT3	EPHB
T_NK	B_Cell	0	MRT3	EPHB
B_Cell	B_Cell	0	MRT3	EPHB
Fibroblast	B_Cell	0	MRT3	EPHB
Endothelial_Cell	B_Cell	0	MRT3	EPHB
Endothelial_Progenitor	B_Cell	0	MRT3	EPHB
MRT1	Fibroblast	0	MRT3	EPHB
MRT3	Fibroblast	0	MRT3	EPHB
TAM	Fibroblast	0	MRT3	EPHB
Monocyte	Fibroblast	0	MRT3	EPHB
T_NK	Fibroblast	0	MRT3	EPHB
B_Cell	Fibroblast	0	MRT3	EPHB
Fibroblast	Fibroblast	0	MRT3	EPHB
Endothelial_Cell	Fibroblast	0	MRT3	EPHB
Endothelial_Progenitor	Fibroblast	0	MRT3	EPHB
MRT1	Endothelial_Cell	0	MRT3	EPHB
MRT3	Endothelial_Cell	0.001685831508	MRT3	EPHB

Source	Target	Probability	Sample	Pathway
TAM	Endothelial_Cell	0	MRT3	EPHB
Monocyte	Endothelial_Cell	0	MRT3	EPHB
T_NK	Endothelial_Cell	0	MRT3	EPHB
B_Cell	Endothelial_Cell	0	MRT3	EPHB
Fibroblast	Endothelial_Cell	0	MRT3	EPHB
Endothelial_Cell	Endothelial_Cell	0	MRT3	EPHB
Endothelial_Progenitor	Endothelial_Cell	0	MRT3	EPHB
MRT1	Endothelial_Progenitor	0	MRT3	EPHB
MRT3	Endothelial_Progenitor	0	MRT3	EPHB
TAM	Endothelial_Progenitor	0	MRT3	EPHB
Monocyte	Endothelial_Progenitor	0	MRT3	EPHB
T_NK	Endothelial_Progenitor	0	MRT3	EPHB
B_Cell	Endothelial_Progenitor	0	MRT3	EPHB
Fibroblast	Endothelial_Progenitor	0	MRT3	EPHB
Endothelial_Cell	Endothelial_Progenitor	0	MRT3	EPHB
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT3	EPHB
MRT4	MRT4	0.04990574897	MRT4	COLLAGEN
TAM	MRT4	0	MRT4	COLLAGEN
Monocyte	MRT4	0	MRT4	COLLAGEN
T_NK	MRT4	0	MRT4	COLLAGEN
Fibroblast	MRT4	0.2241006583	MRT4	COLLAGEN
Endothelial_Cell	MRT4	0.06798161909	MRT4	COLLAGEN
Endothelial_Progenitor	MRT4	0.07473057846	MRT4	COLLAGEN
Adipocyte	MRT4	0.117672059	MRT4	COLLAGEN
Unknown	MRT4	0	MRT4	COLLAGEN
MRT4	TAM	0.2151112709	MRT4	COLLAGEN
TAM	TAM	0.1050378769	MRT4	COLLAGEN
Monocyte	TAM	0	MRT4	COLLAGEN
T_NK	TAM	0	MRT4	COLLAGEN
Fibroblast	TAM	0.9568412544	MRT4	COLLAGEN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	TAM	0.3804778142	MRT4	COLLAGEN
Endothelial_Progenitor	TAM	0.4724447799	MRT4	COLLAGEN
Adipocyte	TAM	0.5301466781	MRT4	COLLAGEN
Unknown	TAM	0.119427922	MRT4	COLLAGEN
MRT4	Monocyte	0	MRT4	COLLAGEN
TAM	Monocyte	0	MRT4	COLLAGEN
Monocyte	Monocyte	0	MRT4	COLLAGEN
T_NK	Monocyte	0	MRT4	COLLAGEN
Fibroblast	Monocyte	0	MRT4	COLLAGEN
Endothelial_Cell	Monocyte	0	MRT4	COLLAGEN
Endothelial_Progenitor	Monocyte	0	MRT4	COLLAGEN
Adipocyte	Monocyte	0	MRT4	COLLAGEN
Unknown	Monocyte	0	MRT4	COLLAGEN
MRT4	T_NK	0	MRT4	COLLAGEN
TAM	T_NK	0	MRT4	COLLAGEN
Monocyte	T_NK	0	MRT4	COLLAGEN
T_NK	T_NK	0	MRT4	COLLAGEN
Fibroblast	T_NK	0	MRT4	COLLAGEN
Endothelial_Cell	T_NK	0	MRT4	COLLAGEN
Endothelial_Progenitor	T_NK	0	MRT4	COLLAGEN
Adipocyte	T_NK	0	MRT4	COLLAGEN
Unknown	T_NK	0	MRT4	COLLAGEN
MRT4	Fibroblast	0.2478415267	MRT4	COLLAGEN
TAM	Fibroblast	0.1207770887	MRT4	COLLAGEN
Monocyte	Fibroblast	0	MRT4	COLLAGEN
T_NK	Fibroblast	0	MRT4	COLLAGEN
Fibroblast	Fibroblast	1.103498364	MRT4	COLLAGEN
Endothelial_Cell	Fibroblast	0.4378065786	MRT4	COLLAGEN
Endothelial_Progenitor	Fibroblast	0.5443222341	MRT4	COLLAGEN
Adipocyte	Fibroblast	0.6108613498	MRT4	COLLAGEN

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0.1374082456	MRT4	COLLAGEN
MRT4	Endothelial_Cell	0.2282172116	MRT4	COLLAGEN
TAM	Endothelial_Cell	0.1119844522	MRT4	COLLAGEN
Monocyte	Endothelial_Cell	0	MRT4	COLLAGEN
T_NK	Endothelial_Cell	0	MRT4	COLLAGEN
Fibroblast	Endothelial_Cell	1.013309182	MRT4	COLLAGEN
Endothelial_Cell	Endothelial_Cell	0.4048570912	MRT4	COLLAGEN
Endothelial_Progenitor	Endothelial_Cell	0.5012033047	MRT4	COLLAGEN
Adipocyte	Endothelial_Cell	0.5623586474	MRT4	COLLAGEN
Unknown	Endothelial_Cell	0.1271125901	MRT4	COLLAGEN
MRT4	Endothelial_Progenitor	0.1964458012	MRT4	COLLAGEN
TAM	Endothelial_Progenitor	0.09424888409	MRT4	COLLAGEN
Monocyte	Endothelial_Progenitor	0	MRT4	COLLAGEN
T_NK	Endothelial_Progenitor	0	MRT4	COLLAGEN
Fibroblast	Endothelial_Progenitor	0.8798336022	MRT4	COLLAGEN
Endothelial_Cell	Endothelial_Progenitor	0.3437438112	MRT4	COLLAGEN
Endothelial_Progenitor	Endothelial_Progenitor	0.4314979733	MRT4	COLLAGEN
Adipocyte	Endothelial_Progenitor	0.4844331636	MRT4	COLLAGEN
Unknown	Endothelial_Progenitor	0.1077983178	MRT4	COLLAGEN
MRT4	Adipocyte	0.09456874604	MRT4	COLLAGEN
TAM	Adipocyte	0.04503209862	MRT4	COLLAGEN
Monocyte	Adipocyte	0	MRT4	COLLAGEN
T_NK	Adipocyte	0	MRT4	COLLAGEN
Fibroblast	Adipocyte	0.4248298216	MRT4	COLLAGEN
Endothelial_Cell	Adipocyte	0.1647175852	MRT4	COLLAGEN
Endothelial_Progenitor	Adipocyte	0.2077280576	MRT4	COLLAGEN
Adipocyte	Adipocyte	0.2332661404	MRT4	COLLAGEN
Unknown	Adipocyte	0.05163519321	MRT4	COLLAGEN
MRT4	Unknown	0.2394316874	MRT4	COLLAGEN
TAM	Unknown	0.1232424308	MRT4	COLLAGEN

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT4	COLLAGEN
T_NK	Unknown	0	MRT4	COLLAGEN
Fibroblast	Unknown	1.044806771	MRT4	COLLAGEN
Endothelial_Cell	Unknown	0.4372241258	MRT4	COLLAGEN
Endothelial_Progenitor	Unknown	0.525477087	MRT4	COLLAGEN
Adipocyte	Unknown	0.5891273455	MRT4	COLLAGEN
Unknown	Unknown	0.1376126929	MRT4	COLLAGEN
MRT4	MRT4	0.07543008251	MRT4	LAMININ
TAM	MRT4	0	MRT4	LAMININ
Monocyte	MRT4	0	MRT4	LAMININ
T_NK	MRT4	0	MRT4	LAMININ
Fibroblast	MRT4	0.08931277006	MRT4	LAMININ
Endothelial_Cell	MRT4	0.1167009646	MRT4	LAMININ
Endothelial_Progenitor	MRT4	0.1063770762	MRT4	LAMININ
Adipocyte	MRT4	0.1011345182	MRT4	LAMININ
Unknown	MRT4	0	MRT4	LAMININ
MRT4	TAM	0.2283582237	MRT4	LAMININ
TAM	TAM	0.0241509948	MRT4	LAMININ
Monocyte	TAM	0	MRT4	LAMININ
T_NK	TAM	0	MRT4	LAMININ
Fibroblast	TAM	0.3022129732	MRT4	LAMININ
Endothelial_Cell	TAM	0.3443520888	MRT4	LAMININ
Endothelial_Progenitor	TAM	0.3484778768	MRT4	LAMININ
Adipocyte	TAM	0.3717300826	MRT4	LAMININ
Unknown	TAM	0.04521388309	MRT4	LAMININ
MRT4	Monocyte	0	MRT4	LAMININ
TAM	Monocyte	0	MRT4	LAMININ
Monocyte	Monocyte	0	MRT4	LAMININ
T_NK	Monocyte	0	MRT4	LAMININ
Fibroblast	Monocyte	0	MRT4	LAMININ

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Monocyte	0	MRT4	LAMININ
Endothelial_Progenitor	Monocyte	0	MRT4	LAMININ
Adipocyte	Monocyte	0	MRT4	LAMININ
Unknown	Monocyte	0	MRT4	LAMININ
MRT4	T_NK	0	MRT4	LAMININ
TAM	T_NK	0	MRT4	LAMININ
Monocyte	T_NK	0	MRT4	LAMININ
T_NK	T_NK	0	MRT4	LAMININ
Fibroblast	T_NK	0	MRT4	LAMININ
Endothelial_Cell	T_NK	0	MRT4	LAMININ
Endothelial_Progenitor	T_NK	0	MRT4	LAMININ
Adipocyte	T_NK	0	MRT4	LAMININ
Unknown	T_NK	0	MRT4	LAMININ
MRT4	Fibroblast	0.2069230803	MRT4	LAMININ
TAM	Fibroblast	0.02202803745	MRT4	LAMININ
Monocyte	Fibroblast	0	MRT4	LAMININ
T_NK	Fibroblast	0	MRT4	LAMININ
Fibroblast	Fibroblast	0.2747004509	MRT4	LAMININ
Endothelial_Cell	Fibroblast	0.312754661	MRT4	LAMININ
Endothelial_Progenitor	Fibroblast	0.316972508	MRT4	LAMININ
Adipocyte	Fibroblast	0.3377150486	MRT4	LAMININ
Unknown	Fibroblast	0.04119666907	MRT4	LAMININ
MRT4	Endothelial_Cell	0.3396378015	MRT4	LAMININ
TAM	Endothelial_Cell	0.03601359937	MRT4	LAMININ
Monocyte	Endothelial_Cell	0	MRT4	LAMININ
T_NK	Endothelial_Cell	0	MRT4	LAMININ
Fibroblast	Endothelial_Cell	0.4500402984	MRT4	LAMININ
Endothelial_Cell	Endothelial_Cell	0.5126299017	MRT4	LAMININ
Endothelial_Progenitor	Endothelial_Cell	0.5190780618	MRT4	LAMININ
Adipocyte	Endothelial_Cell	0.5534484533	MRT4	LAMININ

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Cell	0.06739450245	MRT4	LAMININ
MRT4	Endothelial_Progenitor	0.3434381266	MRT4	LAMININ
TAM	Endothelial_Progenitor	0.03577806985	MRT4	LAMININ
Monocyte	Endothelial_Progenitor	0	MRT4	LAMININ
T_NK	Endothelial_Progenitor	0	MRT4	LAMININ
Fibroblast	Endothelial_Progenitor	0.4509952205	MRT4	LAMININ
Endothelial_Cell	Endothelial_Progenitor	0.5148193465	MRT4	LAMININ
Endothelial_Progenitor	Endothelial_Progenitor	0.5192253652	MRT4	LAMININ
Adipocyte	Endothelial_Progenitor	0.5554090935	MRT4	LAMININ
Unknown	Endothelial_Progenitor	0.06711950853	MRT4	LAMININ
MRT4	Adipocyte	0.1917806839	MRT4	LAMININ
TAM	Adipocyte	0.005422715023	MRT4	LAMININ
Monocyte	Adipocyte	0	MRT4	LAMININ
T_NK	Adipocyte	0	MRT4	LAMININ
Fibroblast	Adipocyte	0.2495103503	MRT4	LAMININ
Endothelial_Cell	Adipocyte	0.2764686375	MRT4	LAMININ
Endothelial_Progenitor	Adipocyte	0.2691531485	MRT4	LAMININ
Adipocyte	Adipocyte	0.2760421202	MRT4	LAMININ
Unknown	Adipocyte	0.01933507368	MRT4	LAMININ
MRT4	Unknown	0.4490314154	MRT4	LAMININ
TAM	Unknown	0.0500473799	MRT4	LAMININ
Monocyte	Unknown	0	MRT4	LAMININ
T_NK	Unknown	0	MRT4	LAMININ
Fibroblast	Unknown	0.6095834633	MRT4	LAMININ
Endothelial_Cell	Unknown	0.6901699731	MRT4	LAMININ
Endothelial_Progenitor	Unknown	0.7067778946	MRT4	LAMININ
Adipocyte	Unknown	0.7467145859	MRT4	LAMININ
Unknown	Unknown	0.09294379033	MRT4	LAMININ
MRT4	MRT4	0.01074310025	MRT4	SEMA3
TAM	MRT4	0	MRT4	SEMA3

Source	Target	Probability	Sample	Pathway
Monocyte	MRT4	0	MRT4	SEMA3
T_NK	MRT4	0	MRT4	SEMA3
Fibroblast	MRT4	0.007791079036	MRT4	SEMA3
Endothelial_Cell	MRT4	0	MRT4	SEMA3
Endothelial_Progenitor	MRT4	0	MRT4	SEMA3
Adipocyte	MRT4	0.007359030626	MRT4	SEMA3
Unknown	MRT4	0	MRT4	SEMA3
MRT4	TAM	0.03747296805	MRT4	SEMA3
TAM	TAM	0	MRT4	SEMA3
Monocyte	TAM	0	MRT4	SEMA3
T_NK	TAM	0	MRT4	SEMA3
Fibroblast	TAM	0.07478664645	MRT4	SEMA3
Endothelial_Cell	TAM	0	MRT4	SEMA3
Endothelial_Progenitor	TAM	0	MRT4	SEMA3
Adipocyte	TAM	0.07076711819	MRT4	SEMA3
Unknown	TAM	0	MRT4	SEMA3
MRT4	Monocyte	0	MRT4	SEMA3
TAM	Monocyte	0	MRT4	SEMA3
Monocyte	Monocyte	0	MRT4	SEMA3
T_NK	Monocyte	0	MRT4	SEMA3
Fibroblast	Monocyte	0	MRT4	SEMA3
Endothelial_Cell	Monocyte	0	MRT4	SEMA3
Endothelial_Progenitor	Monocyte	0	MRT4	SEMA3
Adipocyte	Monocyte	0	MRT4	SEMA3
Unknown	Monocyte	0	MRT4	SEMA3
MRT4	T_NK	0	MRT4	SEMA3
TAM	T_NK	0	MRT4	SEMA3
Monocyte	T_NK	0	MRT4	SEMA3
T_NK	T_NK	0	MRT4	SEMA3
Fibroblast	T_NK	0	MRT4	SEMA3

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	T_NK	0	MRT4	SEMA3
Endothelial_Progenitor	T_NK	0	MRT4	SEMA3
Adipocyte	T_NK	0	MRT4	SEMA3
Unknown	T_NK	0	MRT4	SEMA3
MRT4	Fibroblast	0.2023638614	MRT4	SEMA3
TAM	Fibroblast	0.01453336937	MRT4	SEMA3
Monocyte	Fibroblast	0	MRT4	SEMA3
T_NK	Fibroblast	0	MRT4	SEMA3
Fibroblast	Fibroblast	0.1091892547	MRT4	SEMA3
Endothelial_Cell	Fibroblast	0.08746195921	MRT4	SEMA3
Endothelial_Progenitor	Fibroblast	0.04800063945	MRT4	SEMA3
Adipocyte	Fibroblast	0.1367400545	MRT4	SEMA3
Unknown	Fibroblast	0.04800063945	MRT4	SEMA3
MRT4	Endothelial_Cell	0.2933367903	MRT4	SEMA3
TAM	Endothelial_Cell	0.02145327818	MRT4	SEMA3
Monocyte	Endothelial_Cell	0	MRT4	SEMA3
T_NK	Endothelial_Cell	0	MRT4	SEMA3
Fibroblast	Endothelial_Cell	0.1721509701	MRT4	SEMA3
Endothelial_Cell	Endothelial_Cell	0.07483275685	MRT4	SEMA3
Endothelial_Progenitor	Endothelial_Cell	0.07483275685	MRT4	SEMA3
Adipocyte	Endothelial_Cell	0.1921237849	MRT4	SEMA3
Unknown	Endothelial_Cell	0.07483275685	MRT4	SEMA3
MRT4	Endothelial_Progenitor	0.378197842	MRT4	SEMA3
TAM	Endothelial_Progenitor	0.02742931598	MRT4	SEMA3
Monocyte	Endothelial_Progenitor	0	MRT4	SEMA3
T_NK	Endothelial_Progenitor	0	MRT4	SEMA3
Fibroblast	Endothelial_Progenitor	0.2201330388	MRT4	SEMA3
Endothelial_Cell	Endothelial_Progenitor	0.1607949761	MRT4	SEMA3
Endothelial_Progenitor	Endothelial_Progenitor	0.08943925803	MRT4	SEMA3
Adipocyte	Endothelial_Progenitor	0.2692885563	MRT4	SEMA3

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0.08943925803	MRT4	SEMA3
MRT4	Adipocyte	0.3778870429	MRT4	SEMA3
TAM	Adipocyte	0.03194966239	MRT4	SEMA3
Monocyte	Adipocyte	0	MRT4	SEMA3
T_NK	Adipocyte	0	MRT4	SEMA3
Fibroblast	Adipocyte	0.1833500364	MRT4	SEMA3
Endothelial_Cell	Adipocyte	0.1955878824	MRT4	SEMA3
Endothelial_Progenitor	Adipocyte	0.1014387901	MRT4	SEMA3
Adipocyte	Adipocyte	0.2468144851	MRT4	SEMA3
Unknown	Adipocyte	0.1014387901	MRT4	SEMA3
MRT4	Unknown	0	MRT4	SEMA3
TAM	Unknown	0	MRT4	SEMA3
Monocyte	Unknown	0	MRT4	SEMA3
T_NK	Unknown	0	MRT4	SEMA3
Fibroblast	Unknown	0	MRT4	SEMA3
Endothelial_Cell	Unknown	0	MRT4	SEMA3
Endothelial_Progenitor	Unknown	0	MRT4	SEMA3
Adipocyte	Unknown	0	MRT4	SEMA3
Unknown	Unknown	0	MRT4	SEMA3
MRT4	MRT4	0.1529695426	MRT4	MK
TAM	MRT4	0	MRT4	MK
Monocyte	MRT4	0	MRT4	MK
T_NK	MRT4	0	MRT4	MK
Fibroblast	MRT4	0	MRT4	MK
Endothelial_Cell	MRT4	0	MRT4	MK
Endothelial_Progenitor	MRT4	0	MRT4	MK
Adipocyte	MRT4	0	MRT4	MK
Unknown	MRT4	0	MRT4	MK
MRT4	TAM	0.146204473	MRT4	MK
TAM	TAM	0.05113882723	MRT4	MK

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT4	MK
T_NK	TAM	0	MRT4	MK
Fibroblast	TAM	0.08169507167	MRT4	MK
Endothelial_Cell	TAM	0.04595462105	MRT4	MK
Endothelial_Progenitor	TAM	0.08169507167	MRT4	MK
Adipocyte	TAM	0.08553332972	MRT4	MK
Unknown	TAM	0.06746913323	MRT4	MK
MRT4	Monocyte	0	MRT4	MK
TAM	Monocyte	0	MRT4	MK
Monocyte	Monocyte	0	MRT4	MK
T_NK	Monocyte	0	MRT4	MK
Fibroblast	Monocyte	0	MRT4	MK
Endothelial_Cell	Monocyte	0	MRT4	MK
Endothelial_Progenitor	Monocyte	0	MRT4	MK
Adipocyte	Monocyte	0	MRT4	MK
Unknown	Monocyte	0	MRT4	MK
MRT4	T_NK	0	MRT4	MK
TAM	T_NK	0	MRT4	MK
Monocyte	T_NK	0	MRT4	MK
T_NK	T_NK	0	MRT4	MK
Fibroblast	T_NK	0	MRT4	MK
Endothelial_Cell	T_NK	0	MRT4	MK
Endothelial_Progenitor	T_NK	0	MRT4	MK
Adipocyte	T_NK	0	MRT4	MK
Unknown	T_NK	0	MRT4	MK
MRT4	Fibroblast	0.1818177059	MRT4	MK
TAM	Fibroblast	0.03621121107	MRT4	MK
Monocyte	Fibroblast	0	MRT4	MK
T_NK	Fibroblast	0	MRT4	MK
Fibroblast	Fibroblast	0.05747297566	MRT4	MK

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Fibroblast	0.03257635605	MRT4	MK
Endothelial_Progenitor	Fibroblast	0.05747297566	MRT4	MK
Adipocyte	Fibroblast	0.06012425525	MRT4	MK
Unknown	Fibroblast	0.04760862562	MRT4	MK
MRT4	Endothelial_Cell	0.07261892295	MRT4	MK
TAM	Endothelial_Cell	0.02539169324	MRT4	MK
Monocyte	Endothelial_Cell	0	MRT4	MK
T_NK	Endothelial_Cell	0	MRT4	MK
Fibroblast	Endothelial_Cell	0.04056807602	MRT4	MK
Endothelial_Cell	Endothelial_Cell	0.02281718177	MRT4	MK
Endothelial_Progenitor	Endothelial_Cell	0.04056807602	MRT4	MK
Adipocyte	Endothelial_Cell	0.04247466066	MRT4	MK
Unknown	Endothelial_Cell	0.03350205894	MRT4	MK
MRT4	Endothelial_Progenitor	0.09877920164	MRT4	MK
TAM	Endothelial_Progenitor	0.03518427917	MRT4	MK
Monocyte	Endothelial_Progenitor	0	MRT4	MK
T_NK	Endothelial_Progenitor	0	MRT4	MK
Fibroblast	Endothelial_Progenitor	0.05587802956	MRT4	MK
Endothelial_Cell	Endothelial_Progenitor	0.03164912177	MRT4	MK
Endothelial_Progenitor	Endothelial_Progenitor	0.05587802956	MRT4	MK
Adipocyte	Endothelial_Progenitor	0.05846029643	MRT4	MK
Unknown	Endothelial_Progenitor	0.04627398758	MRT4	MK
MRT4	Adipocyte	0.1622906647	MRT4	MK
TAM	Adipocyte	0.06055388862	MRT4	MK
Monocyte	Adipocyte	0	MRT4	MK
T_NK	Adipocyte	0	MRT4	MK
Fibroblast	Adipocyte	0.09470422421	MRT4	MK
Endothelial_Cell	Adipocyte	0.05461399657	MRT4	MK
Endothelial_Progenitor	Adipocyte	0.09470422421	MRT4	MK
Adipocyte	Adipocyte	0.09889280802	MRT4	MK

Source	Target	Probability	Sample	Pathway
Unknown	Adipocyte	0.07898521048	MRT4	MK
MRT4	Unknown	0.09594468505	MRT4	MK
TAM	Unknown	0.0341055888	MRT4	MK
Monocyte	Unknown	0	MRT4	MK
T_NK	Unknown	0	MRT4	MK
Fibroblast	Unknown	0.05420054461	MRT4	MK
Endothelial_Cell	Unknown	0.03067536744	MRT4	MK
Endothelial_Progenitor	Unknown	0.05420054461	MRT4	MK
Adipocyte	Unknown	0.05670994701	MRT4	MK
Unknown	Unknown	0.0448711177	MRT4	MK
MRT4	MRT4	0	MRT4	PTPRM
TAM	MRT4	0	MRT4	PTPRM
Monocyte	MRT4	0	MRT4	PTPRM
T_NK	MRT4	0	MRT4	PTPRM
Fibroblast	MRT4	0	MRT4	PTPRM
Endothelial_Cell	MRT4	0	MRT4	PTPRM
Endothelial_Progenitor	MRT4	0	MRT4	PTPRM
Adipocyte	MRT4	0	MRT4	PTPRM
Unknown	MRT4	0	MRT4	PTPRM
MRT4	TAM	0	MRT4	PTPRM
TAM	TAM	0.02824829497	MRT4	PTPRM
Monocyte	TAM	0	MRT4	PTPRM
T_NK	TAM	0	MRT4	PTPRM
Fibroblast	TAM	0.05224291651	MRT4	PTPRM
Endothelial_Cell	TAM	0.06823491876	MRT4	PTPRM
Endothelial_Progenitor	TAM	0.08624560843	MRT4	PTPRM
Adipocyte	TAM	0.04291483116	MRT4	PTPRM
Unknown	TAM	0	MRT4	PTPRM
MRT4	Monocyte	0	MRT4	PTPRM
TAM	Monocyte	0	MRT4	PTPRM

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT4	PTPRM
T_NK	Monocyte	0	MRT4	PTPRM
Fibroblast	Monocyte	0	MRT4	PTPRM
Endothelial_Cell	Monocyte	0	MRT4	PTPRM
Endothelial_Progenitor	Monocyte	0	MRT4	PTPRM
Adipocyte	Monocyte	0	MRT4	PTPRM
Unknown	Monocyte	0	MRT4	PTPRM
MRT4	T_NK	0	MRT4	PTPRM
TAM	T_NK	0	MRT4	PTPRM
Monocyte	T_NK	0	MRT4	PTPRM
T_NK	T_NK	0	MRT4	PTPRM
Fibroblast	T_NK	0	MRT4	PTPRM
Endothelial_Cell	T_NK	0	MRT4	PTPRM
Endothelial_Progenitor	T_NK	0	MRT4	PTPRM
Adipocyte	T_NK	0	MRT4	PTPRM
Unknown	T_NK	0	MRT4	PTPRM
MRT4	Fibroblast	0	MRT4	PTPRM
TAM	Fibroblast	0.05224291651	MRT4	PTPRM
Monocyte	Fibroblast	0	MRT4	PTPRM
T_NK	Fibroblast	0	MRT4	PTPRM
Fibroblast	Fibroblast	0.09463415886	MRT4	PTPRM
Endothelial_Cell	Fibroblast	0.1219330224	MRT4	PTPRM
Endothelial_Progenitor	Fibroblast	0.1518081403	MRT4	PTPRM
Adipocyte	Fibroblast	0.07836285302	MRT4	PTPRM
Unknown	Fibroblast	0	MRT4	PTPRM
MRT4	Endothelial_Cell	0	MRT4	PTPRM
TAM	Endothelial_Cell	0.06823491876	MRT4	PTPRM
Monocyte	Endothelial_Cell	0	MRT4	PTPRM
T_NK	Endothelial_Cell	0	MRT4	PTPRM
Fibroblast	Endothelial_Cell	0.1219330224	MRT4	PTPRM

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Cell	0.1557519928	MRT4	PTPRM
Endothelial_Progenitor	Endothelial_Cell	0.1921003846	MRT4	PTPRM
Adipocyte	Endothelial_Cell	0.1014941584	MRT4	PTPRM
Unknown	Endothelial_Cell	0	MRT4	PTPRM
MRT4	Endothelial_Progenitor	0	MRT4	PTPRM
TAM	Endothelial_Progenitor	0.08624560843	MRT4	PTPRM
Monocyte	Endothelial_Progenitor	0	MRT4	PTPRM
T_NK	Endothelial_Progenitor	0	MRT4	PTPRM
Fibroblast	Endothelial_Progenitor	0.1518081403	MRT4	PTPRM
Endothelial_Cell	Endothelial_Progenitor	0.1921003846	MRT4	PTPRM
Endothelial_Progenitor	Endothelial_Progenitor	0.2345745931	MRT4	PTPRM
Adipocyte	Endothelial_Progenitor	0.127086295	MRT4	PTPRM
Unknown	Endothelial_Progenitor	0	MRT4	PTPRM
MRT4	Adipocyte	0	MRT4	PTPRM
TAM	Adipocyte	0.04291483116	MRT4	PTPRM
Monocyte	Adipocyte	0	MRT4	PTPRM
T_NK	Adipocyte	0	MRT4	PTPRM
Fibroblast	Adipocyte	0.07836285302	MRT4	PTPRM
Endothelial_Cell	Adipocyte	0.1014941584	MRT4	PTPRM
Endothelial_Progenitor	Adipocyte	0.127086295	MRT4	PTPRM
Adipocyte	Adipocyte	0.0646893232	MRT4	PTPRM
Unknown	Adipocyte	0	MRT4	PTPRM
MRT4	Unknown	0	MRT4	PTPRM
TAM	Unknown	0	MRT4	PTPRM
Monocyte	Unknown	0	MRT4	PTPRM
T_NK	Unknown	0	MRT4	PTPRM
Fibroblast	Unknown	0	MRT4	PTPRM
Endothelial_Cell	Unknown	0	MRT4	PTPRM
Endothelial_Progenitor	Unknown	0	MRT4	PTPRM
Adipocyte	Unknown	0	MRT4	PTPRM

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT4	PTPRM
MRT4	MRT4	0.4211156105	MRT4	NRG
TAM	MRT4	0	MRT4	NRG
Monocyte	MRT4	0	MRT4	NRG
T_NK	MRT4	0	MRT4	NRG
Fibroblast	MRT4	0	MRT4	NRG
Endothelial_Cell	MRT4	0.2154425955	MRT4	NRG
Endothelial_Progenitor	MRT4	0	MRT4	NRG
Adipocyte	MRT4	0	MRT4	NRG
Unknown	MRT4	0.4410992163	MRT4	NRG
MRT4	TAM	0	MRT4	NRG
TAM	TAM	0	MRT4	NRG
Monocyte	TAM	0	MRT4	NRG
T_NK	TAM	0	MRT4	NRG
Fibroblast	TAM	0	MRT4	NRG
Endothelial_Cell	TAM	0.03965586557	MRT4	NRG
Endothelial_Progenitor	TAM	0	MRT4	NRG
Adipocyte	TAM	0	MRT4	NRG
Unknown	TAM	0.08175369931	MRT4	NRG
MRT4	Monocyte	0	MRT4	NRG
TAM	Monocyte	0	MRT4	NRG
Monocyte	Monocyte	0	MRT4	NRG
T_NK	Monocyte	0	MRT4	NRG
Fibroblast	Monocyte	0	MRT4	NRG
Endothelial_Cell	Monocyte	0	MRT4	NRG
Endothelial_Progenitor	Monocyte	0	MRT4	NRG
Adipocyte	Monocyte	0	MRT4	NRG
Unknown	Monocyte	0	MRT4	NRG
MRT4	T_NK	0	MRT4	NRG
TAM	T_NK	0	MRT4	NRG

Source	Target	Probability	Sample	Pathway
Monocyte	T_NK	0	MRT4	NRG
T_NK	T_NK	0	MRT4	NRG
Fibroblast	T_NK	0	MRT4	NRG
Endothelial_Cell	T_NK	0	MRT4	NRG
Endothelial_Progenitor	T_NK	0	MRT4	NRG
Adipocyte	T_NK	0	MRT4	NRG
Unknown	T_NK	0	MRT4	NRG
MRT4	Fibroblast	0	MRT4	NRG
TAM	Fibroblast	0	MRT4	NRG
Monocyte	Fibroblast	0	MRT4	NRG
T_NK	Fibroblast	0	MRT4	NRG
Fibroblast	Fibroblast	0	MRT4	NRG
Endothelial_Cell	Fibroblast	0.01792907052	MRT4	NRG
Endothelial_Progenitor	Fibroblast	0	MRT4	NRG
Adipocyte	Fibroblast	0	MRT4	NRG
Unknown	Fibroblast	0.03699535273	MRT4	NRG
MRT4	Endothelial_Cell	0	MRT4	NRG
TAM	Endothelial_Cell	0	MRT4	NRG
Monocyte	Endothelial_Cell	0	MRT4	NRG
T_NK	Endothelial_Cell	0	MRT4	NRG
Fibroblast	Endothelial_Cell	0	MRT4	NRG
Endothelial_Cell	Endothelial_Cell	0.01138733503	MRT4	NRG
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	NRG
Adipocyte	Endothelial_Cell	0	MRT4	NRG
Unknown	Endothelial_Cell	0.02350334	MRT4	NRG
MRT4	Endothelial_Progenitor	0	MRT4	NRG
TAM	Endothelial_Progenitor	0	MRT4	NRG
Monocyte	Endothelial_Progenitor	0	MRT4	NRG
T_NK	Endothelial_Progenitor	0	MRT4	NRG
Fibroblast	Endothelial_Progenitor	0	MRT4	NRG

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Progenitor	0.03965586557	MRT4	NRG
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	NRG
Adipocyte	Endothelial_Progenitor	0	MRT4	NRG
Unknown	Endothelial_Progenitor	0.08175369931	MRT4	NRG
MRT4	Adipocyte	0	MRT4	NRG
TAM	Adipocyte	0	MRT4	NRG
Monocyte	Adipocyte	0	MRT4	NRG
T_NK	Adipocyte	0	MRT4	NRG
Fibroblast	Adipocyte	0	MRT4	NRG
Endothelial_Cell	Adipocyte	0.0731861036	MRT4	NRG
Endothelial_Progenitor	Adipocyte	0	MRT4	NRG
Adipocyte	Adipocyte	0	MRT4	NRG
Unknown	Adipocyte	0.1506731945	MRT4	NRG
MRT4	Unknown	0.02961042932	MRT4	NRG
TAM	Unknown	0.001813546173	MRT4	NRG
Monocyte	Unknown	0	MRT4	NRG
T_NK	Unknown	0	MRT4	NRG
Fibroblast	Unknown	0.001813546173	MRT4	NRG
Endothelial_Cell	Unknown	0.07400293794	MRT4	NRG
Endothelial_Progenitor	Unknown	0.006471158565	MRT4	NRG
Adipocyte	Unknown	0.008261330201	MRT4	NRG
Unknown	Unknown	0.1654802319	MRT4	NRG
MRT4	MRT4	0.4699668961	MRT4	EPHA
TAM	MRT4	0	MRT4	EPHA
Monocyte	MRT4	0	MRT4	EPHA
T_NK	MRT4	0	MRT4	EPHA
Fibroblast	MRT4	0	MRT4	EPHA
Endothelial_Cell	MRT4	0.5255850295	MRT4	EPHA
Endothelial_Progenitor	MRT4	0	MRT4	EPHA
Adipocyte	MRT4	0.5138810369	MRT4	EPHA

Source	Target	Probability	Sample	Pathway
Unknown	MRT4	0	MRT4	EPHA
MRT4	TAM	0	MRT4	EPHA
TAM	TAM	0	MRT4	EPHA
Monocyte	TAM	0	MRT4	EPHA
T_NK	TAM	0	MRT4	EPHA
Fibroblast	TAM	0	MRT4	EPHA
Endothelial_Cell	TAM	0	MRT4	EPHA
Endothelial_Progenitor	TAM	0	MRT4	EPHA
Adipocyte	TAM	0	MRT4	EPHA
Unknown	TAM	0	MRT4	EPHA
MRT4	Monocyte	0	MRT4	EPHA
TAM	Monocyte	0	MRT4	EPHA
Monocyte	Monocyte	0	MRT4	EPHA
T_NK	Monocyte	0	MRT4	EPHA
Fibroblast	Monocyte	0	MRT4	EPHA
Endothelial_Cell	Monocyte	0	MRT4	EPHA
Endothelial_Progenitor	Monocyte	0	MRT4	EPHA
Adipocyte	Monocyte	0	MRT4	EPHA
Unknown	Monocyte	0	MRT4	EPHA
MRT4	T_NK	0	MRT4	EPHA
TAM	T_NK	0	MRT4	EPHA
Monocyte	T_NK	0	MRT4	EPHA
T_NK	T_NK	0	MRT4	EPHA
Fibroblast	T_NK	0	MRT4	EPHA
Endothelial_Cell	T_NK	0	MRT4	EPHA
Endothelial_Progenitor	T_NK	0	MRT4	EPHA
Adipocyte	T_NK	0	MRT4	EPHA
Unknown	T_NK	0	MRT4	EPHA
MRT4	Fibroblast	0.01941919821	MRT4	EPHA
TAM	Fibroblast	0.001813546173	MRT4	EPHA

Source	Target	Probability	Sample	Pathway
Monocyte	Fibroblast	0	MRT4	EPHA
T_NK	Fibroblast	0	MRT4	EPHA
Fibroblast	Fibroblast	0.007214930863	MRT4	EPHA
Endothelial_Cell	Fibroblast	0.02215257921	MRT4	EPHA
Endothelial_Progenitor	Fibroblast	0.005420976139	MRT4	EPHA
Adipocyte	Fibroblast	0.02156834958	MRT4	EPHA
Unknown	Fibroblast	0.007214930863	MRT4	EPHA
MRT4	Endothelial_Cell	0	MRT4	EPHA
TAM	Endothelial_Cell	0	MRT4	EPHA
Monocyte	Endothelial_Cell	0	MRT4	EPHA
T_NK	Endothelial_Cell	0	MRT4	EPHA
Fibroblast	Endothelial_Cell	0	MRT4	EPHA
Endothelial_Cell	Endothelial_Cell	0	MRT4	EPHA
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	EPHA
Adipocyte	Endothelial_Cell	0	MRT4	EPHA
Unknown	Endothelial_Cell	0	MRT4	EPHA
MRT4	Endothelial_Progenitor	0.03043299724	MRT4	EPHA
TAM	Endothelial_Progenitor	0.002871356581	MRT4	EPHA
Monocyte	Endothelial_Progenitor	0	MRT4	EPHA
T_NK	Endothelial_Progenitor	0	MRT4	EPHA
Fibroblast	Endothelial_Progenitor	0.01138733503	MRT4	EPHA
Endothelial_Cell	Endothelial_Progenitor	0.03466184432	MRT4	EPHA
Endothelial_Progenitor	Endothelial_Progenitor	0.00856488407	MRT4	EPHA
Adipocyte	Endothelial_Progenitor	0.0337590977	MRT4	EPHA
Unknown	Endothelial_Progenitor	0.01138733503	MRT4	EPHA
MRT4	Adipocyte	0.004926551817	MRT4	EPHA
TAM	Adipocyte	0.000454004061	MRT4	EPHA
Monocyte	Adipocyte	0	MRT4	EPHA
T_NK	Adipocyte	0	MRT4	EPHA
Fibroblast	Adipocyte	0.001813546173	MRT4	EPHA

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Adipocyte	0.00563171252	MRT4	EPHA
Endothelial_Progenitor	Adipocyte	0.001360776588	MRT4	EPHA
Adipocyte	Adipocyte	0.005480745369	MRT4	EPHA
Unknown	Adipocyte	0.001813546173	MRT4	EPHA
MRT4	Unknown	0	MRT4	EPHA
TAM	Unknown	0	MRT4	EPHA
Monocyte	Unknown	0	MRT4	EPHA
T_NK	Unknown	0	MRT4	EPHA
Fibroblast	Unknown	0	MRT4	EPHA
Endothelial_Cell	Unknown	0	MRT4	EPHA
Endothelial_Progenitor	Unknown	0	MRT4	EPHA
Adipocyte	Unknown	0	MRT4	EPHA
Unknown	Unknown	0	MRT4	EPHA
MRT4	MRT4	0	MRT4	SPP1
TAM	MRT4	0.04725194638	MRT4	SPP1
Monocyte	MRT4	0	MRT4	SPP1
T_NK	MRT4	0	MRT4	SPP1
Fibroblast	MRT4	0	MRT4	SPP1
Endothelial_Cell	MRT4	0	MRT4	SPP1
Endothelial_Progenitor	MRT4	0.003620526355	MRT4	SPP1
Adipocyte	MRT4	0	MRT4	SPP1
Unknown	MRT4	0	MRT4	SPP1
MRT4	TAM	0	MRT4	SPP1
TAM	TAM	0.38136873	MRT4	SPP1
Monocyte	TAM	0	MRT4	SPP1
T_NK	TAM	0	MRT4	SPP1
Fibroblast	TAM	0	MRT4	SPP1
Endothelial_Cell	TAM	0	MRT4	SPP1
Endothelial_Progenitor	TAM	0.03028388585	MRT4	SPP1
Adipocyte	TAM	0	MRT4	SPP1

Source	Target	Probability	Sample	Pathway
Unknown	TAM	0	MRT4	SPP1
MRT4	Monocyte	0	MRT4	SPP1
TAM	Monocyte	0	MRT4	SPP1
Monocyte	Monocyte	0	MRT4	SPP1
T_NK	Monocyte	0	MRT4	SPP1
Fibroblast	Monocyte	0	MRT4	SPP1
Endothelial_Cell	Monocyte	0	MRT4	SPP1
Endothelial_Progenitor	Monocyte	0	MRT4	SPP1
Adipocyte	Monocyte	0	MRT4	SPP1
Unknown	Monocyte	0	MRT4	SPP1
MRT4	T_NK	0	MRT4	SPP1
TAM	T_NK	0	MRT4	SPP1
Monocyte	T_NK	0	MRT4	SPP1
T_NK	T_NK	0	MRT4	SPP1
Fibroblast	T_NK	0	MRT4	SPP1
Endothelial_Cell	T_NK	0	MRT4	SPP1
Endothelial_Progenitor	T_NK	0	MRT4	SPP1
Adipocyte	T_NK	0	MRT4	SPP1
Unknown	T_NK	0	MRT4	SPP1
MRT4	Fibroblast	0	MRT4	SPP1
TAM	Fibroblast	0.3096296121	MRT4	SPP1
Monocyte	Fibroblast	0	MRT4	SPP1
T_NK	Fibroblast	0	MRT4	SPP1
Fibroblast	Fibroblast	0	MRT4	SPP1
Endothelial_Cell	Fibroblast	0	MRT4	SPP1
Endothelial_Progenitor	Fibroblast	0.02480350892	MRT4	SPP1
Adipocyte	Fibroblast	0	MRT4	SPP1
Unknown	Fibroblast	0	MRT4	SPP1
MRT4	Endothelial_Cell	0	MRT4	SPP1
TAM	Endothelial_Cell	0.286652931	MRT4	SPP1

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Cell	0	MRT4	SPP1
T_NK	Endothelial_Cell	0	MRT4	SPP1
Fibroblast	Endothelial_Cell	0	MRT4	SPP1
Endothelial_Cell	Endothelial_Cell	0	MRT4	SPP1
Endothelial_Progenitor	Endothelial_Cell	0.02338474162	MRT4	SPP1
Adipocyte	Endothelial_Cell	0	MRT4	SPP1
Unknown	Endothelial_Cell	0	MRT4	SPP1
MRT4	Endothelial_Progenitor	0	MRT4	SPP1
TAM	Endothelial_Progenitor	0.1757397696	MRT4	SPP1
Monocyte	Endothelial_Progenitor	0	MRT4	SPP1
T_NK	Endothelial_Progenitor	0	MRT4	SPP1
Fibroblast	Endothelial_Progenitor	0	MRT4	SPP1
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	SPP1
Endothelial_Progenitor	Endothelial_Progenitor	0.01362294677	MRT4	SPP1
Adipocyte	Endothelial_Progenitor	0	MRT4	SPP1
Unknown	Endothelial_Progenitor	0	MRT4	SPP1
MRT4	Adipocyte	0	MRT4	SPP1
TAM	Adipocyte	0.07537780801	MRT4	SPP1
Monocyte	Adipocyte	0	MRT4	SPP1
T_NK	Adipocyte	0	MRT4	SPP1
Fibroblast	Adipocyte	0	MRT4	SPP1
Endothelial_Cell	Adipocyte	0	MRT4	SPP1
Endothelial_Progenitor	Adipocyte	0.005683400575	MRT4	SPP1
Adipocyte	Adipocyte	0	MRT4	SPP1
Unknown	Adipocyte	0	MRT4	SPP1
MRT4	Unknown	0	MRT4	SPP1
TAM	Unknown	0.2040780729	MRT4	SPP1
Monocyte	Unknown	0	MRT4	SPP1
T_NK	Unknown	0	MRT4	SPP1
Fibroblast	Unknown	0	MRT4	SPP1

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Unknown	0	MRT4	SPP1
Endothelial_Progenitor	Unknown	0.01843946318	MRT4	SPP1
Adipocyte	Unknown	0	MRT4	SPP1
Unknown	Unknown	0	MRT4	SPP1
MRT4	MRT4	0	MRT4	FN1
TAM	MRT4	0	MRT4	FN1
Monocyte	MRT4	0	MRT4	FN1
T_NK	MRT4	0	MRT4	FN1
Fibroblast	MRT4	0.03191467737	MRT4	FN1
Endothelial_Cell	MRT4	0.02789975438	MRT4	FN1
Endothelial_Progenitor	MRT4	0.01114898602	MRT4	FN1
Adipocyte	MRT4	0	MRT4	FN1
Unknown	MRT4	0	MRT4	FN1
MRT4	TAM	0	MRT4	FN1
TAM	TAM	0	MRT4	FN1
Monocyte	TAM	0	MRT4	FN1
T_NK	TAM	0	MRT4	FN1
Fibroblast	TAM	0.09340293972	MRT4	FN1
Endothelial_Cell	TAM	0.08182371526	MRT4	FN1
Endothelial_Progenitor	TAM	0.0329861886	MRT4	FN1
Adipocyte	TAM	0	MRT4	FN1
Unknown	TAM	0	MRT4	FN1
MRT4	Monocyte	0	MRT4	FN1
TAM	Monocyte	0	MRT4	FN1
Monocyte	Monocyte	0	MRT4	FN1
T_NK	Monocyte	0	MRT4	FN1
Fibroblast	Monocyte	0	MRT4	FN1
Endothelial_Cell	Monocyte	0	MRT4	FN1
Endothelial_Progenitor	Monocyte	0	MRT4	FN1
Adipocyte	Monocyte	0	MRT4	FN1

Source	Target	Probability	Sample	Pathway
Unknown	Monocyte	0	MRT4	FN1
MRT4	T_NK	0	MRT4	FN1
TAM	T_NK	0	MRT4	FN1
Monocyte	T_NK	0	MRT4	FN1
T_NK	T_NK	0	MRT4	FN1
Fibroblast	T_NK	0	MRT4	FN1
Endothelial_Cell	T_NK	0	MRT4	FN1
Endothelial_Progenitor	T_NK	0	MRT4	FN1
Adipocyte	T_NK	0	MRT4	FN1
Unknown	T_NK	0	MRT4	FN1
MRT4	Fibroblast	0	MRT4	FN1
TAM	Fibroblast	0	MRT4	FN1
Monocyte	Fibroblast	0	MRT4	FN1
T_NK	Fibroblast	0	MRT4	FN1
Fibroblast	Fibroblast	0.0779921767	MRT4	FN1
Endothelial_Cell	Fibroblast	0.06839222533	MRT4	FN1
Endothelial_Progenitor	Fibroblast	0.02768910148	MRT4	FN1
Adipocyte	Fibroblast	0	MRT4	FN1
Unknown	Fibroblast	0	MRT4	FN1
MRT4	Endothelial_Cell	0	MRT4	FN1
TAM	Endothelial_Cell	0	MRT4	FN1
Monocyte	Endothelial_Cell	0	MRT4	FN1
T_NK	Endothelial_Cell	0	MRT4	FN1
Fibroblast	Endothelial_Cell	0.0577375792	MRT4	FN1
Endothelial_Cell	Endothelial_Cell	0.05059753096	MRT4	FN1
Endothelial_Progenitor	Endothelial_Cell	0.02042867588	MRT4	FN1
Adipocyte	Endothelial_Cell	0	MRT4	FN1
Unknown	Endothelial_Cell	0	MRT4	FN1
MRT4	Endothelial_Progenitor	0	MRT4	FN1
TAM	Endothelial_Progenitor	0	MRT4	FN1

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Progenitor	0	MRT4	FN1
T_NK	Endothelial_Progenitor	0	MRT4	FN1
Fibroblast	Endothelial_Progenitor	0.0394870607	MRT4	FN1
Endothelial_Cell	Endothelial_Progenitor	0.0345372887	MRT4	FN1
Endothelial_Progenitor	Endothelial_Progenitor	0.01383113168	MRT4	FN1
Adipocyte	Endothelial_Progenitor	0	MRT4	FN1
Unknown	Endothelial_Progenitor	0	MRT4	FN1
MRT4	Adipocyte	0	MRT4	FN1
TAM	Adipocyte	0	MRT4	FN1
Monocyte	Adipocyte	0	MRT4	FN1
T_NK	Adipocyte	0	MRT4	FN1
Fibroblast	Adipocyte	0.02169660527	MRT4	FN1
Endothelial_Cell	Adipocyte	0.01895676932	MRT4	FN1
Endothelial_Progenitor	Adipocyte	0.004839352531	MRT4	FN1
Adipocyte	Adipocyte	0	MRT4	FN1
Unknown	Adipocyte	0	MRT4	FN1
MRT4	Unknown	0	MRT4	FN1
TAM	Unknown	0	MRT4	FN1
Monocyte	Unknown	0	MRT4	FN1
T_NK	Unknown	0	MRT4	FN1
Fibroblast	Unknown	0.07930200529	MRT4	FN1
Endothelial_Cell	Unknown	0.06989156397	MRT4	FN1
Endothelial_Progenitor	Unknown	0.02891398008	MRT4	FN1
Adipocyte	Unknown	0	MRT4	FN1
Unknown	Unknown	0	MRT4	FN1
MRT4	MRT4	0	MRT4	IGF
TAM	MRT4	0.01885693886	MRT4	IGF
Monocyte	MRT4	0	MRT4	IGF
T_NK	MRT4	0	MRT4	IGF
Fibroblast	MRT4	0	MRT4	IGF

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	MRT4	0.08591429292	MRT4	IGF
Endothelial_Progenitor	MRT4	0	MRT4	IGF
Adipocyte	MRT4	0.05347811728	MRT4	IGF
Unknown	MRT4	0	MRT4	IGF
MRT4	TAM	0	MRT4	IGF
TAM	TAM	0.006208820931	MRT4	IGF
Monocyte	TAM	0	MRT4	IGF
T_NK	TAM	0	MRT4	IGF
Fibroblast	TAM	0	MRT4	IGF
Endothelial_Cell	TAM	0.02975759281	MRT4	IGF
Endothelial_Progenitor	TAM	0	MRT4	IGF
Adipocyte	TAM	0.01807581964	MRT4	IGF
Unknown	TAM	0	MRT4	IGF
MRT4	Monocyte	0	MRT4	IGF
TAM	Monocyte	0	MRT4	IGF
Monocyte	Monocyte	0	MRT4	IGF
T_NK	Monocyte	0	MRT4	IGF
Fibroblast	Monocyte	0	MRT4	IGF
Endothelial_Cell	Monocyte	0	MRT4	IGF
Endothelial_Progenitor	Monocyte	0	MRT4	IGF
Adipocyte	Monocyte	0	MRT4	IGF
Unknown	Monocyte	0	MRT4	IGF
MRT4	T_NK	0	MRT4	IGF
TAM	T_NK	0	MRT4	IGF
Monocyte	T_NK	0	MRT4	IGF
T_NK	T_NK	0	MRT4	IGF
Fibroblast	T_NK	0	MRT4	IGF
Endothelial_Cell	T_NK	0	MRT4	IGF
Endothelial_Progenitor	T_NK	0	MRT4	IGF
Adipocyte	T_NK	0	MRT4	IGF

Source	Target	Probability	Sample	Pathway
Unknown	T_NK	0	MRT4	IGF
MRT4	Fibroblast	0	MRT4	IGF
TAM	Fibroblast	0.009810397826	MRT4	IGF
Monocyte	Fibroblast	0	MRT4	IGF
T_NK	Fibroblast	0	MRT4	IGF
Fibroblast	Fibroblast	0	MRT4	IGF
Endothelial_Cell	Fibroblast	0.04568138637	MRT4	IGF
Endothelial_Progenitor	Fibroblast	0	MRT4	IGF
Adipocyte	Fibroblast	0.02813980877	MRT4	IGF
Unknown	Fibroblast	0	MRT4	IGF
MRT4	Endothelial_Cell	0	MRT4	IGF
TAM	Endothelial_Cell	0.01004628599	MRT4	IGF
Monocyte	Endothelial_Cell	0	MRT4	IGF
T_NK	Endothelial_Cell	0	MRT4	IGF
Fibroblast	Endothelial_Cell	0	MRT4	IGF
Endothelial_Cell	Endothelial_Cell	0.04728685237	MRT4	IGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	IGF
Adipocyte	Endothelial_Cell	0.02897752829	MRT4	IGF
Unknown	Endothelial_Cell	0	MRT4	IGF
MRT4	Endothelial_Progenitor	0	MRT4	IGF
TAM	Endothelial_Progenitor	0.01196485113	MRT4	IGF
Monocyte	Endothelial_Progenitor	0	MRT4	IGF
T_NK	Endothelial_Progenitor	0	MRT4	IGF
Fibroblast	Endothelial_Progenitor	0	MRT4	IGF
Endothelial_Cell	Endothelial_Progenitor	0.05585900974	MRT4	IGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	IGF
Adipocyte	Endothelial_Progenitor	0.03436600281	MRT4	IGF
Unknown	Endothelial_Progenitor	0	MRT4	IGF
MRT4	Adipocyte	0	MRT4	IGF
TAM	Adipocyte	0.007791649334	MRT4	IGF

Source	Target	Probability	Sample	Pathway
Monocyte	Adipocyte	0	MRT4	IGF
T_NK	Adipocyte	0	MRT4	IGF
Fibroblast	Adipocyte	0	MRT4	IGF
Endothelial_Cell	Adipocyte	0.03703158257	MRT4	IGF
Endothelial_Progenitor	Adipocyte	0	MRT4	IGF
Adipocyte	Adipocyte	0.02258658114	MRT4	IGF
Unknown	Adipocyte	0	MRT4	IGF
MRT4	Unknown	0	MRT4	IGF
TAM	Unknown	0.02417256819	MRT4	IGF
Monocyte	Unknown	0	MRT4	IGF
T_NK	Unknown	0	MRT4	IGF
Fibroblast	Unknown	0	MRT4	IGF
Endothelial_Cell	Unknown	0.1114848093	MRT4	IGF
Endothelial_Progenitor	Unknown	0	MRT4	IGF
Adipocyte	Unknown	0.06898265655	MRT4	IGF
Unknown	Unknown	0	MRT4	IGF
MRT4	MRT4	0	MRT4	THBS
TAM	MRT4	0	MRT4	THBS
Monocyte	MRT4	0	MRT4	THBS
T_NK	MRT4	0	MRT4	THBS
Fibroblast	MRT4	0	MRT4	THBS
Endothelial_Cell	MRT4	0	MRT4	THBS
Endothelial_Progenitor	MRT4	0	MRT4	THBS
Adipocyte	MRT4	0	MRT4	THBS
Unknown	MRT4	0	MRT4	THBS
MRT4	TAM	0	MRT4	THBS
TAM	TAM	0	MRT4	THBS
Monocyte	TAM	0	MRT4	THBS
T_NK	TAM	0	MRT4	THBS
Fibroblast	TAM	0.09245646176	MRT4	THBS

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	TAM	0.01023682993	MRT4	THBS
Endothelial_Progenitor	TAM	0.01023682993	MRT4	THBS
Adipocyte	TAM	0	MRT4	THBS
Unknown	TAM	0	MRT4	THBS
MRT4	Monocyte	0	MRT4	THBS
TAM	Monocyte	0	MRT4	THBS
Monocyte	Monocyte	0	MRT4	THBS
T_NK	Monocyte	0	MRT4	THBS
Fibroblast	Monocyte	0	MRT4	THBS
Endothelial_Cell	Monocyte	0	MRT4	THBS
Endothelial_Progenitor	Monocyte	0	MRT4	THBS
Adipocyte	Monocyte	0	MRT4	THBS
Unknown	Monocyte	0	MRT4	THBS
MRT4	T_NK	0	MRT4	THBS
TAM	T_NK	0	MRT4	THBS
Monocyte	T_NK	0	MRT4	THBS
T_NK	T_NK	0	MRT4	THBS
Fibroblast	T_NK	0	MRT4	THBS
Endothelial_Cell	T_NK	0	MRT4	THBS
Endothelial_Progenitor	T_NK	0	MRT4	THBS
Adipocyte	T_NK	0	MRT4	THBS
Unknown	T_NK	0	MRT4	THBS
MRT4	Fibroblast	0	MRT4	THBS
TAM	Fibroblast	0	MRT4	THBS
Monocyte	Fibroblast	0	MRT4	THBS
T_NK	Fibroblast	0	MRT4	THBS
Fibroblast	Fibroblast	0.01654603494	MRT4	THBS
Endothelial_Cell	Fibroblast	0.001813546173	MRT4	THBS
Endothelial_Progenitor	Fibroblast	0.001813546173	MRT4	THBS
Adipocyte	Fibroblast	0	MRT4	THBS

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0	MRT4	THBS
MRT4	Endothelial_Cell	0	MRT4	THBS
TAM	Endothelial_Cell	0	MRT4	THBS
Monocyte	Endothelial_Cell	0	MRT4	THBS
T_NK	Endothelial_Cell	0	MRT4	THBS
Fibroblast	Endothelial_Cell	0.2124438863	MRT4	THBS
Endothelial_Cell	Endothelial_Cell	0.02417848233	MRT4	THBS
Endothelial_Progenitor	Endothelial_Cell	0.02417848233	MRT4	THBS
Adipocyte	Endothelial_Cell	0	MRT4	THBS
Unknown	Endothelial_Cell	0	MRT4	THBS
MRT4	Endothelial_Progenitor	0	MRT4	THBS
TAM	Endothelial_Progenitor	0	MRT4	THBS
Monocyte	Endothelial_Progenitor	0	MRT4	THBS
T_NK	Endothelial_Progenitor	0	MRT4	THBS
Fibroblast	Endothelial_Progenitor	0.01894674671	MRT4	THBS
Endothelial_Cell	Endothelial_Progenitor	0.002078209129	MRT4	THBS
Endothelial_Progenitor	Endothelial_Progenitor	0.002078209129	MRT4	THBS
Adipocyte	Endothelial_Progenitor	0	MRT4	THBS
Unknown	Endothelial_Progenitor	0	MRT4	THBS
MRT4	Adipocyte	0	MRT4	THBS
TAM	Adipocyte	0	MRT4	THBS
Monocyte	Adipocyte	0	MRT4	THBS
T_NK	Adipocyte	0	MRT4	THBS
Fibroblast	Adipocyte	0.1769905591	MRT4	THBS
Endothelial_Cell	Adipocyte	0.02039533612	MRT4	THBS
Endothelial_Progenitor	Adipocyte	0.02039533612	MRT4	THBS
Adipocyte	Adipocyte	0	MRT4	THBS
Unknown	Adipocyte	0	MRT4	THBS
MRT4	Unknown	0	MRT4	THBS
TAM	Unknown	0	MRT4	THBS

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT4	THBS
T_NK	Unknown	0	MRT4	THBS
Fibroblast	Unknown	0	MRT4	THBS
Endothelial_Cell	Unknown	0	MRT4	THBS
Endothelial_Progenitor	Unknown	0	MRT4	THBS
Adipocyte	Unknown	0	MRT4	THBS
Unknown	Unknown	0	MRT4	THBS
MRT4	MRT4	0.2881183307	MRT4	BMP
TAM	MRT4	0	MRT4	BMP
Monocyte	MRT4	0	MRT4	BMP
T_NK	MRT4	0	MRT4	BMP
Fibroblast	MRT4	0	MRT4	BMP
Endothelial_Cell	MRT4	0	MRT4	BMP
Endothelial_Progenitor	MRT4	0.03045757445	MRT4	BMP
Adipocyte	MRT4	0	MRT4	BMP
Unknown	MRT4	0	MRT4	BMP
MRT4	TAM	0	MRT4	BMP
TAM	TAM	0	MRT4	BMP
Monocyte	TAM	0	MRT4	BMP
T_NK	TAM	0	MRT4	BMP
Fibroblast	TAM	0	MRT4	BMP
Endothelial_Cell	TAM	0	MRT4	BMP
Endothelial_Progenitor	TAM	0.013108165	MRT4	BMP
Adipocyte	TAM	0	MRT4	BMP
Unknown	TAM	0	MRT4	BMP
MRT4	Monocyte	0	MRT4	BMP
TAM	Monocyte	0	MRT4	BMP
Monocyte	Monocyte	0	MRT4	BMP
T_NK	Monocyte	0	MRT4	BMP
Fibroblast	Monocyte	0	MRT4	BMP

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Monocyte	0	MRT4	BMP
Endothelial_Progenitor	Monocyte	0	MRT4	BMP
Adipocyte	Monocyte	0	MRT4	BMP
Unknown	Monocyte	0	MRT4	BMP
MRT4	T_NK	0	MRT4	BMP
TAM	T_NK	0	MRT4	BMP
Monocyte	T_NK	0	MRT4	BMP
T_NK	T_NK	0	MRT4	BMP
Fibroblast	T_NK	0	MRT4	BMP
Endothelial_Cell	T_NK	0	MRT4	BMP
Endothelial_Progenitor	T_NK	0	MRT4	BMP
Adipocyte	T_NK	0	MRT4	BMP
Unknown	T_NK	0	MRT4	BMP
MRT4	Fibroblast	0.05813349774	MRT4	BMP
TAM	Fibroblast	0	MRT4	BMP
Monocyte	Fibroblast	0	MRT4	BMP
T_NK	Fibroblast	0	MRT4	BMP
Fibroblast	Fibroblast	0	MRT4	BMP
Endothelial_Cell	Fibroblast	0	MRT4	BMP
Endothelial_Progenitor	Fibroblast	0.02354059521	MRT4	BMP
Adipocyte	Fibroblast	0	MRT4	BMP
Unknown	Fibroblast	0	MRT4	BMP
MRT4	Endothelial_Cell	0.04286968295	MRT4	BMP
TAM	Endothelial_Cell	0	MRT4	BMP
Monocyte	Endothelial_Cell	0	MRT4	BMP
T_NK	Endothelial_Cell	0	MRT4	BMP
Fibroblast	Endothelial_Cell	0	MRT4	BMP
Endothelial_Cell	Endothelial_Cell	0	MRT4	BMP
Endothelial_Progenitor	Endothelial_Cell	0.00449263736	MRT4	BMP
Adipocyte	Endothelial_Cell	0	MRT4	BMP

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Cell	0	MRT4	BMP
MRT4	Endothelial_Progenitor	0	MRT4	BMP
TAM	Endothelial_Progenitor	0	MRT4	BMP
Monocyte	Endothelial_Progenitor	0	MRT4	BMP
T_NK	Endothelial_Progenitor	0	MRT4	BMP
Fibroblast	Endothelial_Progenitor	0	MRT4	BMP
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	BMP
Endothelial_Progenitor	Endothelial_Progenitor	0.0157455954	MRT4	BMP
Adipocyte	Endothelial_Progenitor	0	MRT4	BMP
Unknown	Endothelial_Progenitor	0	MRT4	BMP
MRT4	Adipocyte	0.0609549175	MRT4	BMP
TAM	Adipocyte	0	MRT4	BMP
Monocyte	Adipocyte	0	MRT4	BMP
T_NK	Adipocyte	0	MRT4	BMP
Fibroblast	Adipocyte	0	MRT4	BMP
Endothelial_Cell	Adipocyte	0	MRT4	BMP
Endothelial_Progenitor	Adipocyte	0.03208413813	MRT4	BMP
Adipocyte	Adipocyte	0	MRT4	BMP
Unknown	Adipocyte	0	MRT4	BMP
MRT4	Unknown	0.04286968295	MRT4	BMP
TAM	Unknown	0	MRT4	BMP
Monocyte	Unknown	0	MRT4	BMP
T_NK	Unknown	0	MRT4	BMP
Fibroblast	Unknown	0	MRT4	BMP
Endothelial_Cell	Unknown	0	MRT4	BMP
Endothelial_Progenitor	Unknown	0.01861174358	MRT4	BMP
Adipocyte	Unknown	0	MRT4	BMP
Unknown	Unknown	0	MRT4	BMP
MRT4	MRT4	0	MRT4	PECAM1
TAM	MRT4	0	MRT4	PECAM1

Source	Target	Probability	Sample	Pathway
Monocyte	MRT4	0	MRT4	PECAM1
T_NK	MRT4	0	MRT4	PECAM1
Fibroblast	MRT4	0	MRT4	PECAM1
Endothelial_Cell	MRT4	0	MRT4	PECAM1
Endothelial_Progenitor	MRT4	0	MRT4	PECAM1
Adipocyte	MRT4	0	MRT4	PECAM1
Unknown	MRT4	0	MRT4	PECAM1
MRT4	TAM	0	MRT4	PECAM1
TAM	TAM	0.004543361314	MRT4	PECAM1
Monocyte	TAM	0	MRT4	PECAM1
T_NK	TAM	0	MRT4	PECAM1
Fibroblast	TAM	0	MRT4	PECAM1
Endothelial_Cell	TAM	0.01835104621	MRT4	PECAM1
Endothelial_Progenitor	TAM	0.03053186346	MRT4	PECAM1
Adipocyte	TAM	0	MRT4	PECAM1
Unknown	TAM	0	MRT4	PECAM1
MRT4	Monocyte	0	MRT4	PECAM1
TAM	Monocyte	0	MRT4	PECAM1
Monocyte	Monocyte	0	MRT4	PECAM1
T_NK	Monocyte	0	MRT4	PECAM1
Fibroblast	Monocyte	0	MRT4	PECAM1
Endothelial_Cell	Monocyte	0	MRT4	PECAM1
Endothelial_Progenitor	Monocyte	0	MRT4	PECAM1
Adipocyte	Monocyte	0	MRT4	PECAM1
Unknown	Monocyte	0	MRT4	PECAM1
MRT4	T_NK	0	MRT4	PECAM1
TAM	T_NK	0	MRT4	PECAM1
Monocyte	T_NK	0	MRT4	PECAM1
T_NK	T_NK	0	MRT4	PECAM1
Fibroblast	T_NK	0	MRT4	PECAM1

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	T_NK	0	MRT4	PECAM1
Endothelial_Progenitor	T_NK	0	MRT4	PECAM1
Adipocyte	T_NK	0	MRT4	PECAM1
Unknown	T_NK	0	MRT4	PECAM1
MRT4	Fibroblast	0	MRT4	PECAM1
TAM	Fibroblast	0	MRT4	PECAM1
Monocyte	Fibroblast	0	MRT4	PECAM1
T_NK	Fibroblast	0	MRT4	PECAM1
Fibroblast	Fibroblast	0	MRT4	PECAM1
Endothelial_Cell	Fibroblast	0	MRT4	PECAM1
Endothelial_Progenitor	Fibroblast	0	MRT4	PECAM1
Adipocyte	Fibroblast	0	MRT4	PECAM1
Unknown	Fibroblast	0	MRT4	PECAM1
MRT4	Endothelial_Cell	0	MRT4	PECAM1
TAM	Endothelial_Cell	0.01835104621	MRT4	PECAM1
Monocyte	Endothelial_Cell	0	MRT4	PECAM1
T_NK	Endothelial_Cell	0	MRT4	PECAM1
Fibroblast	Endothelial_Cell	0	MRT4	PECAM1
Endothelial_Cell	Endothelial_Cell	0.07112337347	MRT4	PECAM1
Endothelial_Progenitor	Endothelial_Cell	0.1142556895	MRT4	PECAM1
Adipocyte	Endothelial_Cell	0	MRT4	PECAM1
Unknown	Endothelial_Cell	0	MRT4	PECAM1
MRT4	Endothelial_Progenitor	0	MRT4	PECAM1
TAM	Endothelial_Progenitor	0.03053186346	MRT4	PECAM1
Monocyte	Endothelial_Progenitor	0	MRT4	PECAM1
T_NK	Endothelial_Progenitor	0	MRT4	PECAM1
Fibroblast	Endothelial_Progenitor	0	MRT4	PECAM1
Endothelial_Cell	Endothelial_Progenitor	0.1142556895	MRT4	PECAM1
Endothelial_Progenitor	Endothelial_Progenitor	0.178518221	MRT4	PECAM1
Adipocyte	Endothelial_Progenitor	0	MRT4	PECAM1

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0	MRT4	PECAM1
MRT4	Adipocyte	0	MRT4	PECAM1
TAM	Adipocyte	0	MRT4	PECAM1
Monocyte	Adipocyte	0	MRT4	PECAM1
T_NK	Adipocyte	0	MRT4	PECAM1
Fibroblast	Adipocyte	0	MRT4	PECAM1
Endothelial_Cell	Adipocyte	0	MRT4	PECAM1
Endothelial_Progenitor	Adipocyte	0	MRT4	PECAM1
Adipocyte	Adipocyte	0	MRT4	PECAM1
Unknown	Adipocyte	0	MRT4	PECAM1
MRT4	Unknown	0	MRT4	PECAM1
TAM	Unknown	0	MRT4	PECAM1
Monocyte	Unknown	0	MRT4	PECAM1
T_NK	Unknown	0	MRT4	PECAM1
Fibroblast	Unknown	0	MRT4	PECAM1
Endothelial_Cell	Unknown	0	MRT4	PECAM1
Endothelial_Progenitor	Unknown	0	MRT4	PECAM1
Adipocyte	Unknown	0	MRT4	PECAM1
Unknown	Unknown	0	MRT4	PECAM1
MRT4	MRT4	0	MRT4	APP
TAM	MRT4	0	MRT4	APP
Monocyte	MRT4	0	MRT4	APP
T_NK	MRT4	0	MRT4	APP
Fibroblast	MRT4	0	MRT4	APP
Endothelial_Cell	MRT4	0	MRT4	APP
Endothelial_Progenitor	MRT4	0	MRT4	APP
Adipocyte	MRT4	0	MRT4	APP
Unknown	MRT4	0	MRT4	APP
MRT4	TAM	0.04360505847	MRT4	APP
TAM	TAM	0.01255817424	MRT4	APP

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT4	APP
T_NK	TAM	0	MRT4	APP
Fibroblast	TAM	0.04360505847	MRT4	APP
Endothelial_Cell	TAM	0.1234526542	MRT4	APP
Endothelial_Progenitor	TAM	0.09032446978	MRT4	APP
Adipocyte	TAM	0.01255817424	MRT4	APP
Unknown	TAM	0.1050421671	MRT4	APP
MRT4	Monocyte	0	MRT4	APP
TAM	Monocyte	0	MRT4	APP
Monocyte	Monocyte	0	MRT4	APP
T_NK	Monocyte	0	MRT4	APP
Fibroblast	Monocyte	0	MRT4	APP
Endothelial_Cell	Monocyte	0	MRT4	APP
Endothelial_Progenitor	Monocyte	0	MRT4	APP
Adipocyte	Monocyte	0	MRT4	APP
Unknown	Monocyte	0	MRT4	APP
MRT4	T_NK	0	MRT4	APP
TAM	T_NK	0	MRT4	APP
Monocyte	T_NK	0	MRT4	APP
T_NK	T_NK	0	MRT4	APP
Fibroblast	T_NK	0	MRT4	APP
Endothelial_Cell	T_NK	0	MRT4	APP
Endothelial_Progenitor	T_NK	0	MRT4	APP
Adipocyte	T_NK	0	MRT4	APP
Unknown	T_NK	0	MRT4	APP
MRT4	Fibroblast	0	MRT4	APP
TAM	Fibroblast	0	MRT4	APP
Monocyte	Fibroblast	0	MRT4	APP
T_NK	Fibroblast	0	MRT4	APP
Fibroblast	Fibroblast	0	MRT4	APP

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Fibroblast	0	MRT4	APP
Endothelial_Progenitor	Fibroblast	0	MRT4	APP
Adipocyte	Fibroblast	0	MRT4	APP
Unknown	Fibroblast	0	MRT4	APP
MRT4	Endothelial_Cell	0	MRT4	APP
TAM	Endothelial_Cell	0	MRT4	APP
Monocyte	Endothelial_Cell	0	MRT4	APP
T_NK	Endothelial_Cell	0	MRT4	APP
Fibroblast	Endothelial_Cell	0	MRT4	APP
Endothelial_Cell	Endothelial_Cell	0	MRT4	APP
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	APP
Adipocyte	Endothelial_Cell	0	MRT4	APP
Unknown	Endothelial_Cell	0	MRT4	APP
MRT4	Endothelial_Progenitor	0.006471158565	MRT4	APP
TAM	Endothelial_Progenitor	0.001813546173	MRT4	APP
Monocyte	Endothelial_Progenitor	0	MRT4	APP
T_NK	Endothelial_Progenitor	0	MRT4	APP
Fibroblast	Endothelial_Progenitor	0.006471158565	MRT4	APP
Endothelial_Cell	Endothelial_Progenitor	0.01972312691	MRT4	APP
Endothelial_Progenitor	Endothelial_Progenitor	0.01398633106	MRT4	APP
Adipocyte	Endothelial_Progenitor	0.001813546173	MRT4	APP
Unknown	Endothelial_Progenitor	0.0164907911	MRT4	APP
MRT4	Adipocyte	0	MRT4	APP
TAM	Adipocyte	0	MRT4	APP
Monocyte	Adipocyte	0	MRT4	APP
T_NK	Adipocyte	0	MRT4	APP
Fibroblast	Adipocyte	0	MRT4	APP
Endothelial_Cell	Adipocyte	0	MRT4	APP
Endothelial_Progenitor	Adipocyte	0	MRT4	APP
Adipocyte	Adipocyte	0	MRT4	APP

Source	Target	Probability	Sample	Pathway
Unknown	Adipocyte	0	MRT4	APP
MRT4	Unknown	0	MRT4	APP
TAM	Unknown	0	MRT4	APP
Monocyte	Unknown	0	MRT4	APP
T_NK	Unknown	0	MRT4	APP
Fibroblast	Unknown	0	MRT4	APP
Endothelial_Cell	Unknown	0	MRT4	APP
Endothelial_Progenitor	Unknown	0	MRT4	APP
Adipocyte	Unknown	0	MRT4	APP
Unknown	Unknown	0	MRT4	APP
MRT4	MRT4	0	MRT4	SEMA6
TAM	MRT4	0	MRT4	SEMA6
Monocyte	MRT4	0	MRT4	SEMA6
T_NK	MRT4	0	MRT4	SEMA6
Fibroblast	MRT4	0	MRT4	SEMA6
Endothelial_Cell	MRT4	0	MRT4	SEMA6
Endothelial_Progenitor	MRT4	0	MRT4	SEMA6
Adipocyte	MRT4	0	MRT4	SEMA6
Unknown	MRT4	0	MRT4	SEMA6
MRT4	TAM	0	MRT4	SEMA6
TAM	TAM	0	MRT4	SEMA6
Monocyte	TAM	0	MRT4	SEMA6
T_NK	TAM	0	MRT4	SEMA6
Fibroblast	TAM	0	MRT4	SEMA6
Endothelial_Cell	TAM	0	MRT4	SEMA6
Endothelial_Progenitor	TAM	0	MRT4	SEMA6
Adipocyte	TAM	0	MRT4	SEMA6
Unknown	TAM	0	MRT4	SEMA6
MRT4	Monocyte	0	MRT4	SEMA6
TAM	Monocyte	0	MRT4	SEMA6

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT4	SEMA6
T_NK	Monocyte	0	MRT4	SEMA6
Fibroblast	Monocyte	0	MRT4	SEMA6
Endothelial_Cell	Monocyte	0	MRT4	SEMA6
Endothelial_Progenitor	Monocyte	0	MRT4	SEMA6
Adipocyte	Monocyte	0	MRT4	SEMA6
Unknown	Monocyte	0	MRT4	SEMA6
MRT4	T_NK	0	MRT4	SEMA6
TAM	T_NK	0	MRT4	SEMA6
Monocyte	T_NK	0	MRT4	SEMA6
T_NK	T_NK	0	MRT4	SEMA6
Fibroblast	T_NK	0	MRT4	SEMA6
Endothelial_Cell	T_NK	0	MRT4	SEMA6
Endothelial_Progenitor	T_NK	0	MRT4	SEMA6
Adipocyte	T_NK	0	MRT4	SEMA6
Unknown	T_NK	0	MRT4	SEMA6
MRT4	Fibroblast	0	MRT4	SEMA6
TAM	Fibroblast	0	MRT4	SEMA6
Monocyte	Fibroblast	0	MRT4	SEMA6
T_NK	Fibroblast	0	MRT4	SEMA6
Fibroblast	Fibroblast	0	MRT4	SEMA6
Endothelial_Cell	Fibroblast	0.02959258802	MRT4	SEMA6
Endothelial_Progenitor	Fibroblast	0.005726270996	MRT4	SEMA6
Adipocyte	Fibroblast	0	MRT4	SEMA6
Unknown	Fibroblast	0	MRT4	SEMA6
MRT4	Endothelial_Cell	0	MRT4	SEMA6
TAM	Endothelial_Cell	0	MRT4	SEMA6
Monocyte	Endothelial_Cell	0	MRT4	SEMA6
T_NK	Endothelial_Cell	0	MRT4	SEMA6
Fibroblast	Endothelial_Cell	0	MRT4	SEMA6

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Cell	0.1093127684	MRT4	SEMA6
Endothelial_Progenitor	Endothelial_Cell	0.02160520013	MRT4	SEMA6
Adipocyte	Endothelial_Cell	0	MRT4	SEMA6
Unknown	Endothelial_Cell	0	MRT4	SEMA6
MRT4	Endothelial_Progenitor	0	MRT4	SEMA6
TAM	Endothelial_Progenitor	0	MRT4	SEMA6
Monocyte	Endothelial_Progenitor	0	MRT4	SEMA6
T_NK	Endothelial_Progenitor	0	MRT4	SEMA6
Fibroblast	Endothelial_Progenitor	0	MRT4	SEMA6
Endothelial_Cell	Endothelial_Progenitor	0.0532488926	MRT4	SEMA6
Endothelial_Progenitor	Endothelial_Progenitor	0.0105104919	MRT4	SEMA6
Adipocyte	Endothelial_Progenitor	0	MRT4	SEMA6
Unknown	Endothelial_Progenitor	0	MRT4	SEMA6
MRT4	Adipocyte	0	MRT4	SEMA6
TAM	Adipocyte	0	MRT4	SEMA6
Monocyte	Adipocyte	0	MRT4	SEMA6
T_NK	Adipocyte	0	MRT4	SEMA6
Fibroblast	Adipocyte	0	MRT4	SEMA6
Endothelial_Cell	Adipocyte	0.1383015293	MRT4	SEMA6
Endothelial_Progenitor	Adipocyte	0.02941983034	MRT4	SEMA6
Adipocyte	Adipocyte	0	MRT4	SEMA6
Unknown	Adipocyte	0	MRT4	SEMA6
MRT4	Unknown	0	MRT4	SEMA6
TAM	Unknown	0	MRT4	SEMA6
Monocyte	Unknown	0	MRT4	SEMA6
T_NK	Unknown	0	MRT4	SEMA6
Fibroblast	Unknown	0	MRT4	SEMA6
Endothelial_Cell	Unknown	0	MRT4	SEMA6
Endothelial_Progenitor	Unknown	0	MRT4	SEMA6
Adipocyte	Unknown	0	MRT4	SEMA6

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT4	SEMA6
MRT4	MRT4	0	MRT4	TENASCIN
TAM	MRT4	0	MRT4	TENASCIN
Monocyte	MRT4	0	MRT4	TENASCIN
T_NK	MRT4	0	MRT4	TENASCIN
Fibroblast	MRT4	0	MRT4	TENASCIN
Endothelial_Cell	MRT4	0	MRT4	TENASCIN
Endothelial_Progenitor	MRT4	0	MRT4	TENASCIN
Adipocyte	MRT4	0	MRT4	TENASCIN
Unknown	MRT4	0	MRT4	TENASCIN
MRT4	TAM	0	MRT4	TENASCIN
TAM	TAM	0	MRT4	TENASCIN
Monocyte	TAM	0	MRT4	TENASCIN
T_NK	TAM	0	MRT4	TENASCIN
Fibroblast	TAM	0.05486209807	MRT4	TENASCIN
Endothelial_Cell	TAM	0.02281718177	MRT4	TENASCIN
Endothelial_Progenitor	TAM	0	MRT4	TENASCIN
Adipocyte	TAM	0	MRT4	TENASCIN
Unknown	TAM	0	MRT4	TENASCIN
MRT4	Monocyte	0	MRT4	TENASCIN
TAM	Monocyte	0	MRT4	TENASCIN
Monocyte	Monocyte	0	MRT4	TENASCIN
T_NK	Monocyte	0	MRT4	TENASCIN
Fibroblast	Monocyte	0	MRT4	TENASCIN
Endothelial_Cell	Monocyte	0	MRT4	TENASCIN
Endothelial_Progenitor	Monocyte	0	MRT4	TENASCIN
Adipocyte	Monocyte	0	MRT4	TENASCIN
Unknown	Monocyte	0	MRT4	TENASCIN
MRT4	T_NK	0	MRT4	TENASCIN
TAM	T_NK	0	MRT4	TENASCIN

Source	Target	Probability	Sample	Pathway
Monocyte	T_NK	0	MRT4	TENASCIN
T_NK	T_NK	0	MRT4	TENASCIN
Fibroblast	T_NK	0	MRT4	TENASCIN
Endothelial_Cell	T_NK	0	MRT4	TENASCIN
Endothelial_Progenitor	T_NK	0	MRT4	TENASCIN
Adipocyte	T_NK	0	MRT4	TENASCIN
Unknown	T_NK	0	MRT4	TENASCIN
MRT4	Fibroblast	0	MRT4	TENASCIN
TAM	Fibroblast	0	MRT4	TENASCIN
Monocyte	Fibroblast	0	MRT4	TENASCIN
T_NK	Fibroblast	0	MRT4	TENASCIN
Fibroblast	Fibroblast	0.03120735002	MRT4	TENASCIN
Endothelial_Cell	Fibroblast	0.01285910383	MRT4	TENASCIN
Endothelial_Progenitor	Fibroblast	0	MRT4	TENASCIN
Adipocyte	Fibroblast	0	MRT4	TENASCIN
Unknown	Fibroblast	0	MRT4	TENASCIN
MRT4	Endothelial_Cell	0	MRT4	TENASCIN
TAM	Endothelial_Cell	0	MRT4	TENASCIN
Monocyte	Endothelial_Cell	0	MRT4	TENASCIN
T_NK	Endothelial_Cell	0	MRT4	TENASCIN
Fibroblast	Endothelial_Cell	0.08650993534	MRT4	TENASCIN
Endothelial_Cell	Endothelial_Cell	0.03643023225	MRT4	TENASCIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	TENASCIN
Adipocyte	Endothelial_Cell	0	MRT4	TENASCIN
Unknown	Endothelial_Cell	0	MRT4	TENASCIN
MRT4	Endothelial_Progenitor	0	MRT4	TENASCIN
TAM	Endothelial_Progenitor	0	MRT4	TENASCIN
Monocyte	Endothelial_Progenitor	0	MRT4	TENASCIN
T_NK	Endothelial_Progenitor	0	MRT4	TENASCIN
Fibroblast	Endothelial_Progenitor	0.04170381156	MRT4	TENASCIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Progenitor	0.01725518866	MRT4	TENASCIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	TENASCIN
Adipocyte	Endothelial_Progenitor	0	MRT4	TENASCIN
Unknown	Endothelial_Progenitor	0	MRT4	TENASCIN
MRT4	Adipocyte	0	MRT4	TENASCIN
TAM	Adipocyte	0	MRT4	TENASCIN
Monocyte	Adipocyte	0	MRT4	TENASCIN
T_NK	Adipocyte	0	MRT4	TENASCIN
Fibroblast	Adipocyte	0	MRT4	TENASCIN
Endothelial_Cell	Adipocyte	0	MRT4	TENASCIN
Endothelial_Progenitor	Adipocyte	0	MRT4	TENASCIN
Adipocyte	Adipocyte	0	MRT4	TENASCIN
Unknown	Adipocyte	0	MRT4	TENASCIN
MRT4	Unknown	0	MRT4	TENASCIN
TAM	Unknown	0	MRT4	TENASCIN
Monocyte	Unknown	0	MRT4	TENASCIN
T_NK	Unknown	0	MRT4	TENASCIN
Fibroblast	Unknown	0	MRT4	TENASCIN
Endothelial_Cell	Unknown	0	MRT4	TENASCIN
Endothelial_Progenitor	Unknown	0	MRT4	TENASCIN
Adipocyte	Unknown	0	MRT4	TENASCIN
Unknown	Unknown	0	MRT4	TENASCIN
MRT4	MRT4	0	MRT4	MPZ
TAM	MRT4	0	MRT4	MPZ
Monocyte	MRT4	0	MRT4	MPZ
T_NK	MRT4	0	MRT4	MPZ
Fibroblast	MRT4	0	MRT4	MPZ
Endothelial_Cell	MRT4	0	MRT4	MPZ
Endothelial_Progenitor	MRT4	0	MRT4	MPZ
Adipocyte	MRT4	0	MRT4	MPZ

Source	Target	Probability	Sample	Pathway
Unknown	MRT4	0	MRT4	MPZ
MRT4	TAM	0	MRT4	MPZ
TAM	TAM	0	MRT4	MPZ
Monocyte	TAM	0	MRT4	MPZ
T_NK	TAM	0	MRT4	MPZ
Fibroblast	TAM	0.006471158565	MRT4	MPZ
Endothelial_Cell	TAM	0	MRT4	MPZ
Endothelial_Progenitor	TAM	0	MRT4	MPZ
Adipocyte	TAM	0	MRT4	MPZ
Unknown	TAM	0.007214930863	MRT4	MPZ
MRT4	Monocyte	0	MRT4	MPZ
TAM	Monocyte	0	MRT4	MPZ
Monocyte	Monocyte	0	MRT4	MPZ
T_NK	Monocyte	0	MRT4	MPZ
Fibroblast	Monocyte	0	MRT4	MPZ
Endothelial_Cell	Monocyte	0	MRT4	MPZ
Endothelial_Progenitor	Monocyte	0	MRT4	MPZ
Adipocyte	Monocyte	0	MRT4	MPZ
Unknown	Monocyte	0	MRT4	MPZ
MRT4	T_NK	0	MRT4	MPZ
TAM	T_NK	0	MRT4	MPZ
Monocyte	T_NK	0	MRT4	MPZ
T_NK	T_NK	0	MRT4	MPZ
Fibroblast	T_NK	0	MRT4	MPZ
Endothelial_Cell	T_NK	0	MRT4	MPZ
Endothelial_Progenitor	T_NK	0	MRT4	MPZ
Adipocyte	T_NK	0	MRT4	MPZ
Unknown	T_NK	0	MRT4	MPZ
MRT4	Fibroblast	0	MRT4	MPZ
TAM	Fibroblast	0.006471158565	MRT4	MPZ

Source	Target	Probability	Sample	Pathway
Monocyte	Fibroblast	0	MRT4	MPZ
T_NK	Fibroblast	0	MRT4	MPZ
Fibroblast	Fibroblast	0.02281718177	MRT4	MPZ
Endothelial_Cell	Fibroblast	0.006471158565	MRT4	MPZ
Endothelial_Progenitor	Fibroblast	0.006471158565	MRT4	MPZ
Adipocyte	Fibroblast	0.006471158565	MRT4	MPZ
Unknown	Fibroblast	0.02539169324	MRT4	MPZ
MRT4	Endothelial_Cell	0	MRT4	MPZ
TAM	Endothelial_Cell	0	MRT4	MPZ
Monocyte	Endothelial_Cell	0	MRT4	MPZ
T_NK	Endothelial_Cell	0	MRT4	MPZ
Fibroblast	Endothelial_Cell	0.006471158565	MRT4	MPZ
Endothelial_Cell	Endothelial_Cell	0	MRT4	MPZ
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	MPZ
Adipocyte	Endothelial_Cell	0	MRT4	MPZ
Unknown	Endothelial_Cell	0.007214930863	MRT4	MPZ
MRT4	Endothelial_Progenitor	0	MRT4	MPZ
TAM	Endothelial_Progenitor	0	MRT4	MPZ
Monocyte	Endothelial_Progenitor	0	MRT4	MPZ
T_NK	Endothelial_Progenitor	0	MRT4	MPZ
Fibroblast	Endothelial_Progenitor	0.006471158565	MRT4	MPZ
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	MPZ
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	MPZ
Adipocyte	Endothelial_Progenitor	0	MRT4	MPZ
Unknown	Endothelial_Progenitor	0.007214930863	MRT4	MPZ
MRT4	Adipocyte	0	MRT4	MPZ
TAM	Adipocyte	0	MRT4	MPZ
Monocyte	Adipocyte	0	MRT4	MPZ
T_NK	Adipocyte	0	MRT4	MPZ
Fibroblast	Adipocyte	0.006471158565	MRT4	MPZ

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Adipocyte	0	MRT4	MPZ
Endothelial_Progenitor	Adipocyte	0	MRT4	MPZ
Adipocyte	Adipocyte	0	MRT4	MPZ
Unknown	Adipocyte	0.007214930863	MRT4	MPZ
MRT4	Unknown	0	MRT4	MPZ
TAM	Unknown	0.007214930863	MRT4	MPZ
Monocyte	Unknown	0	MRT4	MPZ
T_NK	Unknown	0	MRT4	MPZ
Fibroblast	Unknown	0.02539169324	MRT4	MPZ
Endothelial_Cell	Unknown	0.007214930863	MRT4	MPZ
Endothelial_Progenitor	Unknown	0.007214930863	MRT4	MPZ
Adipocyte	Unknown	0.007214930863	MRT4	MPZ
Unknown	Unknown	0.02824829497	MRT4	MPZ
MRT4	MRT4	0	MRT4	ANGPTL
TAM	MRT4	0	MRT4	ANGPTL
Monocyte	MRT4	0	MRT4	ANGPTL
T_NK	MRT4	0	MRT4	ANGPTL
Fibroblast	MRT4	0	MRT4	ANGPTL
Endothelial_Cell	MRT4	0	MRT4	ANGPTL
Endothelial_Progenitor	MRT4	0	MRT4	ANGPTL
Adipocyte	MRT4	0.02281718177	MRT4	ANGPTL
Unknown	MRT4	0	MRT4	ANGPTL
MRT4	TAM	0	MRT4	ANGPTL
TAM	TAM	0	MRT4	ANGPTL
Monocyte	TAM	0	MRT4	ANGPTL
T_NK	TAM	0	MRT4	ANGPTL
Fibroblast	TAM	0.001813546173	MRT4	ANGPTL
Endothelial_Cell	TAM	0	MRT4	ANGPTL
Endothelial_Progenitor	TAM	0	MRT4	ANGPTL
Adipocyte	TAM	0.008284704738	MRT4	ANGPTL

Source	Target	Probability	Sample	Pathway
Unknown	TAM	0	MRT4	ANGPTL
MRT4	Monocyte	0	MRT4	ANGPTL
TAM	Monocyte	0	MRT4	ANGPTL
Monocyte	Monocyte	0	MRT4	ANGPTL
T_NK	Monocyte	0	MRT4	ANGPTL
Fibroblast	Monocyte	0	MRT4	ANGPTL
Endothelial_Cell	Monocyte	0	MRT4	ANGPTL
Endothelial_Progenitor	Monocyte	0	MRT4	ANGPTL
Adipocyte	Monocyte	0	MRT4	ANGPTL
Unknown	Monocyte	0	MRT4	ANGPTL
MRT4	T_NK	0	MRT4	ANGPTL
TAM	T_NK	0	MRT4	ANGPTL
Monocyte	T_NK	0	MRT4	ANGPTL
T_NK	T_NK	0	MRT4	ANGPTL
Fibroblast	T_NK	0	MRT4	ANGPTL
Endothelial_Cell	T_NK	0	MRT4	ANGPTL
Endothelial_Progenitor	T_NK	0	MRT4	ANGPTL
Adipocyte	T_NK	0	MRT4	ANGPTL
Unknown	T_NK	0	MRT4	ANGPTL
MRT4	Fibroblast	0	MRT4	ANGPTL
TAM	Fibroblast	0	MRT4	ANGPTL
Monocyte	Fibroblast	0	MRT4	ANGPTL
T_NK	Fibroblast	0	MRT4	ANGPTL
Fibroblast	Fibroblast	0	MRT4	ANGPTL
Endothelial_Cell	Fibroblast	0	MRT4	ANGPTL
Endothelial_Progenitor	Fibroblast	0	MRT4	ANGPTL
Adipocyte	Fibroblast	0.07591634467	MRT4	ANGPTL
Unknown	Fibroblast	0	MRT4	ANGPTL
MRT4	Endothelial_Cell	0	MRT4	ANGPTL
TAM	Endothelial_Cell	0	MRT4	ANGPTL

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Cell	0	MRT4	ANGPTL
T_NK	Endothelial_Cell	0	MRT4	ANGPTL
Fibroblast	Endothelial_Cell	0.003428213352	MRT4	ANGPTL
Endothelial_Cell	Endothelial_Cell	0	MRT4	ANGPTL
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ANGPTL
Adipocyte	Endothelial_Cell	0.0220814332	MRT4	ANGPTL
Unknown	Endothelial_Cell	0	MRT4	ANGPTL
MRT4	Endothelial_Progenitor	0	MRT4	ANGPTL
TAM	Endothelial_Progenitor	0	MRT4	ANGPTL
Monocyte	Endothelial_Progenitor	0	MRT4	ANGPTL
T_NK	Endothelial_Progenitor	0	MRT4	ANGPTL
Fibroblast	Endothelial_Progenitor	0.003875239737	MRT4	ANGPTL
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ANGPTL
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ANGPTL
Adipocyte	Endothelial_Progenitor	0.02784790732	MRT4	ANGPTL
Unknown	Endothelial_Progenitor	0	MRT4	ANGPTL
MRT4	Adipocyte	0	MRT4	ANGPTL
TAM	Adipocyte	0	MRT4	ANGPTL
Monocyte	Adipocyte	0	MRT4	ANGPTL
T_NK	Adipocyte	0	MRT4	ANGPTL
Fibroblast	Adipocyte	0	MRT4	ANGPTL
Endothelial_Cell	Adipocyte	0	MRT4	ANGPTL
Endothelial_Progenitor	Adipocyte	0	MRT4	ANGPTL
Adipocyte	Adipocyte	0.006471158565	MRT4	ANGPTL
Unknown	Adipocyte	0	MRT4	ANGPTL
MRT4	Unknown	0	MRT4	ANGPTL
TAM	Unknown	0	MRT4	ANGPTL
Monocyte	Unknown	0	MRT4	ANGPTL
T_NK	Unknown	0	MRT4	ANGPTL
Fibroblast	Unknown	0	MRT4	ANGPTL

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Unknown	0	MRT4	ANGPTL
Endothelial_Progenitor	Unknown	0	MRT4	ANGPTL
Adipocyte	Unknown	0	MRT4	ANGPTL
Unknown	Unknown	0	MRT4	ANGPTL
MRT4	MRT4	0	MRT4	FGF
TAM	MRT4	0	MRT4	FGF
Monocyte	MRT4	0	MRT4	FGF
T_NK	MRT4	0	MRT4	FGF
Fibroblast	MRT4	0	MRT4	FGF
Endothelial_Cell	MRT4	0	MRT4	FGF
Endothelial_Progenitor	MRT4	0	MRT4	FGF
Adipocyte	MRT4	0	MRT4	FGF
Unknown	MRT4	0	MRT4	FGF
MRT4	TAM	0	MRT4	FGF
TAM	TAM	0	MRT4	FGF
Monocyte	TAM	0	MRT4	FGF
T_NK	TAM	0	MRT4	FGF
Fibroblast	TAM	0	MRT4	FGF
Endothelial_Cell	TAM	0	MRT4	FGF
Endothelial_Progenitor	TAM	0	MRT4	FGF
Adipocyte	TAM	0	MRT4	FGF
Unknown	TAM	0	MRT4	FGF
MRT4	Monocyte	0	MRT4	FGF
TAM	Monocyte	0	MRT4	FGF
Monocyte	Monocyte	0	MRT4	FGF
T_NK	Monocyte	0	MRT4	FGF
Fibroblast	Monocyte	0	MRT4	FGF
Endothelial_Cell	Monocyte	0	MRT4	FGF
Endothelial_Progenitor	Monocyte	0	MRT4	FGF
Adipocyte	Monocyte	0	MRT4	FGF

Source	Target	Probability	Sample	Pathway
Unknown	Monocyte	0	MRT4	FGF
MRT4	T_NK	0	MRT4	FGF
TAM	T_NK	0	MRT4	FGF
Monocyte	T_NK	0	MRT4	FGF
T_NK	T_NK	0	MRT4	FGF
Fibroblast	T_NK	0	MRT4	FGF
Endothelial_Cell	T_NK	0	MRT4	FGF
Endothelial_Progenitor	T_NK	0	MRT4	FGF
Adipocyte	T_NK	0	MRT4	FGF
Unknown	T_NK	0	MRT4	FGF
MRT4	Fibroblast	0.006471158565	MRT4	FGF
TAM	Fibroblast	0	MRT4	FGF
Monocyte	Fibroblast	0	MRT4	FGF
T_NK	Fibroblast	0	MRT4	FGF
Fibroblast	Fibroblast	0.02539169324	MRT4	FGF
Endothelial_Cell	Fibroblast	0	MRT4	FGF
Endothelial_Progenitor	Fibroblast	0	MRT4	FGF
Adipocyte	Fibroblast	0.01668902367	MRT4	FGF
Unknown	Fibroblast	0	MRT4	FGF
MRT4	Endothelial_Cell	0	MRT4	FGF
TAM	Endothelial_Cell	0	MRT4	FGF
Monocyte	Endothelial_Cell	0	MRT4	FGF
T_NK	Endothelial_Cell	0	MRT4	FGF
Fibroblast	Endothelial_Cell	0.007214930863	MRT4	FGF
Endothelial_Cell	Endothelial_Cell	0	MRT4	FGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	FGF
Adipocyte	Endothelial_Cell	0.001813546173	MRT4	FGF
Unknown	Endothelial_Cell	0	MRT4	FGF
MRT4	Endothelial_Progenitor	0	MRT4	FGF
TAM	Endothelial_Progenitor	0	MRT4	FGF

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Progenitor	0	MRT4	FGF
T_NK	Endothelial_Progenitor	0	MRT4	FGF
Fibroblast	Endothelial_Progenitor	0.007214930863	MRT4	FGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	FGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	FGF
Adipocyte	Endothelial_Progenitor	0.004684902754	MRT4	FGF
Unknown	Endothelial_Progenitor	0	MRT4	FGF
MRT4	Adipocyte	0.005420976139	MRT4	FGF
TAM	Adipocyte	0	MRT4	FGF
Monocyte	Adipocyte	0	MRT4	FGF
T_NK	Adipocyte	0	MRT4	FGF
Fibroblast	Adipocyte	0.02133690401	MRT4	FGF
Endothelial_Cell	Adipocyte	0	MRT4	FGF
Endothelial_Progenitor	Adipocyte	0	MRT4	FGF
Adipocyte	Adipocyte	0.01398586021	MRT4	FGF
Unknown	Adipocyte	0	MRT4	FGF
MRT4	Unknown	0.007214930863	MRT4	FGF
TAM	Unknown	0	MRT4	FGF
Monocyte	Unknown	0	MRT4	FGF
T_NK	Unknown	0	MRT4	FGF
Fibroblast	Unknown	0.02824829497	MRT4	FGF
Endothelial_Cell	Unknown	0	MRT4	FGF
Endothelial_Progenitor	Unknown	0	MRT4	FGF
Adipocyte	Unknown	0.01860226589	MRT4	FGF
Unknown	Unknown	0	MRT4	FGF
MRT4	MRT4	0	MRT4	CD45
TAM	MRT4	0	MRT4	CD45
Monocyte	MRT4	0	MRT4	CD45
T_NK	MRT4	0	MRT4	CD45
Fibroblast	MRT4	0	MRT4	CD45

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	MRT4	0	MRT4	CD45
Endothelial_Progenitor	MRT4	0	MRT4	CD45
Adipocyte	MRT4	0	MRT4	CD45
Unknown	MRT4	0	MRT4	CD45
MRT4	TAM	0	MRT4	CD45
TAM	TAM	0.08442815387	MRT4	CD45
Monocyte	TAM	0	MRT4	CD45
T_NK	TAM	0	MRT4	CD45
Fibroblast	TAM	0	MRT4	CD45
Endothelial_Cell	TAM	0	MRT4	CD45
Endothelial_Progenitor	TAM	0	MRT4	CD45
Adipocyte	TAM	0	MRT4	CD45
Unknown	TAM	0	MRT4	CD45
MRT4	Monocyte	0	MRT4	CD45
TAM	Monocyte	0	MRT4	CD45
Monocyte	Monocyte	0	MRT4	CD45
T_NK	Monocyte	0	MRT4	CD45
Fibroblast	Monocyte	0	MRT4	CD45
Endothelial_Cell	Monocyte	0	MRT4	CD45
Endothelial_Progenitor	Monocyte	0	MRT4	CD45
Adipocyte	Monocyte	0	MRT4	CD45
Unknown	Monocyte	0	MRT4	CD45
MRT4	T_NK	0	MRT4	CD45
TAM	T_NK	0	MRT4	CD45
Monocyte	T_NK	0	MRT4	CD45
T_NK	T_NK	0	MRT4	CD45
Fibroblast	T_NK	0	MRT4	CD45
Endothelial_Cell	T_NK	0	MRT4	CD45
Endothelial_Progenitor	T_NK	0	MRT4	CD45
Adipocyte	T_NK	0	MRT4	CD45

Source	Target	Probability	Sample	Pathway
Unknown	T_NK	0	MRT4	CD45
MRT4	Fibroblast	0	MRT4	CD45
TAM	Fibroblast	0	MRT4	CD45
Monocyte	Fibroblast	0	MRT4	CD45
T_NK	Fibroblast	0	MRT4	CD45
Fibroblast	Fibroblast	0	MRT4	CD45
Endothelial_Cell	Fibroblast	0	MRT4	CD45
Endothelial_Progenitor	Fibroblast	0	MRT4	CD45
Adipocyte	Fibroblast	0	MRT4	CD45
Unknown	Fibroblast	0	MRT4	CD45
MRT4	Endothelial_Cell	0	MRT4	CD45
TAM	Endothelial_Cell	0.05604614804	MRT4	CD45
Monocyte	Endothelial_Cell	0	MRT4	CD45
T_NK	Endothelial_Cell	0	MRT4	CD45
Fibroblast	Endothelial_Cell	0	MRT4	CD45
Endothelial_Cell	Endothelial_Cell	0	MRT4	CD45
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CD45
Adipocyte	Endothelial_Cell	0	MRT4	CD45
Unknown	Endothelial_Cell	0	MRT4	CD45
MRT4	Endothelial_Progenitor	0	MRT4	CD45
TAM	Endothelial_Progenitor	0	MRT4	CD45
Monocyte	Endothelial_Progenitor	0	MRT4	CD45
T_NK	Endothelial_Progenitor	0	MRT4	CD45
Fibroblast	Endothelial_Progenitor	0	MRT4	CD45
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CD45
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CD45
Adipocyte	Endothelial_Progenitor	0	MRT4	CD45
Unknown	Endothelial_Progenitor	0	MRT4	CD45
MRT4	Adipocyte	0	MRT4	CD45
TAM	Adipocyte	0	MRT4	CD45

Source	Target	Probability	Sample	Pathway
Monocyte	Adipocyte	0	MRT4	CD45
T_NK	Adipocyte	0	MRT4	CD45
Fibroblast	Adipocyte	0	MRT4	CD45
Endothelial_Cell	Adipocyte	0	MRT4	CD45
Endothelial_Progenitor	Adipocyte	0	MRT4	CD45
Adipocyte	Adipocyte	0	MRT4	CD45
Unknown	Adipocyte	0	MRT4	CD45
MRT4	Unknown	0	MRT4	CD45
TAM	Unknown	0	MRT4	CD45
Monocyte	Unknown	0	MRT4	CD45
T_NK	Unknown	0	MRT4	CD45
Fibroblast	Unknown	0	MRT4	CD45
Endothelial_Cell	Unknown	0	MRT4	CD45
Endothelial_Progenitor	Unknown	0	MRT4	CD45
Adipocyte	Unknown	0	MRT4	CD45
Unknown	Unknown	0	MRT4	CD45
MRT4	MRT4	0	MRT4	VISFATIN
TAM	MRT4	0.001813546173	MRT4	VISFATIN
Monocyte	MRT4	0	MRT4	VISFATIN
T_NK	MRT4	0	MRT4	VISFATIN
Fibroblast	MRT4	0.001813546173	MRT4	VISFATIN
Endothelial_Cell	MRT4	0	MRT4	VISFATIN
Endothelial_Progenitor	MRT4	0.001813546173	MRT4	VISFATIN
Adipocyte	MRT4	0.001813546173	MRT4	VISFATIN
Unknown	MRT4	0	MRT4	VISFATIN
MRT4	TAM	0	MRT4	VISFATIN
TAM	TAM	0	MRT4	VISFATIN
Monocyte	TAM	0	MRT4	VISFATIN
T_NK	TAM	0	MRT4	VISFATIN
Fibroblast	TAM	0	MRT4	VISFATIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	TAM	0	MRT4	VISFATIN
Endothelial_Progenitor	TAM	0	MRT4	VISFATIN
Adipocyte	TAM	0	MRT4	VISFATIN
Unknown	TAM	0	MRT4	VISFATIN
MRT4	Monocyte	0	MRT4	VISFATIN
TAM	Monocyte	0	MRT4	VISFATIN
Monocyte	Monocyte	0	MRT4	VISFATIN
T_NK	Monocyte	0	MRT4	VISFATIN
Fibroblast	Monocyte	0	MRT4	VISFATIN
Endothelial_Cell	Monocyte	0	MRT4	VISFATIN
Endothelial_Progenitor	Monocyte	0	MRT4	VISFATIN
Adipocyte	Monocyte	0	MRT4	VISFATIN
Unknown	Monocyte	0	MRT4	VISFATIN
MRT4	T_NK	0	MRT4	VISFATIN
TAM	T_NK	0	MRT4	VISFATIN
Monocyte	T_NK	0	MRT4	VISFATIN
T_NK	T_NK	0	MRT4	VISFATIN
Fibroblast	T_NK	0	MRT4	VISFATIN
Endothelial_Cell	T_NK	0	MRT4	VISFATIN
Endothelial_Progenitor	T_NK	0	MRT4	VISFATIN
Adipocyte	T_NK	0	MRT4	VISFATIN
Unknown	T_NK	0	MRT4	VISFATIN
MRT4	Fibroblast	0	MRT4	VISFATIN
TAM	Fibroblast	0.001813546173	MRT4	VISFATIN
Monocyte	Fibroblast	0	MRT4	VISFATIN
T_NK	Fibroblast	0	MRT4	VISFATIN
Fibroblast	Fibroblast	0.001813546173	MRT4	VISFATIN
Endothelial_Cell	Fibroblast	0	MRT4	VISFATIN
Endothelial_Progenitor	Fibroblast	0.001813546173	MRT4	VISFATIN
Adipocyte	Fibroblast	0.001813546173	MRT4	VISFATIN

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0	MRT4	VISFATIN
MRT4	Endothelial_Cell	0	MRT4	VISFATIN
TAM	Endothelial_Cell	0.005241759525	MRT4	VISFATIN
Monocyte	Endothelial_Cell	0	MRT4	VISFATIN
T_NK	Endothelial_Cell	0	MRT4	VISFATIN
Fibroblast	Endothelial_Cell	0.005241759525	MRT4	VISFATIN
Endothelial_Cell	Endothelial_Cell	0	MRT4	VISFATIN
Endothelial_Progenitor	Endothelial_Cell	0.005241759525	MRT4	VISFATIN
Adipocyte	Endothelial_Cell	0.005241759525	MRT4	VISFATIN
Unknown	Endothelial_Cell	0	MRT4	VISFATIN
MRT4	Endothelial_Progenitor	0	MRT4	VISFATIN
TAM	Endothelial_Progenitor	0.0110901706	MRT4	VISFATIN
Monocyte	Endothelial_Progenitor	0	MRT4	VISFATIN
T_NK	Endothelial_Progenitor	0	MRT4	VISFATIN
Fibroblast	Endothelial_Progenitor	0.0110901706	MRT4	VISFATIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	VISFATIN
Endothelial_Progenitor	Endothelial_Progenitor	0.0110901706	MRT4	VISFATIN
Adipocyte	Endothelial_Progenitor	0.0110901706	MRT4	VISFATIN
Unknown	Endothelial_Progenitor	0	MRT4	VISFATIN
MRT4	Adipocyte	0	MRT4	VISFATIN
TAM	Adipocyte	0.006471158565	MRT4	VISFATIN
Monocyte	Adipocyte	0	MRT4	VISFATIN
T_NK	Adipocyte	0	MRT4	VISFATIN
Fibroblast	Adipocyte	0.006471158565	MRT4	VISFATIN
Endothelial_Cell	Adipocyte	0	MRT4	VISFATIN
Endothelial_Progenitor	Adipocyte	0.006471158565	MRT4	VISFATIN
Adipocyte	Adipocyte	0.006471158565	MRT4	VISFATIN
Unknown	Adipocyte	0	MRT4	VISFATIN
MRT4	Unknown	0	MRT4	VISFATIN
TAM	Unknown	0.007214930863	MRT4	VISFATIN

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT4	VISFATIN
T_NK	Unknown	0	MRT4	VISFATIN
Fibroblast	Unknown	0.007214930863	MRT4	VISFATIN
Endothelial_Cell	Unknown	0	MRT4	VISFATIN
Endothelial_Progenitor	Unknown	0.007214930863	MRT4	VISFATIN
Adipocyte	Unknown	0.007214930863	MRT4	VISFATIN
Unknown	Unknown	0	MRT4	VISFATIN
MRT4	MRT4	0	MRT4	PDGF
TAM	MRT4	0	MRT4	PDGF
Monocyte	MRT4	0	MRT4	PDGF
T_NK	MRT4	0	MRT4	PDGF
Fibroblast	MRT4	0	MRT4	PDGF
Endothelial_Cell	MRT4	0	MRT4	PDGF
Endothelial_Progenitor	MRT4	0	MRT4	PDGF
Adipocyte	MRT4	0	MRT4	PDGF
Unknown	MRT4	0	MRT4	PDGF
MRT4	TAM	0	MRT4	PDGF
TAM	TAM	0	MRT4	PDGF
Monocyte	TAM	0	MRT4	PDGF
T_NK	TAM	0	MRT4	PDGF
Fibroblast	TAM	0	MRT4	PDGF
Endothelial_Cell	TAM	0	MRT4	PDGF
Endothelial_Progenitor	TAM	0	MRT4	PDGF
Adipocyte	TAM	0	MRT4	PDGF
Unknown	TAM	0	MRT4	PDGF
MRT4	Monocyte	0	MRT4	PDGF
TAM	Monocyte	0	MRT4	PDGF
Monocyte	Monocyte	0	MRT4	PDGF
T_NK	Monocyte	0	MRT4	PDGF
Fibroblast	Monocyte	0	MRT4	PDGF

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Monocyte	0	MRT4	PDGF
Endothelial_Progenitor	Monocyte	0	MRT4	PDGF
Adipocyte	Monocyte	0	MRT4	PDGF
Unknown	Monocyte	0	MRT4	PDGF
MRT4	T_NK	0	MRT4	PDGF
TAM	T_NK	0	MRT4	PDGF
Monocyte	T_NK	0	MRT4	PDGF
T_NK	T_NK	0	MRT4	PDGF
Fibroblast	T_NK	0	MRT4	PDGF
Endothelial_Cell	T_NK	0	MRT4	PDGF
Endothelial_Progenitor	T_NK	0	MRT4	PDGF
Adipocyte	T_NK	0	MRT4	PDGF
Unknown	T_NK	0	MRT4	PDGF
MRT4	Fibroblast	0.02091873716	MRT4	PDGF
TAM	Fibroblast	0.02989358749	MRT4	PDGF
Monocyte	Fibroblast	0	MRT4	PDGF
T_NK	Fibroblast	0	MRT4	PDGF
Fibroblast	Fibroblast	0.004359566047	MRT4	PDGF
Endothelial_Cell	Fibroblast	0.00401695571	MRT4	PDGF
Endothelial_Progenitor	Fibroblast	0.007787701716	MRT4	PDGF
Adipocyte	Fibroblast	0.02360433535	MRT4	PDGF
Unknown	Fibroblast	0.01372706672	MRT4	PDGF
MRT4	Endothelial_Cell	0	MRT4	PDGF
TAM	Endothelial_Cell	0	MRT4	PDGF
Monocyte	Endothelial_Cell	0	MRT4	PDGF
T_NK	Endothelial_Cell	0	MRT4	PDGF
Fibroblast	Endothelial_Cell	0	MRT4	PDGF
Endothelial_Cell	Endothelial_Cell	0	MRT4	PDGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	PDGF
Adipocyte	Endothelial_Cell	0	MRT4	PDGF

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Cell	0	MRT4	PDGF
MRT4	Endothelial_Progenitor	0	MRT4	PDGF
TAM	Endothelial_Progenitor	0	MRT4	PDGF
Monocyte	Endothelial_Progenitor	0	MRT4	PDGF
T_NK	Endothelial_Progenitor	0	MRT4	PDGF
Fibroblast	Endothelial_Progenitor	0	MRT4	PDGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	PDGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	PDGF
Adipocyte	Endothelial_Progenitor	0	MRT4	PDGF
Unknown	Endothelial_Progenitor	0	MRT4	PDGF
MRT4	Adipocyte	0	MRT4	PDGF
TAM	Adipocyte	0	MRT4	PDGF
Monocyte	Adipocyte	0	MRT4	PDGF
T_NK	Adipocyte	0	MRT4	PDGF
Fibroblast	Adipocyte	0	MRT4	PDGF
Endothelial_Cell	Adipocyte	0	MRT4	PDGF
Endothelial_Progenitor	Adipocyte	0	MRT4	PDGF
Adipocyte	Adipocyte	0	MRT4	PDGF
Unknown	Adipocyte	0	MRT4	PDGF
MRT4	Unknown	0	MRT4	PDGF
TAM	Unknown	0	MRT4	PDGF
Monocyte	Unknown	0	MRT4	PDGF
T_NK	Unknown	0	MRT4	PDGF
Fibroblast	Unknown	0	MRT4	PDGF
Endothelial_Cell	Unknown	0	MRT4	PDGF
Endothelial_Progenitor	Unknown	0	MRT4	PDGF
Adipocyte	Unknown	0	MRT4	PDGF
Unknown	Unknown	0	MRT4	PDGF
MRT4	MRT4	0	MRT4	NRXN
TAM	MRT4	0	MRT4	NRXN

Source	Target	Probability	Sample	Pathway
Monocyte	MRT4	0	MRT4	NRXN
T_NK	MRT4	0	MRT4	NRXN
Fibroblast	MRT4	0	MRT4	NRXN
Endothelial_Cell	MRT4	0.03862281725	MRT4	NRXN
Endothelial_Progenitor	MRT4	0	MRT4	NRXN
Adipocyte	MRT4	0	MRT4	NRXN
Unknown	MRT4	0	MRT4	NRXN
MRT4	TAM	0	MRT4	NRXN
TAM	TAM	0	MRT4	NRXN
Monocyte	TAM	0	MRT4	NRXN
T_NK	TAM	0	MRT4	NRXN
Fibroblast	TAM	0	MRT4	NRXN
Endothelial_Cell	TAM	0.002871356581	MRT4	NRXN
Endothelial_Progenitor	TAM	0	MRT4	NRXN
Adipocyte	TAM	0	MRT4	NRXN
Unknown	TAM	0	MRT4	NRXN
MRT4	Monocyte	0	MRT4	NRXN
TAM	Monocyte	0	MRT4	NRXN
Monocyte	Monocyte	0	MRT4	NRXN
T_NK	Monocyte	0	MRT4	NRXN
Fibroblast	Monocyte	0	MRT4	NRXN
Endothelial_Cell	Monocyte	0	MRT4	NRXN
Endothelial_Progenitor	Monocyte	0	MRT4	NRXN
Adipocyte	Monocyte	0	MRT4	NRXN
Unknown	Monocyte	0	MRT4	NRXN
MRT4	T_NK	0	MRT4	NRXN
TAM	T_NK	0	MRT4	NRXN
Monocyte	T_NK	0	MRT4	NRXN
T_NK	T_NK	0	MRT4	NRXN
Fibroblast	T_NK	0	MRT4	NRXN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	T_NK	0	MRT4	NRXN
Endothelial_Progenitor	T_NK	0	MRT4	NRXN
Adipocyte	T_NK	0	MRT4	NRXN
Unknown	T_NK	0	MRT4	NRXN
MRT4	Fibroblast	0	MRT4	NRXN
TAM	Fibroblast	0	MRT4	NRXN
Monocyte	Fibroblast	0	MRT4	NRXN
T_NK	Fibroblast	0	MRT4	NRXN
Fibroblast	Fibroblast	0	MRT4	NRXN
Endothelial_Cell	Fibroblast	0.01229254497	MRT4	NRXN
Endothelial_Progenitor	Fibroblast	0	MRT4	NRXN
Adipocyte	Fibroblast	0	MRT4	NRXN
Unknown	Fibroblast	0	MRT4	NRXN
MRT4	Endothelial_Cell	0	MRT4	NRXN
TAM	Endothelial_Cell	0	MRT4	NRXN
Monocyte	Endothelial_Cell	0	MRT4	NRXN
T_NK	Endothelial_Cell	0	MRT4	NRXN
Fibroblast	Endothelial_Cell	0	MRT4	NRXN
Endothelial_Cell	Endothelial_Cell	0	MRT4	NRXN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	NRXN
Adipocyte	Endothelial_Cell	0	MRT4	NRXN
Unknown	Endothelial_Cell	0	MRT4	NRXN
MRT4	Endothelial_Progenitor	0	MRT4	NRXN
TAM	Endothelial_Progenitor	0	MRT4	NRXN
Monocyte	Endothelial_Progenitor	0	MRT4	NRXN
T_NK	Endothelial_Progenitor	0	MRT4	NRXN
Fibroblast	Endothelial_Progenitor	0	MRT4	NRXN
Endothelial_Cell	Endothelial_Progenitor	0.00856488407	MRT4	NRXN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	NRXN
Adipocyte	Endothelial_Progenitor	0	MRT4	NRXN

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0	MRT4	NRXN
MRT4	Adipocyte	0	MRT4	NRXN
TAM	Adipocyte	0	MRT4	NRXN
Monocyte	Adipocyte	0	MRT4	NRXN
T_NK	Adipocyte	0	MRT4	NRXN
Fibroblast	Adipocyte	0	MRT4	NRXN
Endothelial_Cell	Adipocyte	0.01303092574	MRT4	NRXN
Endothelial_Progenitor	Adipocyte	0	MRT4	NRXN
Adipocyte	Adipocyte	0	MRT4	NRXN
Unknown	Adipocyte	0	MRT4	NRXN
MRT4	Unknown	0	MRT4	NRXN
TAM	Unknown	0	MRT4	NRXN
Monocyte	Unknown	0	MRT4	NRXN
T_NK	Unknown	0	MRT4	NRXN
Fibroblast	Unknown	0	MRT4	NRXN
Endothelial_Cell	Unknown	0.00856488407	MRT4	NRXN
Endothelial_Progenitor	Unknown	0	MRT4	NRXN
Adipocyte	Unknown	0	MRT4	NRXN
Unknown	Unknown	0	MRT4	NRXN
MRT4	MRT4	0	MRT4	VEGF
TAM	MRT4	0	MRT4	VEGF
Monocyte	MRT4	0	MRT4	VEGF
T_NK	MRT4	0	MRT4	VEGF
Fibroblast	MRT4	0	MRT4	VEGF
Endothelial_Cell	MRT4	0	MRT4	VEGF
Endothelial_Progenitor	MRT4	0	MRT4	VEGF
Adipocyte	MRT4	0	MRT4	VEGF
Unknown	MRT4	0	MRT4	VEGF
MRT4	TAM	0	MRT4	VEGF
TAM	TAM	0	MRT4	VEGF

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT4	VEGF
T_NK	TAM	0	MRT4	VEGF
Fibroblast	TAM	0	MRT4	VEGF
Endothelial_Cell	TAM	0	MRT4	VEGF
Endothelial_Progenitor	TAM	0	MRT4	VEGF
Adipocyte	TAM	0	MRT4	VEGF
Unknown	TAM	0	MRT4	VEGF
MRT4	Monocyte	0	MRT4	VEGF
TAM	Monocyte	0	MRT4	VEGF
Monocyte	Monocyte	0	MRT4	VEGF
T_NK	Monocyte	0	MRT4	VEGF
Fibroblast	Monocyte	0	MRT4	VEGF
Endothelial_Cell	Monocyte	0	MRT4	VEGF
Endothelial_Progenitor	Monocyte	0	MRT4	VEGF
Adipocyte	Monocyte	0	MRT4	VEGF
Unknown	Monocyte	0	MRT4	VEGF
MRT4	T_NK	0	MRT4	VEGF
TAM	T_NK	0	MRT4	VEGF
Monocyte	T_NK	0	MRT4	VEGF
T_NK	T_NK	0	MRT4	VEGF
Fibroblast	T_NK	0	MRT4	VEGF
Endothelial_Cell	T_NK	0	MRT4	VEGF
Endothelial_Progenitor	T_NK	0	MRT4	VEGF
Adipocyte	T_NK	0	MRT4	VEGF
Unknown	T_NK	0	MRT4	VEGF
MRT4	Fibroblast	0	MRT4	VEGF
TAM	Fibroblast	0	MRT4	VEGF
Monocyte	Fibroblast	0	MRT4	VEGF
T_NK	Fibroblast	0	MRT4	VEGF
Fibroblast	Fibroblast	0	MRT4	VEGF

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Fibroblast	0	MRT4	VEGF
Endothelial_Progenitor	Fibroblast	0	MRT4	VEGF
Adipocyte	Fibroblast	0	MRT4	VEGF
Unknown	Fibroblast	0	MRT4	VEGF
MRT4	Endothelial_Cell	0	MRT4	VEGF
TAM	Endothelial_Cell	0	MRT4	VEGF
Monocyte	Endothelial_Cell	0	MRT4	VEGF
T_NK	Endothelial_Cell	0	MRT4	VEGF
Fibroblast	Endothelial_Cell	0	MRT4	VEGF
Endothelial_Cell	Endothelial_Cell	0	MRT4	VEGF
Endothelial_Progenitor	Endothelial_Cell	0.05005015914	MRT4	VEGF
Adipocyte	Endothelial_Cell	0	MRT4	VEGF
Unknown	Endothelial_Cell	0	MRT4	VEGF
MRT4	Endothelial_Progenitor	0	MRT4	VEGF
TAM	Endothelial_Progenitor	0	MRT4	VEGF
Monocyte	Endothelial_Progenitor	0	MRT4	VEGF
T_NK	Endothelial_Progenitor	0	MRT4	VEGF
Fibroblast	Endothelial_Progenitor	0	MRT4	VEGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	VEGF
Endothelial_Progenitor	Endothelial_Progenitor	0.01425194964	MRT4	VEGF
Adipocyte	Endothelial_Progenitor	0	MRT4	VEGF
Unknown	Endothelial_Progenitor	0	MRT4	VEGF
MRT4	Adipocyte	0	MRT4	VEGF
TAM	Adipocyte	0	MRT4	VEGF
Monocyte	Adipocyte	0	MRT4	VEGF
T_NK	Adipocyte	0	MRT4	VEGF
Fibroblast	Adipocyte	0	MRT4	VEGF
Endothelial_Cell	Adipocyte	0	MRT4	VEGF
Endothelial_Progenitor	Adipocyte	0	MRT4	VEGF
Adipocyte	Adipocyte	0	MRT4	VEGF

Source	Target	Probability	Sample	Pathway
Unknown	Adipocyte	0	MRT4	VEGF
MRT4	Unknown	0	MRT4	VEGF
TAM	Unknown	0	MRT4	VEGF
Monocyte	Unknown	0	MRT4	VEGF
T_NK	Unknown	0	MRT4	VEGF
Fibroblast	Unknown	0	MRT4	VEGF
Endothelial_Cell	Unknown	0	MRT4	VEGF
Endothelial_Progenitor	Unknown	0	MRT4	VEGF
Adipocyte	Unknown	0	MRT4	VEGF
Unknown	Unknown	0	MRT4	VEGF
MRT4	MRT4	0	MRT4	TGFb
TAM	MRT4	0	MRT4	TGFb
Monocyte	MRT4	0	MRT4	TGFb
T_NK	MRT4	0	MRT4	TGFb
Fibroblast	MRT4	0	MRT4	TGFb
Endothelial_Cell	MRT4	0	MRT4	TGFb
Endothelial_Progenitor	MRT4	0	MRT4	TGFb
Adipocyte	MRT4	0	MRT4	TGFb
Unknown	MRT4	0	MRT4	TGFb
MRT4	TAM	0	MRT4	TGFb
TAM	TAM	0.007740444961	MRT4	TGFb
Monocyte	TAM	0	MRT4	TGFb
T_NK	TAM	0	MRT4	TGFb
Fibroblast	TAM	0	MRT4	TGFb
Endothelial_Cell	TAM	0.01344269647	MRT4	TGFb
Endothelial_Progenitor	TAM	0	MRT4	TGFb
Adipocyte	TAM	0	MRT4	TGFb
Unknown	TAM	0	MRT4	TGFb
MRT4	Monocyte	0	MRT4	TGFb
TAM	Monocyte	0	MRT4	TGFb

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT4	TGFb
T_NK	Monocyte	0	MRT4	TGFb
Fibroblast	Monocyte	0	MRT4	TGFb
Endothelial_Cell	Monocyte	0	MRT4	TGFb
Endothelial_Progenitor	Monocyte	0	MRT4	TGFb
Adipocyte	Monocyte	0	MRT4	TGFb
Unknown	Monocyte	0	MRT4	TGFb
MRT4	T_NK	0	MRT4	TGFb
TAM	T_NK	0	MRT4	TGFb
Monocyte	T_NK	0	MRT4	TGFb
T_NK	T_NK	0	MRT4	TGFb
Fibroblast	T_NK	0	MRT4	TGFb
Endothelial_Cell	T_NK	0	MRT4	TGFb
Endothelial_Progenitor	T_NK	0	MRT4	TGFb
Adipocyte	T_NK	0	MRT4	TGFb
Unknown	T_NK	0	MRT4	TGFb
MRT4	Fibroblast	0	MRT4	TGFb
TAM	Fibroblast	0.007822888844	MRT4	TGFb
Monocyte	Fibroblast	0	MRT4	TGFb
T_NK	Fibroblast	0	MRT4	TGFb
Fibroblast	Fibroblast	0	MRT4	TGFb
Endothelial_Cell	Fibroblast	0.01416927774	MRT4	TGFb
Endothelial_Progenitor	Fibroblast	0	MRT4	TGFb
Adipocyte	Fibroblast	0	MRT4	TGFb
Unknown	Fibroblast	0	MRT4	TGFb
MRT4	Endothelial_Cell	0	MRT4	TGFb
TAM	Endothelial_Cell	0	MRT4	TGFb
Monocyte	Endothelial_Cell	0	MRT4	TGFb
T_NK	Endothelial_Cell	0	MRT4	TGFb
Fibroblast	Endothelial_Cell	0	MRT4	TGFb

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Cell	0	MRT4	TGFb
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	TGFb
Adipocyte	Endothelial_Cell	0	MRT4	TGFb
Unknown	Endothelial_Cell	0	MRT4	TGFb
MRT4	Endothelial_Progenitor	0	MRT4	TGFb
TAM	Endothelial_Progenitor	0.003018047589	MRT4	TGFb
Monocyte	Endothelial_Progenitor	0	MRT4	TGFb
T_NK	Endothelial_Progenitor	0	MRT4	TGFb
Fibroblast	Endothelial_Progenitor	0	MRT4	TGFb
Endothelial_Cell	Endothelial_Progenitor	0.004793166801	MRT4	TGFb
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	TGFb
Adipocyte	Endothelial_Progenitor	0	MRT4	TGFb
Unknown	Endothelial_Progenitor	0	MRT4	TGFb
MRT4	Adipocyte	0	MRT4	TGFb
TAM	Adipocyte	0.00407281121	MRT4	TGFb
Monocyte	Adipocyte	0	MRT4	TGFb
T_NK	Adipocyte	0	MRT4	TGFb
Fibroblast	Adipocyte	0	MRT4	TGFb
Endothelial_Cell	Adipocyte	0.006468308701	MRT4	TGFb
Endothelial_Progenitor	Adipocyte	0	MRT4	TGFb
Adipocyte	Adipocyte	0	MRT4	TGFb
Unknown	Adipocyte	0	MRT4	TGFb
MRT4	Unknown	0	MRT4	TGFb
TAM	Unknown	0	MRT4	TGFb
Monocyte	Unknown	0	MRT4	TGFb
T_NK	Unknown	0	MRT4	TGFb
Fibroblast	Unknown	0	MRT4	TGFb
Endothelial_Cell	Unknown	0	MRT4	TGFb
Endothelial_Progenitor	Unknown	0	MRT4	TGFb
Adipocyte	Unknown	0	MRT4	TGFb

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT4	TGFb
MRT4	MRT4	0	MRT4	GALECTIN
TAM	MRT4	0	MRT4	GALECTIN
Monocyte	MRT4	0	MRT4	GALECTIN
T_NK	MRT4	0	MRT4	GALECTIN
Fibroblast	MRT4	0	MRT4	GALECTIN
Endothelial_Cell	MRT4	0	MRT4	GALECTIN
Endothelial_Progenitor	MRT4	0	MRT4	GALECTIN
Adipocyte	MRT4	0	MRT4	GALECTIN
Unknown	MRT4	0	MRT4	GALECTIN
MRT4	TAM	0	MRT4	GALECTIN
TAM	TAM	0.02633397136	MRT4	GALECTIN
Monocyte	TAM	0	MRT4	GALECTIN
T_NK	TAM	0	MRT4	GALECTIN
Fibroblast	TAM	0	MRT4	GALECTIN
Endothelial_Cell	TAM	0	MRT4	GALECTIN
Endothelial_Progenitor	TAM	0	MRT4	GALECTIN
Adipocyte	TAM	0	MRT4	GALECTIN
Unknown	TAM	0	MRT4	GALECTIN
MRT4	Monocyte	0	MRT4	GALECTIN
TAM	Monocyte	0	MRT4	GALECTIN
Monocyte	Monocyte	0	MRT4	GALECTIN
T_NK	Monocyte	0	MRT4	GALECTIN
Fibroblast	Monocyte	0	MRT4	GALECTIN
Endothelial_Cell	Monocyte	0	MRT4	GALECTIN
Endothelial_Progenitor	Monocyte	0	MRT4	GALECTIN
Adipocyte	Monocyte	0	MRT4	GALECTIN
Unknown	Monocyte	0	MRT4	GALECTIN
MRT4	T_NK	0	MRT4	GALECTIN
TAM	T_NK	0	MRT4	GALECTIN

Source	Target	Probability	Sample	Pathway
Monocyte	T_NK	0	MRT4	GALECTIN
T_NK	T_NK	0	MRT4	GALECTIN
Fibroblast	T_NK	0	MRT4	GALECTIN
Endothelial_Cell	T_NK	0	MRT4	GALECTIN
Endothelial_Progenitor	T_NK	0	MRT4	GALECTIN
Adipocyte	T_NK	0	MRT4	GALECTIN
Unknown	T_NK	0	MRT4	GALECTIN
MRT4	Fibroblast	0	MRT4	GALECTIN
TAM	Fibroblast	0.01034752534	MRT4	GALECTIN
Monocyte	Fibroblast	0	MRT4	GALECTIN
T_NK	Fibroblast	0	MRT4	GALECTIN
Fibroblast	Fibroblast	0	MRT4	GALECTIN
Endothelial_Cell	Fibroblast	0	MRT4	GALECTIN
Endothelial_Progenitor	Fibroblast	0	MRT4	GALECTIN
Adipocyte	Fibroblast	0	MRT4	GALECTIN
Unknown	Fibroblast	0	MRT4	GALECTIN
MRT4	Endothelial_Cell	0	MRT4	GALECTIN
TAM	Endothelial_Cell	0	MRT4	GALECTIN
Monocyte	Endothelial_Cell	0	MRT4	GALECTIN
T_NK	Endothelial_Cell	0	MRT4	GALECTIN
Fibroblast	Endothelial_Cell	0	MRT4	GALECTIN
Endothelial_Cell	Endothelial_Cell	0	MRT4	GALECTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	GALECTIN
Adipocyte	Endothelial_Cell	0	MRT4	GALECTIN
Unknown	Endothelial_Cell	0	MRT4	GALECTIN
MRT4	Endothelial_Progenitor	0	MRT4	GALECTIN
TAM	Endothelial_Progenitor	0	MRT4	GALECTIN
Monocyte	Endothelial_Progenitor	0	MRT4	GALECTIN
T_NK	Endothelial_Progenitor	0	MRT4	GALECTIN
Fibroblast	Endothelial_Progenitor	0	MRT4	GALECTIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	GALECTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	GALECTIN
Adipocyte	Endothelial_Progenitor	0	MRT4	GALECTIN
Unknown	Endothelial_Progenitor	0	MRT4	GALECTIN
MRT4	Adipocyte	0	MRT4	GALECTIN
TAM	Adipocyte	0.003058754622	MRT4	GALECTIN
Monocyte	Adipocyte	0	MRT4	GALECTIN
T_NK	Adipocyte	0	MRT4	GALECTIN
Fibroblast	Adipocyte	0	MRT4	GALECTIN
Endothelial_Cell	Adipocyte	0	MRT4	GALECTIN
Endothelial_Progenitor	Adipocyte	0	MRT4	GALECTIN
Adipocyte	Adipocyte	0	MRT4	GALECTIN
Unknown	Adipocyte	0	MRT4	GALECTIN
MRT4	Unknown	0	MRT4	GALECTIN
TAM	Unknown	0.01843946318	MRT4	GALECTIN
Monocyte	Unknown	0	MRT4	GALECTIN
T_NK	Unknown	0	MRT4	GALECTIN
Fibroblast	Unknown	0	MRT4	GALECTIN
Endothelial_Cell	Unknown	0	MRT4	GALECTIN
Endothelial_Progenitor	Unknown	0	MRT4	GALECTIN
Adipocyte	Unknown	0	MRT4	GALECTIN
Unknown	Unknown	0	MRT4	GALECTIN
MRT4	MRT4	0	MRT4	EPHB
TAM	MRT4	0	MRT4	EPHB
Monocyte	MRT4	0	MRT4	EPHB
T_NK	MRT4	0	MRT4	EPHB
Fibroblast	MRT4	0	MRT4	EPHB
Endothelial_Cell	MRT4	0	MRT4	EPHB
Endothelial_Progenitor	MRT4	0	MRT4	EPHB
Adipocyte	MRT4	0	MRT4	EPHB

Source	Target	Probability	Sample	Pathway
Unknown	MRT4	0	MRT4	EPHB
MRT4	TAM	0	MRT4	EPHB
TAM	TAM	0	MRT4	EPHB
Monocyte	TAM	0	MRT4	EPHB
T_NK	TAM	0	MRT4	EPHB
Fibroblast	TAM	0	MRT4	EPHB
Endothelial_Cell	TAM	0	MRT4	EPHB
Endothelial_Progenitor	TAM	0	MRT4	EPHB
Adipocyte	TAM	0	MRT4	EPHB
Unknown	TAM	0	MRT4	EPHB
MRT4	Monocyte	0	MRT4	EPHB
TAM	Monocyte	0	MRT4	EPHB
Monocyte	Monocyte	0	MRT4	EPHB
T_NK	Monocyte	0	MRT4	EPHB
Fibroblast	Monocyte	0	MRT4	EPHB
Endothelial_Cell	Monocyte	0	MRT4	EPHB
Endothelial_Progenitor	Monocyte	0	MRT4	EPHB
Adipocyte	Monocyte	0	MRT4	EPHB
Unknown	Monocyte	0	MRT4	EPHB
MRT4	T_NK	0	MRT4	EPHB
TAM	T_NK	0	MRT4	EPHB
Monocyte	T_NK	0	MRT4	EPHB
T_NK	T_NK	0	MRT4	EPHB
Fibroblast	T_NK	0	MRT4	EPHB
Endothelial_Cell	T_NK	0	MRT4	EPHB
Endothelial_Progenitor	T_NK	0	MRT4	EPHB
Adipocyte	T_NK	0	MRT4	EPHB
Unknown	T_NK	0	MRT4	EPHB
MRT4	Fibroblast	0	MRT4	EPHB
TAM	Fibroblast	0	MRT4	EPHB

Source	Target	Probability	Sample	Pathway
Monocyte	Fibroblast	0	MRT4	EPHB
T_NK	Fibroblast	0	MRT4	EPHB
Fibroblast	Fibroblast	0	MRT4	EPHB
Endothelial_Cell	Fibroblast	0.001813546173	MRT4	EPHB
Endothelial_Progenitor	Fibroblast	0.001813546173	MRT4	EPHB
Adipocyte	Fibroblast	0	MRT4	EPHB
Unknown	Fibroblast	0	MRT4	EPHB
MRT4	Endothelial_Cell	0	MRT4	EPHB
TAM	Endothelial_Cell	0	MRT4	EPHB
Monocyte	Endothelial_Cell	0	MRT4	EPHB
T_NK	Endothelial_Cell	0	MRT4	EPHB
Fibroblast	Endothelial_Cell	0	MRT4	EPHB
Endothelial_Cell	Endothelial_Cell	0.0190143223	MRT4	EPHB
Endothelial_Progenitor	Endothelial_Cell	0.0190143223	MRT4	EPHB
Adipocyte	Endothelial_Cell	0	MRT4	EPHB
Unknown	Endothelial_Cell	0	MRT4	EPHB
MRT4	Endothelial_Progenitor	0	MRT4	EPHB
TAM	Endothelial_Progenitor	0	MRT4	EPHB
Monocyte	Endothelial_Progenitor	0	MRT4	EPHB
T_NK	Endothelial_Progenitor	0	MRT4	EPHB
Fibroblast	Endothelial_Progenitor	0	MRT4	EPHB
Endothelial_Cell	Endothelial_Progenitor	0.006498448928	MRT4	EPHB
Endothelial_Progenitor	Endothelial_Progenitor	0.006498448928	MRT4	EPHB
Adipocyte	Endothelial_Progenitor	0	MRT4	EPHB
Unknown	Endothelial_Progenitor	0	MRT4	EPHB
MRT4	Adipocyte	0	MRT4	EPHB
TAM	Adipocyte	0	MRT4	EPHB
Monocyte	Adipocyte	0	MRT4	EPHB
T_NK	Adipocyte	0	MRT4	EPHB
Fibroblast	Adipocyte	0	MRT4	EPHB

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Adipocyte	0.000454004061	MRT4	EPHB
Endothelial_Progenitor	Adipocyte	0.000454004061	MRT4	EPHB
Adipocyte	Adipocyte	0	MRT4	EPHB
Unknown	Adipocyte	0	MRT4	EPHB
MRT4	Unknown	0	MRT4	EPHB
TAM	Unknown	0	MRT4	EPHB
Monocyte	Unknown	0	MRT4	EPHB
T_NK	Unknown	0	MRT4	EPHB
Fibroblast	Unknown	0	MRT4	EPHB
Endothelial_Cell	Unknown	0	MRT4	EPHB
Endothelial_Progenitor	Unknown	0	MRT4	EPHB
Adipocyte	Unknown	0	MRT4	EPHB
Unknown	Unknown	0	MRT4	EPHB
MRT4	MRT4	0	MRT4	JAM
TAM	MRT4	0	MRT4	JAM
Monocyte	MRT4	0	MRT4	JAM
T_NK	MRT4	0	MRT4	JAM
Fibroblast	MRT4	0	MRT4	JAM
Endothelial_Cell	MRT4	0	MRT4	JAM
Endothelial_Progenitor	MRT4	0.005434072529	MRT4	JAM
Adipocyte	MRT4	0.000454004061	MRT4	JAM
Unknown	MRT4	0	MRT4	JAM
MRT4	TAM	0.001813546173	MRT4	JAM
TAM	TAM	0	MRT4	JAM
Monocyte	TAM	0	MRT4	JAM
T_NK	TAM	0	MRT4	JAM
Fibroblast	TAM	0.001813546173	MRT4	JAM
Endothelial_Cell	TAM	0	MRT4	JAM
Endothelial_Progenitor	TAM	0.005500358651	MRT4	JAM
Adipocyte	TAM	0.001813546173	MRT4	JAM

Source	Target	Probability	Sample	Pathway
Unknown	TAM	0	MRT4	JAM
MRT4	Monocyte	0	MRT4	JAM
TAM	Monocyte	0	MRT4	JAM
Monocyte	Monocyte	0	MRT4	JAM
T_NK	Monocyte	0	MRT4	JAM
Fibroblast	Monocyte	0	MRT4	JAM
Endothelial_Cell	Monocyte	0	MRT4	JAM
Endothelial_Progenitor	Monocyte	0	MRT4	JAM
Adipocyte	Monocyte	0	MRT4	JAM
Unknown	Monocyte	0	MRT4	JAM
MRT4	T_NK	0	MRT4	JAM
TAM	T_NK	0	MRT4	JAM
Monocyte	T_NK	0	MRT4	JAM
T_NK	T_NK	0	MRT4	JAM
Fibroblast	T_NK	0	MRT4	JAM
Endothelial_Cell	T_NK	0	MRT4	JAM
Endothelial_Progenitor	T_NK	0	MRT4	JAM
Adipocyte	T_NK	0	MRT4	JAM
Unknown	T_NK	0	MRT4	JAM
MRT4	Fibroblast	0	MRT4	JAM
TAM	Fibroblast	0	MRT4	JAM
Monocyte	Fibroblast	0	MRT4	JAM
T_NK	Fibroblast	0	MRT4	JAM
Fibroblast	Fibroblast	0	MRT4	JAM
Endothelial_Cell	Fibroblast	0	MRT4	JAM
Endothelial_Progenitor	Fibroblast	0.009028477036	MRT4	JAM
Adipocyte	Fibroblast	0.000454004061	MRT4	JAM
Unknown	Fibroblast	0	MRT4	JAM
MRT4	Endothelial_Cell	0	MRT4	JAM
TAM	Endothelial_Cell	0	MRT4	JAM

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Cell	0	MRT4	JAM
T_NK	Endothelial_Cell	0	MRT4	JAM
Fibroblast	Endothelial_Cell	0	MRT4	JAM
Endothelial_Cell	Endothelial_Cell	0	MRT4	JAM
Endothelial_Progenitor	Endothelial_Cell	0.009520433764	MRT4	JAM
Adipocyte	Endothelial_Cell	0	MRT4	JAM
Unknown	Endothelial_Cell	0	MRT4	JAM
MRT4	Endothelial_Progenitor	0.001813546173	MRT4	JAM
TAM	Endothelial_Progenitor	0	MRT4	JAM
Monocyte	Endothelial_Progenitor	0	MRT4	JAM
T_NK	Endothelial_Progenitor	0	MRT4	JAM
Fibroblast	Endothelial_Progenitor	0.001813546173	MRT4	JAM
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	JAM
Endothelial_Progenitor	Endothelial_Progenitor	0.006687399692	MRT4	JAM
Adipocyte	Endothelial_Progenitor	0.002267550235	MRT4	JAM
Unknown	Endothelial_Progenitor	0	MRT4	JAM
MRT4	Adipocyte	0.000454004061	MRT4	JAM
TAM	Adipocyte	0	MRT4	JAM
Monocyte	Adipocyte	0	MRT4	JAM
T_NK	Adipocyte	0	MRT4	JAM
Fibroblast	Adipocyte	0.000454004061	MRT4	JAM
Endothelial_Cell	Adipocyte	0	MRT4	JAM
Endothelial_Progenitor	Adipocyte	0.003984600117	MRT4	JAM
Adipocyte	Adipocyte	0.001021547799	MRT4	JAM
Unknown	Adipocyte	0	MRT4	JAM
MRT4	Unknown	0	MRT4	JAM
TAM	Unknown	0	MRT4	JAM
Monocyte	Unknown	0	MRT4	JAM
T_NK	Unknown	0	MRT4	JAM
Fibroblast	Unknown	0	MRT4	JAM

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Unknown	0	MRT4	JAM
Endothelial_Progenitor	Unknown	0	MRT4	JAM
Adipocyte	Unknown	0	MRT4	JAM
Unknown	Unknown	0	MRT4	JAM
MRT4	MRT4	0	MRT4	ADIPONECTIN
TAM	MRT4	0	MRT4	ADIPONECTIN
Monocyte	MRT4	0	MRT4	ADIPONECTIN
T_NK	MRT4	0	MRT4	ADIPONECTIN
Fibroblast	MRT4	0	MRT4	ADIPONECTIN
Endothelial_Cell	MRT4	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	MRT4	0	MRT4	ADIPONECTIN
Adipocyte	MRT4	0.006471158565	MRT4	ADIPONECTIN
Unknown	MRT4	0	MRT4	ADIPONECTIN
MRT4	TAM	0	MRT4	ADIPONECTIN
TAM	TAM	0	MRT4	ADIPONECTIN
Monocyte	TAM	0	MRT4	ADIPONECTIN
T_NK	TAM	0	MRT4	ADIPONECTIN
Fibroblast	TAM	0	MRT4	ADIPONECTIN
Endothelial_Cell	TAM	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	TAM	0	MRT4	ADIPONECTIN
Adipocyte	TAM	0	MRT4	ADIPONECTIN
Unknown	TAM	0	MRT4	ADIPONECTIN
MRT4	Monocyte	0	MRT4	ADIPONECTIN
TAM	Monocyte	0	MRT4	ADIPONECTIN
Monocyte	Monocyte	0	MRT4	ADIPONECTIN
T_NK	Monocyte	0	MRT4	ADIPONECTIN
Fibroblast	Monocyte	0	MRT4	ADIPONECTIN
Endothelial_Cell	Monocyte	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	Monocyte	0	MRT4	ADIPONECTIN
Adipocyte	Monocyte	0	MRT4	ADIPONECTIN

Source	Target	Probability	Sample	Pathway
Unknown	Monocyte	0	MRT4	ADIPONECTIN
MRT4	T_NK	0	MRT4	ADIPONECTIN
TAM	T_NK	0	MRT4	ADIPONECTIN
Monocyte	T_NK	0	MRT4	ADIPONECTIN
T_NK	T_NK	0	MRT4	ADIPONECTIN
Fibroblast	T_NK	0	MRT4	ADIPONECTIN
Endothelial_Cell	T_NK	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	T_NK	0	MRT4	ADIPONECTIN
Adipocyte	T_NK	0	MRT4	ADIPONECTIN
Unknown	T_NK	0	MRT4	ADIPONECTIN
MRT4	Fibroblast	0	MRT4	ADIPONECTIN
TAM	Fibroblast	0	MRT4	ADIPONECTIN
Monocyte	Fibroblast	0	MRT4	ADIPONECTIN
T_NK	Fibroblast	0	MRT4	ADIPONECTIN
Fibroblast	Fibroblast	0	MRT4	ADIPONECTIN
Endothelial_Cell	Fibroblast	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	Fibroblast	0	MRT4	ADIPONECTIN
Adipocyte	Fibroblast	0.006471158565	MRT4	ADIPONECTIN
Unknown	Fibroblast	0	MRT4	ADIPONECTIN
MRT4	Endothelial_Cell	0	MRT4	ADIPONECTIN
TAM	Endothelial_Cell	0	MRT4	ADIPONECTIN
Monocyte	Endothelial_Cell	0	MRT4	ADIPONECTIN
T_NK	Endothelial_Cell	0	MRT4	ADIPONECTIN
Fibroblast	Endothelial_Cell	0	MRT4	ADIPONECTIN
Endothelial_Cell	Endothelial_Cell	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ADIPONECTIN
Adipocyte	Endothelial_Cell	0	MRT4	ADIPONECTIN
Unknown	Endothelial_Cell	0	MRT4	ADIPONECTIN
MRT4	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
TAM	Endothelial_Progenitor	0	MRT4	ADIPONECTIN

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
T_NK	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
Fibroblast	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
Adipocyte	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
Unknown	Endothelial_Progenitor	0	MRT4	ADIPONECTIN
MRT4	Adipocyte	0	MRT4	ADIPONECTIN
TAM	Adipocyte	0	MRT4	ADIPONECTIN
Monocyte	Adipocyte	0	MRT4	ADIPONECTIN
T_NK	Adipocyte	0	MRT4	ADIPONECTIN
Fibroblast	Adipocyte	0	MRT4	ADIPONECTIN
Endothelial_Cell	Adipocyte	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	Adipocyte	0	MRT4	ADIPONECTIN
Adipocyte	Adipocyte	0.03003971187	MRT4	ADIPONECTIN
Unknown	Adipocyte	0	MRT4	ADIPONECTIN
MRT4	Unknown	0	MRT4	ADIPONECTIN
TAM	Unknown	0	MRT4	ADIPONECTIN
Monocyte	Unknown	0	MRT4	ADIPONECTIN
T_NK	Unknown	0	MRT4	ADIPONECTIN
Fibroblast	Unknown	0	MRT4	ADIPONECTIN
Endothelial_Cell	Unknown	0	MRT4	ADIPONECTIN
Endothelial_Progenitor	Unknown	0	MRT4	ADIPONECTIN
Adipocyte	Unknown	0.006471158565	MRT4	ADIPONECTIN
Unknown	Unknown	0	MRT4	ADIPONECTIN
MRT4	MRT4	0	MRT4	PERIOSTIN
TAM	MRT4	0	MRT4	PERIOSTIN
Monocyte	MRT4	0	MRT4	PERIOSTIN
T_NK	MRT4	0	MRT4	PERIOSTIN
Fibroblast	MRT4	0	MRT4	PERIOSTIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	MRT4	0	MRT4	PERIOSTIN
Endothelial_Progenitor	MRT4	0	MRT4	PERIOSTIN
Adipocyte	MRT4	0	MRT4	PERIOSTIN
Unknown	MRT4	0	MRT4	PERIOSTIN
MRT4	TAM	0	MRT4	PERIOSTIN
TAM	TAM	0	MRT4	PERIOSTIN
Monocyte	TAM	0	MRT4	PERIOSTIN
T_NK	TAM	0	MRT4	PERIOSTIN
Fibroblast	TAM	0.01934979259	MRT4	PERIOSTIN
Endothelial_Cell	TAM	0	MRT4	PERIOSTIN
Endothelial_Progenitor	TAM	0	MRT4	PERIOSTIN
Adipocyte	TAM	0	MRT4	PERIOSTIN
Unknown	TAM	0	MRT4	PERIOSTIN
MRT4	Monocyte	0	MRT4	PERIOSTIN
TAM	Monocyte	0	MRT4	PERIOSTIN
Monocyte	Monocyte	0	MRT4	PERIOSTIN
T_NK	Monocyte	0	MRT4	PERIOSTIN
Fibroblast	Monocyte	0	MRT4	PERIOSTIN
Endothelial_Cell	Monocyte	0	MRT4	PERIOSTIN
Endothelial_Progenitor	Monocyte	0	MRT4	PERIOSTIN
Adipocyte	Monocyte	0	MRT4	PERIOSTIN
Unknown	Monocyte	0	MRT4	PERIOSTIN
MRT4	T_NK	0	MRT4	PERIOSTIN
TAM	T_NK	0	MRT4	PERIOSTIN
Monocyte	T_NK	0	MRT4	PERIOSTIN
T_NK	T_NK	0	MRT4	PERIOSTIN
Fibroblast	T_NK	0	MRT4	PERIOSTIN
Endothelial_Cell	T_NK	0	MRT4	PERIOSTIN
Endothelial_Progenitor	T_NK	0	MRT4	PERIOSTIN
Adipocyte	T_NK	0	MRT4	PERIOSTIN

Source	Target	Probability	Sample	Pathway
Unknown	T_NK	0	MRT4	PERIOSTIN
MRT4	Fibroblast	0	MRT4	PERIOSTIN
TAM	Fibroblast	0	MRT4	PERIOSTIN
Monocyte	Fibroblast	0	MRT4	PERIOSTIN
T_NK	Fibroblast	0	MRT4	PERIOSTIN
Fibroblast	Fibroblast	0.02395708507	MRT4	PERIOSTIN
Endothelial_Cell	Fibroblast	0	MRT4	PERIOSTIN
Endothelial_Progenitor	Fibroblast	0	MRT4	PERIOSTIN
Adipocyte	Fibroblast	0	MRT4	PERIOSTIN
Unknown	Fibroblast	0	MRT4	PERIOSTIN
MRT4	Endothelial_Cell	0	MRT4	PERIOSTIN
TAM	Endothelial_Cell	0	MRT4	PERIOSTIN
Monocyte	Endothelial_Cell	0	MRT4	PERIOSTIN
T_NK	Endothelial_Cell	0	MRT4	PERIOSTIN
Fibroblast	Endothelial_Cell	0	MRT4	PERIOSTIN
Endothelial_Cell	Endothelial_Cell	0	MRT4	PERIOSTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	PERIOSTIN
Adipocyte	Endothelial_Cell	0	MRT4	PERIOSTIN
Unknown	Endothelial_Cell	0	MRT4	PERIOSTIN
MRT4	Endothelial_Progenitor	0	MRT4	PERIOSTIN
TAM	Endothelial_Progenitor	0	MRT4	PERIOSTIN
Monocyte	Endothelial_Progenitor	0	MRT4	PERIOSTIN
T_NK	Endothelial_Progenitor	0	MRT4	PERIOSTIN
Fibroblast	Endothelial_Progenitor	0	MRT4	PERIOSTIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	PERIOSTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	PERIOSTIN
Adipocyte	Endothelial_Progenitor	0	MRT4	PERIOSTIN
Unknown	Endothelial_Progenitor	0	MRT4	PERIOSTIN
MRT4	Adipocyte	0	MRT4	PERIOSTIN
TAM	Adipocyte	0	MRT4	PERIOSTIN

Source	Target	Probability	Sample	Pathway
Monocyte	Adipocyte	0	MRT4	PERIOSTIN
T_NK	Adipocyte	0	MRT4	PERIOSTIN
Fibroblast	Adipocyte	0.006098854346	MRT4	PERIOSTIN
Endothelial_Cell	Adipocyte	0	MRT4	PERIOSTIN
Endothelial_Progenitor	Adipocyte	0	MRT4	PERIOSTIN
Adipocyte	Adipocyte	0	MRT4	PERIOSTIN
Unknown	Adipocyte	0	MRT4	PERIOSTIN
MRT4	Unknown	0	MRT4	PERIOSTIN
TAM	Unknown	0	MRT4	PERIOSTIN
Monocyte	Unknown	0	MRT4	PERIOSTIN
T_NK	Unknown	0	MRT4	PERIOSTIN
Fibroblast	Unknown	0	MRT4	PERIOSTIN
Endothelial_Cell	Unknown	0	MRT4	PERIOSTIN
Endothelial_Progenitor	Unknown	0	MRT4	PERIOSTIN
Adipocyte	Unknown	0	MRT4	PERIOSTIN
Unknown	Unknown	0	MRT4	PERIOSTIN
MRT4	MRT4	0	MRT4	HSPG
TAM	MRT4	0	MRT4	HSPG
Monocyte	MRT4	0	MRT4	HSPG
T_NK	MRT4	0	MRT4	HSPG
Fibroblast	MRT4	0.006471158565	MRT4	HSPG
Endothelial_Cell	MRT4	0.006471158565	MRT4	HSPG
Endothelial_Progenitor	MRT4	0.01860898573	MRT4	HSPG
Adipocyte	MRT4	0.006471158565	MRT4	HSPG
Unknown	MRT4	0	MRT4	HSPG
MRT4	TAM	0	MRT4	HSPG
TAM	TAM	0	MRT4	HSPG
Monocyte	TAM	0	MRT4	HSPG
T_NK	TAM	0	MRT4	HSPG
Fibroblast	TAM	0	MRT4	HSPG

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	TAM	0	MRT4	HSPG
Endothelial_Progenitor	TAM	0	MRT4	HSPG
Adipocyte	TAM	0	MRT4	HSPG
Unknown	TAM	0	MRT4	HSPG
MRT4	Monocyte	0	MRT4	HSPG
TAM	Monocyte	0	MRT4	HSPG
Monocyte	Monocyte	0	MRT4	HSPG
T_NK	Monocyte	0	MRT4	HSPG
Fibroblast	Monocyte	0	MRT4	HSPG
Endothelial_Cell	Monocyte	0	MRT4	HSPG
Endothelial_Progenitor	Monocyte	0	MRT4	HSPG
Adipocyte	Monocyte	0	MRT4	HSPG
Unknown	Monocyte	0	MRT4	HSPG
MRT4	T_NK	0	MRT4	HSPG
TAM	T_NK	0	MRT4	HSPG
Monocyte	T_NK	0	MRT4	HSPG
T_NK	T_NK	0	MRT4	HSPG
Fibroblast	T_NK	0	MRT4	HSPG
Endothelial_Cell	T_NK	0	MRT4	HSPG
Endothelial_Progenitor	T_NK	0	MRT4	HSPG
Adipocyte	T_NK	0	MRT4	HSPG
Unknown	T_NK	0	MRT4	HSPG
MRT4	Fibroblast	0	MRT4	HSPG
TAM	Fibroblast	0	MRT4	HSPG
Monocyte	Fibroblast	0	MRT4	HSPG
T_NK	Fibroblast	0	MRT4	HSPG
Fibroblast	Fibroblast	0	MRT4	HSPG
Endothelial_Cell	Fibroblast	0	MRT4	HSPG
Endothelial_Progenitor	Fibroblast	0	MRT4	HSPG
Adipocyte	Fibroblast	0	MRT4	HSPG

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0	MRT4	HSPG
MRT4	Endothelial_Cell	0	MRT4	HSPG
TAM	Endothelial_Cell	0	MRT4	HSPG
Monocyte	Endothelial_Cell	0	MRT4	HSPG
T_NK	Endothelial_Cell	0	MRT4	HSPG
Fibroblast	Endothelial_Cell	0	MRT4	HSPG
Endothelial_Cell	Endothelial_Cell	0	MRT4	HSPG
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	HSPG
Adipocyte	Endothelial_Cell	0	MRT4	HSPG
Unknown	Endothelial_Cell	0	MRT4	HSPG
MRT4	Endothelial_Progenitor	0	MRT4	HSPG
TAM	Endothelial_Progenitor	0	MRT4	HSPG
Monocyte	Endothelial_Progenitor	0	MRT4	HSPG
T_NK	Endothelial_Progenitor	0	MRT4	HSPG
Fibroblast	Endothelial_Progenitor	0	MRT4	HSPG
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	HSPG
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	HSPG
Adipocyte	Endothelial_Progenitor	0	MRT4	HSPG
Unknown	Endothelial_Progenitor	0	MRT4	HSPG
MRT4	Adipocyte	0	MRT4	HSPG
TAM	Adipocyte	0	MRT4	HSPG
Monocyte	Adipocyte	0	MRT4	HSPG
T_NK	Adipocyte	0	MRT4	HSPG
Fibroblast	Adipocyte	0	MRT4	HSPG
Endothelial_Cell	Adipocyte	0	MRT4	HSPG
Endothelial_Progenitor	Adipocyte	0	MRT4	HSPG
Adipocyte	Adipocyte	0	MRT4	HSPG
Unknown	Adipocyte	0	MRT4	HSPG
MRT4	Unknown	0	MRT4	HSPG
TAM	Unknown	0	MRT4	HSPG

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT4	HSPG
T_NK	Unknown	0	MRT4	HSPG
Fibroblast	Unknown	0	MRT4	HSPG
Endothelial_Cell	Unknown	0	MRT4	HSPG
Endothelial_Progenitor	Unknown	0	MRT4	HSPG
Adipocyte	Unknown	0	MRT4	HSPG
Unknown	Unknown	0	MRT4	HSPG
MRT4	MRT4	0	MRT4	NECTIN
TAM	MRT4	0	MRT4	NECTIN
Monocyte	MRT4	0	MRT4	NECTIN
T_NK	MRT4	0	MRT4	NECTIN
Fibroblast	MRT4	0	MRT4	NECTIN
Endothelial_Cell	MRT4	0.006471158565	MRT4	NECTIN
Endothelial_Progenitor	MRT4	0	MRT4	NECTIN
Adipocyte	MRT4	0	MRT4	NECTIN
Unknown	MRT4	0	MRT4	NECTIN
MRT4	TAM	0	MRT4	NECTIN
TAM	TAM	0	MRT4	NECTIN
Monocyte	TAM	0	MRT4	NECTIN
T_NK	TAM	0	MRT4	NECTIN
Fibroblast	TAM	0	MRT4	NECTIN
Endothelial_Cell	TAM	0.006471158565	MRT4	NECTIN
Endothelial_Progenitor	TAM	0	MRT4	NECTIN
Adipocyte	TAM	0	MRT4	NECTIN
Unknown	TAM	0	MRT4	NECTIN
MRT4	Monocyte	0	MRT4	NECTIN
TAM	Monocyte	0	MRT4	NECTIN
Monocyte	Monocyte	0	MRT4	NECTIN
T_NK	Monocyte	0	MRT4	NECTIN
Fibroblast	Monocyte	0	MRT4	NECTIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Monocyte	0	MRT4	NECTIN
Endothelial_Progenitor	Monocyte	0	MRT4	NECTIN
Adipocyte	Monocyte	0	MRT4	NECTIN
Unknown	Monocyte	0	MRT4	NECTIN
MRT4	T_NK	0	MRT4	NECTIN
TAM	T_NK	0	MRT4	NECTIN
Monocyte	T_NK	0	MRT4	NECTIN
T_NK	T_NK	0	MRT4	NECTIN
Fibroblast	T_NK	0	MRT4	NECTIN
Endothelial_Cell	T_NK	0	MRT4	NECTIN
Endothelial_Progenitor	T_NK	0	MRT4	NECTIN
Adipocyte	T_NK	0	MRT4	NECTIN
Unknown	T_NK	0	MRT4	NECTIN
MRT4	Fibroblast	0	MRT4	NECTIN
TAM	Fibroblast	0	MRT4	NECTIN
Monocyte	Fibroblast	0	MRT4	NECTIN
T_NK	Fibroblast	0	MRT4	NECTIN
Fibroblast	Fibroblast	0	MRT4	NECTIN
Endothelial_Cell	Fibroblast	0.006471158565	MRT4	NECTIN
Endothelial_Progenitor	Fibroblast	0	MRT4	NECTIN
Adipocyte	Fibroblast	0	MRT4	NECTIN
Unknown	Fibroblast	0	MRT4	NECTIN
MRT4	Endothelial_Cell	0	MRT4	NECTIN
TAM	Endothelial_Cell	0	MRT4	NECTIN
Monocyte	Endothelial_Cell	0	MRT4	NECTIN
T_NK	Endothelial_Cell	0	MRT4	NECTIN
Fibroblast	Endothelial_Cell	0	MRT4	NECTIN
Endothelial_Cell	Endothelial_Cell	0.006471158565	MRT4	NECTIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	NECTIN
Adipocyte	Endothelial_Cell	0	MRT4	NECTIN

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Cell	0	MRT4	NECTIN
MRT4	Endothelial_Progenitor	0	MRT4	NECTIN
TAM	Endothelial_Progenitor	0	MRT4	NECTIN
Monocyte	Endothelial_Progenitor	0	MRT4	NECTIN
T_NK	Endothelial_Progenitor	0	MRT4	NECTIN
Fibroblast	Endothelial_Progenitor	0	MRT4	NECTIN
Endothelial_Cell	Endothelial_Progenitor	0.01021786511	MRT4	NECTIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	NECTIN
Adipocyte	Endothelial_Progenitor	0	MRT4	NECTIN
Unknown	Endothelial_Progenitor	0	MRT4	NECTIN
MRT4	Adipocyte	0	MRT4	NECTIN
TAM	Adipocyte	0	MRT4	NECTIN
Monocyte	Adipocyte	0	MRT4	NECTIN
T_NK	Adipocyte	0	MRT4	NECTIN
Fibroblast	Adipocyte	0	MRT4	NECTIN
Endothelial_Cell	Adipocyte	0	MRT4	NECTIN
Endothelial_Progenitor	Adipocyte	0	MRT4	NECTIN
Adipocyte	Adipocyte	0	MRT4	NECTIN
Unknown	Adipocyte	0	MRT4	NECTIN
MRT4	Unknown	0	MRT4	NECTIN
TAM	Unknown	0	MRT4	NECTIN
Monocyte	Unknown	0	MRT4	NECTIN
T_NK	Unknown	0	MRT4	NECTIN
Fibroblast	Unknown	0	MRT4	NECTIN
Endothelial_Cell	Unknown	0	MRT4	NECTIN
Endothelial_Progenitor	Unknown	0	MRT4	NECTIN
Adipocyte	Unknown	0	MRT4	NECTIN
Unknown	Unknown	0	MRT4	NECTIN
MRT4	MRT4	0	MRT4	NOTCH
TAM	MRT4	0	MRT4	NOTCH

Source	Target	Probability	Sample	Pathway
Monocyte	MRT4	0	MRT4	NOTCH
T_NK	MRT4	0	MRT4	NOTCH
Fibroblast	MRT4	0.005420976139	MRT4	NOTCH
Endothelial_Cell	MRT4	0	MRT4	NOTCH
Endothelial_Progenitor	MRT4	0	MRT4	NOTCH
Adipocyte	MRT4	0.001360776588	MRT4	NOTCH
Unknown	MRT4	0	MRT4	NOTCH
MRT4	TAM	0	MRT4	NOTCH
TAM	TAM	0	MRT4	NOTCH
Monocyte	TAM	0	MRT4	NOTCH
T_NK	TAM	0	MRT4	NOTCH
Fibroblast	TAM	0.001813546173	MRT4	NOTCH
Endothelial_Cell	TAM	0	MRT4	NOTCH
Endothelial_Progenitor	TAM	0	MRT4	NOTCH
Adipocyte	TAM	0.000454004061	MRT4	NOTCH
Unknown	TAM	0	MRT4	NOTCH
MRT4	Monocyte	0	MRT4	NOTCH
TAM	Monocyte	0	MRT4	NOTCH
Monocyte	Monocyte	0	MRT4	NOTCH
T_NK	Monocyte	0	MRT4	NOTCH
Fibroblast	Monocyte	0	MRT4	NOTCH
Endothelial_Cell	Monocyte	0	MRT4	NOTCH
Endothelial_Progenitor	Monocyte	0	MRT4	NOTCH
Adipocyte	Monocyte	0	MRT4	NOTCH
Unknown	Monocyte	0	MRT4	NOTCH
MRT4	T_NK	0	MRT4	NOTCH
TAM	T_NK	0	MRT4	NOTCH
Monocyte	T_NK	0	MRT4	NOTCH
T_NK	T_NK	0	MRT4	NOTCH
Fibroblast	T_NK	0	MRT4	NOTCH

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	T_NK	0	MRT4	NOTCH
Endothelial_Progenitor	T_NK	0	MRT4	NOTCH
Adipocyte	T_NK	0	MRT4	NOTCH
Unknown	T_NK	0	MRT4	NOTCH
MRT4	Fibroblast	0	MRT4	NOTCH
TAM	Fibroblast	0	MRT4	NOTCH
Monocyte	Fibroblast	0	MRT4	NOTCH
T_NK	Fibroblast	0	MRT4	NOTCH
Fibroblast	Fibroblast	0.003627092347	MRT4	NOTCH
Endothelial_Cell	Fibroblast	0	MRT4	NOTCH
Endothelial_Progenitor	Fibroblast	0	MRT4	NOTCH
Adipocyte	Fibroblast	0.000908008122	MRT4	NOTCH
Unknown	Fibroblast	0	MRT4	NOTCH
MRT4	Endothelial_Cell	0	MRT4	NOTCH
TAM	Endothelial_Cell	0	MRT4	NOTCH
Monocyte	Endothelial_Cell	0	MRT4	NOTCH
T_NK	Endothelial_Cell	0	MRT4	NOTCH
Fibroblast	Endothelial_Cell	0.006471158565	MRT4	NOTCH
Endothelial_Cell	Endothelial_Cell	0	MRT4	NOTCH
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	NOTCH
Adipocyte	Endothelial_Cell	0.001625679664	MRT4	NOTCH
Unknown	Endothelial_Cell	0	MRT4	NOTCH
MRT4	Endothelial_Progenitor	0	MRT4	NOTCH
TAM	Endothelial_Progenitor	0	MRT4	NOTCH
Monocyte	Endothelial_Progenitor	0	MRT4	NOTCH
T_NK	Endothelial_Progenitor	0	MRT4	NOTCH
Fibroblast	Endothelial_Progenitor	0.003627092347	MRT4	NOTCH
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	NOTCH
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	NOTCH
Adipocyte	Endothelial_Progenitor	0.000908008122	MRT4	NOTCH

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0	MRT4	NOTCH
MRT4	Adipocyte	0	MRT4	NOTCH
TAM	Adipocyte	0	MRT4	NOTCH
Monocyte	Adipocyte	0	MRT4	NOTCH
T_NK	Adipocyte	0	MRT4	NOTCH
Fibroblast	Adipocyte	0.004674512421	MRT4	NOTCH
Endothelial_Cell	Adipocyte	0	MRT4	NOTCH
Endothelial_Progenitor	Adipocyte	0	MRT4	NOTCH
Adipocyte	Adipocyte	0.001172739595	MRT4	NOTCH
Unknown	Adipocyte	0	MRT4	NOTCH
MRT4	Unknown	0	MRT4	NOTCH
TAM	Unknown	0	MRT4	NOTCH
Monocyte	Unknown	0	MRT4	NOTCH
T_NK	Unknown	0	MRT4	NOTCH
Fibroblast	Unknown	0.002871356581	MRT4	NOTCH
Endothelial_Cell	Unknown	0	MRT4	NOTCH
Endothelial_Progenitor	Unknown	0	MRT4	NOTCH
Adipocyte	Unknown	0.000719388360	MRT4	NOTCH
Unknown	Unknown	0	MRT4	NOTCH
MRT4	MRT4	0	MRT4	CD46
TAM	MRT4	0	MRT4	CD46
Monocyte	MRT4	0	MRT4	CD46
T_NK	MRT4	0	MRT4	CD46
Fibroblast	MRT4	0	MRT4	CD46
Endothelial_Cell	MRT4	0	MRT4	CD46
Endothelial_Progenitor	MRT4	0	MRT4	CD46
Adipocyte	MRT4	0	MRT4	CD46
Unknown	MRT4	0	MRT4	CD46
MRT4	TAM	0	MRT4	CD46
TAM	TAM	0	MRT4	CD46

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT4	CD46
T_NK	TAM	0	MRT4	CD46
Fibroblast	TAM	0	MRT4	CD46
Endothelial_Cell	TAM	0	MRT4	CD46
Endothelial_Progenitor	TAM	0	MRT4	CD46
Adipocyte	TAM	0	MRT4	CD46
Unknown	TAM	0	MRT4	CD46
MRT4	Monocyte	0	MRT4	CD46
TAM	Monocyte	0	MRT4	CD46
Monocyte	Monocyte	0	MRT4	CD46
T_NK	Monocyte	0	MRT4	CD46
Fibroblast	Monocyte	0	MRT4	CD46
Endothelial_Cell	Monocyte	0	MRT4	CD46
Endothelial_Progenitor	Monocyte	0	MRT4	CD46
Adipocyte	Monocyte	0	MRT4	CD46
Unknown	Monocyte	0	MRT4	CD46
MRT4	T_NK	0	MRT4	CD46
TAM	T_NK	0	MRT4	CD46
Monocyte	T_NK	0	MRT4	CD46
T_NK	T_NK	0	MRT4	CD46
Fibroblast	T_NK	0	MRT4	CD46
Endothelial_Cell	T_NK	0	MRT4	CD46
Endothelial_Progenitor	T_NK	0	MRT4	CD46
Adipocyte	T_NK	0	MRT4	CD46
Unknown	T_NK	0	MRT4	CD46
MRT4	Fibroblast	0.001813546173	MRT4	CD46
TAM	Fibroblast	0.001813546173	MRT4	CD46
Monocyte	Fibroblast	0	MRT4	CD46
T_NK	Fibroblast	0	MRT4	CD46
Fibroblast	Fibroblast	0.001813546173	MRT4	CD46

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Fibroblast	0.001813546173	MRT4	CD46
Endothelial_Progenitor	Fibroblast	0.001813546173	MRT4	CD46
Adipocyte	Fibroblast	0.006657206098	MRT4	CD46
Unknown	Fibroblast	0.007214930863	MRT4	CD46
MRT4	Endothelial_Cell	0	MRT4	CD46
TAM	Endothelial_Cell	0	MRT4	CD46
Monocyte	Endothelial_Cell	0	MRT4	CD46
T_NK	Endothelial_Cell	0	MRT4	CD46
Fibroblast	Endothelial_Cell	0	MRT4	CD46
Endothelial_Cell	Endothelial_Cell	0	MRT4	CD46
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CD46
Adipocyte	Endothelial_Cell	0	MRT4	CD46
Unknown	Endothelial_Cell	0	MRT4	CD46
MRT4	Endothelial_Progenitor	0	MRT4	CD46
TAM	Endothelial_Progenitor	0	MRT4	CD46
Monocyte	Endothelial_Progenitor	0	MRT4	CD46
T_NK	Endothelial_Progenitor	0	MRT4	CD46
Fibroblast	Endothelial_Progenitor	0	MRT4	CD46
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CD46
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CD46
Adipocyte	Endothelial_Progenitor	0	MRT4	CD46
Unknown	Endothelial_Progenitor	0	MRT4	CD46
MRT4	Adipocyte	0.000454004061	MRT4	CD46
TAM	Adipocyte	0.000454004061	MRT4	CD46
Monocyte	Adipocyte	0	MRT4	CD46
T_NK	Adipocyte	0	MRT4	CD46
Fibroblast	Adipocyte	0.000454004061	MRT4	CD46
Endothelial_Cell	Adipocyte	0.000454004061	MRT4	CD46
Endothelial_Progenitor	Adipocyte	0.000454004061	MRT4	CD46
Adipocyte	Adipocyte	0.001672652921	MRT4	CD46

Source	Target	Probability	Sample	Pathway
Unknown	Adipocyte	0.001813546173	MRT4	CD46
MRT4	Unknown	0	MRT4	CD46
TAM	Unknown	0	MRT4	CD46
Monocyte	Unknown	0	MRT4	CD46
T_NK	Unknown	0	MRT4	CD46
Fibroblast	Unknown	0	MRT4	CD46
Endothelial_Cell	Unknown	0	MRT4	CD46
Endothelial_Progenitor	Unknown	0	MRT4	CD46
Adipocyte	Unknown	0	MRT4	CD46
Unknown	Unknown	0	MRT4	CD46
MRT4	MRT4	0	MRT4	GAS
TAM	MRT4	0	MRT4	GAS
Monocyte	MRT4	0	MRT4	GAS
T_NK	MRT4	0	MRT4	GAS
Fibroblast	MRT4	0	MRT4	GAS
Endothelial_Cell	MRT4	0	MRT4	GAS
Endothelial_Progenitor	MRT4	0	MRT4	GAS
Adipocyte	MRT4	0	MRT4	GAS
Unknown	MRT4	0	MRT4	GAS
MRT4	TAM	0	MRT4	GAS
TAM	TAM	0.009879250982	MRT4	GAS
Monocyte	TAM	0	MRT4	GAS
T_NK	TAM	0	MRT4	GAS
Fibroblast	TAM	0	MRT4	GAS
Endothelial_Cell	TAM	0.009879250982	MRT4	GAS
Endothelial_Progenitor	TAM	0	MRT4	GAS
Adipocyte	TAM	0	MRT4	GAS
Unknown	TAM	0	MRT4	GAS
MRT4	Monocyte	0	MRT4	GAS
TAM	Monocyte	0	MRT4	GAS

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT4	GAS
T_NK	Monocyte	0	MRT4	GAS
Fibroblast	Monocyte	0	MRT4	GAS
Endothelial_Cell	Monocyte	0	MRT4	GAS
Endothelial_Progenitor	Monocyte	0	MRT4	GAS
Adipocyte	Monocyte	0	MRT4	GAS
Unknown	Monocyte	0	MRT4	GAS
MRT4	T_NK	0	MRT4	GAS
TAM	T_NK	0	MRT4	GAS
Monocyte	T_NK	0	MRT4	GAS
T_NK	T_NK	0	MRT4	GAS
Fibroblast	T_NK	0	MRT4	GAS
Endothelial_Cell	T_NK	0	MRT4	GAS
Endothelial_Progenitor	T_NK	0	MRT4	GAS
Adipocyte	T_NK	0	MRT4	GAS
Unknown	T_NK	0	MRT4	GAS
MRT4	Fibroblast	0	MRT4	GAS
TAM	Fibroblast	0.001813546173	MRT4	GAS
Monocyte	Fibroblast	0	MRT4	GAS
T_NK	Fibroblast	0	MRT4	GAS
Fibroblast	Fibroblast	0	MRT4	GAS
Endothelial_Cell	Fibroblast	0.001813546173	MRT4	GAS
Endothelial_Progenitor	Fibroblast	0	MRT4	GAS
Adipocyte	Fibroblast	0	MRT4	GAS
Unknown	Fibroblast	0	MRT4	GAS
MRT4	Endothelial_Cell	0	MRT4	GAS
TAM	Endothelial_Cell	0.001813546173	MRT4	GAS
Monocyte	Endothelial_Cell	0	MRT4	GAS
T_NK	Endothelial_Cell	0	MRT4	GAS
Fibroblast	Endothelial_Cell	0	MRT4	GAS

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Cell	0.001813546173	MRT4	GAS
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	GAS
Adipocyte	Endothelial_Cell	0	MRT4	GAS
Unknown	Endothelial_Cell	0	MRT4	GAS
MRT4	Endothelial_Progenitor	0	MRT4	GAS
TAM	Endothelial_Progenitor	0	MRT4	GAS
Monocyte	Endothelial_Progenitor	0	MRT4	GAS
T_NK	Endothelial_Progenitor	0	MRT4	GAS
Fibroblast	Endothelial_Progenitor	0	MRT4	GAS
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	GAS
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	GAS
Adipocyte	Endothelial_Progenitor	0	MRT4	GAS
Unknown	Endothelial_Progenitor	0	MRT4	GAS
MRT4	Adipocyte	0	MRT4	GAS
TAM	Adipocyte	0	MRT4	GAS
Monocyte	Adipocyte	0	MRT4	GAS
T_NK	Adipocyte	0	MRT4	GAS
Fibroblast	Adipocyte	0	MRT4	GAS
Endothelial_Cell	Adipocyte	0	MRT4	GAS
Endothelial_Progenitor	Adipocyte	0	MRT4	GAS
Adipocyte	Adipocyte	0	MRT4	GAS
Unknown	Adipocyte	0	MRT4	GAS
MRT4	Unknown	0	MRT4	GAS
TAM	Unknown	0	MRT4	GAS
Monocyte	Unknown	0	MRT4	GAS
T_NK	Unknown	0	MRT4	GAS
Fibroblast	Unknown	0	MRT4	GAS
Endothelial_Cell	Unknown	0	MRT4	GAS
Endothelial_Progenitor	Unknown	0	MRT4	GAS
Adipocyte	Unknown	0	MRT4	GAS

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT4	GAS
MRT4	MRT4	0	MRT4	GRN
TAM	MRT4	0	MRT4	GRN
Monocyte	MRT4	0	MRT4	GRN
T_NK	MRT4	0	MRT4	GRN
Fibroblast	MRT4	0	MRT4	GRN
Endothelial_Cell	MRT4	0	MRT4	GRN
Endothelial_Progenitor	MRT4	0	MRT4	GRN
Adipocyte	MRT4	0	MRT4	GRN
Unknown	MRT4	0	MRT4	GRN
MRT4	TAM	0	MRT4	GRN
TAM	TAM	0	MRT4	GRN
Monocyte	TAM	0	MRT4	GRN
T_NK	TAM	0	MRT4	GRN
Fibroblast	TAM	0	MRT4	GRN
Endothelial_Cell	TAM	0	MRT4	GRN
Endothelial_Progenitor	TAM	0	MRT4	GRN
Adipocyte	TAM	0	MRT4	GRN
Unknown	TAM	0	MRT4	GRN
MRT4	Monocyte	0	MRT4	GRN
TAM	Monocyte	0	MRT4	GRN
Monocyte	Monocyte	0	MRT4	GRN
T_NK	Monocyte	0	MRT4	GRN
Fibroblast	Monocyte	0	MRT4	GRN
Endothelial_Cell	Monocyte	0	MRT4	GRN
Endothelial_Progenitor	Monocyte	0	MRT4	GRN
Adipocyte	Monocyte	0	MRT4	GRN
Unknown	Monocyte	0	MRT4	GRN
MRT4	T_NK	0	MRT4	GRN
TAM	T_NK	0	MRT4	GRN

Source	Target	Probability	Sample	Pathway
Monocyte	T_NK	0	MRT4	GRN
T_NK	T_NK	0	MRT4	GRN
Fibroblast	T_NK	0	MRT4	GRN
Endothelial_Cell	T_NK	0	MRT4	GRN
Endothelial_Progenitor	T_NK	0	MRT4	GRN
Adipocyte	T_NK	0	MRT4	GRN
Unknown	T_NK	0	MRT4	GRN
MRT4	Fibroblast	0	MRT4	GRN
TAM	Fibroblast	0	MRT4	GRN
Monocyte	Fibroblast	0	MRT4	GRN
T_NK	Fibroblast	0	MRT4	GRN
Fibroblast	Fibroblast	0	MRT4	GRN
Endothelial_Cell	Fibroblast	0	MRT4	GRN
Endothelial_Progenitor	Fibroblast	0	MRT4	GRN
Adipocyte	Fibroblast	0	MRT4	GRN
Unknown	Fibroblast	0	MRT4	GRN
MRT4	Endothelial_Cell	0	MRT4	GRN
TAM	Endothelial_Cell	0	MRT4	GRN
Monocyte	Endothelial_Cell	0	MRT4	GRN
T_NK	Endothelial_Cell	0	MRT4	GRN
Fibroblast	Endothelial_Cell	0	MRT4	GRN
Endothelial_Cell	Endothelial_Cell	0	MRT4	GRN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	GRN
Adipocyte	Endothelial_Cell	0	MRT4	GRN
Unknown	Endothelial_Cell	0	MRT4	GRN
MRT4	Endothelial_Progenitor	0	MRT4	GRN
TAM	Endothelial_Progenitor	0	MRT4	GRN
Monocyte	Endothelial_Progenitor	0	MRT4	GRN
T_NK	Endothelial_Progenitor	0	MRT4	GRN
Fibroblast	Endothelial_Progenitor	0	MRT4	GRN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	GRN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	GRN
Adipocyte	Endothelial_Progenitor	0	MRT4	GRN
Unknown	Endothelial_Progenitor	0	MRT4	GRN
MRT4	Adipocyte	0.006471158565	MRT4	GRN
TAM	Adipocyte	0.01655787565	MRT4	GRN
Monocyte	Adipocyte	0	MRT4	GRN
T_NK	Adipocyte	0	MRT4	GRN
Fibroblast	Adipocyte	0	MRT4	GRN
Endothelial_Cell	Adipocyte	0	MRT4	GRN
Endothelial_Progenitor	Adipocyte	0	MRT4	GRN
Adipocyte	Adipocyte	0	MRT4	GRN
Unknown	Adipocyte	0	MRT4	GRN
MRT4	Unknown	0	MRT4	GRN
TAM	Unknown	0	MRT4	GRN
Monocyte	Unknown	0	MRT4	GRN
T_NK	Unknown	0	MRT4	GRN
Fibroblast	Unknown	0	MRT4	GRN
Endothelial_Cell	Unknown	0	MRT4	GRN
Endothelial_Progenitor	Unknown	0	MRT4	GRN
Adipocyte	Unknown	0	MRT4	GRN
Unknown	Unknown	0	MRT4	GRN
MRT4	MRT4	0	MRT4	MHC-II
TAM	MRT4	0	MRT4	MHC-II
Monocyte	MRT4	0	MRT4	MHC-II
T_NK	MRT4	0	MRT4	MHC-II
Fibroblast	MRT4	0	MRT4	MHC-II
Endothelial_Cell	MRT4	0	MRT4	MHC-II
Endothelial_Progenitor	MRT4	0	MRT4	MHC-II
Adipocyte	MRT4	0	MRT4	MHC-II

Source	Target	Probability	Sample	Pathway
Unknown	MRT4	0	MRT4	MHC-II
MRT4	TAM	0	MRT4	MHC-II
TAM	TAM	0.02038441418	MRT4	MHC-II
Monocyte	TAM	0	MRT4	MHC-II
T_NK	TAM	0	MRT4	MHC-II
Fibroblast	TAM	0	MRT4	MHC-II
Endothelial_Cell	TAM	0	MRT4	MHC-II
Endothelial_Progenitor	TAM	0	MRT4	MHC-II
Adipocyte	TAM	0	MRT4	MHC-II
Unknown	TAM	0	MRT4	MHC-II
MRT4	Monocyte	0	MRT4	MHC-II
TAM	Monocyte	0	MRT4	MHC-II
Monocyte	Monocyte	0	MRT4	MHC-II
T_NK	Monocyte	0	MRT4	MHC-II
Fibroblast	Monocyte	0	MRT4	MHC-II
Endothelial_Cell	Monocyte	0	MRT4	MHC-II
Endothelial_Progenitor	Monocyte	0	MRT4	MHC-II
Adipocyte	Monocyte	0	MRT4	MHC-II
Unknown	Monocyte	0	MRT4	MHC-II
MRT4	T_NK	0	MRT4	MHC-II
TAM	T_NK	0	MRT4	MHC-II
Monocyte	T_NK	0	MRT4	MHC-II
T_NK	T_NK	0	MRT4	MHC-II
Fibroblast	T_NK	0	MRT4	MHC-II
Endothelial_Cell	T_NK	0	MRT4	MHC-II
Endothelial_Progenitor	T_NK	0	MRT4	MHC-II
Adipocyte	T_NK	0	MRT4	MHC-II
Unknown	T_NK	0	MRT4	MHC-II
MRT4	Fibroblast	0	MRT4	MHC-II
TAM	Fibroblast	0	MRT4	MHC-II

Source	Target	Probability	Sample	Pathway
Monocyte	Fibroblast	0	MRT4	MHC-II
T_NK	Fibroblast	0	MRT4	MHC-II
Fibroblast	Fibroblast	0	MRT4	MHC-II
Endothelial_Cell	Fibroblast	0	MRT4	MHC-II
Endothelial_Progenitor	Fibroblast	0	MRT4	MHC-II
Adipocyte	Fibroblast	0	MRT4	MHC-II
Unknown	Fibroblast	0	MRT4	MHC-II
MRT4	Endothelial_Cell	0	MRT4	MHC-II
TAM	Endothelial_Cell	0	MRT4	MHC-II
Monocyte	Endothelial_Cell	0	MRT4	MHC-II
T_NK	Endothelial_Cell	0	MRT4	MHC-II
Fibroblast	Endothelial_Cell	0	MRT4	MHC-II
Endothelial_Cell	Endothelial_Cell	0	MRT4	MHC-II
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	MHC-II
Adipocyte	Endothelial_Cell	0	MRT4	MHC-II
Unknown	Endothelial_Cell	0	MRT4	MHC-II
MRT4	Endothelial_Progenitor	0	MRT4	MHC-II
TAM	Endothelial_Progenitor	0	MRT4	MHC-II
Monocyte	Endothelial_Progenitor	0	MRT4	MHC-II
T_NK	Endothelial_Progenitor	0	MRT4	MHC-II
Fibroblast	Endothelial_Progenitor	0	MRT4	MHC-II
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	MHC-II
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	MHC-II
Adipocyte	Endothelial_Progenitor	0	MRT4	MHC-II
Unknown	Endothelial_Progenitor	0	MRT4	MHC-II
MRT4	Adipocyte	0	MRT4	MHC-II
TAM	Adipocyte	0	MRT4	MHC-II
Monocyte	Adipocyte	0	MRT4	MHC-II
T_NK	Adipocyte	0	MRT4	MHC-II
Fibroblast	Adipocyte	0	MRT4	MHC-II

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Adipocyte	0	MRT4	MHC-II
Endothelial_Progenitor	Adipocyte	0	MRT4	MHC-II
Adipocyte	Adipocyte	0	MRT4	MHC-II
Unknown	Adipocyte	0	MRT4	MHC-II
MRT4	Unknown	0	MRT4	MHC-II
TAM	Unknown	0	MRT4	MHC-II
Monocyte	Unknown	0	MRT4	MHC-II
T_NK	Unknown	0	MRT4	MHC-II
Fibroblast	Unknown	0	MRT4	MHC-II
Endothelial_Cell	Unknown	0	MRT4	MHC-II
Endothelial_Progenitor	Unknown	0	MRT4	MHC-II
Adipocyte	Unknown	0	MRT4	MHC-II
Unknown	Unknown	0	MRT4	MHC-II
MRT4	MRT4	0	MRT4	EGF
TAM	MRT4	0	MRT4	EGF
Monocyte	MRT4	0	MRT4	EGF
T_NK	MRT4	0	MRT4	EGF
Fibroblast	MRT4	0	MRT4	EGF
Endothelial_Cell	MRT4	0	MRT4	EGF
Endothelial_Progenitor	MRT4	0	MRT4	EGF
Adipocyte	MRT4	0	MRT4	EGF
Unknown	MRT4	0.001813546173	MRT4	EGF
MRT4	TAM	0	MRT4	EGF
TAM	TAM	0	MRT4	EGF
Monocyte	TAM	0	MRT4	EGF
T_NK	TAM	0	MRT4	EGF
Fibroblast	TAM	0	MRT4	EGF
Endothelial_Cell	TAM	0	MRT4	EGF
Endothelial_Progenitor	TAM	0	MRT4	EGF
Adipocyte	TAM	0	MRT4	EGF

Source	Target	Probability	Sample	Pathway
Unknown	TAM	0	MRT4	EGF
MRT4	Monocyte	0	MRT4	EGF
TAM	Monocyte	0	MRT4	EGF
Monocyte	Monocyte	0	MRT4	EGF
T_NK	Monocyte	0	MRT4	EGF
Fibroblast	Monocyte	0	MRT4	EGF
Endothelial_Cell	Monocyte	0	MRT4	EGF
Endothelial_Progenitor	Monocyte	0	MRT4	EGF
Adipocyte	Monocyte	0	MRT4	EGF
Unknown	Monocyte	0	MRT4	EGF
MRT4	T_NK	0	MRT4	EGF
TAM	T_NK	0	MRT4	EGF
Monocyte	T_NK	0	MRT4	EGF
T_NK	T_NK	0	MRT4	EGF
Fibroblast	T_NK	0	MRT4	EGF
Endothelial_Cell	T_NK	0	MRT4	EGF
Endothelial_Progenitor	T_NK	0	MRT4	EGF
Adipocyte	T_NK	0	MRT4	EGF
Unknown	T_NK	0	MRT4	EGF
MRT4	Fibroblast	0	MRT4	EGF
TAM	Fibroblast	0	MRT4	EGF
Monocyte	Fibroblast	0	MRT4	EGF
T_NK	Fibroblast	0	MRT4	EGF
Fibroblast	Fibroblast	0	MRT4	EGF
Endothelial_Cell	Fibroblast	0	MRT4	EGF
Endothelial_Progenitor	Fibroblast	0	MRT4	EGF
Adipocyte	Fibroblast	0	MRT4	EGF
Unknown	Fibroblast	0.006471158565	MRT4	EGF
MRT4	Endothelial_Cell	0	MRT4	EGF
TAM	Endothelial_Cell	0	MRT4	EGF

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Cell	0	MRT4	EGF
T_NK	Endothelial_Cell	0	MRT4	EGF
Fibroblast	Endothelial_Cell	0	MRT4	EGF
Endothelial_Cell	Endothelial_Cell	0	MRT4	EGF
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	EGF
Adipocyte	Endothelial_Cell	0	MRT4	EGF
Unknown	Endothelial_Cell	0	MRT4	EGF
MRT4	Endothelial_Progenitor	0	MRT4	EGF
TAM	Endothelial_Progenitor	0	MRT4	EGF
Monocyte	Endothelial_Progenitor	0	MRT4	EGF
T_NK	Endothelial_Progenitor	0	MRT4	EGF
Fibroblast	Endothelial_Progenitor	0	MRT4	EGF
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	EGF
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	EGF
Adipocyte	Endothelial_Progenitor	0	MRT4	EGF
Unknown	Endothelial_Progenitor	0	MRT4	EGF
MRT4	Adipocyte	0	MRT4	EGF
TAM	Adipocyte	0	MRT4	EGF
Monocyte	Adipocyte	0	MRT4	EGF
T_NK	Adipocyte	0	MRT4	EGF
Fibroblast	Adipocyte	0	MRT4	EGF
Endothelial_Cell	Adipocyte	0	MRT4	EGF
Endothelial_Progenitor	Adipocyte	0	MRT4	EGF
Adipocyte	Adipocyte	0	MRT4	EGF
Unknown	Adipocyte	0.002871356581	MRT4	EGF
MRT4	Unknown	0	MRT4	EGF
TAM	Unknown	0	MRT4	EGF
Monocyte	Unknown	0	MRT4	EGF
T_NK	Unknown	0	MRT4	EGF
Fibroblast	Unknown	0	MRT4	EGF

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Unknown	0	MRT4	EGF
Endothelial_Progenitor	Unknown	0	MRT4	EGF
Adipocyte	Unknown	0	MRT4	EGF
Unknown	Unknown	0.006471158565	MRT4	EGF
MRT4	MRT4	0	MRT4	NEGR
TAM	MRT4	0	MRT4	NEGR
Monocyte	MRT4	0	MRT4	NEGR
T_NK	MRT4	0	MRT4	NEGR
Fibroblast	MRT4	0	MRT4	NEGR
Endothelial_Cell	MRT4	0	MRT4	NEGR
Endothelial_Progenitor	MRT4	0	MRT4	NEGR
Adipocyte	MRT4	0	MRT4	NEGR
Unknown	MRT4	0	MRT4	NEGR
MRT4	TAM	0	MRT4	NEGR
TAM	TAM	0	MRT4	NEGR
Monocyte	TAM	0	MRT4	NEGR
T_NK	TAM	0	MRT4	NEGR
Fibroblast	TAM	0	MRT4	NEGR
Endothelial_Cell	TAM	0	MRT4	NEGR
Endothelial_Progenitor	TAM	0	MRT4	NEGR
Adipocyte	TAM	0	MRT4	NEGR
Unknown	TAM	0	MRT4	NEGR
MRT4	Monocyte	0	MRT4	NEGR
TAM	Monocyte	0	MRT4	NEGR
Monocyte	Monocyte	0	MRT4	NEGR
T_NK	Monocyte	0	MRT4	NEGR
Fibroblast	Monocyte	0	MRT4	NEGR
Endothelial_Cell	Monocyte	0	MRT4	NEGR
Endothelial_Progenitor	Monocyte	0	MRT4	NEGR
Adipocyte	Monocyte	0	MRT4	NEGR

Source	Target	Probability	Sample	Pathway
Unknown	Monocyte	0	MRT4	NEGR
MRT4	T_NK	0	MRT4	NEGR
TAM	T_NK	0	MRT4	NEGR
Monocyte	T_NK	0	MRT4	NEGR
T_NK	T_NK	0	MRT4	NEGR
Fibroblast	T_NK	0	MRT4	NEGR
Endothelial_Cell	T_NK	0	MRT4	NEGR
Endothelial_Progenitor	T_NK	0	MRT4	NEGR
Adipocyte	T_NK	0	MRT4	NEGR
Unknown	T_NK	0	MRT4	NEGR
MRT4	Fibroblast	0	MRT4	NEGR
TAM	Fibroblast	0	MRT4	NEGR
Monocyte	Fibroblast	0	MRT4	NEGR
T_NK	Fibroblast	0	MRT4	NEGR
Fibroblast	Fibroblast	0.007214930863	MRT4	NEGR
Endothelial_Cell	Fibroblast	0.003620526355	MRT4	NEGR
Endothelial_Progenitor	Fibroblast	0	MRT4	NEGR
Adipocyte	Fibroblast	0	MRT4	NEGR
Unknown	Fibroblast	0	MRT4	NEGR
MRT4	Endothelial_Cell	0	MRT4	NEGR
TAM	Endothelial_Cell	0	MRT4	NEGR
Monocyte	Endothelial_Cell	0	MRT4	NEGR
T_NK	Endothelial_Cell	0	MRT4	NEGR
Fibroblast	Endothelial_Cell	0.003620526355	MRT4	NEGR
Endothelial_Cell	Endothelial_Cell	0.001813546173	MRT4	NEGR
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	NEGR
Adipocyte	Endothelial_Cell	0	MRT4	NEGR
Unknown	Endothelial_Cell	0	MRT4	NEGR
MRT4	Endothelial_Progenitor	0	MRT4	NEGR
TAM	Endothelial_Progenitor	0	MRT4	NEGR

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Progenitor	0	MRT4	NEGR
T_NK	Endothelial_Progenitor	0	MRT4	NEGR
Fibroblast	Endothelial_Progenitor	0	MRT4	NEGR
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	NEGR
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	NEGR
Adipocyte	Endothelial_Progenitor	0	MRT4	NEGR
Unknown	Endothelial_Progenitor	0	MRT4	NEGR
MRT4	Adipocyte	0	MRT4	NEGR
TAM	Adipocyte	0	MRT4	NEGR
Monocyte	Adipocyte	0	MRT4	NEGR
T_NK	Adipocyte	0	MRT4	NEGR
Fibroblast	Adipocyte	0	MRT4	NEGR
Endothelial_Cell	Adipocyte	0	MRT4	NEGR
Endothelial_Progenitor	Adipocyte	0	MRT4	NEGR
Adipocyte	Adipocyte	0	MRT4	NEGR
Unknown	Adipocyte	0	MRT4	NEGR
MRT4	Unknown	0	MRT4	NEGR
TAM	Unknown	0	MRT4	NEGR
Monocyte	Unknown	0	MRT4	NEGR
T_NK	Unknown	0	MRT4	NEGR
Fibroblast	Unknown	0	MRT4	NEGR
Endothelial_Cell	Unknown	0	MRT4	NEGR
Endothelial_Progenitor	Unknown	0	MRT4	NEGR
Adipocyte	Unknown	0	MRT4	NEGR
Unknown	Unknown	0	MRT4	NEGR
MRT4	MRT4	0	MRT4	ANGPT
TAM	MRT4	0	MRT4	ANGPT
Monocyte	MRT4	0	MRT4	ANGPT
T_NK	MRT4	0	MRT4	ANGPT
Fibroblast	MRT4	0	MRT4	ANGPT

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	MRT4	0	MRT4	ANGPT
Endothelial_Progenitor	MRT4	0	MRT4	ANGPT
Adipocyte	MRT4	0	MRT4	ANGPT
Unknown	MRT4	0	MRT4	ANGPT
MRT4	TAM	0	MRT4	ANGPT
TAM	TAM	0	MRT4	ANGPT
Monocyte	TAM	0	MRT4	ANGPT
T_NK	TAM	0	MRT4	ANGPT
Fibroblast	TAM	0	MRT4	ANGPT
Endothelial_Cell	TAM	0	MRT4	ANGPT
Endothelial_Progenitor	TAM	0	MRT4	ANGPT
Adipocyte	TAM	0	MRT4	ANGPT
Unknown	TAM	0	MRT4	ANGPT
MRT4	Monocyte	0	MRT4	ANGPT
TAM	Monocyte	0	MRT4	ANGPT
Monocyte	Monocyte	0	MRT4	ANGPT
T_NK	Monocyte	0	MRT4	ANGPT
Fibroblast	Monocyte	0	MRT4	ANGPT
Endothelial_Cell	Monocyte	0	MRT4	ANGPT
Endothelial_Progenitor	Monocyte	0	MRT4	ANGPT
Adipocyte	Monocyte	0	MRT4	ANGPT
Unknown	Monocyte	0	MRT4	ANGPT
MRT4	T_NK	0	MRT4	ANGPT
TAM	T_NK	0	MRT4	ANGPT
Monocyte	T_NK	0	MRT4	ANGPT
T_NK	T_NK	0	MRT4	ANGPT
Fibroblast	T_NK	0	MRT4	ANGPT
Endothelial_Cell	T_NK	0	MRT4	ANGPT
Endothelial_Progenitor	T_NK	0	MRT4	ANGPT
Adipocyte	T_NK	0	MRT4	ANGPT

Source	Target	Probability	Sample	Pathway
Unknown	T_NK	0	MRT4	ANGPT
MRT4	Fibroblast	0	MRT4	ANGPT
TAM	Fibroblast	0	MRT4	ANGPT
Monocyte	Fibroblast	0	MRT4	ANGPT
T_NK	Fibroblast	0	MRT4	ANGPT
Fibroblast	Fibroblast	0	MRT4	ANGPT
Endothelial_Cell	Fibroblast	0	MRT4	ANGPT
Endothelial_Progenitor	Fibroblast	0	MRT4	ANGPT
Adipocyte	Fibroblast	0	MRT4	ANGPT
Unknown	Fibroblast	0	MRT4	ANGPT
MRT4	Endothelial_Cell	0	MRT4	ANGPT
TAM	Endothelial_Cell	0	MRT4	ANGPT
Monocyte	Endothelial_Cell	0	MRT4	ANGPT
T_NK	Endothelial_Cell	0	MRT4	ANGPT
Fibroblast	Endothelial_Cell	0	MRT4	ANGPT
Endothelial_Cell	Endothelial_Cell	0.004855526631	MRT4	ANGPT
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ANGPT
Adipocyte	Endothelial_Cell	0	MRT4	ANGPT
Unknown	Endothelial_Cell	0	MRT4	ANGPT
MRT4	Endothelial_Progenitor	0	MRT4	ANGPT
TAM	Endothelial_Progenitor	0	MRT4	ANGPT
Monocyte	Endothelial_Progenitor	0	MRT4	ANGPT
T_NK	Endothelial_Progenitor	0	MRT4	ANGPT
Fibroblast	Endothelial_Progenitor	0	MRT4	ANGPT
Endothelial_Cell	Endothelial_Progenitor	0.01026894718	MRT4	ANGPT
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ANGPT
Adipocyte	Endothelial_Progenitor	0	MRT4	ANGPT
Unknown	Endothelial_Progenitor	0	MRT4	ANGPT
MRT4	Adipocyte	0	MRT4	ANGPT
TAM	Adipocyte	0	MRT4	ANGPT

Source	Target	Probability	Sample	Pathway
Monocyte	Adipocyte	0	MRT4	ANGPT
T_NK	Adipocyte	0	MRT4	ANGPT
Fibroblast	Adipocyte	0	MRT4	ANGPT
Endothelial_Cell	Adipocyte	0	MRT4	ANGPT
Endothelial_Progenitor	Adipocyte	0	MRT4	ANGPT
Adipocyte	Adipocyte	0	MRT4	ANGPT
Unknown	Adipocyte	0	MRT4	ANGPT
MRT4	Unknown	0	MRT4	ANGPT
TAM	Unknown	0	MRT4	ANGPT
Monocyte	Unknown	0	MRT4	ANGPT
T_NK	Unknown	0	MRT4	ANGPT
Fibroblast	Unknown	0	MRT4	ANGPT
Endothelial_Cell	Unknown	0	MRT4	ANGPT
Endothelial_Progenitor	Unknown	0	MRT4	ANGPT
Adipocyte	Unknown	0	MRT4	ANGPT
Unknown	Unknown	0	MRT4	ANGPT
MRT4	MRT4	0	MRT4	CDH5
TAM	MRT4	0	MRT4	CDH5
Monocyte	MRT4	0	MRT4	CDH5
T_NK	MRT4	0	MRT4	CDH5
Fibroblast	MRT4	0	MRT4	CDH5
Endothelial_Cell	MRT4	0	MRT4	CDH5
Endothelial_Progenitor	MRT4	0	MRT4	CDH5
Adipocyte	MRT4	0	MRT4	CDH5
Unknown	MRT4	0	MRT4	CDH5
MRT4	TAM	0	MRT4	CDH5
TAM	TAM	0	MRT4	CDH5
Monocyte	TAM	0	MRT4	CDH5
T_NK	TAM	0	MRT4	CDH5
Fibroblast	TAM	0	MRT4	CDH5

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	TAM	0	MRT4	CDH5
Endothelial_Progenitor	TAM	0	MRT4	CDH5
Adipocyte	TAM	0	MRT4	CDH5
Unknown	TAM	0	MRT4	CDH5
MRT4	Monocyte	0	MRT4	CDH5
TAM	Monocyte	0	MRT4	CDH5
Monocyte	Monocyte	0	MRT4	CDH5
T_NK	Monocyte	0	MRT4	CDH5
Fibroblast	Monocyte	0	MRT4	CDH5
Endothelial_Cell	Monocyte	0	MRT4	CDH5
Endothelial_Progenitor	Monocyte	0	MRT4	CDH5
Adipocyte	Monocyte	0	MRT4	CDH5
Unknown	Monocyte	0	MRT4	CDH5
MRT4	T_NK	0	MRT4	CDH5
TAM	T_NK	0	MRT4	CDH5
Monocyte	T_NK	0	MRT4	CDH5
T_NK	T_NK	0	MRT4	CDH5
Fibroblast	T_NK	0	MRT4	CDH5
Endothelial_Cell	T_NK	0	MRT4	CDH5
Endothelial_Progenitor	T_NK	0	MRT4	CDH5
Adipocyte	T_NK	0	MRT4	CDH5
Unknown	T_NK	0	MRT4	CDH5
MRT4	Fibroblast	0	MRT4	CDH5
TAM	Fibroblast	0	MRT4	CDH5
Monocyte	Fibroblast	0	MRT4	CDH5
T_NK	Fibroblast	0	MRT4	CDH5
Fibroblast	Fibroblast	0	MRT4	CDH5
Endothelial_Cell	Fibroblast	0	MRT4	CDH5
Endothelial_Progenitor	Fibroblast	0	MRT4	CDH5
Adipocyte	Fibroblast	0	MRT4	CDH5

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0	MRT4	CDH5
MRT4	Endothelial_Cell	0	MRT4	CDH5
TAM	Endothelial_Cell	0	MRT4	CDH5
Monocyte	Endothelial_Cell	0	MRT4	CDH5
T_NK	Endothelial_Cell	0	MRT4	CDH5
Fibroblast	Endothelial_Cell	0	MRT4	CDH5
Endothelial_Cell	Endothelial_Cell	0.001813546173	MRT4	CDH5
Endothelial_Progenitor	Endothelial_Cell	0.002871356581	MRT4	CDH5
Adipocyte	Endothelial_Cell	0	MRT4	CDH5
Unknown	Endothelial_Cell	0	MRT4	CDH5
MRT4	Endothelial_Progenitor	0	MRT4	CDH5
TAM	Endothelial_Progenitor	0	MRT4	CDH5
Monocyte	Endothelial_Progenitor	0	MRT4	CDH5
T_NK	Endothelial_Progenitor	0	MRT4	CDH5
Fibroblast	Endothelial_Progenitor	0	MRT4	CDH5
Endothelial_Cell	Endothelial_Progenitor	0.002871356581	MRT4	CDH5
Endothelial_Progenitor	Endothelial_Progenitor	0.004543361314	MRT4	CDH5
Adipocyte	Endothelial_Progenitor	0	MRT4	CDH5
Unknown	Endothelial_Progenitor	0	MRT4	CDH5
MRT4	Adipocyte	0	MRT4	CDH5
TAM	Adipocyte	0	MRT4	CDH5
Monocyte	Adipocyte	0	MRT4	CDH5
T_NK	Adipocyte	0	MRT4	CDH5
Fibroblast	Adipocyte	0	MRT4	CDH5
Endothelial_Cell	Adipocyte	0	MRT4	CDH5
Endothelial_Progenitor	Adipocyte	0	MRT4	CDH5
Adipocyte	Adipocyte	0	MRT4	CDH5
Unknown	Adipocyte	0	MRT4	CDH5
MRT4	Unknown	0	MRT4	CDH5
TAM	Unknown	0	MRT4	CDH5

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT4	CDH5
T_NK	Unknown	0	MRT4	CDH5
Fibroblast	Unknown	0	MRT4	CDH5
Endothelial_Cell	Unknown	0	MRT4	CDH5
Endothelial_Progenitor	Unknown	0	MRT4	CDH5
Adipocyte	Unknown	0	MRT4	CDH5
Unknown	Unknown	0	MRT4	CDH5
MRT4	MRT4	0	MRT4	ncWNT
TAM	MRT4	0	MRT4	ncWNT
Monocyte	MRT4	0	MRT4	ncWNT
T_NK	MRT4	0	MRT4	ncWNT
Fibroblast	MRT4	0.003736208745	MRT4	ncWNT
Endothelial_Cell	MRT4	0	MRT4	ncWNT
Endothelial_Progenitor	MRT4	0	MRT4	ncWNT
Adipocyte	MRT4	0	MRT4	ncWNT
Unknown	MRT4	0	MRT4	ncWNT
MRT4	TAM	0	MRT4	ncWNT
TAM	TAM	0	MRT4	ncWNT
Monocyte	TAM	0	MRT4	ncWNT
T_NK	TAM	0	MRT4	ncWNT
Fibroblast	TAM	0	MRT4	ncWNT
Endothelial_Cell	TAM	0	MRT4	ncWNT
Endothelial_Progenitor	TAM	0	MRT4	ncWNT
Adipocyte	TAM	0	MRT4	ncWNT
Unknown	TAM	0	MRT4	ncWNT
MRT4	Monocyte	0	MRT4	ncWNT
TAM	Monocyte	0	MRT4	ncWNT
Monocyte	Monocyte	0	MRT4	ncWNT
T_NK	Monocyte	0	MRT4	ncWNT
Fibroblast	Monocyte	0	MRT4	ncWNT

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Monocyte	0	MRT4	ncWNT
Endothelial_Progenitor	Monocyte	0	MRT4	ncWNT
Adipocyte	Monocyte	0	MRT4	ncWNT
Unknown	Monocyte	0	MRT4	ncWNT
MRT4	T_NK	0	MRT4	ncWNT
TAM	T_NK	0	MRT4	ncWNT
Monocyte	T_NK	0	MRT4	ncWNT
T_NK	T_NK	0	MRT4	ncWNT
Fibroblast	T_NK	0	MRT4	ncWNT
Endothelial_Cell	T_NK	0	MRT4	ncWNT
Endothelial_Progenitor	T_NK	0	MRT4	ncWNT
Adipocyte	T_NK	0	MRT4	ncWNT
Unknown	T_NK	0	MRT4	ncWNT
MRT4	Fibroblast	0	MRT4	ncWNT
TAM	Fibroblast	0	MRT4	ncWNT
Monocyte	Fibroblast	0	MRT4	ncWNT
T_NK	Fibroblast	0	MRT4	ncWNT
Fibroblast	Fibroblast	0	MRT4	ncWNT
Endothelial_Cell	Fibroblast	0	MRT4	ncWNT
Endothelial_Progenitor	Fibroblast	0	MRT4	ncWNT
Adipocyte	Fibroblast	0	MRT4	ncWNT
Unknown	Fibroblast	0	MRT4	ncWNT
MRT4	Endothelial_Cell	0	MRT4	ncWNT
TAM	Endothelial_Cell	0	MRT4	ncWNT
Monocyte	Endothelial_Cell	0	MRT4	ncWNT
T_NK	Endothelial_Cell	0	MRT4	ncWNT
Fibroblast	Endothelial_Cell	0.001900016108	MRT4	ncWNT
Endothelial_Cell	Endothelial_Cell	0	MRT4	ncWNT
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ncWNT
Adipocyte	Endothelial_Cell	0	MRT4	ncWNT

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Cell	0	MRT4	ncWNT
MRT4	Endothelial_Progenitor	0	MRT4	ncWNT
TAM	Endothelial_Progenitor	0	MRT4	ncWNT
Monocyte	Endothelial_Progenitor	0	MRT4	ncWNT
T_NK	Endothelial_Progenitor	0	MRT4	ncWNT
Fibroblast	Endothelial_Progenitor	0.001868104372	MRT4	ncWNT
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ncWNT
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ncWNT
Adipocyte	Endothelial_Progenitor	0	MRT4	ncWNT
Unknown	Endothelial_Progenitor	0	MRT4	ncWNT
MRT4	Adipocyte	0	MRT4	ncWNT
TAM	Adipocyte	0	MRT4	ncWNT
Monocyte	Adipocyte	0	MRT4	ncWNT
T_NK	Adipocyte	0	MRT4	ncWNT
Fibroblast	Adipocyte	0.001924300721	MRT4	ncWNT
Endothelial_Cell	Adipocyte	0	MRT4	ncWNT
Endothelial_Progenitor	Adipocyte	0	MRT4	ncWNT
Adipocyte	Adipocyte	0	MRT4	ncWNT
Unknown	Adipocyte	0	MRT4	ncWNT
MRT4	Unknown	0	MRT4	ncWNT
TAM	Unknown	0	MRT4	ncWNT
Monocyte	Unknown	0	MRT4	ncWNT
T_NK	Unknown	0	MRT4	ncWNT
Fibroblast	Unknown	0	MRT4	ncWNT
Endothelial_Cell	Unknown	0	MRT4	ncWNT
Endothelial_Progenitor	Unknown	0	MRT4	ncWNT
Adipocyte	Unknown	0	MRT4	ncWNT
Unknown	Unknown	0	MRT4	ncWNT
MRT4	MRT4	0	MRT4	CADM
TAM	MRT4	0	MRT4	CADM

Source	Target	Probability	Sample	Pathway
Monocyte	MRT4	0	MRT4	CADM
T_NK	MRT4	0	MRT4	CADM
Fibroblast	MRT4	0	MRT4	CADM
Endothelial_Cell	MRT4	0	MRT4	CADM
Endothelial_Progenitor	MRT4	0	MRT4	CADM
Adipocyte	MRT4	0	MRT4	CADM
Unknown	MRT4	0	MRT4	CADM
MRT4	TAM	0	MRT4	CADM
TAM	TAM	0	MRT4	CADM
Monocyte	TAM	0	MRT4	CADM
T_NK	TAM	0	MRT4	CADM
Fibroblast	TAM	0	MRT4	CADM
Endothelial_Cell	TAM	0	MRT4	CADM
Endothelial_Progenitor	TAM	0	MRT4	CADM
Adipocyte	TAM	0	MRT4	CADM
Unknown	TAM	0	MRT4	CADM
MRT4	Monocyte	0	MRT4	CADM
TAM	Monocyte	0	MRT4	CADM
Monocyte	Monocyte	0	MRT4	CADM
T_NK	Monocyte	0	MRT4	CADM
Fibroblast	Monocyte	0	MRT4	CADM
Endothelial_Cell	Monocyte	0	MRT4	CADM
Endothelial_Progenitor	Monocyte	0	MRT4	CADM
Adipocyte	Monocyte	0	MRT4	CADM
Unknown	Monocyte	0	MRT4	CADM
MRT4	T_NK	0	MRT4	CADM
TAM	T_NK	0	MRT4	CADM
Monocyte	T_NK	0	MRT4	CADM
T_NK	T_NK	0	MRT4	CADM
Fibroblast	T_NK	0	MRT4	CADM

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	T_NK	0	MRT4	CADM
Endothelial_Progenitor	T_NK	0	MRT4	CADM
Adipocyte	T_NK	0	MRT4	CADM
Unknown	T_NK	0	MRT4	CADM
MRT4	Fibroblast	0	MRT4	CADM
TAM	Fibroblast	0	MRT4	CADM
Monocyte	Fibroblast	0	MRT4	CADM
T_NK	Fibroblast	0	MRT4	CADM
Fibroblast	Fibroblast	0	MRT4	CADM
Endothelial_Cell	Fibroblast	0	MRT4	CADM
Endothelial_Progenitor	Fibroblast	0	MRT4	CADM
Adipocyte	Fibroblast	0	MRT4	CADM
Unknown	Fibroblast	0	MRT4	CADM
MRT4	Endothelial_Cell	0	MRT4	CADM
TAM	Endothelial_Cell	0	MRT4	CADM
Monocyte	Endothelial_Cell	0	MRT4	CADM
T_NK	Endothelial_Cell	0	MRT4	CADM
Fibroblast	Endothelial_Cell	0	MRT4	CADM
Endothelial_Cell	Endothelial_Cell	0	MRT4	CADM
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CADM
Adipocyte	Endothelial_Cell	0	MRT4	CADM
Unknown	Endothelial_Cell	0	MRT4	CADM
MRT4	Endothelial_Progenitor	0	MRT4	CADM
TAM	Endothelial_Progenitor	0	MRT4	CADM
Monocyte	Endothelial_Progenitor	0	MRT4	CADM
T_NK	Endothelial_Progenitor	0	MRT4	CADM
Fibroblast	Endothelial_Progenitor	0	MRT4	CADM
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CADM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CADM
Adipocyte	Endothelial_Progenitor	0	MRT4	CADM

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0	MRT4	CADM
MRT4	Adipocyte	0	MRT4	CADM
TAM	Adipocyte	0	MRT4	CADM
Monocyte	Adipocyte	0	MRT4	CADM
T_NK	Adipocyte	0	MRT4	CADM
Fibroblast	Adipocyte	0	MRT4	CADM
Endothelial_Cell	Adipocyte	0	MRT4	CADM
Endothelial_Progenitor	Adipocyte	0	MRT4	CADM
Adipocyte	Adipocyte	0	MRT4	CADM
Unknown	Adipocyte	0	MRT4	CADM
MRT4	Unknown	0	MRT4	CADM
TAM	Unknown	0	MRT4	CADM
Monocyte	Unknown	0	MRT4	CADM
T_NK	Unknown	0	MRT4	CADM
Fibroblast	Unknown	0	MRT4	CADM
Endothelial_Cell	Unknown	0	MRT4	CADM
Endothelial_Progenitor	Unknown	0	MRT4	CADM
Adipocyte	Unknown	0	MRT4	CADM
Unknown	Unknown	0.004543361314	MRT4	CADM
MRT4	MRT4	0	MRT4	CDH1
TAM	MRT4	0	MRT4	CDH1
Monocyte	MRT4	0	MRT4	CDH1
T_NK	MRT4	0	MRT4	CDH1
Fibroblast	MRT4	0	MRT4	CDH1
Endothelial_Cell	MRT4	0	MRT4	CDH1
Endothelial_Progenitor	MRT4	0	MRT4	CDH1
Adipocyte	MRT4	0	MRT4	CDH1
Unknown	MRT4	0	MRT4	CDH1
MRT4	TAM	0	MRT4	CDH1
TAM	TAM	0	MRT4	CDH1

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT4	CDH1
T_NK	TAM	0	MRT4	CDH1
Fibroblast	TAM	0	MRT4	CDH1
Endothelial_Cell	TAM	0	MRT4	CDH1
Endothelial_Progenitor	TAM	0	MRT4	CDH1
Adipocyte	TAM	0	MRT4	CDH1
Unknown	TAM	0	MRT4	CDH1
MRT4	Monocyte	0	MRT4	CDH1
TAM	Monocyte	0	MRT4	CDH1
Monocyte	Monocyte	0	MRT4	CDH1
T_NK	Monocyte	0	MRT4	CDH1
Fibroblast	Monocyte	0	MRT4	CDH1
Endothelial_Cell	Monocyte	0	MRT4	CDH1
Endothelial_Progenitor	Monocyte	0	MRT4	CDH1
Adipocyte	Monocyte	0	MRT4	CDH1
Unknown	Monocyte	0	MRT4	CDH1
MRT4	T_NK	0	MRT4	CDH1
TAM	T_NK	0	MRT4	CDH1
Monocyte	T_NK	0	MRT4	CDH1
T_NK	T_NK	0	MRT4	CDH1
Fibroblast	T_NK	0	MRT4	CDH1
Endothelial_Cell	T_NK	0	MRT4	CDH1
Endothelial_Progenitor	T_NK	0	MRT4	CDH1
Adipocyte	T_NK	0	MRT4	CDH1
Unknown	T_NK	0	MRT4	CDH1
MRT4	Fibroblast	0	MRT4	CDH1
TAM	Fibroblast	0	MRT4	CDH1
Monocyte	Fibroblast	0	MRT4	CDH1
T_NK	Fibroblast	0	MRT4	CDH1
Fibroblast	Fibroblast	0	MRT4	CDH1

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Fibroblast	0	MRT4	CDH1
Endothelial_Progenitor	Fibroblast	0	MRT4	CDH1
Adipocyte	Fibroblast	0	MRT4	CDH1
Unknown	Fibroblast	0	MRT4	CDH1
MRT4	Endothelial_Cell	0	MRT4	CDH1
TAM	Endothelial_Cell	0	MRT4	CDH1
Monocyte	Endothelial_Cell	0	MRT4	CDH1
T_NK	Endothelial_Cell	0	MRT4	CDH1
Fibroblast	Endothelial_Cell	0	MRT4	CDH1
Endothelial_Cell	Endothelial_Cell	0	MRT4	CDH1
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CDH1
Adipocyte	Endothelial_Cell	0	MRT4	CDH1
Unknown	Endothelial_Cell	0	MRT4	CDH1
MRT4	Endothelial_Progenitor	0	MRT4	CDH1
TAM	Endothelial_Progenitor	0	MRT4	CDH1
Monocyte	Endothelial_Progenitor	0	MRT4	CDH1
T_NK	Endothelial_Progenitor	0	MRT4	CDH1
Fibroblast	Endothelial_Progenitor	0	MRT4	CDH1
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CDH1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CDH1
Adipocyte	Endothelial_Progenitor	0	MRT4	CDH1
Unknown	Endothelial_Progenitor	0.003875239737	MRT4	CDH1
MRT4	Adipocyte	0	MRT4	CDH1
TAM	Adipocyte	0	MRT4	CDH1
Monocyte	Adipocyte	0	MRT4	CDH1
T_NK	Adipocyte	0	MRT4	CDH1
Fibroblast	Adipocyte	0	MRT4	CDH1
Endothelial_Cell	Adipocyte	0	MRT4	CDH1
Endothelial_Progenitor	Adipocyte	0	MRT4	CDH1
Adipocyte	Adipocyte	0	MRT4	CDH1

Source	Target	Probability	Sample	Pathway
Unknown	Adipocyte	0	MRT4	CDH1
MRT4	Unknown	0	MRT4	CDH1
TAM	Unknown	0	MRT4	CDH1
Monocyte	Unknown	0	MRT4	CDH1
T_NK	Unknown	0	MRT4	CDH1
Fibroblast	Unknown	0	MRT4	CDH1
Endothelial_Cell	Unknown	0	MRT4	CDH1
Endothelial_Progenitor	Unknown	0	MRT4	CDH1
Adipocyte	Unknown	0	MRT4	CDH1
Unknown	Unknown	0	MRT4	CDH1
MRT4	MRT4	0	MRT4	PROS
TAM	MRT4	0	MRT4	PROS
Monocyte	MRT4	0	MRT4	PROS
T_NK	MRT4	0	MRT4	PROS
Fibroblast	MRT4	0	MRT4	PROS
Endothelial_Cell	MRT4	0	MRT4	PROS
Endothelial_Progenitor	MRT4	0	MRT4	PROS
Adipocyte	MRT4	0	MRT4	PROS
Unknown	MRT4	0	MRT4	PROS
MRT4	TAM	0	MRT4	PROS
TAM	TAM	0	MRT4	PROS
Monocyte	TAM	0	MRT4	PROS
T_NK	TAM	0	MRT4	PROS
Fibroblast	TAM	0	MRT4	PROS
Endothelial_Cell	TAM	0	MRT4	PROS
Endothelial_Progenitor	TAM	0	MRT4	PROS
Adipocyte	TAM	0	MRT4	PROS
Unknown	TAM	0	MRT4	PROS
MRT4	Monocyte	0	MRT4	PROS
TAM	Monocyte	0	MRT4	PROS

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT4	PROS
T_NK	Monocyte	0	MRT4	PROS
Fibroblast	Monocyte	0	MRT4	PROS
Endothelial_Cell	Monocyte	0	MRT4	PROS
Endothelial_Progenitor	Monocyte	0	MRT4	PROS
Adipocyte	Monocyte	0	MRT4	PROS
Unknown	Monocyte	0	MRT4	PROS
MRT4	T_NK	0	MRT4	PROS
TAM	T_NK	0	MRT4	PROS
Monocyte	T_NK	0	MRT4	PROS
T_NK	T_NK	0	MRT4	PROS
Fibroblast	T_NK	0	MRT4	PROS
Endothelial_Cell	T_NK	0	MRT4	PROS
Endothelial_Progenitor	T_NK	0	MRT4	PROS
Adipocyte	T_NK	0	MRT4	PROS
Unknown	T_NK	0	MRT4	PROS
MRT4	Fibroblast	0.001813546173	MRT4	PROS
TAM	Fibroblast	0	MRT4	PROS
Monocyte	Fibroblast	0	MRT4	PROS
T_NK	Fibroblast	0	MRT4	PROS
Fibroblast	Fibroblast	0	MRT4	PROS
Endothelial_Cell	Fibroblast	0	MRT4	PROS
Endothelial_Progenitor	Fibroblast	0.001813546173	MRT4	PROS
Adipocyte	Fibroblast	0	MRT4	PROS
Unknown	Fibroblast	0	MRT4	PROS
MRT4	Endothelial_Cell	0	MRT4	PROS
TAM	Endothelial_Cell	0	MRT4	PROS
Monocyte	Endothelial_Cell	0	MRT4	PROS
T_NK	Endothelial_Cell	0	MRT4	PROS
Fibroblast	Endothelial_Cell	0	MRT4	PROS

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Cell	0	MRT4	PROS
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	PROS
Adipocyte	Endothelial_Cell	0	MRT4	PROS
Unknown	Endothelial_Cell	0	MRT4	PROS
MRT4	Endothelial_Progenitor	0	MRT4	PROS
TAM	Endothelial_Progenitor	0	MRT4	PROS
Monocyte	Endothelial_Progenitor	0	MRT4	PROS
T_NK	Endothelial_Progenitor	0	MRT4	PROS
Fibroblast	Endothelial_Progenitor	0	MRT4	PROS
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	PROS
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	PROS
Adipocyte	Endothelial_Progenitor	0	MRT4	PROS
Unknown	Endothelial_Progenitor	0	MRT4	PROS
MRT4	Adipocyte	0	MRT4	PROS
TAM	Adipocyte	0	MRT4	PROS
Monocyte	Adipocyte	0	MRT4	PROS
T_NK	Adipocyte	0	MRT4	PROS
Fibroblast	Adipocyte	0	MRT4	PROS
Endothelial_Cell	Adipocyte	0	MRT4	PROS
Endothelial_Progenitor	Adipocyte	0	MRT4	PROS
Adipocyte	Adipocyte	0	MRT4	PROS
Unknown	Adipocyte	0	MRT4	PROS
MRT4	Unknown	0	MRT4	PROS
TAM	Unknown	0	MRT4	PROS
Monocyte	Unknown	0	MRT4	PROS
T_NK	Unknown	0	MRT4	PROS
Fibroblast	Unknown	0	MRT4	PROS
Endothelial_Cell	Unknown	0	MRT4	PROS
Endothelial_Progenitor	Unknown	0	MRT4	PROS
Adipocyte	Unknown	0	MRT4	PROS

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT4	PROS
MRT4	MRT4	0	MRT4	ADGRE5
TAM	MRT4	0	MRT4	ADGRE5
Monocyte	MRT4	0	MRT4	ADGRE5
T_NK	MRT4	0	MRT4	ADGRE5
Fibroblast	MRT4	0	MRT4	ADGRE5
Endothelial_Cell	MRT4	0	MRT4	ADGRE5
Endothelial_Progenitor	MRT4	0	MRT4	ADGRE5
Adipocyte	MRT4	0	MRT4	ADGRE5
Unknown	MRT4	0	MRT4	ADGRE5
MRT4	TAM	0	MRT4	ADGRE5
TAM	TAM	0	MRT4	ADGRE5
Monocyte	TAM	0	MRT4	ADGRE5
T_NK	TAM	0	MRT4	ADGRE5
Fibroblast	TAM	0	MRT4	ADGRE5
Endothelial_Cell	TAM	0	MRT4	ADGRE5
Endothelial_Progenitor	TAM	0	MRT4	ADGRE5
Adipocyte	TAM	0	MRT4	ADGRE5
Unknown	TAM	0	MRT4	ADGRE5
MRT4	Monocyte	0	MRT4	ADGRE5
TAM	Monocyte	0	MRT4	ADGRE5
Monocyte	Monocyte	0	MRT4	ADGRE5
T_NK	Monocyte	0	MRT4	ADGRE5
Fibroblast	Monocyte	0	MRT4	ADGRE5
Endothelial_Cell	Monocyte	0	MRT4	ADGRE5
Endothelial_Progenitor	Monocyte	0	MRT4	ADGRE5
Adipocyte	Monocyte	0	MRT4	ADGRE5
Unknown	Monocyte	0	MRT4	ADGRE5
MRT4	T_NK	0	MRT4	ADGRE5
TAM	T_NK	0	MRT4	ADGRE5

Source	Target	Probability	Sample	Pathway
Monocyte	T_NK	0	MRT4	ADGRE5
T_NK	T_NK	0	MRT4	ADGRE5
Fibroblast	T_NK	0	MRT4	ADGRE5
Endothelial_Cell	T_NK	0	MRT4	ADGRE5
Endothelial_Progenitor	T_NK	0	MRT4	ADGRE5
Adipocyte	T_NK	0	MRT4	ADGRE5
Unknown	T_NK	0	MRT4	ADGRE5
MRT4	Fibroblast	0	MRT4	ADGRE5
TAM	Fibroblast	0.001813546173	MRT4	ADGRE5
Monocyte	Fibroblast	0	MRT4	ADGRE5
T_NK	Fibroblast	0	MRT4	ADGRE5
Fibroblast	Fibroblast	0	MRT4	ADGRE5
Endothelial_Cell	Fibroblast	0	MRT4	ADGRE5
Endothelial_Progenitor	Fibroblast	0	MRT4	ADGRE5
Adipocyte	Fibroblast	0	MRT4	ADGRE5
Unknown	Fibroblast	0	MRT4	ADGRE5
MRT4	Endothelial_Cell	0	MRT4	ADGRE5
TAM	Endothelial_Cell	0.001813546173	MRT4	ADGRE5
Monocyte	Endothelial_Cell	0	MRT4	ADGRE5
T_NK	Endothelial_Cell	0	MRT4	ADGRE5
Fibroblast	Endothelial_Cell	0	MRT4	ADGRE5
Endothelial_Cell	Endothelial_Cell	0	MRT4	ADGRE5
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ADGRE5
Adipocyte	Endothelial_Cell	0	MRT4	ADGRE5
Unknown	Endothelial_Cell	0	MRT4	ADGRE5
MRT4	Endothelial_Progenitor	0	MRT4	ADGRE5
TAM	Endothelial_Progenitor	0	MRT4	ADGRE5
Monocyte	Endothelial_Progenitor	0	MRT4	ADGRE5
T_NK	Endothelial_Progenitor	0	MRT4	ADGRE5
Fibroblast	Endothelial_Progenitor	0	MRT4	ADGRE5

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ADGRE5
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ADGRE5
Adipocyte	Endothelial_Progenitor	0	MRT4	ADGRE5
Unknown	Endothelial_Progenitor	0	MRT4	ADGRE5
MRT4	Adipocyte	0	MRT4	ADGRE5
TAM	Adipocyte	0	MRT4	ADGRE5
Monocyte	Adipocyte	0	MRT4	ADGRE5
T_NK	Adipocyte	0	MRT4	ADGRE5
Fibroblast	Adipocyte	0	MRT4	ADGRE5
Endothelial_Cell	Adipocyte	0	MRT4	ADGRE5
Endothelial_Progenitor	Adipocyte	0	MRT4	ADGRE5
Adipocyte	Adipocyte	0	MRT4	ADGRE5
Unknown	Adipocyte	0	MRT4	ADGRE5
MRT4	Unknown	0	MRT4	ADGRE5
TAM	Unknown	0	MRT4	ADGRE5
Monocyte	Unknown	0	MRT4	ADGRE5
T_NK	Unknown	0	MRT4	ADGRE5
Fibroblast	Unknown	0	MRT4	ADGRE5
Endothelial_Cell	Unknown	0	MRT4	ADGRE5
Endothelial_Progenitor	Unknown	0	MRT4	ADGRE5
Adipocyte	Unknown	0	MRT4	ADGRE5
Unknown	Unknown	0	MRT4	ADGRE5
MRT4	MRT4	0.001813546173	MRT4	CDH
TAM	MRT4	0	MRT4	CDH
Monocyte	MRT4	0	MRT4	CDH
T_NK	MRT4	0	MRT4	CDH
Fibroblast	MRT4	0	MRT4	CDH
Endothelial_Cell	MRT4	0	MRT4	CDH
Endothelial_Progenitor	MRT4	0	MRT4	CDH
Adipocyte	MRT4	0	MRT4	CDH

Source	Target	Probability	Sample	Pathway
Unknown	MRT4	0	MRT4	CDH
MRT4	TAM	0	MRT4	CDH
TAM	TAM	0	MRT4	CDH
Monocyte	TAM	0	MRT4	CDH
T_NK	TAM	0	MRT4	CDH
Fibroblast	TAM	0	MRT4	CDH
Endothelial_Cell	TAM	0	MRT4	CDH
Endothelial_Progenitor	TAM	0	MRT4	CDH
Adipocyte	TAM	0	MRT4	CDH
Unknown	TAM	0	MRT4	CDH
MRT4	Monocyte	0	MRT4	CDH
TAM	Monocyte	0	MRT4	CDH
Monocyte	Monocyte	0	MRT4	CDH
T_NK	Monocyte	0	MRT4	CDH
Fibroblast	Monocyte	0	MRT4	CDH
Endothelial_Cell	Monocyte	0	MRT4	CDH
Endothelial_Progenitor	Monocyte	0	MRT4	CDH
Adipocyte	Monocyte	0	MRT4	CDH
Unknown	Monocyte	0	MRT4	CDH
MRT4	T_NK	0	MRT4	CDH
TAM	T_NK	0	MRT4	CDH
Monocyte	T_NK	0	MRT4	CDH
T_NK	T_NK	0	MRT4	CDH
Fibroblast	T_NK	0	MRT4	CDH
Endothelial_Cell	T_NK	0	MRT4	CDH
Endothelial_Progenitor	T_NK	0	MRT4	CDH
Adipocyte	T_NK	0	MRT4	CDH
Unknown	T_NK	0	MRT4	CDH
MRT4	Fibroblast	0	MRT4	CDH
TAM	Fibroblast	0	MRT4	CDH

Source	Target	Probability	Sample	Pathway
Monocyte	Fibroblast	0	MRT4	CDH
T_NK	Fibroblast	0	MRT4	CDH
Fibroblast	Fibroblast	0	MRT4	CDH
Endothelial_Cell	Fibroblast	0	MRT4	CDH
Endothelial_Progenitor	Fibroblast	0	MRT4	CDH
Adipocyte	Fibroblast	0	MRT4	CDH
Unknown	Fibroblast	0	MRT4	CDH
MRT4	Endothelial_Cell	0	MRT4	CDH
TAM	Endothelial_Cell	0	MRT4	CDH
Monocyte	Endothelial_Cell	0	MRT4	CDH
T_NK	Endothelial_Cell	0	MRT4	CDH
Fibroblast	Endothelial_Cell	0	MRT4	CDH
Endothelial_Cell	Endothelial_Cell	0	MRT4	CDH
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CDH
Adipocyte	Endothelial_Cell	0	MRT4	CDH
Unknown	Endothelial_Cell	0	MRT4	CDH
MRT4	Endothelial_Progenitor	0	MRT4	CDH
TAM	Endothelial_Progenitor	0	MRT4	CDH
Monocyte	Endothelial_Progenitor	0	MRT4	CDH
T_NK	Endothelial_Progenitor	0	MRT4	CDH
Fibroblast	Endothelial_Progenitor	0	MRT4	CDH
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CDH
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CDH
Adipocyte	Endothelial_Progenitor	0	MRT4	CDH
Unknown	Endothelial_Progenitor	0	MRT4	CDH
MRT4	Adipocyte	0	MRT4	CDH
TAM	Adipocyte	0	MRT4	CDH
Monocyte	Adipocyte	0	MRT4	CDH
T_NK	Adipocyte	0	MRT4	CDH
Fibroblast	Adipocyte	0	MRT4	CDH

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Adipocyte	0	MRT4	CDH
Endothelial_Progenitor	Adipocyte	0	MRT4	CDH
Adipocyte	Adipocyte	0	MRT4	CDH
Unknown	Adipocyte	0	MRT4	CDH
MRT4	Unknown	0	MRT4	CDH
TAM	Unknown	0	MRT4	CDH
Monocyte	Unknown	0	MRT4	CDH
T_NK	Unknown	0	MRT4	CDH
Fibroblast	Unknown	0	MRT4	CDH
Endothelial_Cell	Unknown	0	MRT4	CDH
Endothelial_Progenitor	Unknown	0	MRT4	CDH
Adipocyte	Unknown	0	MRT4	CDH
Unknown	Unknown	0.001813546173	MRT4	CDH
MRT4	MRT4	0	MRT4	ANNEXIN
TAM	MRT4	0	MRT4	ANNEXIN
Monocyte	MRT4	0	MRT4	ANNEXIN
T_NK	MRT4	0	MRT4	ANNEXIN
Fibroblast	MRT4	0	MRT4	ANNEXIN
Endothelial_Cell	MRT4	0	MRT4	ANNEXIN
Endothelial_Progenitor	MRT4	0	MRT4	ANNEXIN
Adipocyte	MRT4	0	MRT4	ANNEXIN
Unknown	MRT4	0	MRT4	ANNEXIN
MRT4	TAM	0	MRT4	ANNEXIN
TAM	TAM	0.000454004061	MRT4	ANNEXIN
Monocyte	TAM	0	MRT4	ANNEXIN
T_NK	TAM	0	MRT4	ANNEXIN
Fibroblast	TAM	0.000454004061	MRT4	ANNEXIN
Endothelial_Cell	TAM	0	MRT4	ANNEXIN
Endothelial_Progenitor	TAM	0.000454004061	MRT4	ANNEXIN
Adipocyte	TAM	0.000454004061	MRT4	ANNEXIN

Source	Target	Probability	Sample	Pathway
Unknown	TAM	0	MRT4	ANNEXIN
MRT4	Monocyte	0	MRT4	ANNEXIN
TAM	Monocyte	0	MRT4	ANNEXIN
Monocyte	Monocyte	0	MRT4	ANNEXIN
T_NK	Monocyte	0	MRT4	ANNEXIN
Fibroblast	Monocyte	0	MRT4	ANNEXIN
Endothelial_Cell	Monocyte	0	MRT4	ANNEXIN
Endothelial_Progenitor	Monocyte	0	MRT4	ANNEXIN
Adipocyte	Monocyte	0	MRT4	ANNEXIN
Unknown	Monocyte	0	MRT4	ANNEXIN
MRT4	T_NK	0	MRT4	ANNEXIN
TAM	T_NK	0	MRT4	ANNEXIN
Monocyte	T_NK	0	MRT4	ANNEXIN
T_NK	T_NK	0	MRT4	ANNEXIN
Fibroblast	T_NK	0	MRT4	ANNEXIN
Endothelial_Cell	T_NK	0	MRT4	ANNEXIN
Endothelial_Progenitor	T_NK	0	MRT4	ANNEXIN
Adipocyte	T_NK	0	MRT4	ANNEXIN
Unknown	T_NK	0	MRT4	ANNEXIN
MRT4	Fibroblast	0	MRT4	ANNEXIN
TAM	Fibroblast	0	MRT4	ANNEXIN
Monocyte	Fibroblast	0	MRT4	ANNEXIN
T_NK	Fibroblast	0	MRT4	ANNEXIN
Fibroblast	Fibroblast	0	MRT4	ANNEXIN
Endothelial_Cell	Fibroblast	0	MRT4	ANNEXIN
Endothelial_Progenitor	Fibroblast	0	MRT4	ANNEXIN
Adipocyte	Fibroblast	0	MRT4	ANNEXIN
Unknown	Fibroblast	0	MRT4	ANNEXIN
MRT4	Endothelial_Cell	0	MRT4	ANNEXIN
TAM	Endothelial_Cell	0	MRT4	ANNEXIN

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Cell	0	MRT4	ANNEXIN
T_NK	Endothelial_Cell	0	MRT4	ANNEXIN
Fibroblast	Endothelial_Cell	0	MRT4	ANNEXIN
Endothelial_Cell	Endothelial_Cell	0	MRT4	ANNEXIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ANNEXIN
Adipocyte	Endothelial_Cell	0	MRT4	ANNEXIN
Unknown	Endothelial_Cell	0	MRT4	ANNEXIN
MRT4	Endothelial_Progenitor	0	MRT4	ANNEXIN
TAM	Endothelial_Progenitor	0	MRT4	ANNEXIN
Monocyte	Endothelial_Progenitor	0	MRT4	ANNEXIN
T_NK	Endothelial_Progenitor	0	MRT4	ANNEXIN
Fibroblast	Endothelial_Progenitor	0	MRT4	ANNEXIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ANNEXIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ANNEXIN
Adipocyte	Endothelial_Progenitor	0	MRT4	ANNEXIN
Unknown	Endothelial_Progenitor	0	MRT4	ANNEXIN
MRT4	Adipocyte	0	MRT4	ANNEXIN
TAM	Adipocyte	0	MRT4	ANNEXIN
Monocyte	Adipocyte	0	MRT4	ANNEXIN
T_NK	Adipocyte	0	MRT4	ANNEXIN
Fibroblast	Adipocyte	0	MRT4	ANNEXIN
Endothelial_Cell	Adipocyte	0	MRT4	ANNEXIN
Endothelial_Progenitor	Adipocyte	0	MRT4	ANNEXIN
Adipocyte	Adipocyte	0	MRT4	ANNEXIN
Unknown	Adipocyte	0	MRT4	ANNEXIN
MRT4	Unknown	0	MRT4	ANNEXIN
TAM	Unknown	0	MRT4	ANNEXIN
Monocyte	Unknown	0	MRT4	ANNEXIN
T_NK	Unknown	0	MRT4	ANNEXIN
Fibroblast	Unknown	0	MRT4	ANNEXIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Unknown	0	MRT4	ANNEXIN
Endothelial_Progenitor	Unknown	0	MRT4	ANNEXIN
Adipocyte	Unknown	0	MRT4	ANNEXIN
Unknown	Unknown	0	MRT4	ANNEXIN
MRT4	MRT4	0	MRT4	CCL
TAM	MRT4	0	MRT4	CCL
Monocyte	MRT4	0	MRT4	CCL
T_NK	MRT4	0	MRT4	CCL
Fibroblast	MRT4	0	MRT4	CCL
Endothelial_Cell	MRT4	0	MRT4	CCL
Endothelial_Progenitor	MRT4	0	MRT4	CCL
Adipocyte	MRT4	0	MRT4	CCL
Unknown	MRT4	0	MRT4	CCL
MRT4	TAM	0	MRT4	CCL
TAM	TAM	0	MRT4	CCL
Monocyte	TAM	0	MRT4	CCL
T_NK	TAM	0	MRT4	CCL
Fibroblast	TAM	0	MRT4	CCL
Endothelial_Cell	TAM	0	MRT4	CCL
Endothelial_Progenitor	TAM	0.001813546173	MRT4	CCL
Adipocyte	TAM	0	MRT4	CCL
Unknown	TAM	0	MRT4	CCL
MRT4	Monocyte	0	MRT4	CCL
TAM	Monocyte	0	MRT4	CCL
Monocyte	Monocyte	0	MRT4	CCL
T_NK	Monocyte	0	MRT4	CCL
Fibroblast	Monocyte	0	MRT4	CCL
Endothelial_Cell	Monocyte	0	MRT4	CCL
Endothelial_Progenitor	Monocyte	0	MRT4	CCL
Adipocyte	Monocyte	0	MRT4	CCL

Source	Target	Probability	Sample	Pathway
Unknown	Monocyte	0	MRT4	CCL
MRT4	T_NK	0	MRT4	CCL
TAM	T_NK	0	MRT4	CCL
Monocyte	T_NK	0	MRT4	CCL
T_NK	T_NK	0	MRT4	CCL
Fibroblast	T_NK	0	MRT4	CCL
Endothelial_Cell	T_NK	0	MRT4	CCL
Endothelial_Progenitor	T_NK	0	MRT4	CCL
Adipocyte	T_NK	0	MRT4	CCL
Unknown	T_NK	0	MRT4	CCL
MRT4	Fibroblast	0	MRT4	CCL
TAM	Fibroblast	0	MRT4	CCL
Monocyte	Fibroblast	0	MRT4	CCL
T_NK	Fibroblast	0	MRT4	CCL
Fibroblast	Fibroblast	0	MRT4	CCL
Endothelial_Cell	Fibroblast	0	MRT4	CCL
Endothelial_Progenitor	Fibroblast	0	MRT4	CCL
Adipocyte	Fibroblast	0	MRT4	CCL
Unknown	Fibroblast	0	MRT4	CCL
MRT4	Endothelial_Cell	0	MRT4	CCL
TAM	Endothelial_Cell	0	MRT4	CCL
Monocyte	Endothelial_Cell	0	MRT4	CCL
T_NK	Endothelial_Cell	0	MRT4	CCL
Fibroblast	Endothelial_Cell	0	MRT4	CCL
Endothelial_Cell	Endothelial_Cell	0	MRT4	CCL
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CCL
Adipocyte	Endothelial_Cell	0	MRT4	CCL
Unknown	Endothelial_Cell	0	MRT4	CCL
MRT4	Endothelial_Progenitor	0	MRT4	CCL
TAM	Endothelial_Progenitor	0	MRT4	CCL

Source	Target	Probability	Sample	Pathway
Monocyte	Endothelial_Progenitor	0	MRT4	CCL
T_NK	Endothelial_Progenitor	0	MRT4	CCL
Fibroblast	Endothelial_Progenitor	0	MRT4	CCL
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CCL
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CCL
Adipocyte	Endothelial_Progenitor	0	MRT4	CCL
Unknown	Endothelial_Progenitor	0	MRT4	CCL
MRT4	Adipocyte	0	MRT4	CCL
TAM	Adipocyte	0	MRT4	CCL
Monocyte	Adipocyte	0	MRT4	CCL
T_NK	Adipocyte	0	MRT4	CCL
Fibroblast	Adipocyte	0	MRT4	CCL
Endothelial_Cell	Adipocyte	0	MRT4	CCL
Endothelial_Progenitor	Adipocyte	0	MRT4	CCL
Adipocyte	Adipocyte	0	MRT4	CCL
Unknown	Adipocyte	0	MRT4	CCL
MRT4	Unknown	0	MRT4	CCL
TAM	Unknown	0	MRT4	CCL
Monocyte	Unknown	0	MRT4	CCL
T_NK	Unknown	0	MRT4	CCL
Fibroblast	Unknown	0	MRT4	CCL
Endothelial_Cell	Unknown	0	MRT4	CCL
Endothelial_Progenitor	Unknown	0	MRT4	CCL
Adipocyte	Unknown	0	MRT4	CCL
Unknown	Unknown	0	MRT4	CCL
MRT4	MRT4	0	MRT4	EDN
TAM	MRT4	0	MRT4	EDN
Monocyte	MRT4	0	MRT4	EDN
T_NK	MRT4	0	MRT4	EDN
Fibroblast	MRT4	0	MRT4	EDN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	MRT4	0	MRT4	EDN
Endothelial_Progenitor	MRT4	0	MRT4	EDN
Adipocyte	MRT4	0	MRT4	EDN
Unknown	MRT4	0	MRT4	EDN
MRT4	TAM	0	MRT4	EDN
TAM	TAM	0	MRT4	EDN
Monocyte	TAM	0	MRT4	EDN
T_NK	TAM	0	MRT4	EDN
Fibroblast	TAM	0	MRT4	EDN
Endothelial_Cell	TAM	0	MRT4	EDN
Endothelial_Progenitor	TAM	0	MRT4	EDN
Adipocyte	TAM	0	MRT4	EDN
Unknown	TAM	0	MRT4	EDN
MRT4	Monocyte	0	MRT4	EDN
TAM	Monocyte	0	MRT4	EDN
Monocyte	Monocyte	0	MRT4	EDN
T_NK	Monocyte	0	MRT4	EDN
Fibroblast	Monocyte	0	MRT4	EDN
Endothelial_Cell	Monocyte	0	MRT4	EDN
Endothelial_Progenitor	Monocyte	0	MRT4	EDN
Adipocyte	Monocyte	0	MRT4	EDN
Unknown	Monocyte	0	MRT4	EDN
MRT4	T_NK	0	MRT4	EDN
TAM	T_NK	0	MRT4	EDN
Monocyte	T_NK	0	MRT4	EDN
T_NK	T_NK	0	MRT4	EDN
Fibroblast	T_NK	0	MRT4	EDN
Endothelial_Cell	T_NK	0	MRT4	EDN
Endothelial_Progenitor	T_NK	0	MRT4	EDN
Adipocyte	T_NK	0	MRT4	EDN

Source	Target	Probability	Sample	Pathway
Unknown	T_NK	0	MRT4	EDN
MRT4	Fibroblast	0	MRT4	EDN
TAM	Fibroblast	0	MRT4	EDN
Monocyte	Fibroblast	0	MRT4	EDN
T_NK	Fibroblast	0	MRT4	EDN
Fibroblast	Fibroblast	0	MRT4	EDN
Endothelial_Cell	Fibroblast	0	MRT4	EDN
Endothelial_Progenitor	Fibroblast	0.001813546173	MRT4	EDN
Adipocyte	Fibroblast	0	MRT4	EDN
Unknown	Fibroblast	0	MRT4	EDN
MRT4	Endothelial_Cell	0	MRT4	EDN
TAM	Endothelial_Cell	0	MRT4	EDN
Monocyte	Endothelial_Cell	0	MRT4	EDN
T_NK	Endothelial_Cell	0	MRT4	EDN
Fibroblast	Endothelial_Cell	0	MRT4	EDN
Endothelial_Cell	Endothelial_Cell	0	MRT4	EDN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	EDN
Adipocyte	Endothelial_Cell	0	MRT4	EDN
Unknown	Endothelial_Cell	0	MRT4	EDN
MRT4	Endothelial_Progenitor	0	MRT4	EDN
TAM	Endothelial_Progenitor	0	MRT4	EDN
Monocyte	Endothelial_Progenitor	0	MRT4	EDN
T_NK	Endothelial_Progenitor	0	MRT4	EDN
Fibroblast	Endothelial_Progenitor	0	MRT4	EDN
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	EDN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	EDN
Adipocyte	Endothelial_Progenitor	0	MRT4	EDN
Unknown	Endothelial_Progenitor	0	MRT4	EDN
MRT4	Adipocyte	0	MRT4	EDN
TAM	Adipocyte	0	MRT4	EDN

Source	Target	Probability	Sample	Pathway
Monocyte	Adipocyte	0	MRT4	EDN
T_NK	Adipocyte	0	MRT4	EDN
Fibroblast	Adipocyte	0	MRT4	EDN
Endothelial_Cell	Adipocyte	0	MRT4	EDN
Endothelial_Progenitor	Adipocyte	0	MRT4	EDN
Adipocyte	Adipocyte	0	MRT4	EDN
Unknown	Adipocyte	0	MRT4	EDN
MRT4	Unknown	0	MRT4	EDN
TAM	Unknown	0	MRT4	EDN
Monocyte	Unknown	0	MRT4	EDN
T_NK	Unknown	0	MRT4	EDN
Fibroblast	Unknown	0	MRT4	EDN
Endothelial_Cell	Unknown	0	MRT4	EDN
Endothelial_Progenitor	Unknown	0	MRT4	EDN
Adipocyte	Unknown	0	MRT4	EDN
Unknown	Unknown	0	MRT4	EDN
MRT4	MRT4	0	MRT4	CHEMERIN
TAM	MRT4	0	MRT4	CHEMERIN
Monocyte	MRT4	0	MRT4	CHEMERIN
T_NK	MRT4	0	MRT4	CHEMERIN
Fibroblast	MRT4	0	MRT4	CHEMERIN
Endothelial_Cell	MRT4	0	MRT4	CHEMERIN
Endothelial_Progenitor	MRT4	0	MRT4	CHEMERIN
Adipocyte	MRT4	0	MRT4	CHEMERIN
Unknown	MRT4	0	MRT4	CHEMERIN
MRT4	TAM	0	MRT4	CHEMERIN
TAM	TAM	0	MRT4	CHEMERIN
Monocyte	TAM	0	MRT4	CHEMERIN
T_NK	TAM	0	MRT4	CHEMERIN
Fibroblast	TAM	0	MRT4	CHEMERIN

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	TAM	0	MRT4	CHEMERIN
Endothelial_Progenitor	TAM	0	MRT4	CHEMERIN
Adipocyte	TAM	0.001813546173	MRT4	CHEMERIN
Unknown	TAM	0	MRT4	CHEMERIN
MRT4	Monocyte	0	MRT4	CHEMERIN
TAM	Monocyte	0	MRT4	CHEMERIN
Monocyte	Monocyte	0	MRT4	CHEMERIN
T_NK	Monocyte	0	MRT4	CHEMERIN
Fibroblast	Monocyte	0	MRT4	CHEMERIN
Endothelial_Cell	Monocyte	0	MRT4	CHEMERIN
Endothelial_Progenitor	Monocyte	0	MRT4	CHEMERIN
Adipocyte	Monocyte	0	MRT4	CHEMERIN
Unknown	Monocyte	0	MRT4	CHEMERIN
MRT4	T_NK	0	MRT4	CHEMERIN
TAM	T_NK	0	MRT4	CHEMERIN
Monocyte	T_NK	0	MRT4	CHEMERIN
T_NK	T_NK	0	MRT4	CHEMERIN
Fibroblast	T_NK	0	MRT4	CHEMERIN
Endothelial_Cell	T_NK	0	MRT4	CHEMERIN
Endothelial_Progenitor	T_NK	0	MRT4	CHEMERIN
Adipocyte	T_NK	0	MRT4	CHEMERIN
Unknown	T_NK	0	MRT4	CHEMERIN
MRT4	Fibroblast	0	MRT4	CHEMERIN
TAM	Fibroblast	0	MRT4	CHEMERIN
Monocyte	Fibroblast	0	MRT4	CHEMERIN
T_NK	Fibroblast	0	MRT4	CHEMERIN
Fibroblast	Fibroblast	0	MRT4	CHEMERIN
Endothelial_Cell	Fibroblast	0	MRT4	CHEMERIN
Endothelial_Progenitor	Fibroblast	0	MRT4	CHEMERIN
Adipocyte	Fibroblast	0	MRT4	CHEMERIN

Source	Target	Probability	Sample	Pathway
Unknown	Fibroblast	0	MRT4	CHEMERIN
MRT4	Endothelial_Cell	0	MRT4	CHEMERIN
TAM	Endothelial_Cell	0	MRT4	CHEMERIN
Monocyte	Endothelial_Cell	0	MRT4	CHEMERIN
T_NK	Endothelial_Cell	0	MRT4	CHEMERIN
Fibroblast	Endothelial_Cell	0	MRT4	CHEMERIN
Endothelial_Cell	Endothelial_Cell	0	MRT4	CHEMERIN
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CHEMERIN
Adipocyte	Endothelial_Cell	0	MRT4	CHEMERIN
Unknown	Endothelial_Cell	0	MRT4	CHEMERIN
MRT4	Endothelial_Progenitor	0	MRT4	CHEMERIN
TAM	Endothelial_Progenitor	0	MRT4	CHEMERIN
Monocyte	Endothelial_Progenitor	0	MRT4	CHEMERIN
T_NK	Endothelial_Progenitor	0	MRT4	CHEMERIN
Fibroblast	Endothelial_Progenitor	0	MRT4	CHEMERIN
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CHEMERIN
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CHEMERIN
Adipocyte	Endothelial_Progenitor	0	MRT4	CHEMERIN
Unknown	Endothelial_Progenitor	0	MRT4	CHEMERIN
MRT4	Adipocyte	0	MRT4	CHEMERIN
TAM	Adipocyte	0	MRT4	CHEMERIN
Monocyte	Adipocyte	0	MRT4	CHEMERIN
T_NK	Adipocyte	0	MRT4	CHEMERIN
Fibroblast	Adipocyte	0	MRT4	CHEMERIN
Endothelial_Cell	Adipocyte	0	MRT4	CHEMERIN
Endothelial_Progenitor	Adipocyte	0	MRT4	CHEMERIN
Adipocyte	Adipocyte	0	MRT4	CHEMERIN
Unknown	Adipocyte	0	MRT4	CHEMERIN
MRT4	Unknown	0	MRT4	CHEMERIN
TAM	Unknown	0	MRT4	CHEMERIN

Source	Target	Probability	Sample	Pathway
Monocyte	Unknown	0	MRT4	CHEMERIN
T_NK	Unknown	0	MRT4	CHEMERIN
Fibroblast	Unknown	0	MRT4	CHEMERIN
Endothelial_Cell	Unknown	0	MRT4	CHEMERIN
Endothelial_Progenitor	Unknown	0	MRT4	CHEMERIN
Adipocyte	Unknown	0	MRT4	CHEMERIN
Unknown	Unknown	0	MRT4	CHEMERIN
MRT4	MRT4	0	MRT4	CD86
TAM	MRT4	0	MRT4	CD86
Monocyte	MRT4	0	MRT4	CD86
T_NK	MRT4	0	MRT4	CD86
Fibroblast	MRT4	0	MRT4	CD86
Endothelial_Cell	MRT4	0	MRT4	CD86
Endothelial_Progenitor	MRT4	0	MRT4	CD86
Adipocyte	MRT4	0	MRT4	CD86
Unknown	MRT4	0	MRT4	CD86
MRT4	TAM	0	MRT4	CD86
TAM	TAM	0.001813546173	MRT4	CD86
Monocyte	TAM	0	MRT4	CD86
T_NK	TAM	0	MRT4	CD86
Fibroblast	TAM	0	MRT4	CD86
Endothelial_Cell	TAM	0	MRT4	CD86
Endothelial_Progenitor	TAM	0	MRT4	CD86
Adipocyte	TAM	0	MRT4	CD86
Unknown	TAM	0	MRT4	CD86
MRT4	Monocyte	0	MRT4	CD86
TAM	Monocyte	0	MRT4	CD86
Monocyte	Monocyte	0	MRT4	CD86
T_NK	Monocyte	0	MRT4	CD86
Fibroblast	Monocyte	0	MRT4	CD86

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Monocyte	0	MRT4	CD86
Endothelial_Progenitor	Monocyte	0	MRT4	CD86
Adipocyte	Monocyte	0	MRT4	CD86
Unknown	Monocyte	0	MRT4	CD86
MRT4	T_NK	0	MRT4	CD86
TAM	T_NK	0	MRT4	CD86
Monocyte	T_NK	0	MRT4	CD86
T_NK	T_NK	0	MRT4	CD86
Fibroblast	T_NK	0	MRT4	CD86
Endothelial_Cell	T_NK	0	MRT4	CD86
Endothelial_Progenitor	T_NK	0	MRT4	CD86
Adipocyte	T_NK	0	MRT4	CD86
Unknown	T_NK	0	MRT4	CD86
MRT4	Fibroblast	0	MRT4	CD86
TAM	Fibroblast	0	MRT4	CD86
Monocyte	Fibroblast	0	MRT4	CD86
T_NK	Fibroblast	0	MRT4	CD86
Fibroblast	Fibroblast	0	MRT4	CD86
Endothelial_Cell	Fibroblast	0	MRT4	CD86
Endothelial_Progenitor	Fibroblast	0	MRT4	CD86
Adipocyte	Fibroblast	0	MRT4	CD86
Unknown	Fibroblast	0	MRT4	CD86
MRT4	Endothelial_Cell	0	MRT4	CD86
TAM	Endothelial_Cell	0	MRT4	CD86
Monocyte	Endothelial_Cell	0	MRT4	CD86
T_NK	Endothelial_Cell	0	MRT4	CD86
Fibroblast	Endothelial_Cell	0	MRT4	CD86
Endothelial_Cell	Endothelial_Cell	0	MRT4	CD86
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	CD86
Adipocyte	Endothelial_Cell	0	MRT4	CD86

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Cell	0	MRT4	CD86
MRT4	Endothelial_Progenitor	0	MRT4	CD86
TAM	Endothelial_Progenitor	0	MRT4	CD86
Monocyte	Endothelial_Progenitor	0	MRT4	CD86
T_NK	Endothelial_Progenitor	0	MRT4	CD86
Fibroblast	Endothelial_Progenitor	0	MRT4	CD86
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	CD86
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	CD86
Adipocyte	Endothelial_Progenitor	0	MRT4	CD86
Unknown	Endothelial_Progenitor	0	MRT4	CD86
MRT4	Adipocyte	0	MRT4	CD86
TAM	Adipocyte	0	MRT4	CD86
Monocyte	Adipocyte	0	MRT4	CD86
T_NK	Adipocyte	0	MRT4	CD86
Fibroblast	Adipocyte	0	MRT4	CD86
Endothelial_Cell	Adipocyte	0	MRT4	CD86
Endothelial_Progenitor	Adipocyte	0	MRT4	CD86
Adipocyte	Adipocyte	0	MRT4	CD86
Unknown	Adipocyte	0	MRT4	CD86
MRT4	Unknown	0	MRT4	CD86
TAM	Unknown	0	MRT4	CD86
Monocyte	Unknown	0	MRT4	CD86
T_NK	Unknown	0	MRT4	CD86
Fibroblast	Unknown	0	MRT4	CD86
Endothelial_Cell	Unknown	0	MRT4	CD86
Endothelial_Progenitor	Unknown	0	MRT4	CD86
Adipocyte	Unknown	0	MRT4	CD86
Unknown	Unknown	0	MRT4	CD86
MRT4	MRT4	0	MRT4	DESMOSOME
TAM	MRT4	0	MRT4	DESMOSOME

Source	Target	Probability	Sample	Pathway
Monocyte	MRT4	0	MRT4	DESMOSOME
T_NK	MRT4	0	MRT4	DESMOSOME
Fibroblast	MRT4	0	MRT4	DESMOSOME
Endothelial_Cell	MRT4	0	MRT4	DESMOSOME
Endothelial_Progenitor	MRT4	0	MRT4	DESMOSOME
Adipocyte	MRT4	0	MRT4	DESMOSOME
Unknown	MRT4	0	MRT4	DESMOSOME
MRT4	TAM	0	MRT4	DESMOSOME
TAM	TAM	0	MRT4	DESMOSOME
Monocyte	TAM	0	MRT4	DESMOSOME
T_NK	TAM	0	MRT4	DESMOSOME
Fibroblast	TAM	0	MRT4	DESMOSOME
Endothelial_Cell	TAM	0	MRT4	DESMOSOME
Endothelial_Progenitor	TAM	0	MRT4	DESMOSOME
Adipocyte	TAM	0	MRT4	DESMOSOME
Unknown	TAM	0	MRT4	DESMOSOME
MRT4	Monocyte	0	MRT4	DESMOSOME
TAM	Monocyte	0	MRT4	DESMOSOME
Monocyte	Monocyte	0	MRT4	DESMOSOME
T_NK	Monocyte	0	MRT4	DESMOSOME
Fibroblast	Monocyte	0	MRT4	DESMOSOME
Endothelial_Cell	Monocyte	0	MRT4	DESMOSOME
Endothelial_Progenitor	Monocyte	0	MRT4	DESMOSOME
Adipocyte	Monocyte	0	MRT4	DESMOSOME
Unknown	Monocyte	0	MRT4	DESMOSOME
MRT4	T_NK	0	MRT4	DESMOSOME
TAM	T_NK	0	MRT4	DESMOSOME
Monocyte	T_NK	0	MRT4	DESMOSOME
T_NK	T_NK	0	MRT4	DESMOSOME
Fibroblast	T_NK	0	MRT4	DESMOSOME

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	T_NK	0	MRT4	DESMOSOME
Endothelial_Progenitor	T_NK	0	MRT4	DESMOSOME
Adipocyte	T_NK	0	MRT4	DESMOSOME
Unknown	T_NK	0	MRT4	DESMOSOME
MRT4	Fibroblast	0	MRT4	DESMOSOME
TAM	Fibroblast	0	MRT4	DESMOSOME
Monocyte	Fibroblast	0	MRT4	DESMOSOME
T_NK	Fibroblast	0	MRT4	DESMOSOME
Fibroblast	Fibroblast	0	MRT4	DESMOSOME
Endothelial_Cell	Fibroblast	0	MRT4	DESMOSOME
Endothelial_Progenitor	Fibroblast	0	MRT4	DESMOSOME
Adipocyte	Fibroblast	0	MRT4	DESMOSOME
Unknown	Fibroblast	0	MRT4	DESMOSOME
MRT4	Endothelial_Cell	0	MRT4	DESMOSOME
TAM	Endothelial_Cell	0	MRT4	DESMOSOME
Monocyte	Endothelial_Cell	0	MRT4	DESMOSOME
T_NK	Endothelial_Cell	0	MRT4	DESMOSOME
Fibroblast	Endothelial_Cell	0	MRT4	DESMOSOME
Endothelial_Cell	Endothelial_Cell	0	MRT4	DESMOSOME
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	DESMOSOME
Adipocyte	Endothelial_Cell	0	MRT4	DESMOSOME
Unknown	Endothelial_Cell	0	MRT4	DESMOSOME
MRT4	Endothelial_Progenitor	0	MRT4	DESMOSOME
TAM	Endothelial_Progenitor	0	MRT4	DESMOSOME
Monocyte	Endothelial_Progenitor	0	MRT4	DESMOSOME
T_NK	Endothelial_Progenitor	0	MRT4	DESMOSOME
Fibroblast	Endothelial_Progenitor	0	MRT4	DESMOSOME
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	DESMOSOME
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	DESMOSOME
Adipocyte	Endothelial_Progenitor	0	MRT4	DESMOSOME

Source	Target	Probability	Sample	Pathway
Unknown	Endothelial_Progenitor	0	MRT4	DESMOSOME
MRT4	Adipocyte	0	MRT4	DESMOSOME
TAM	Adipocyte	0	MRT4	DESMOSOME
Monocyte	Adipocyte	0	MRT4	DESMOSOME
T_NK	Adipocyte	0	MRT4	DESMOSOME
Fibroblast	Adipocyte	0	MRT4	DESMOSOME
Endothelial_Cell	Adipocyte	0	MRT4	DESMOSOME
Endothelial_Progenitor	Adipocyte	0	MRT4	DESMOSOME
Adipocyte	Adipocyte	0	MRT4	DESMOSOME
Unknown	Adipocyte	0	MRT4	DESMOSOME
MRT4	Unknown	0	MRT4	DESMOSOME
TAM	Unknown	0	MRT4	DESMOSOME
Monocyte	Unknown	0	MRT4	DESMOSOME
T_NK	Unknown	0	MRT4	DESMOSOME
Fibroblast	Unknown	0	MRT4	DESMOSOME
Endothelial_Cell	Unknown	0	MRT4	DESMOSOME
Endothelial_Progenitor	Unknown	0	MRT4	DESMOSOME
Adipocyte	Unknown	0	MRT4	DESMOSOME
Unknown	Unknown	0.001813546173	MRT4	DESMOSOME
MRT4	MRT4	0	MRT4	ESAM
TAM	MRT4	0	MRT4	ESAM
Monocyte	MRT4	0	MRT4	ESAM
T_NK	MRT4	0	MRT4	ESAM
Fibroblast	MRT4	0	MRT4	ESAM
Endothelial_Cell	MRT4	0	MRT4	ESAM
Endothelial_Progenitor	MRT4	0	MRT4	ESAM
Adipocyte	MRT4	0	MRT4	ESAM
Unknown	MRT4	0	MRT4	ESAM
MRT4	TAM	0	MRT4	ESAM
TAM	TAM	0	MRT4	ESAM

Source	Target	Probability	Sample	Pathway
Monocyte	TAM	0	MRT4	ESAM
T_NK	TAM	0	MRT4	ESAM
Fibroblast	TAM	0	MRT4	ESAM
Endothelial_Cell	TAM	0	MRT4	ESAM
Endothelial_Progenitor	TAM	0	MRT4	ESAM
Adipocyte	TAM	0	MRT4	ESAM
Unknown	TAM	0	MRT4	ESAM
MRT4	Monocyte	0	MRT4	ESAM
TAM	Monocyte	0	MRT4	ESAM
Monocyte	Monocyte	0	MRT4	ESAM
T_NK	Monocyte	0	MRT4	ESAM
Fibroblast	Monocyte	0	MRT4	ESAM
Endothelial_Cell	Monocyte	0	MRT4	ESAM
Endothelial_Progenitor	Monocyte	0	MRT4	ESAM
Adipocyte	Monocyte	0	MRT4	ESAM
Unknown	Monocyte	0	MRT4	ESAM
MRT4	T_NK	0	MRT4	ESAM
TAM	T_NK	0	MRT4	ESAM
Monocyte	T_NK	0	MRT4	ESAM
T_NK	T_NK	0	MRT4	ESAM
Fibroblast	T_NK	0	MRT4	ESAM
Endothelial_Cell	T_NK	0	MRT4	ESAM
Endothelial_Progenitor	T_NK	0	MRT4	ESAM
Adipocyte	T_NK	0	MRT4	ESAM
Unknown	T_NK	0	MRT4	ESAM
MRT4	Fibroblast	0	MRT4	ESAM
TAM	Fibroblast	0	MRT4	ESAM
Monocyte	Fibroblast	0	MRT4	ESAM
T_NK	Fibroblast	0	MRT4	ESAM
Fibroblast	Fibroblast	0	MRT4	ESAM

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Fibroblast	0	MRT4	ESAM
Endothelial_Progenitor	Fibroblast	0	MRT4	ESAM
Adipocyte	Fibroblast	0	MRT4	ESAM
Unknown	Fibroblast	0	MRT4	ESAM
MRT4	Endothelial_Cell	0	MRT4	ESAM
TAM	Endothelial_Cell	0	MRT4	ESAM
Monocyte	Endothelial_Cell	0	MRT4	ESAM
T_NK	Endothelial_Cell	0	MRT4	ESAM
Fibroblast	Endothelial_Cell	0	MRT4	ESAM
Endothelial_Cell	Endothelial_Cell	0	MRT4	ESAM
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ESAM
Adipocyte	Endothelial_Cell	0	MRT4	ESAM
Unknown	Endothelial_Cell	0	MRT4	ESAM
MRT4	Endothelial_Progenitor	0	MRT4	ESAM
TAM	Endothelial_Progenitor	0	MRT4	ESAM
Monocyte	Endothelial_Progenitor	0	MRT4	ESAM
T_NK	Endothelial_Progenitor	0	MRT4	ESAM
Fibroblast	Endothelial_Progenitor	0	MRT4	ESAM
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ESAM
Endothelial_Progenitor	Endothelial_Progenitor	0.001813546173	MRT4	ESAM
Adipocyte	Endothelial_Progenitor	0	MRT4	ESAM
Unknown	Endothelial_Progenitor	0	MRT4	ESAM
MRT4	Adipocyte	0	MRT4	ESAM
TAM	Adipocyte	0	MRT4	ESAM
Monocyte	Adipocyte	0	MRT4	ESAM
T_NK	Adipocyte	0	MRT4	ESAM
Fibroblast	Adipocyte	0	MRT4	ESAM
Endothelial_Cell	Adipocyte	0	MRT4	ESAM
Endothelial_Progenitor	Adipocyte	0	MRT4	ESAM
Adipocyte	Adipocyte	0	MRT4	ESAM

Source	Target	Probability	Sample	Pathway
Unknown	Adipocyte	0	MRT4	ESAM
MRT4	Unknown	0	MRT4	ESAM
TAM	Unknown	0	MRT4	ESAM
Monocyte	Unknown	0	MRT4	ESAM
T_NK	Unknown	0	MRT4	ESAM
Fibroblast	Unknown	0	MRT4	ESAM
Endothelial_Cell	Unknown	0	MRT4	ESAM
Endothelial_Progenitor	Unknown	0	MRT4	ESAM
Adipocyte	Unknown	0	MRT4	ESAM
Unknown	Unknown	0	MRT4	ESAM
MRT4	MRT4	0	MRT4	ITGB2
TAM	MRT4	0	MRT4	ITGB2
Monocyte	MRT4	0	MRT4	ITGB2
T_NK	MRT4	0	MRT4	ITGB2
Fibroblast	MRT4	0	MRT4	ITGB2
Endothelial_Cell	MRT4	0	MRT4	ITGB2
Endothelial_Progenitor	MRT4	0	MRT4	ITGB2
Adipocyte	MRT4	0	MRT4	ITGB2
Unknown	MRT4	0	MRT4	ITGB2
MRT4	TAM	0	MRT4	ITGB2
TAM	TAM	0.001813546173	MRT4	ITGB2
Monocyte	TAM	0	MRT4	ITGB2
T_NK	TAM	0	MRT4	ITGB2
Fibroblast	TAM	0	MRT4	ITGB2
Endothelial_Cell	TAM	0	MRT4	ITGB2
Endothelial_Progenitor	TAM	0	MRT4	ITGB2
Adipocyte	TAM	0	MRT4	ITGB2
Unknown	TAM	0	MRT4	ITGB2
MRT4	Monocyte	0	MRT4	ITGB2
TAM	Monocyte	0	MRT4	ITGB2

Source	Target	Probability	Sample	Pathway
Monocyte	Monocyte	0	MRT4	ITGB2
T_NK	Monocyte	0	MRT4	ITGB2
Fibroblast	Monocyte	0	MRT4	ITGB2
Endothelial_Cell	Monocyte	0	MRT4	ITGB2
Endothelial_Progenitor	Monocyte	0	MRT4	ITGB2
Adipocyte	Monocyte	0	MRT4	ITGB2
Unknown	Monocyte	0	MRT4	ITGB2
MRT4	T_NK	0	MRT4	ITGB2
TAM	T_NK	0	MRT4	ITGB2
Monocyte	T_NK	0	MRT4	ITGB2
T_NK	T_NK	0	MRT4	ITGB2
Fibroblast	T_NK	0	MRT4	ITGB2
Endothelial_Cell	T_NK	0	MRT4	ITGB2
Endothelial_Progenitor	T_NK	0	MRT4	ITGB2
Adipocyte	T_NK	0	MRT4	ITGB2
Unknown	T_NK	0	MRT4	ITGB2
MRT4	Fibroblast	0	MRT4	ITGB2
TAM	Fibroblast	0	MRT4	ITGB2
Monocyte	Fibroblast	0	MRT4	ITGB2
T_NK	Fibroblast	0	MRT4	ITGB2
Fibroblast	Fibroblast	0	MRT4	ITGB2
Endothelial_Cell	Fibroblast	0	MRT4	ITGB2
Endothelial_Progenitor	Fibroblast	0	MRT4	ITGB2
Adipocyte	Fibroblast	0	MRT4	ITGB2
Unknown	Fibroblast	0	MRT4	ITGB2
MRT4	Endothelial_Cell	0	MRT4	ITGB2
TAM	Endothelial_Cell	0	MRT4	ITGB2
Monocyte	Endothelial_Cell	0	MRT4	ITGB2
T_NK	Endothelial_Cell	0	MRT4	ITGB2
Fibroblast	Endothelial_Cell	0	MRT4	ITGB2

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Cell	0	MRT4	ITGB2
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ITGB2
Adipocyte	Endothelial_Cell	0	MRT4	ITGB2
Unknown	Endothelial_Cell	0	MRT4	ITGB2
MRT4	Endothelial_Progenitor	0	MRT4	ITGB2
TAM	Endothelial_Progenitor	0	MRT4	ITGB2
Monocyte	Endothelial_Progenitor	0	MRT4	ITGB2
T_NK	Endothelial_Progenitor	0	MRT4	ITGB2
Fibroblast	Endothelial_Progenitor	0	MRT4	ITGB2
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ITGB2
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ITGB2
Adipocyte	Endothelial_Progenitor	0	MRT4	ITGB2
Unknown	Endothelial_Progenitor	0	MRT4	ITGB2
MRT4	Adipocyte	0	MRT4	ITGB2
TAM	Adipocyte	0	MRT4	ITGB2
Monocyte	Adipocyte	0	MRT4	ITGB2
T_NK	Adipocyte	0	MRT4	ITGB2
Fibroblast	Adipocyte	0	MRT4	ITGB2
Endothelial_Cell	Adipocyte	0	MRT4	ITGB2
Endothelial_Progenitor	Adipocyte	0	MRT4	ITGB2
Adipocyte	Adipocyte	0	MRT4	ITGB2
Unknown	Adipocyte	0	MRT4	ITGB2
MRT4	Unknown	0	MRT4	ITGB2
TAM	Unknown	0	MRT4	ITGB2
Monocyte	Unknown	0	MRT4	ITGB2
T_NK	Unknown	0	MRT4	ITGB2
Fibroblast	Unknown	0	MRT4	ITGB2
Endothelial_Cell	Unknown	0	MRT4	ITGB2
Endothelial_Progenitor	Unknown	0	MRT4	ITGB2
Adipocyte	Unknown	0	MRT4	ITGB2

Source	Target	Probability	Sample	Pathway
Unknown	Unknown	0	MRT4	ITGB2
MRT4	MRT4	0	MRT4	ICAM
TAM	MRT4	0	MRT4	ICAM
Monocyte	MRT4	0	MRT4	ICAM
T_NK	MRT4	0	MRT4	ICAM
Fibroblast	MRT4	0	MRT4	ICAM
Endothelial_Cell	MRT4	0	MRT4	ICAM
Endothelial_Progenitor	MRT4	0	MRT4	ICAM
Adipocyte	MRT4	0	MRT4	ICAM
Unknown	MRT4	0	MRT4	ICAM
MRT4	TAM	0	MRT4	ICAM
TAM	TAM	0.001813546173	MRT4	ICAM
Monocyte	TAM	0	MRT4	ICAM
T_NK	TAM	0	MRT4	ICAM
Fibroblast	TAM	0	MRT4	ICAM
Endothelial_Cell	TAM	0	MRT4	ICAM
Endothelial_Progenitor	TAM	0	MRT4	ICAM
Adipocyte	TAM	0	MRT4	ICAM
Unknown	TAM	0	MRT4	ICAM
MRT4	Monocyte	0	MRT4	ICAM
TAM	Monocyte	0	MRT4	ICAM
Monocyte	Monocyte	0	MRT4	ICAM
T_NK	Monocyte	0	MRT4	ICAM
Fibroblast	Monocyte	0	MRT4	ICAM
Endothelial_Cell	Monocyte	0	MRT4	ICAM
Endothelial_Progenitor	Monocyte	0	MRT4	ICAM
Adipocyte	Monocyte	0	MRT4	ICAM
Unknown	Monocyte	0	MRT4	ICAM
MRT4	T_NK	0	MRT4	ICAM
TAM	T_NK	0	MRT4	ICAM

Source	Target	Probability	Sample	Pathway
Monocyte	T_NK	0	MRT4	ICAM
T_NK	T_NK	0	MRT4	ICAM
Fibroblast	T_NK	0	MRT4	ICAM
Endothelial_Cell	T_NK	0	MRT4	ICAM
Endothelial_Progenitor	T_NK	0	MRT4	ICAM
Adipocyte	T_NK	0	MRT4	ICAM
Unknown	T_NK	0	MRT4	ICAM
MRT4	Fibroblast	0	MRT4	ICAM
TAM	Fibroblast	0	MRT4	ICAM
Monocyte	Fibroblast	0	MRT4	ICAM
T_NK	Fibroblast	0	MRT4	ICAM
Fibroblast	Fibroblast	0	MRT4	ICAM
Endothelial_Cell	Fibroblast	0	MRT4	ICAM
Endothelial_Progenitor	Fibroblast	0	MRT4	ICAM
Adipocyte	Fibroblast	0	MRT4	ICAM
Unknown	Fibroblast	0	MRT4	ICAM
MRT4	Endothelial_Cell	0	MRT4	ICAM
TAM	Endothelial_Cell	0	MRT4	ICAM
Monocyte	Endothelial_Cell	0	MRT4	ICAM
T_NK	Endothelial_Cell	0	MRT4	ICAM
Fibroblast	Endothelial_Cell	0	MRT4	ICAM
Endothelial_Cell	Endothelial_Cell	0	MRT4	ICAM
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	ICAM
Adipocyte	Endothelial_Cell	0	MRT4	ICAM
Unknown	Endothelial_Cell	0	MRT4	ICAM
MRT4	Endothelial_Progenitor	0	MRT4	ICAM
TAM	Endothelial_Progenitor	0	MRT4	ICAM
Monocyte	Endothelial_Progenitor	0	MRT4	ICAM
T_NK	Endothelial_Progenitor	0	MRT4	ICAM
Fibroblast	Endothelial_Progenitor	0	MRT4	ICAM

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	ICAM
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	ICAM
Adipocyte	Endothelial_Progenitor	0	MRT4	ICAM
Unknown	Endothelial_Progenitor	0	MRT4	ICAM
MRT4	Adipocyte	0	MRT4	ICAM
TAM	Adipocyte	0	MRT4	ICAM
Monocyte	Adipocyte	0	MRT4	ICAM
T_NK	Adipocyte	0	MRT4	ICAM
Fibroblast	Adipocyte	0	MRT4	ICAM
Endothelial_Cell	Adipocyte	0	MRT4	ICAM
Endothelial_Progenitor	Adipocyte	0	MRT4	ICAM
Adipocyte	Adipocyte	0	MRT4	ICAM
Unknown	Adipocyte	0	MRT4	ICAM
MRT4	Unknown	0	MRT4	ICAM
TAM	Unknown	0	MRT4	ICAM
Monocyte	Unknown	0	MRT4	ICAM
T_NK	Unknown	0	MRT4	ICAM
Fibroblast	Unknown	0	MRT4	ICAM
Endothelial_Cell	Unknown	0	MRT4	ICAM
Endothelial_Progenitor	Unknown	0	MRT4	ICAM
Adipocyte	Unknown	0	MRT4	ICAM
Unknown	Unknown	0	MRT4	ICAM
MRT4	MRT4	0	MRT4	THY1
TAM	MRT4	0	MRT4	THY1
Monocyte	MRT4	0	MRT4	THY1
T_NK	MRT4	0	MRT4	THY1
Fibroblast	MRT4	0	MRT4	THY1
Endothelial_Cell	MRT4	0	MRT4	THY1
Endothelial_Progenitor	MRT4	0	MRT4	THY1
Adipocyte	MRT4	0	MRT4	THY1

Source	Target	Probability	Sample	Pathway
Unknown	MRT4	0	MRT4	THY1
MRT4	TAM	0	MRT4	THY1
TAM	TAM	0	MRT4	THY1
Monocyte	TAM	0	MRT4	THY1
T_NK	TAM	0	MRT4	THY1
Fibroblast	TAM	0.001813546173	MRT4	THY1
Endothelial_Cell	TAM	0	MRT4	THY1
Endothelial_Progenitor	TAM	0	MRT4	THY1
Adipocyte	TAM	0	MRT4	THY1
Unknown	TAM	0	MRT4	THY1
MRT4	Monocyte	0	MRT4	THY1
TAM	Monocyte	0	MRT4	THY1
Monocyte	Monocyte	0	MRT4	THY1
T_NK	Monocyte	0	MRT4	THY1
Fibroblast	Monocyte	0	MRT4	THY1
Endothelial_Cell	Monocyte	0	MRT4	THY1
Endothelial_Progenitor	Monocyte	0	MRT4	THY1
Adipocyte	Monocyte	0	MRT4	THY1
Unknown	Monocyte	0	MRT4	THY1
MRT4	T_NK	0	MRT4	THY1
TAM	T_NK	0	MRT4	THY1
Monocyte	T_NK	0	MRT4	THY1
T_NK	T_NK	0	MRT4	THY1
Fibroblast	T_NK	0	MRT4	THY1
Endothelial_Cell	T_NK	0	MRT4	THY1
Endothelial_Progenitor	T_NK	0	MRT4	THY1
Adipocyte	T_NK	0	MRT4	THY1
Unknown	T_NK	0	MRT4	THY1
MRT4	Fibroblast	0	MRT4	THY1
TAM	Fibroblast	0	MRT4	THY1

Source	Target	Probability	Sample	Pathway
Monocyte	Fibroblast	0	MRT4	THY1
T_NK	Fibroblast	0	MRT4	THY1
Fibroblast	Fibroblast	0	MRT4	THY1
Endothelial_Cell	Fibroblast	0	MRT4	THY1
Endothelial_Progenitor	Fibroblast	0	MRT4	THY1
Adipocyte	Fibroblast	0	MRT4	THY1
Unknown	Fibroblast	0	MRT4	THY1
MRT4	Endothelial_Cell	0	MRT4	THY1
TAM	Endothelial_Cell	0	MRT4	THY1
Monocyte	Endothelial_Cell	0	MRT4	THY1
T_NK	Endothelial_Cell	0	MRT4	THY1
Fibroblast	Endothelial_Cell	0	MRT4	THY1
Endothelial_Cell	Endothelial_Cell	0	MRT4	THY1
Endothelial_Progenitor	Endothelial_Cell	0	MRT4	THY1
Adipocyte	Endothelial_Cell	0	MRT4	THY1
Unknown	Endothelial_Cell	0	MRT4	THY1
MRT4	Endothelial_Progenitor	0	MRT4	THY1
TAM	Endothelial_Progenitor	0	MRT4	THY1
Monocyte	Endothelial_Progenitor	0	MRT4	THY1
T_NK	Endothelial_Progenitor	0	MRT4	THY1
Fibroblast	Endothelial_Progenitor	0	MRT4	THY1
Endothelial_Cell	Endothelial_Progenitor	0	MRT4	THY1
Endothelial_Progenitor	Endothelial_Progenitor	0	MRT4	THY1
Adipocyte	Endothelial_Progenitor	0	MRT4	THY1
Unknown	Endothelial_Progenitor	0	MRT4	THY1
MRT4	Adipocyte	0	MRT4	THY1
TAM	Adipocyte	0	MRT4	THY1
Monocyte	Adipocyte	0	MRT4	THY1
T_NK	Adipocyte	0	MRT4	THY1
Fibroblast	Adipocyte	0	MRT4	THY1

Source	Target	Probability	Sample	Pathway
Endothelial_Cell	Adipocyte	0	MRT4	THY1
Endothelial_Progenitor	Adipocyte	0	MRT4	THY1
Adipocyte	Adipocyte	0	MRT4	THY1
Unknown	Adipocyte	0	MRT4	THY1
MRT4	Unknown	0	MRT4	THY1
TAM	Unknown	0	MRT4	THY1
Monocyte	Unknown	0	MRT4	THY1
T_NK	Unknown	0	MRT4	THY1
Fibroblast	Unknown	0	MRT4	THY1
Endothelial_Cell	Unknown	0	MRT4	THY1
Endothelial_Progenitor	Unknown	0	MRT4	THY1
Adipocyte	Unknown	0	MRT4	THY1
Unknown	Unknown	0	MRT4	THY1

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CRYAB	0.998	2.294629536	0.996	3.310450652	0.999	0.268	G401	
AC105402.3	0.996	2.714769911	0.992	3.916585087	0.993	0.192	G401	
MT-CO2	0.988	2.245748789	0.976	3.239930641	1	0.987	G401	
MT-CO3	0.976	1.821528671	0.952	2.62791038	1	0.993	G401	
KRT18	0.975	1.682320034	0.95	2.42707477	0.967	0.073	G401	
FRMD4A	0.972	2.127721897	0.944	3.069653829	0.986	0.243	G401	
SYT14	0.97	1.682808063	0.94	2.427778847	0.97	0.135	G401	
SLC8A1	0.963	1.868115011	0.926	2.695120262	0.986	0.227	G401	
CGNL1	0.956	1.432923457	0.912	2.067271565	0.934	0.039	G401	
MITF	0.952	1.459298954	0.904	2.105323364	0.95	0.113	G401	
NTNG1	0.952	1.59511845	0.904	2.301269478	0.963	0.154	G401	
FAM169A	0.95	1.392308127	0.9	2.008676031	0.942	0.123	G401	
MME	0.95	1.588283487	0.9	2.29140871	0.912	0.033	G401	
MT-ND1	0.948	1.402430753	0.896	2.023279892	0.999	0.946	G401	
FTL	0.944	1.085541677	0.888	1.566105594	1	0.738	G401	
NUPR1	0.944	1.365751649	0.888	1.970363131	0.93	0.105	G401	
AL357522.1	0.941	1.39281987	0.882	2.009414319	0.885	0.006	G401	
RBPJ	0.939	1.128262701	0.878	1.627739003	0.991	0.635	G401	
IQGAP2	0.938	1.261184654	0.876	1.819504846	0.92	0.054	G401	
GCHFR	0.937	1.251397784	0.874	1.805385377	0.901	0.062	G401	
KRT8	0.935	1.218345021	0.87	1.75770032	0.903	0.062	G401	
AC044810.2	0.935	1.503946121	0.87	2.169735611	0.872	0.005	G401	
PRKG1	0.934	1.61603919	0.868	2.331451726	0.986	0.362	G401	
MAP9	0.933	1.331015092	0.866	1.920248873	0.907	0.122	G401	
HS6ST2	0.932	1.411315664	0.864	2.03609811	0.883	0.032	G401	
HSBP1	0.931	1.19158678	0.862	1.719096338	0.952	0.277	G401	
GLIS3	0.928	1.457977261	0.856	2.103416565	0.953	0.202	G401	
EMP1	0.927	1.309398995	0.854	1.889063436	0.981	0.427	G401	
AC078845.1	0.927	1.458028974	0.854	2.103491171	0.856	0.006	G401	
BST2	0.926	1.156399526	0.852	1.668331861	0.97	0.353	G401	
MEIS2	0.926	1.321599792	0.852	1.906665466	0.915	0.115	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
GCNT4	0.918	1.153230853	0.836	1.663760433	0.841	0.009	G401	
CREG1	0.918	1.122758867	0.836	1.61979865	0.852	0.027	G401	
DLGAP1	0.914	1.391157431	0.828	2.007015926	0.877	0.097	G401	
GPC3	0.913	1.185253313	0.826	1.709959078	0.986	0.293	G401	
LNCAROD	0.912	1.204793695	0.824	1.73814989	0.838	0.016	G401	
MT-ND4	0.91	1.109065437	0.82	1.600043206	0.999	0.953	G401	
FIGN	0.91	1.259738249	0.82	1.817418125	0.855	0.054	G401	
AC069277.1	0.909	1.203429627	0.818	1.736181954	0.821	0.005	G401	
HSP90AB1	0.908	1.007420536	0.816	1.453400612	0.999	0.914	G401	
FTH1	0.907	0.94308664	0.814	1.360586419	0.997	0.772	G401	
F2R	0.906	0.9984439843	0.812	1.440450185	0.839	0.04	G401	
OSBPL10	0.904	1.059943098	0.808	1.529174651	0.852	0.051	G401	
MT-ATP8	0.903	1.03106165	0.806	1.487507529	0.986	0.71	G401	
GPM6B	0.9	1.08702959	0.8	1.568252199	0.846	0.06	G401	
APOE	0.9	1.062096658	0.8	1.532281582	0.991	0.607	G401	
MT-ND2	0.898	1.052797714	0.796	1.518866041	0.998	0.904	G401	
RIMBP2	0.898	0.9856382547	0.796	1.421975422	0.803	0.009	G401	
CCT8	0.897	1.00718543	0.794	1.453061425	0.945	0.41	G401	
PROCR	0.897	1.099287121	0.794	1.585936078	0.855	0.111	G401	
APOC1	0.897	0.9961458942	0.794	1.437134742	0.881	0.149	G401	
TP53I11	0.895	1.095957827	0.79	1.581132923	0.802	0.022	G401	
MT-ND3	0.894	1.032986573	0.788	1.490284606	0.999	0.949	G401	
MT-CO1	0.892	0.8935474608	0.784	1.289116491	0.999	0.976	G401	
UCA1	0.892	0.9547015894	0.784	1.377343249	0.784	0	G401	
CHD4	0.886	0.9160958234	0.772	1.321646901	0.963	0.532	G401	
PSG4	0.884	1.206861845	0.768	1.741133598	0.769	0.001	G401	
NDUFC2	0.884	0.9429413615	0.768	1.360376826	0.961	0.489	G401	
PSMA7	0.883	0.8831612021	0.766	1.274132287	0.979	0.639	G401	
DKK1	0.878	0.9470720187	0.756	1.366336105	0.774	0.023	G401	
MACO1	0.878	1.024755642	0.756	1.478409883	0.853	0.178	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SRRM2	0.874	0.7737449597	0.748	1.116278016	0.991	0.873	G401	
GSTP1	0.872	0.8439118483	0.744	1.217507439	0.972	0.587	G401	
PSG9	0.87	1.280806588	0.74	1.847813313	0.741	0.002	G401	
FHAD1	0.87	0.9409828439	0.74	1.357551283	0.751	0.016	G401	
ZNF521	0.864	0.8789578959	0.728	1.268068198	0.801	0.057	G401	
KDELR1	0.862	0.7843650261	0.724	1.131599533	0.966	0.65	G401	
ZNF106	0.862	0.9475313631	0.724	1.366998799	0.937	0.494	G401	
IDH1	0.861	0.8743594299	0.722	1.261434014	0.792	0.096	G401	
FADS1	0.859	0.8729025636	0.718	1.2593322	0.88	0.281	G401	
CYBA	0.858	0.8347938283	0.716	1.204352916	0.891	0.281	G401	
TMEM160	0.857	0.8093006413	0.714	1.167574022	0.854	0.202	G401	
ERI1	0.857	0.894755134	0.714	1.290858795	0.816	0.147	G401	
SET	0.856	0.7845639736	0.712	1.131886554	0.966	0.632	G401	
RFLNB	0.854	0.8950136087	0.708	1.291231695	0.756	0.069	G401	
UBE4B	0.854	1.008257862	0.708	1.454608617	0.925	0.491	G401	
NQO2	0.851	0.9779397432	0.702	1.410868818	0.766	0.095	G401	
LINC01483	0.85	0.929058257	0.7	1.34034774	0.714	0.016	G401	
MT-ATP6	0.849	0.7905362287	0.698	1.140502697	1	0.975	G401	
LIN28B	0.849	0.8134380489	0.698	1.173543039	0.784	0.093	G401	
EIF3F	0.848	0.7954953188	0.696	1.147657151	0.922	0.411	G401	
H2AFZ	0.848	0.8301724859	0.696	1.197685729	0.928	0.43	G401	
SCD	0.847	0.8135102483	0.694	1.173647201	0.879	0.283	G401	
FGFR2	0.845	0.8473949756	0.69	1.222532529	0.908	0.244	G401	
DNAJC1	0.845	0.8321129758	0.69	1.200485264	0.943	0.496	G401	
ADARB1	0.844	0.9674089028	0.688	1.395676027	0.807	0.18	G401	
MT-CYB	0.843	0.746538377	0.686	1.077027214	0.999	0.967	G401	
NFE2L3	0.842	0.8136308749	0.684	1.173821228	0.699	0.018	G401	
IQCH-AS1	0.841	1.005717264	0.682	1.450943309	0.743	0.087	G401	
DUXAP8	0.838	0.7434641637	0.676	1.072592062	0.802	0.142	G401	
METRNL	0.838	0.8229274699	0.676	1.18723338	0.772	0.123	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
YBX1	0.836	0.7197837788	0.672	1.038428488	0.965	0.661	G401	
LAYN	0.835	0.8552250514	0.67	1.23382894	0.681	0.013	G401	
SNCA	0.835	0.8016510044	0.67	1.156537929	0.863	0.201	G401	
CXADR	0.834	0.8410214976	0.668	1.213337544	0.77	0.123	G401	
HEXB	0.834	0.7425406264	0.668	1.071259679	0.782	0.143	G401	
PLCH1	0.834	0.8389317092	0.668	1.210322616	0.693	0.027	G401	
NPC2	0.833	0.720218289	0.666	1.039055354	0.792	0.154	G401	
ID3	0.833	0.7019508436	0.666	1.012701001	0.855	0.194	G401	
COL11A1	0.832	0.9824419141	0.664	1.417364077	0.986	0.802	G401	
KIAA1324L	0.828	0.7774673039	0.656	1.121648224	0.696	0.045	G401	
AQR	0.825	0.77701686	0.65	1.120998371	0.863	0.336	G401	
SMARCA4	0.823	0.7045211332	0.646	1.016409145	0.932	0.545	G401	
MT-ND5	0.822	0.6355980491	0.644	0.9169741534	0.995	0.891	G401	
HSP90AA1	0.822	0.6417351334	0.644	0.9258280945	0.997	0.925	G401	
HMGCR	0.822	0.7572644744	0.644	1.092501702	0.841	0.279	G401	
SALL4	0.82	0.7045239992	0.64	1.01641328	0.732	0.1	G401	
CTSF	0.82	0.7428711767	0.64	1.071736563	0.701	0.079	G401	
PRKDC	0.82	0.6252019434	0.64	0.9019757433	0.989	0.913	G401	
PURPL	0.82	0.78247792	0.64	1.128877015	0.701	0.055	G401	
NCL	0.82	0.7641003732	0.64	1.102363819	0.963	0.769	G401	
CD177	0.818	0.7558043707	0.636	1.090395218	0.638	0.003	G401	
ABCG2	0.818	0.8863900139	0.636	1.278790477	0.64	0.005	G401	
FBXO28	0.818	0.7543044461	0.636	1.088231284	0.804	0.233	G401	
NASP	0.818	0.729028441	0.636	1.051765716	0.923	0.535	G401	
LMX1B	0.816	0.6964780925	0.632	1.00480549	0.647	0.016	G401	
BEX1	0.815	0.6977228881	0.63	1.006601351	0.704	0.085	G401	
AC116337.3	0.815	0.7988479407	0.63	1.152493963	0.631	0.002	G401	
FRMD4B	0.815	0.8045578446	0.63	1.160731612	0.785	0.165	G401	
PSG8	0.814	1.026289698	0.628	1.480623058	0.629	0.003	G401	
NDUFB8	0.814	0.6673824711	0.628	0.9628293815	0.896	0.413	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PCAT1	0.814	0.9486893607	0.628	1.368669436	0.748	0.143	G401	
GJA1	0.814	0.7222200726	0.628	1.041943317	0.934	0.309	G401	
ID1	0.813	0.6733432785	0.626	0.9714290087	0.813	0.208	G401	
FERMT2	0.813	0.6589528106	0.626	0.9506679521	0.973	0.74	G401	
PRKCA	0.812	0.7778015765	0.624	1.122130477	0.831	0.254	G401	
AC024084.1	0.812	0.7552425473	0.624	1.089584678	0.626	0.002	G401	
KIDINS220	0.811	0.8883045253	0.622	1.281552533	0.864	0.458	G401	
MT-ND4L	0.81	0.5472857378	0.62	0.7895664199	0.984	0.699	G401	
PFN1	0.81	0.5852366877	0.62	0.8443180671	0.993	0.834	G401	
ZFP36L2	0.81	0.687941506	0.62	0.9924897991	0.77	0.176	G401	
OTX2	0.809	0.7108970673	0.618	1.025607674	0.619	0	G401	
TM4SF1	0.806	0.6594130411	0.612	0.9513319243	0.852	0.229	G401	
WLS	0.806	0.669751102	0.612	0.9662465935	0.741	0.13	G401	
DSP	0.805	0.7206167523	0.61	1.039630215	0.856	0.259	G401	
GLCCI1	0.804	0.7659911575	0.608	1.105091644	0.764	0.181	G401	
ST3GAL5	0.804	0.7508494914	0.608	1.083246838	0.648	0.043	G401	
GPC4	0.803	0.6839740855	0.606	0.9867660213	0.651	0.044	G401	
ETHE1	0.803	0.6280060996	0.606	0.9060212855	0.704	0.114	G401	
PPM1G	0.803	0.6705666775	0.606	0.9674232201	0.843	0.344	G401	
PARP1	0.803	0.6612417777	0.606	0.9539702336	0.852	0.353	G401	
NDUFS5	0.803	0.6099395769	0.606	0.8799568029	0.942	0.532	G401	
RPL8	0.802	0.5290202424	0.604	0.7632148803	0.999	0.943	G401	
DPCD	0.801	0.6388651612	0.602	0.9216875998	0.693	0.104	G401	
SNRPF	0.8	0.6322718265	0.6	0.9121754286	0.848	0.329	G401	
ZFYVE26	0.798	0.6729084608	0.596	0.9708016993	0.705	0.133	G401	
MICU3	0.798	0.7758630025	0.596	1.119333706	0.793	0.279	G401	
EML4	0.798	0.6535488796	0.596	0.9428717276	0.926	0.539	G401	
PPM1H	0.797	0.7595069454	0.594	1.095736904	0.635	0.042	G401	
PPIA	0.797	0.566128118	0.594	0.8167502284	0.982	0.789	G401	
KIF26B	0.797	0.84058217	0.594	1.212703728	0.74	0.157	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TUBB	0.796	0.6390151438	0.592	0.921903979	0.952	0.659	G401	
RPL18	0.795	0.4942822611	0.59	0.7130985669	0.999	0.957	G401	
HLTF	0.795	0.6428344894	0.59	0.9274141299	0.859	0.382	G401	
CTNNBIP1	0.795	0.6672764013	0.59	0.9626763551	0.752	0.196	G401	
FGFBP3	0.794	0.6393820739	0.588	0.9224333473	0.78	0.183	G401	
HPS3	0.794	0.6688141032	0.588	0.96489479	0.669	0.096	G401	
KTN1	0.793	0.5492130528	0.586	0.7923469477	0.976	0.789	G401	
BTBD11	0.792	1.047946704	0.584	1.511867513	0.604	0.023	G401	
MMRN1	0.792	0.6754448289	0.584	0.9744609051	0.662	0.075	G401	
OSBPL1A	0.791	0.6290566793	0.582	0.9075369517	0.799	0.259	G401	
RBM47	0.79	0.6131115419	0.58	0.884532981	0.675	0.081	G401	
HMGB1	0.789	0.5630333902	0.578	0.8122854799	0.992	0.919	G401	
TENM4	0.789	0.6817273436	0.578	0.9835246579	0.619	0.033	G401	
H2AFV	0.789	0.6084612218	0.578	0.8778239872	0.841	0.345	G401	
HSPE1	0.789	0.5806199766	0.578	0.8376575609	0.914	0.472	G401	
TMEM9	0.789	0.6104517664	0.578	0.8806957361	0.701	0.142	G401	
SNRPD2	0.788	0.5829326486	0.576	0.8409940414	0.926	0.528	G401	
STK17A	0.788	0.6522034836	0.576	0.9409307314	0.673	0.112	G401	
CUTA	0.788	0.6003289568	0.576	0.8660916089	0.873	0.397	G401	
LINC01266	0.788	1.098294794	0.576	1.584504453	0.676	0.127	G401	
PSMB6	0.787	0.5973496754	0.574	0.8617934144	0.818	0.295	G401	
TKT	0.787	0.6179104341	0.574	0.8914563189	0.758	0.228	G401	
NEBL	0.786	0.7427082955	0.572	1.071501575	0.874	0.374	G401	
MLEC	0.785	0.6086075423	0.57	0.8780350832	0.871	0.441	G401	
F2RL2	0.785	0.6207033564	0.57	0.8954856542	0.573	0.004	G401	
ATP5IF1	0.785	0.5786011499	0.57	0.8347450097	0.843	0.332	G401	
GRAMD1B	0.784	0.693425302	0.568	1.000401244	0.584	0.017	G401	
LGI1	0.784	0.6320141883	0.568	0.9118037352	0.569	0.001	G401	
H2AFY	0.784	0.5974157175	0.568	0.861888693	0.889	0.481	G401	
NDUFB11	0.783	0.5798371357	0.566	0.8365281601	0.864	0.389	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LSM7	0.783	0.5788525032	0.566	0.8351076358	0.87	0.4	G401	
BANF1	0.783	0.5752069795	0.566	0.8298482568	0.816	0.294	G401	
LSM5	0.782	0.5842987195	0.564	0.842964865	0.74	0.205	G401	
PSMB1	0.782	0.5766968301	0.564	0.8319976569	0.894	0.471	G401	
EIF3A	0.781	0.5767717087	0.562	0.8321056839	0.945	0.696	G401	
PRKAG2	0.78	0.6481953586	0.56	0.9351482294	0.716	0.163	G401	
HMG A1	0.78	0.5750660348	0.56	0.8296449166	0.678	0.128	G401	
HSPD1	0.779	0.5576743694	0.558	0.8045540471	0.949	0.686	G401	
H3F3A	0.779	0.4952673966	0.558	0.7145198171	0.996	0.906	G401	
CENPF	0.779	0.879818535	0.558	1.269309837	0.846	0.435	G401	
CRY1	0.777	0.7307944598	0.554	1.054313543	0.718	0.2	G401	
TUBA1B	0.776	0.5989248187	0.552	0.8640658658	0.932	0.624	G401	
SSRP1	0.776	0.5798416126	0.552	0.836534619	0.697	0.173	G401	
BLVRA	0.776	0.5746740968	0.552	0.8290794695	0.619	0.075	G401	
PSG3	0.775	0.882438405	0.55	1.273089511	0.55	0.001	G401	
PRDX1	0.775	0.5549786476	0.55	0.8006649427	0.915	0.521	G401	
SNRPD1	0.774	0.5630240379	0.548	0.8122719874	0.852	0.391	G401	
NDUFB10	0.773	0.5525605867	0.546	0.7971764182	0.77	0.256	G401	
NUCKS1	0.773	0.5485630051	0.546	0.7914091271	0.978	0.847	G401	
IGDCC3	0.772	0.5925899181	0.544	0.8549265362	0.565	0.022	G401	
NDUFS6	0.772	0.5555217353	0.544	0.8014484526	0.825	0.349	G401	
GPX4	0.771	0.549713652	0.542	0.7930691596	0.768	0.253	G401	
COX4I1	0.771	0.5289850213	0.542	0.7631640669	0.936	0.616	G401	
PALMD	0.77	0.7385904842	0.54	1.065560829	0.57	0.03	G401	
HINT1	0.769	0.5262425087	0.538	0.7592074576	0.926	0.568	G401	
RPL15	0.769	0.4537275868	0.538	0.6545905394	0.997	0.929	G401	
SLC7A11-AS1	0.768	0.6780426449	0.536	0.9782087613	0.539	0.003	G401	
LDHB	0.767	0.5444620217	0.534	0.7854926587	0.862	0.422	G401	
AL110292.1	0.766	0.5945302794	0.532	0.8577258857	0.536	0.004	G401	
MICOS10	0.766	0.5284747455	0.532	0.7624278946	0.811	0.326	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SRRM1	0.765	0.558471363	0.53	0.8057038659	0.903	0.591	G401	
LCMT1-AS2	0.764	0.6605537952	0.528	0.9529776846	0.534	0.007	G401	
NEDD8	0.764	0.5184158439	0.528	0.747915967	0.838	0.371	G401	
SPP1	0.764	0.4055016017	0.528	0.5850151498	0.636	0.121	G401	
GATA2-AS1	0.764	0.5575234245	0.528	0.8043362797	0.533	0.006	G401	
RBM8A	0.764	0.5458403422	0.528	0.7874811549	0.803	0.332	G401	
TMSB4X	0.763	0.3781733096	0.526	0.5455887584	0.999	0.649	G401	
TXNRD1	0.763	0.6809438067	0.526	0.9823942531	0.795	0.346	G401	
MRPL51	0.763	0.5234402123	0.526	0.7551645985	0.758	0.259	G401	
OTX2-AS1	0.762	0.6624027509	0.524	0.9556451638	0.534	0.01	G401	
SUPT16H	0.762	0.5770899022	0.524	0.8325647401	0.862	0.497	G401	
SIK2	0.762	0.6045539827	0.524	0.8721870327	0.773	0.296	G401	
SSB	0.762	0.5405023137	0.524	0.7797800076	0.843	0.412	G401	
ATP5F1A	0.761	0.5186258294	0.522	0.7482189121	0.853	0.428	G401	
CKB	0.761	0.5311048633	0.522	0.7662223525	0.758	0.252	G401	
DYNLL1	0.761	0.5105237982	0.522	0.7365301519	0.94	0.609	G401	
UQCRH	0.761	0.4935840971	0.522	0.7120913292	0.924	0.574	G401	
AP2S1	0.76	0.5234597427	0.52	0.7551927749	0.71	0.213	G401	
DIXDC1	0.76	0.5460484722	0.52	0.787781423	0.69	0.185	G401	
TRMT112	0.76	0.5108102802	0.52	0.7369434581	0.83	0.354	G401	
PCOLCE	0.76	0.5261414649	0.52	0.7590616822	0.569	0.048	G401	
BAMBI	0.759	0.6176422325	0.518	0.8910693859	0.519	0.002	G401	
BMP7	0.758	0.5604233274	0.516	0.8085199553	0.546	0.031	G401	
SERPINF1	0.758	0.5502183635	0.516	0.7937973045	0.685	0.186	G401	
UACA	0.758	0.5254528496	0.516	0.7580682203	0.878	0.467	G401	
SERF2	0.758	0.4140809425	0.516	0.5973925223	0.992	0.85	G401	
UCHL1	0.757	0.5228357287	0.514	0.754292513	0.583	0.066	G401	
AC007364.1	0.757	0.6615522198	0.514	0.9544181068	0.547	0.036	G401	
VPS35	0.756	0.5224358731	0.512	0.7537156432	0.808	0.373	G401	
AL358232.2	0.756	0.7498314099	0.512	1.081778057	0.585	0.086	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NME2	0.755	0.4805699931	0.51	0.6933159459	0.944	0.625	G401	
ADRA1B	0.755	0.6043194704	0.51	0.871848703	0.518	0.008	G401	
STMN1	0.755	0.513967094	0.51	0.7414977777	0.872	0.458	G401	
XRCC6	0.754	0.5123064573	0.508	0.7391019853	0.83	0.415	G401	
ATP5PF	0.754	0.4947519859	0.508	0.7137762365	0.821	0.363	G401	
UBE2S	0.754	0.5362289641	0.508	0.7736148672	0.717	0.231	G401	
LAPTM4B	0.754	0.5034422012	0.508	0.726313567	0.796	0.333	G401	
VGF	0.754	0.6465443286	0.508	0.9327662966	0.554	0.05	G401	
PTMA	0.754	0.4594589388	0.508	0.6628591325	0.996	0.936	G401	
TP53BP2	0.754	0.5471067474	0.508	0.7893081913	0.654	0.164	G401	
PSMB2	0.754	0.5012401442	0.508	0.7231366704	0.74	0.264	G401	
KCNJ2	0.753	0.5694016296	0.506	0.8214729073	0.513	0.007	G401	
DNMT1	0.752	0.5375331044	0.504	0.7754963441	0.776	0.329	G401	
PA2G4	0.752	0.5283153363	0.504	0.7621979156	0.773	0.325	G401	
APLP2	0.752	0.5066460992	0.504	0.7309358149	0.911	0.587	G401	
EI24	0.752	0.5054021321	0.504	0.7291411496	0.729	0.25	G401	
AGTPBP1	0.752	0.5339462884	0.504	0.7703216624	0.794	0.349	G401	
MIOS	0.752	0.5343947508	0.504	0.7709686568	0.67	0.181	G401	
CRABP2	0.752	0.5056181977	0.504	0.7294528664	0.624	0.129	G401	
RAN	0.751	0.5063474427	0.502	0.7305049445	0.856	0.447	G401	
PDGFRB	0.751	0.5054377533	0.502	0.7291925401	0.544	0.039	G401	
RPS9	0.75	0.4076558606	0.5	0.5881230884	0.997	0.936	G401	
AMIGO2	0.75	0.5209301145	0.5	0.7515432928	0.646	0.14	G401	
HNRNPA2B1	0.749	0.5039770419	0.498	0.7270851791	0.966	0.864	G401	
RPL29	0.749	0.3962784259	0.498	0.5717089198	0.995	0.923	G401	
RANBP1	0.748	0.5145228578	0.496	0.7422995754	0.721	0.251	G401	
SNRPB	0.748	0.5027447944	0.496	0.7253074217	0.813	0.378	G401	
GABRA5	0.748	0.5623062017	0.496	0.8112363686	0.529	0.036	G401	
AURKAIP1	0.748	0.4744551095	0.496	0.6844940336	0.766	0.285	G401	
ATP5MC1	0.747	0.4924707717	0.494	0.7104851402	0.734	0.263	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
DBN1	0.747	0.5055991443	0.494	0.7294253781	0.688	0.22	G401	
SPAG6	0.746	0.559415039	0.492	0.8070653025	0.498	0.007	G401	
PHACTR2	0.746	0.4975959084	0.492	0.7178791495	0.738	0.246	G401	
RPLP1	0.745	0.3647300389	0.49	0.5261942184	1	0.98	G401	
NDUFA4	0.745	0.4535010463	0.49	0.6542637105	0.899	0.489	G401	
PRDM16	0.745	0.5124575072	0.49	0.7393199042	0.508	0.019	G401	
FLNA	0.744	0.5037841078	0.488	0.726806834	0.887	0.543	G401	
GPR137C	0.744	0.5464122929	0.488	0.7883063053	0.604	0.122	G401	
PEBP1	0.744	0.4860865084	0.488	0.7012745952	0.832	0.412	G401	
CCT3	0.744	0.4968067773	0.488	0.7167406739	0.854	0.473	G401	
RPL36AL	0.743	0.4503520224	0.486	0.6497206294	0.89	0.495	G401	
ANGPT2	0.743	0.7153603976	0.486	1.032046898	0.587	0.117	G401	
GAPDH	0.742	0.4108347702	0.484	0.5927092857	0.991	0.85	G401	
TMEM178A	0.742	0.6004830935	0.484	0.8663139812	0.517	0.035	G401	
SAMD11	0.742	0.5094177736	0.484	0.7349344958	0.518	0.035	G401	
CAVIN1	0.741	0.5105748186	0.482	0.7366037588	0.801	0.378	G401	
H2AFJ	0.741	0.4662148914	0.482	0.6726059119	0.725	0.249	G401	
BAX	0.74	0.4840460969	0.48	0.6983309035	0.656	0.191	G401	
ZNF770	0.74	0.4871282734	0.48	0.7027775443	0.588	0.12	G401	
HSPB2	0.739	0.4961412377	0.478	0.7157805032	0.503	0.027	G401	
HNRNPD	0.739	0.471822618	0.478	0.6806961511	0.917	0.682	G401	
P3H2	0.739	0.5901853878	0.478	0.8514575321	0.496	0.017	G401	
SLC25A5	0.738	0.4856475917	0.476	0.7006413722	0.636	0.175	G401	
TMEM205	0.738	0.4751278894	0.476	0.6854646498	0.682	0.221	G401	
BMP4	0.738	0.4936722757	0.476	0.712218544	0.598	0.118	G401	
AC124854.1	0.738	0.6827701571	0.476	0.9850291197	0.534	0.062	G401	
RPS17	0.737	0.3647398854	0.474	0.5262084238	0.999	0.956	G401	
SMARCA5	0.737	0.4801627949	0.474	0.6927284831	0.834	0.457	G401	
EIF4A1	0.735	0.4516464617	0.47	0.6515881105	0.942	0.718	G401	
NDUFB9	0.735	0.4631063412	0.47	0.6681212219	0.722	0.276	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SRP14	0.734	0.4481442115	0.468	0.6465354316	0.862	0.473	G401	
ACTB	0.734	0.3752788616	0.468	0.5414129525	0.993	0.908	G401	
GCNT2	0.734	0.3146630574	0.468	0.4539628325	0.59	0.096	G401	
IL17RD	0.734	0.4875188849	0.468	0.7033410775	0.579	0.109	G401	
DBI	0.734	0.4524854576	0.468	0.6527985257	0.695	0.238	G401	
PRDX6	0.734	0.4561377668	0.468	0.6580676942	0.71	0.266	G401	
LINC00662	0.733	0.8319760696	0.466	1.20028775	0.659	0.278	G401	
SF3B2	0.733	0.4680163893	0.466	0.6752049238	0.789	0.38	G401	
RHOBTB1	0.733	0.4718578271	0.466	0.6807469472	0.716	0.254	G401	
RABL6	0.733	0.4629954898	0.466	0.6679612971	0.705	0.263	G401	
TXN	0.733	0.4353187069	0.466	0.6280321396	0.847	0.447	G401	
RPS19	0.732	0.3304698796	0.464	0.4767672565	1	0.988	G401	
GREB1L	0.732	0.5487657784	0.464	0.7917016672	0.537	0.075	G401	
NME1	0.732	0.4349329709	0.464	0.6274756402	0.789	0.346	G401	
COX5A	0.732	0.4440837852	0.464	0.6406774746	0.748	0.311	G401	
CD63	0.732	0.3882583742	0.464	0.560138431	0.991	0.949	G401	
LRATD2	0.732	0.4782605	0.464	0.6899840516	0.509	0.047	G401	
MMADHC	0.732	0.4769533917	0.464	0.6880982929	0.565	0.108	G401	
LIN28A	0.732	0.4786092018	0.464	0.690487122	0.486	0.024	G401	
AHNAK	0.731	0.4525283372	0.462	0.6528603879	0.928	0.633	G401	
LYPD6B	0.731	0.6485836403	0.462	0.9357084015	0.467	0.004	G401	
NOP10	0.73	0.4296516172	0.46	0.6198562574	0.702	0.241	G401	
POMP	0.73	0.4424117143	0.46	0.6382651862	0.779	0.355	G401	
CD70	0.729	0.5138909673	0.458	0.7413879501	0.507	0.05	G401	
SSH1	0.729	0.5127679887	0.458	0.7397678344	0.69	0.257	G401	
MDH2	0.729	0.4482881445	0.458	0.646743083	0.706	0.268	G401	
SEL1L3	0.729	0.5185295857	0.458	0.7480800619	0.484	0.024	G401	
MRPS6	0.728	0.4361580496	0.456	0.6292430552	0.647	0.198	G401	
ZDHHC2	0.728	0.4798033453	0.456	0.6922099069	0.517	0.063	G401	
AC019068.1	0.728	0.4995280524	0.456	0.7206666439	0.543	0.08	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PRRC2C	0.728	0.4052130595	0.456	0.5845988714	0.968	0.845	G401	
S100A4	0.728	0.3945544129	0.456	0.5692216948	0.863	0.415	G401	
EMC6	0.727	0.4510244428	0.454	0.650690727	0.579	0.131	G401	
RABAC1	0.726	0.4291992793	0.452	0.6192036718	0.866	0.496	G401	
TMEM147	0.726	0.4565410352	0.452	0.6586494874	0.746	0.317	G401	
NDUFA13	0.726	0.4053595796	0.452	0.5848102552	0.96	0.726	G401	
FASN	0.726	0.4561848441	0.452	0.6581356124	0.6	0.158	G401	
EIF5A	0.726	0.4454233717	0.452	0.6426100894	0.668	0.23	G401	
BMI1	0.726	0.4740375679	0.452	0.6838916483	0.497	0.049	G401	
MT-ND6	0.725	0.4318667311	0.45	0.6230519912	0.685	0.245	G401	
AC207130.1	0.725	0.458287255	0.45	0.66116875	0.451	0.002	G401	
COX6A1	0.725	0.431795515	0.45	0.6229492481	0.818	0.416	G401	
ID2	0.725	0.3477726404	0.45	0.5017298637	0.7	0.225	G401	
NENF	0.725	0.4310196802	0.45	0.6218299552	0.726	0.289	G401	
ATP5PO	0.724	0.4298010125	0.448	0.6200717893	0.706	0.272	G401	
NRIP1	0.724	0.4872197272	0.448	0.7029094842	0.614	0.163	G401	
GALNT1	0.724	0.5051101924	0.448	0.7287199697	0.745	0.348	G401	
MRPL57	0.724	0.4308067977	0.448	0.6215228306	0.67	0.235	G401	
POLR2L	0.724	0.4217363773	0.448	0.6084369801	0.744	0.306	G401	
RPA3	0.724	0.4406532112	0.448	0.6357282026	0.591	0.147	G401	
SNRPG	0.724	0.4264993848	0.448	0.6153085473	0.765	0.339	G401	
PHB	0.723	0.4370883159	0.446	0.6305851458	0.716	0.289	G401	
CP	0.723	0.6030716785	0.446	0.8700485199	0.47	0.025	G401	
PSMD1	0.723	0.4473269222	0.446	0.6453563323	0.852	0.525	G401	
GLUL	0.723	0.4724432738	0.446	0.6815915682	0.497	0.048	G401	
PRDX2	0.722	0.4220454121	0.444	0.6088828231	0.692	0.252	G401	
ARID3A	0.722	0.430683613	0.444	0.6213451127	0.649	0.21	G401	
CBX5	0.722	0.4463329303	0.444	0.6439223051	0.82	0.452	G401	
HACE1	0.722	0.504074635	0.444	0.7272259762	0.665	0.25	G401	
PTK7	0.722	0.4456045635	0.444	0.6428714939	0.639	0.204	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
RBX1	0.721	0.4011551639	0.442	0.5787445656	0.846	0.456	G401	
C18orf25	0.721	0.4880990371	0.442	0.7041780603	0.623	0.199	G401	
NUSAP1	0.721	0.491279139	0.442	0.7087659775	0.669	0.234	G401	
DAD1	0.721	0.4377977157	0.442	0.6316085934	0.836	0.478	G401	
CCS	0.721	0.4913643616	0.442	0.7088889278	0.605	0.177	G401	
MYOF	0.721	0.342544128	0.442	0.4941867147	0.886	0.411	G401	
STXBP5	0.721	0.5947423448	0.442	0.8580318315	0.735	0.355	G401	
DNAJC8	0.721	0.4249353427	0.442	0.6130521116	0.721	0.298	G401	
MRPL20	0.721	0.4237748563	0.442	0.6113778836	0.707	0.284	G401	
SOD1	0.72	0.4008461975	0.44	0.5782988213	0.783	0.361	G401	
MYH10	0.72	0.4274229818	0.44	0.6166410162	0.834	0.47	G401	
ARID3B	0.72	0.4752139582	0.44	0.6855888208	0.627	0.202	G401	
CCND1	0.72	0.4444654569	0.44	0.6412281105	0.585	0.146	G401	
UGCG	0.72	0.4543636707	0.44	0.6555082144	0.713	0.28	G401	
ORAI2	0.72	0.4355683097	0.44	0.6283922403	0.553	0.117	G401	
COA1	0.72	0.4527261611	0.44	0.6531457876	0.822	0.456	G401	
BEX3	0.719	0.4036589997	0.438	0.5823568371	0.911	0.598	G401	
NR2F6	0.719	0.421641511	0.438	0.6083001169	0.594	0.162	G401	
AC005208.1	0.719	0.6252481062	0.438	0.9020423421	0.44	0.002	G401	
NQO1	0.719	0.4323212501	0.438	0.6237077236	0.551	0.117	G401	
ACTN3	0.719	0.4751946957	0.438	0.685561031	0.453	0.015	G401	
PTTG1	0.719	0.4460178703	0.438	0.6434677696	0.564	0.13	G401	
SPCS1	0.719	0.4338759231	0.438	0.6259506427	0.709	0.298	G401	
IGF2BP1	0.718	0.4118442047	0.436	0.5941655917	0.726	0.299	G401	
VCP	0.718	0.4186746657	0.436	0.6040198639	0.823	0.456	G401	
RND3	0.718	0.4479468161	0.436	0.6462506501	0.493	0.053	G401	
UQCR10	0.717	0.3963568062	0.434	0.5718219987	0.725	0.291	G401	
COL18A1	0.717	0.4521265189	0.434	0.6522806867	0.62	0.173	G401	
PSMA4	0.717	0.421397577	0.434	0.6079481945	0.672	0.255	G401	
EIF4G1	0.717	0.4398277109	0.434	0.6345372573	0.763	0.383	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SLC8A1-AS1	0.717	0.4568114838	0.434	0.6590396623	0.467	0.031	G401	
YWHAB	0.716	0.4245221243	0.432	0.6124559634	0.841	0.495	G401	
MKI67	0.716	0.5518281649	0.432	0.796119757	0.634	0.207	G401	
DPP6	0.716	0.7555974534	0.432	1.090096699	0.455	0.023	G401	
RPS12	0.716	0.293916415	0.432	0.4240317543	1	0.972	G401	
IER3	0.716	0.453598447	0.432	0.6544042301	0.49	0.058	G401	
TRIM28	0.715	0.4121480892	0.43	0.5946040044	0.66	0.239	G401	
PSG5	0.715	0.505837696	0.43	0.7297695355	0.43	0	G401	
TMEM97	0.715	0.4235137993	0.43	0.6110012581	0.618	0.189	G401	
TXNDC17	0.715	0.4005000803	0.43	0.5777994797	0.661	0.233	G401	
PSMB5	0.715	0.4082771133	0.43	0.5890193666	0.799	0.413	G401	
HMGH3	0.715	0.4198092867	0.43	0.6056567761	0.815	0.424	G401	
NHP2	0.715	0.4166106887	0.43	0.6010421745	0.635	0.214	G401	
TGIF1	0.714	0.5498681968	0.428	0.7932921207	0.544	0.135	G401	
CHCHD2	0.714	0.4045098089	0.428	0.5835842953	0.841	0.48	G401	
RPS4Y1	0.713	0.4041068551	0.426	0.5830029558	0.885	0.55	G401	
LTN1	0.713	0.4432034329	0.426	0.6394073947	0.653	0.25	G401	
TPX2	0.713	0.4950588336	0.426	0.7142189242	0.625	0.205	G401	
STOML2	0.713	0.4153437385	0.426	0.5992143518	0.596	0.178	G401	
S100Z	0.713	0.4596768895	0.426	0.663173569	0.431	0.004	G401	
AC004784.1	0.712	0.5420970776	0.424	0.7820807655	0.431	0.008	G401	
TECR	0.712	0.3919818369	0.424	0.5655102522	0.745	0.328	G401	
NDUFAF8	0.712	0.3979030356	0.424	0.5740527362	0.696	0.282	G401	
CKLF	0.712	0.4071346422	0.424	0.5873711293	0.764	0.368	G401	
NDUFA12	0.712	0.3998261395	0.424	0.5768271887	0.681	0.261	G401	
ATP5F1B	0.712	0.3991432199	0.424	0.575841944	0.717	0.308	G401	
DLGAP2	0.712	0.5811759192	0.424	0.8384596166	0.44	0.017	G401	
COL26A1	0.712	0.3733422903	0.424	0.5386190707	0.622	0.179	G401	
PARK7	0.712	0.4003026837	0.424	0.5775146966	0.839	0.484	G401	
PGRMC1	0.711	0.3924163376	0.422	0.5661371042	0.736	0.3	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SIVA1	0.711	0.4032911789	0.422	0.5818261839	0.599	0.184	G401	
NTM	0.711	0.5483353549	0.422	0.7910806972	0.441	0.018	G401	
NPM3	0.711	0.4043112412	0.422	0.5832978226	0.586	0.166	G401	
BRI3	0.711	0.3889808357	0.422	0.5611807226	0.723	0.315	G401	
MCM3	0.711	0.4486626171	0.422	0.6472833327	0.582	0.17	G401	
EBP	0.71	0.4204042735	0.42	0.6065151605	0.571	0.158	G401	
PARD6B	0.71	0.4191579437	0.42	0.6047170867	0.533	0.112	G401	
PHPT1	0.71	0.3902161424	0.42	0.5629628935	0.756	0.354	G401	
DEGS1	0.71	0.4516445329	0.42	0.6515853278	0.576	0.167	G401	
PIK3CD	0.71	0.4520518592	0.42	0.6521729755	0.477	0.057	G401	
NDUFS7	0.709	0.4061844938	0.418	0.5860003549	0.563	0.151	G401	
IQCH	0.709	0.4508084679	0.418	0.6503791411	0.546	0.13	G401	
XRCC5	0.709	0.3777272699	0.418	0.544945259	0.948	0.801	G401	
SNRPD3	0.708	0.3976647177	0.416	0.5737089161	0.602	0.193	G401	
POLR2A	0.708	0.4005548989	0.416	0.5778785663	0.718	0.324	G401	
CCND2	0.708	0.365942354	0.416	0.5279432194	0.778	0.325	G401	
PSMA2	0.708	0.3950380399	0.416	0.5699194212	0.632	0.223	G401	
CDCA7L	0.708	0.4519719736	0.416	0.6520577249	0.471	0.059	G401	
SF3B5	0.708	0.3994807376	0.416	0.5763288791	0.629	0.223	G401	
COX7A2	0.708	0.3738551543	0.416	0.5393589771	0.794	0.397	G401	
DNPH1	0.708	0.3923386601	0.416	0.5660250392	0.63	0.22	G401	
CXXC5	0.708	0.4001381471	0.416	0.5772773205	0.565	0.15	G401	
GADD45GIP1	0.707	0.3803454321	0.414	0.5487224686	0.715	0.304	G401	
PSMD3	0.707	0.4056933071	0.414	0.5852917222	0.575	0.167	G401	
LINC01515	0.707	0.4092969519	0.414	0.5904906828	0.594	0.164	G401	
CYCS	0.707	0.4076743043	0.414	0.5881496972	0.535	0.126	G401	
NEDD9	0.707	0.4327403382	0.414	0.6243123399	0.464	0.048	G401	
LINC01091	0.707	0.5764568535	0.414	0.8316514439	0.567	0.14	G401	
CALM1	0.706	0.3843704547	0.412	0.5545293488	0.923	0.666	G401	
OVCH2	0.706	0.4866967025	0.412	0.7021549191	0.412	0	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NDUFB2	0.706	0.3770492682	0.412	0.5439671093	0.743	0.34	G401	
HNRNPAB	0.706	0.4163229544	0.412	0.6006270617	0.743	0.369	G401	
ATP6V0B	0.706	0.396100339	0.412	0.5714519947	0.727	0.324	G401	
C15orf61	0.705	0.4055370675	0.41	0.5850663162	0.471	0.062	G401	
SH3D19	0.705	0.4009489478	0.41	0.5784470586	0.769	0.369	G401	
PSMD2	0.705	0.3912615944	0.41	0.5644711619	0.627	0.231	G401	
SNRNP200	0.705	0.400563199	0.41	0.5778905407	0.695	0.311	G401	
H3F3B	0.704	0.3724954538	0.408	0.5373973439	0.779	0.392	G401	
CBX1	0.704	0.3941131667	0.408	0.5685851111	0.635	0.237	G401	
TOP2A	0.704	0.5803748328	0.408	0.8373038931	0.678	0.293	G401	
HNRNPC	0.704	0.3307588923	0.408	0.4771842137	0.978	0.906	G401	
TUBA1C	0.704	0.4147129081	0.408	0.5983042559	0.637	0.243	G401	
PRKAR2B	0.704	0.4120146138	0.408	0.5944114401	0.469	0.058	G401	
CCT6A	0.704	0.4036833882	0.408	0.5823920222	0.78	0.425	G401	
MRPS24	0.704	0.3887740575	0.408	0.5608824047	0.575	0.172	G401	
NDUFAB1	0.703	0.3775879348	0.406	0.5447442411	0.647	0.246	G401	
SSBP1	0.703	0.3885286637	0.406	0.5605283763	0.77	0.408	G401	
NVL	0.703	0.4249332514	0.406	0.6130490945	0.641	0.248	G401	
IGFN1	0.703	0.5181441213	0.406	0.7475239543	0.408	0.002	G401	
HSPA4	0.702	0.3831935783	0.404	0.5528314751	0.761	0.392	G401	
SNRPE	0.702	0.3736844368	0.404	0.5391126839	0.745	0.357	G401	
CA14	0.702	0.4133853315	0.404	0.5963889677	0.413	0.009	G401	
BABAM1	0.701	0.3841225417	0.402	0.554171686	0.583	0.188	G401	
C1QL1	0.701	0.4774052919	0.402	0.6887502472	0.473	0.072	G401	
PRTG	0.701	0.3756837047	0.402	0.5419970177	0.585	0.175	G401	
DUT	0.701	0.3934245332	0.402	0.567591623	0.654	0.264	G401	
EIF5	0.701	0.3909467019	0.402	0.5640168681	0.716	0.325	G401	
TMBIM6	0.701	0.3525963378	0.402	0.508688988	0.925	0.697	G401	
PABPC1	0.701	0.4241051639	0.402	0.6118544168	0.914	0.715	G401	
AGPAT5	0.701	0.3997176704	0.402	0.5766707008	0.774	0.409	G401	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LAMTOR4	0.701	0.3728036281	0.402	0.5378419455	0.613	0.214	G401	
SNRPC	0.701	0.3908330188	0.402	0.5638528581	0.576	0.18	G401	
LSM3	0.701	0.3849800947	0.402	0.5554088734	0.574	0.177	G401	
ATP5MC3	0.701	0.3663961066	0.402	0.528597846	0.747	0.357	G401	
PLPPR4	0.701	0.463096965	0.402	0.6681076949	0.411	0.009	G401	
TRPM3	0.999	4.426361342	0.998	6.385889557	0.998	0.037	MRT1	
SMOC2	0.995	3.256541222	0.99	4.698195871	0.991	0.028	MRT1	
VPS13B	0.991	2.311157391	0.982	3.334295306	0.999	0.822	MRT1	
DLC1	0.989	2.790572563	0.978	4.025945198	0.988	0.054	MRT1	
TCF4	0.987	2.250299643	0.974	3.246496136	0.999	0.393	MRT1	
SFMBT2	0.985	2.577620828	0.97	3.718720787	0.98	0.049	MRT1	
ZEB1	0.983	2.165325283	0.966	3.123904048	1	0.55	MRT1	
XIST	0.981	2.34977745	0.962	3.390012274	0.965	0.005	MRT1	
BICD1	0.981	1.969396086	0.962	2.841237966	0.992	0.495	MRT1	
BNC2	0.981	2.053710176	0.962	2.962877486	1	0.517	MRT1	
CLU	0.98	2.332127508	0.96	3.364548791	0.974	0.219	MRT1	
CHRM3	0.978	2.30936119	0.956	3.331703937	0.992	0.207	MRT1	
NBEA	0.969	1.892164636	0.938	2.729816537	0.992	0.642	MRT1	
GPM6A	0.966	2.028961516	0.932	2.927172717	0.944	0.03	MRT1	
DLG2	0.965	2.072713098	0.93	2.990292907	0.995	0.664	MRT1	
SH3RF1	0.963	2.010225654	0.926	2.900142582	0.941	0.063	MRT1	
NTN1	0.961	2.018717493	0.922	2.912393717	0.935	0.044	MRT1	
MIR99AHG	0.959	1.637273237	0.918	2.36208598	1	0.755	MRT1	
TTC28	0.958	1.586874764	0.916	2.289376352	0.999	0.897	MRT1	
JMJD1C	0.955	1.50275353	0.91	2.168015065	0.999	0.932	MRT1	
ADGRG6	0.951	1.761737013	0.902	2.541649253	0.951	0.149	MRT1	
ITM2B	0.947	1.565019486	0.894	2.257845851	0.969	0.558	MRT1	
FBXL17	0.947	1.611964692	0.894	2.325573467	0.984	0.598	MRT1	
CEP85L	0.945	1.735606412	0.89	2.503950764	0.922	0.164	MRT1	
OXR1	0.943	2.032304561	0.886	2.931995711	0.907	0.107	MRT1	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MRTFB	0.941	1.514138199	0.882	2.18443967	0.946	0.425	MRT1	
SYT10	0.941	1.83583717	0.882	2.648553181	0.886	0.006	MRT1	
DNM3	0.939	1.582490257	0.878	2.283050847	0.98	0.475	MRT1	
SORCS3	0.935	2.067251837	0.87	2.982413974	0.873	0.005	MRT1	
NLGN1	0.934	1.411173542	0.868	2.035893071	1	0.815	MRT1	
TRIM9	0.93	1.665930173	0.86	2.403429199	0.863	0.011	MRT1	
SEMA5A	0.928	1.731732897	0.856	2.498362462	0.914	0.1	MRT1	
MEGF11	0.925	1.698628765	0.85	2.450603296	0.866	0.058	MRT1	
FREM1	0.922	1.769592934	0.844	2.552982951	0.908	0.128	MRT1	
ATP8B1	0.92	1.57137072	0.84	2.267008745	0.881	0.158	MRT1	
TGFB2	0.92	1.628037415	0.84	2.348761505	0.881	0.095	MRT1	
MEOX2	0.918	1.352130799	0.836	1.950712399	0.988	0.415	MRT1	
CDK14	0.917	1.583588114	0.834	2.284634719	0.874	0.081	MRT1	
TP63	0.916	1.889937039	0.832	2.726602794	0.834	0.006	MRT1	
REEP3	0.915	1.410361487	0.83	2.034721524	0.911	0.401	MRT1	
IL1RAPL1	0.914	2.150468509	0.828	3.102470254	0.842	0.023	MRT1	
EBF3	0.913	1.612283824	0.826	2.326033877	0.854	0.07	MRT1	
LPAR1	0.913	1.399418346	0.826	2.018933908	0.98	0.331	MRT1	
AC064875.1	0.908	1.548605674	0.816	2.234165726	0.834	0.039	MRT1	
CEMIP2	0.905	1.517856116	0.81	2.189803491	0.838	0.057	MRT1	
AC093879.1	0.903	1.366559374	0.806	1.971528432	0.898	0.252	MRT1	
ANK2	0.903	1.306574902	0.806	1.884989131	1	0.568	MRT1	
SPECC1	0.895	1.558193195	0.79	2.247997596	0.797	0.018	MRT1	
DCN	0.893	1.273444923	0.786	1.837192675	0.956	0.339	MRT1	
TBC1D32	0.892	1.216002154	0.784	1.754320277	0.911	0.467	MRT1	
ESCO2	0.891	1.572538177	0.782	2.26869303	0.819	0.131	MRT1	
IMMP2L	0.891	1.265974451	0.782	1.826415063	0.998	0.84	MRT1	
RBPMS	0.889	1.423418387	0.778	2.053558648	0.866	0.291	MRT1	
CHD9	0.887	1.052929381	0.774	1.519055997	0.99	0.877	MRT1	
CCDC144A	0.885	1.300102159	0.77	1.875650938	0.844	0.207	MRT1	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SMARCA2	0.882	1.393200451	0.764	2.009963382	0.799	0.069	MRT1	
EPHA3	0.88	1.202913743	0.76	1.735437691	0.939	0.188	MRT1	
PTPRG	0.88	1.229964616	0.76	1.774463852	0.891	0.201	MRT1	
RAD51B	0.878	1.068127997	0.756	1.540982964	0.999	0.883	MRT1	
BCAS3	0.876	1.304092097	0.752	1.881407202	0.965	0.638	MRT1	
RSU1	0.876	1.20371662	0.752	1.736595998	0.923	0.459	MRT1	
PARD3	0.875	1.127719353	0.75	1.626955118	0.989	0.856	MRT1	
CYTH3	0.875	1.334395181	0.75	1.925125311	0.831	0.22	MRT1	
HOXD3	0.874	1.248403951	0.748	1.801066189	0.772	0.062	MRT1	
ESR1	0.873	1.36854184	0.746	1.974388525	0.761	0.022	MRT1	
TFPI	0.873	1.172545404	0.746	1.691625439	0.945	0.55	MRT1	
CAMTA1	0.869	1.09590944	0.738	1.581063115	0.931	0.647	MRT1	
PKP2	0.867	1.30757341	0.734	1.886429674	0.757	0.051	MRT1	
RFX3	0.867	0.9953619116	0.734	1.436003694	0.985	0.744	MRT1	
SPRED2	0.867	1.295624922	0.734	1.86919165	0.861	0.396	MRT1	
ABCA8	0.866	1.2532769	0.732	1.808096369	0.74	0.011	MRT1	
CYP1B1-AS1	0.866	1.27137179	0.732	1.834201776	0.739	0.012	MRT1	
STK32B	0.861	1.401142324	0.722	2.021421082	0.767	0.09	MRT1	
COL5A2	0.858	1.047992407	0.716	1.511933449	0.977	0.472	MRT1	
ADAMTS6	0.857	1.11745053	0.714	1.612140337	0.953	0.51	MRT1	
MAP2K1	0.854	1.150394784	0.708	1.65966885	0.81	0.273	MRT1	
C5orf17	0.854	1.308130743	0.708	1.887233735	0.718	0.012	MRT1	
AC233296.1	0.853	1.324904357	0.706	1.911432946	0.722	0.019	MRT1	
PRKCQ	0.853	1.173035539	0.706	1.692332555	0.72	0.025	MRT1	
TRIM24	0.853	1.19482801	0.706	1.723772444	0.813	0.312	MRT1	
NR2F2-AS1	0.852	1.182899796	0.704	1.70656367	0.758	0.093	MRT1	
MALAT1	0.852	0.8384055562	0.704	1.209563538	1	0.999	MRT1	
CALY	0.847	1.127539881	0.694	1.626696195	0.765	0.17	MRT1	
OGN	0.841	1.17295487	0.682	1.692216175	0.701	0.037	MRT1	
HRH2	0.84	1.155900759	0.68	1.667612293	0.684	0.007	MRT1	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LINC01139	0.837	1.107591327	0.674	1.597916514	0.692	0.036	MRT1	
TANC2	0.835	1.100017495	0.67	1.586989785	0.825	0.297	MRT1	
MYH11	0.834	1.280608752	0.668	1.847527896	0.682	0.028	MRT1	
PRIM2	0.834	0.9509387233	0.668	1.37191458	0.916	0.563	MRT1	
PTK2	0.833	0.8170490086	0.666	1.178752553	0.995	0.902	MRT1	
RPS27	0.832	1.02786782	0.664	1.482899806	0.984	0.919	MRT1	
LPP	0.83	1.150899969	0.66	1.660397677	0.96	0.767	MRT1	
GJA1	0.828	0.9353102627	0.656	1.349367478	0.941	0.463	MRT1	
MAP3K20	0.828	1.142883138	0.656	1.648831836	0.728	0.152	MRT1	
CYP1B1	0.826	1.00809115	0.652	1.454368103	0.659	0.009	MRT1	
SIM2	0.825	1.098120135	0.65	1.584252473	0.677	0.056	MRT1	
AGBL4	0.825	1.034205412	0.65	1.492043019	0.754	0.126	MRT1	
ANGPT1	0.823	1.294415754	0.646	1.867447189	0.681	0.06	MRT1	
ABCA10	0.822	1.15883855	0.644	1.671850629	0.697	0.088	MRT1	
DENND2A	0.822	1.140223819	0.644	1.644995249	0.695	0.092	MRT1	
SMAD1	0.822	1.07990485	0.644	1.557973371	0.738	0.175	MRT1	
RPL31	0.821	0.9528791014	0.642	1.374713954	0.973	0.896	MRT1	
CHRM3-AS2	0.821	1.007871252	0.642	1.454050856	0.666	0.039	MRT1	
FAM20A	0.818	1.078055452	0.636	1.555305255	0.655	0.024	MRT1	
PUM3	0.818	0.8474911032	0.636	1.222671212	0.891	0.626	MRT1	
EPB41L2	0.817	0.9082355507	0.634	1.310306925	0.904	0.494	MRT1	
NR2F2	0.811	0.9321514815	0.622	1.34481032	0.726	0.207	MRT1	
AL445250.1	0.807	1.101952781	0.614	1.589781813	0.633	0.031	MRT1	
ABL1	0.803	0.886564302	0.606	1.279041922	0.87	0.607	MRT1	
SETBP1	0.802	1.034244872	0.604	1.492099947	0.652	0.053	MRT1	
SSBP2	0.802	0.7911373756	0.604	1.141369968	0.939	0.595	MRT1	
SMCHD1	0.799	0.8765436611	0.598	1.264585193	0.89	0.684	MRT1	
NAV3	0.798	0.7287142345	0.596	1.051312412	0.998	0.447	MRT1	
PLPP4	0.798	0.9754362779	0.596	1.407257081	0.605	0.01	MRT1	
SCARA5	0.796	0.9286219246	0.592	1.339718245	0.596	0.005	MRT1	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MEG8	0.795	0.6736416374	0.59	0.9718594497	0.916	0.364	MRT1	
SPATA6	0.794	0.9966946149	0.588	1.437926378	0.727	0.299	MRT1	
GRIP1	0.793	1.010121531	0.586	1.457297323	0.617	0.043	MRT1	
FNDC3A	0.79	0.8397837627	0.58	1.21155187	0.857	0.599	MRT1	
AP001924.1	0.79	0.8713985171	0.58	1.257162319	0.598	0.022	MRT1	
RPL37A	0.789	0.7268660654	0.578	1.048646068	0.992	0.974	MRT1	
HMGGA2	0.788	0.6957459124	0.576	1.003749178	0.994	0.812	MRT1	
SIPA1L3	0.786	1.020466969	0.572	1.472222635	0.775	0.456	MRT1	
RSBN1L	0.786	0.7967762392	0.572	1.149505129	0.795	0.491	MRT1	
NPHS1	0.784	1.023256385	0.568	1.476246912	0.579	0.018	MRT1	
STX8	0.782	0.8804156052	0.564	1.270171228	0.767	0.447	MRT1	
ABCC1	0.779	0.8785767517	0.558	1.267518323	0.747	0.411	MRT1	
RPL37	0.778	0.7036809552	0.556	1.015197024	0.978	0.936	MRT1	
MAML3	0.777	0.8336581708	0.554	1.202714509	0.713	0.165	MRT1	
AL353613.1	0.774	0.9460905582	0.548	1.364920157	0.548	0.002	MRT1	
SOSTDC1	0.774	0.8181383272	0.548	1.180324107	0.565	0.024	MRT1	
HECTD2	0.773	0.8499780085	0.546	1.226259058	0.693	0.275	MRT1	
AC005550.2	0.771	0.793810062	0.542	1.14522584	0.624	0.118	MRT1	
RPS11	0.769	0.8414806631	0.538	1.21399998	0.985	0.954	MRT1	
GPSM2	0.768	0.8325674047	0.536	1.201140866	0.711	0.272	MRT1	
TNKS2	0.767	0.7135933869	0.534	1.029497641	0.806	0.549	MRT1	
POC1B	0.765	0.8704547995	0.53	1.255800823	0.672	0.247	MRT1	
AP001011.1	0.764	0.8654967556	0.528	1.248647877	0.631	0.174	MRT1	
NEK1	0.758	0.8191799456	0.516	1.181826845	0.718	0.385	MRT1	
AC106845.1	0.756	0.7644459283	0.512	1.10286235	0.516	0.005	MRT1	
HIBCH	0.753	0.7027923745	0.506	1.013915073	0.817	0.546	MRT1	
HOXD10	0.753	0.7100539573	0.506	1.024391323	0.513	0.01	MRT1	
SCG5	0.748	0.707299683	0.496	1.020417745	0.623	0.186	MRT1	
TMEM178B	0.748	0.7675815265	0.496	1.107386062	0.526	0.038	MRT1	
DGKB	0.748	0.5650775809	0.496	0.8152346237	0.785	0.268	MRT1	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
RPS25	0.747	0.672182982	0.494	0.9697550547	0.965	0.907	MRT1	
INSR	0.746	0.7593410991	0.492	1.095497638	0.675	0.329	MRT1	
TMEM117	0.745	0.739024615	0.49	1.066187147	0.654	0.225	MRT1	
KLHDC10	0.744	0.7164118079	0.488	1.033563763	0.744	0.443	MRT1	
AP001825.1	0.743	0.7525620828	0.486	1.085717585	0.56	0.107	MRT1	
SHOX	0.742	0.7089440343	0.484	1.022790043	0.489	0.006	MRT1	
AC008014.1	0.742	0.8292804943	0.484	1.196398857	0.779	0.519	MRT1	
AC096741.1	0.742	0.7147386377	0.484	1.031149888	0.49	0.007	MRT1	
KANK4	0.742	0.7971694752	0.484	1.150072449	0.507	0.028	MRT1	
TSIX	0.741	0.6711406716	0.482	0.9682513186	0.485	0.003	MRT1	
ABCA6	0.739	0.7721075084	0.478	1.113915673	0.516	0.045	MRT1	
LINC01117	0.736	0.7545309844	0.472	1.088558109	0.488	0.018	MRT1	
AC007319.1	0.734	0.6296613629	0.468	0.9084093258	0.741	0.336	MRT1	
CCDC85A	0.734	1.176804232	0.468	1.69776963	0.512	0.05	MRT1	
BTAF1	0.733	0.6285308204	0.466	0.9067782976	0.796	0.605	MRT1	
FAM110B	0.733	0.8641422796	0.466	1.246693781	0.649	0.253	MRT1	
HHIP	0.733	1.224731808	0.466	1.766914505	0.505	0.048	MRT1	
MEST	0.732	0.6485221974	0.464	0.9356197581	0.708	0.266	MRT1	
COL6A1	0.731	0.6272574899	0.462	0.9049412701	0.685	0.322	MRT1	
AC090579.1	0.731	0.7450092365	0.462	1.074821131	0.47	0.009	MRT1	
RPS24	0.729	0.6398022053	0.458	0.9230394688	0.99	0.974	MRT1	
TFB1M	0.729	0.7116492915	0.458	1.026692904	0.62	0.269	MRT1	
PDGFRA	0.729	0.7588491521	0.458	1.094787909	0.491	0.038	MRT1	
KIRREL2	0.728	0.7193572066	0.456	1.037813075	0.468	0.016	MRT1	
AUTS2	0.728	0.2618255485	0.456	0.3777344204	0.935	0.571	MRT1	
EFEMP1	0.727	0.8540974966	0.454	1.232202223	0.47	0.016	MRT1	
CMIP	0.724	0.7021926701	0.448	1.013049883	0.697	0.431	MRT1	
LINC01116	0.724	0.6080399576	0.448	0.8772162315	0.452	0.006	MRT1	
AC011306.1	0.724	0.8945461915	0.448	1.290557354	0.451	0.003	MRT1	
F11-AS1	0.723	0.6580711158	0.446	0.9493959353	0.454	0.01	MRT1	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TBC1D5	0.723	0.5816426947	0.446	0.8391330312	0.909	0.774	MRT1	
AC012409.2	0.722	0.6606566225	0.444	0.9531260329	0.463	0.023	MRT1	
PDE4B	0.721	0.9029478234	0.442	1.302678347	0.492	0.054	MRT1	
STX12	0.72	0.7291805072	0.44	1.051985102	0.569	0.196	MRT1	
L1TD1	0.718	0.6123886062	0.436	0.8834900053	0.459	0.028	MRT1	
TIMP3	0.717	0.8350444048	0.434	1.204714422	0.462	0.029	MRT1	
STXBP3	0.717	0.6647257402	0.434	0.9589965289	0.59	0.239	MRT1	
DPYSL2	0.716	0.7859369514	0.432	1.133867342	0.549	0.174	MRT1	
DNAH14	0.716	0.5078119851	0.432	0.7326178327	0.907	0.746	MRT1	
RB1	0.714	0.6380078394	0.428	0.9204507459	0.688	0.427	MRT1	
PNOC	0.714	0.6336554148	0.428	0.9141715245	0.441	0.014	MRT1	
MPRIP	0.713	0.6581706652	0.426	0.9495395548	0.641	0.363	MRT1	
ZFPM2-AS1	0.713	0.7835708169	0.426	1.130453732	0.443	0.019	MRT1	
LINC01572	0.712	0.6712437746	0.424	0.9684000649	0.745	0.467	MRT1	
RPS4X	0.711	0.5387589242	0.422	0.7772648281	0.982	0.942	MRT1	
ACTA2	0.71	0.6537434514	0.42	0.9431524353	0.506	0.105	MRT1	
TCF7L1	0.709	0.7838144482	0.418	1.130805217	0.678	0.395	MRT1	
HMGA2-AS1	0.707	0.6133631079	0.414	0.884895914	0.582	0.235	MRT1	
LINC02643	0.707	0.6867213806	0.414	0.9907295303	0.459	0.052	MRT1	
ST8SIA6	0.706	0.6264970539	0.412	0.9038441927	0.459	0.056	MRT1	
IGFBP2	0.706	0.6000435851	0.412	0.8656799045	0.585	0.227	MRT1	
RPL32	0.705	0.4753416158	0.41	0.6857729919	0.983	0.961	MRT1	
AL139231.1	0.704	0.570368363	0.408	0.8228676088	0.409	0.001	MRT1	
PCDH18	0.704	0.4797819756	0.408	0.6921790769	0.577	0.159	MRT1	
MIR7-3HG	0.702	0.6427554189	0.404	0.9273000554	0.406	0.004	MRT1	
THY1	0.702	0.7690217499	0.404	1.109463865	0.552	0.22	MRT1	
CENPP	0.702	0.7088924253	0.404	1.022715587	0.677	0.408	MRT1	
ZFH3	0.701	0.2725504014	0.402	0.3932071125	0.939	0.734	MRT1	
SDCCAG8	0.701	0.546006655	0.402	0.7877210935	0.707	0.483	MRT1	
MMP1	0.994	2.959009105	0.988	4.268947762	0.995	0.053	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
KCNQ5	0.985	3.031288934	0.97	4.373225512	0.98	0.073	MRT2	
NRG1	0.983	2.782349689	0.966	4.014082098	0.999	0.336	MRT2	
PCDH7	0.982	2.607046388	0.964	3.761172895	0.999	0.28	MRT2	
MAP2	0.982	2.641636982	0.964	3.811076574	0.986	0.109	MRT2	
PAM	0.98	2.386872143	0.96	3.443528604	0.988	0.176	MRT2	
LMO7	0.978	2.135924675	0.956	3.081487937	0.973	0.123	MRT2	
ATP2B1	0.977	2.032244654	0.954	2.931909284	0.99	0.373	MRT2	
PTPN14	0.977	2.069199889	0.954	2.985224419	0.987	0.45	MRT2	
INPP4B	0.972	2.124678133	0.944	3.065262605	0.997	0.633	MRT2	
GLS	0.969	1.97070806	0.938	2.843130745	0.996	0.542	MRT2	
ASB5	0.967	2.443181511	0.934	3.524765849	0.934	0.004	MRT2	
AC011287.1	0.965	3.024707632	0.93	4.3637307	0.956	0.133	MRT2	
PRSS23	0.964	1.940403352	0.928	2.799410293	0.963	0.187	MRT2	
PRKN	0.962	1.974905956	0.924	2.849187029	0.989	0.56	MRT2	
AOPEP	0.961	1.471366661	0.922	2.122733385	0.993	0.686	MRT2	
TRIO	0.961	1.76322017	0.922	2.543788996	0.996	0.784	MRT2	
ST8SIA4	0.96	1.832101506	0.92	2.643163758	0.931	0.023	MRT2	
SOX6	0.959	2.133565658	0.918	3.078084594	0.986	0.221	MRT2	
DGKB	0.956	2.238290854	0.912	3.229171116	0.978	0.241	MRT2	
PRRX1	0.954	1.84741479	0.908	2.665256157	0.943	0.066	MRT2	
ARHGAP10	0.949	2.019019569	0.898	2.91282952	0.951	0.27	MRT2	
PARD3B	0.945	2.353185961	0.89	3.394929716	0.956	0.219	MRT2	
PTCHD1-AS	0.944	2.115421806	0.888	3.051908548	0.891	0.01	MRT2	
LUZP2	0.943	2.694085774	0.886	3.886744186	0.901	0.031	MRT2	
SLC38A4	0.942	1.465407964	0.884	2.114136803	0.902	0.044	MRT2	
HS2ST1	0.942	1.637928669	0.884	2.363031568	0.975	0.557	MRT2	
ZSWIM6	0.94	1.91821497	0.88	2.767399225	0.947	0.166	MRT2	
SLC4A7	0.94	1.761399421	0.88	2.54116221	0.957	0.4	MRT2	
SEMA3A	0.938	1.684665141	0.876	2.430458045	0.997	0.549	MRT2	
AKAP6	0.935	1.962180959	0.87	2.83082874	0.927	0.152	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
DST	0.929	1.537929077	0.858	2.218762653	0.998	0.821	MRT2	
LINC02008	0.929	3.024684503	0.858	4.363697333	0.861	0.007	MRT2	
ALPK2	0.928	1.479186754	0.856	2.134015394	0.868	0.019	MRT2	
IQGAP1	0.928	1.302052829	0.856	1.87846516	0.977	0.641	MRT2	
FOXO1	0.927	1.770991225	0.854	2.555000258	0.901	0.091	MRT2	
DMD	0.925	1.625496301	0.85	2.345095453	0.993	0.452	MRT2	
ARHGAP18	0.925	1.523939492	0.85	2.198579947	0.946	0.314	MRT2	
CAMK2D	0.925	1.666980573	0.85	2.404944607	0.966	0.494	MRT2	
DYNC2H1	0.923	1.190034659	0.846	1.716857101	0.988	0.685	MRT2	
SLC38A6	0.922	1.423714281	0.844	2.053985533	0.931	0.325	MRT2	
MNAT1	0.922	1.200326909	0.844	1.731705679	0.979	0.611	MRT2	
SULF1	0.922	1.631689572	0.844	2.354030454	0.927	0.127	MRT2	
MALT1	0.92	1.494726037	0.84	2.156433841	0.878	0.106	MRT2	
SNTG1	0.919	2.146790667	0.838	3.097164249	0.843	0.009	MRT2	
MMP3	0.918	1.917093877	0.836	2.765781829	0.851	0.027	MRT2	
CRIM1	0.918	1.627979422	0.836	2.348677839	0.937	0.328	MRT2	
DTNA	0.915	1.803552265	0.83	2.601975909	0.91	0.141	MRT2	
TENT5A	0.914	1.533626446	0.828	2.212555269	0.858	0.044	MRT2	
SPTLC3	0.911	2.321167226	0.822	3.348736446	0.824	0.01	MRT2	
PDLIM5	0.911	1.509919288	0.822	2.178353069	0.958	0.269	MRT2	
AKT3	0.911	1.240934038	0.822	1.790289382	0.975	0.541	MRT2	
SLC38A2	0.91	1.234888643	0.82	1.781567722	0.965	0.523	MRT2	
CD44	0.91	1.679140034	0.82	2.422487	0.857	0.049	MRT2	
ADGRL2	0.909	1.361224339	0.818	1.963831603	0.983	0.29	MRT2	
LDLRAD3	0.908	1.330371765	0.816	1.919320748	0.932	0.389	MRT2	
RSPO2	0.908	1.514538602	0.816	2.185017331	0.861	0.072	MRT2	
CD36	0.908	2.146593768	0.816	3.096880184	0.851	0.069	MRT2	
PDE3A	0.906	1.574309611	0.812	2.271248669	0.938	0.191	MRT2	
PLXDC2	0.904	1.699125608	0.808	2.451320088	0.879	0.1	MRT2	
CLMN	0.903	1.277285762	0.806	1.842733835	0.82	0.021	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CD47	0.901	1.182046775	0.802	1.705333021	0.841	0.067	MRT2	
LGALS3	0.9	1.283918102	0.8	1.852302279	0.888	0.218	MRT2	
PPP3CA	0.9	2.001499894	0.8	2.887553971	0.864	0.13	MRT2	
KLF5	0.896	1.284981349	0.792	1.85383622	0.832	0.07	MRT2	
IFT57	0.893	1.120749091	0.786	1.616899155	0.84	0.123	MRT2	
S100A10	0.893	1.313141103	0.786	1.894462157	0.939	0.284	MRT2	
HERC3	0.891	1.183393336	0.782	1.707275697	0.81	0.05	MRT2	
ANXA2	0.888	1.119401826	0.776	1.614955463	0.966	0.631	MRT2	
CAV1	0.886	1.262201655	0.772	1.820972068	0.925	0.183	MRT2	
MIA	0.884	1.123701482	0.768	1.621158556	0.777	0.014	MRT2	
MACF1	0.884	0.9784762171	0.768	1.411642786	0.997	0.919	MRT2	
VGLL3	0.883	1.205643952	0.766	1.739376551	0.906	0.147	MRT2	
AL157944.1	0.881	2.006665022	0.762	2.895005676	0.8	0.067	MRT2	
GNAI1	0.879	1.24993984	0.758	1.803282008	0.847	0.125	MRT2	
SIM1	0.879	1.325332819	0.758	1.912051085	0.764	0.01	MRT2	
ROBO1	0.879	1.122538494	0.758	1.619480718	0.951	0.398	MRT2	
AC011246.1	0.878	1.345785002	0.756	1.941557349	0.836	0.119	MRT2	
GALNTL6	0.877	2.725867945	0.754	3.932596166	0.758	0.012	MRT2	
ANKRD28	0.876	1.122940832	0.752	1.620061169	0.938	0.497	MRT2	
PTCHD1	0.875	1.055582163	0.75	1.522883152	0.752	0.003	MRT2	
RELL1	0.871	1.333733772	0.742	1.924171098	0.775	0.07	MRT2	
AC073050.1	0.87	1.570115928	0.74	2.265198463	0.759	0.027	MRT2	
AGAP1	0.869	1.221271781	0.738	1.761922742	0.96	0.69	MRT2	
LRRC7	0.868	1.556067119	0.736	2.244930316	0.757	0.038	MRT2	
MYOF	0.867	0.9804763383	0.734	1.414528351	0.966	0.519	MRT2	
HLA-A	0.865	1.296252337	0.73	1.870096818	0.838	0.223	MRT2	
RTN4	0.865	1.121408807	0.73	1.617850925	0.98	0.847	MRT2	
AC021723.2	0.864	0.9749974047	0.728	1.406623921	0.73	0.003	MRT2	
OTOGL	0.863	1.273586464	0.726	1.837396876	0.783	0.059	MRT2	
GBE1	0.863	1.367784902	0.726	1.973296495	0.833	0.218	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LPAR1	0.86	0.9974646913	0.72	1.439037364	0.977	0.337	MRT2	
SNED1	0.859	1.195920979	0.718	1.725349265	0.762	0.063	MRT2	
ME3	0.856	1.035152224	0.712	1.49340898	0.774	0.092	MRT2	
C8orf34	0.855	1.252284674	0.71	1.806664889	0.756	0.062	MRT2	
LINC01725	0.855	1.552948851	0.71	2.240431607	0.721	0.017	MRT2	
ARHGAP21	0.854	1.061018953	0.708	1.530726782	0.884	0.364	MRT2	
MUSK	0.854	1.19920143	0.708	1.730081956	0.765	0.083	MRT2	
SPTBN1	0.853	1.130948778	0.706	1.631614193	0.952	0.724	MRT2	
ANXA5	0.851	0.982293312	0.702	1.41714969	0.87	0.35	MRT2	
CDCP1	0.85	1.25295499	0.7	1.807631951	0.706	0.008	MRT2	
RALGPS2	0.85	1.315827339	0.7	1.898337576	0.807	0.23	MRT2	
MYH15	0.848	0.9822304697	0.696	1.417059028	0.704	0.015	MRT2	
AP001341.1	0.846	1.977081647	0.692	2.852325887	0.693	0.003	MRT2	
EGFR	0.846	1.393361967	0.692	2.0101964	0.743	0.074	MRT2	
KRT19	0.843	0.9292360579	0.686	1.340604253	0.767	0.095	MRT2	
LIMA1	0.842	1.068417127	0.684	1.541400091	0.86	0.324	MRT2	
NCOA1	0.842	1.341683143	0.684	1.935639616	0.908	0.557	MRT2	
AC060765.2	0.839	2.705806229	0.678	3.903653229	0.682	0.012	MRT2	
SIX1	0.838	0.8359231177	0.676	1.205982136	0.754	0.091	MRT2	
AC139720.1	0.838	0.9742385865	0.676	1.405529177	0.73	0.089	MRT2	
IGSF21	0.836	1.151794454	0.672	1.661688146	0.676	0.006	MRT2	
ITGB1	0.835	0.8830618926	0.67	1.273989013	0.992	0.905	MRT2	
TSPAN12	0.835	0.9220398934	0.67	1.330222382	0.777	0.118	MRT2	
MIR4435-2HG	0.834	0.936123141	0.668	1.350540213	0.862	0.324	MRT2	
FHL2	0.834	1.024735945	0.668	1.478381466	0.77	0.185	MRT2	
ASAP2	0.834	1.243519236	0.668	1.794019036	0.763	0.181	MRT2	
LIN7A	0.832	1.002279243	0.664	1.445983294	0.808	0.135	MRT2	
TNNT3	0.831	0.9399628757	0.662	1.356079779	0.679	0.022	MRT2	
VEGFC	0.831	1.351232894	0.662	1.949416995	0.732	0.105	MRT2	
LHFPL6	0.83	1.25897767	0.66	1.816320841	0.723	0.071	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CD109	0.83	1.049292062	0.66	1.513808454	0.723	0.087	MRT2	
GTF2F2	0.829	0.9113678631	0.658	1.314825897	0.863	0.407	MRT2	
FAT3	0.828	1.39352697	0.656	2.010434449	0.668	0.015	MRT2	
BCKDHB	0.828	1.169845322	0.656	1.687730045	0.87	0.464	MRT2	
VMP1	0.827	0.7712498593	0.654	1.112678347	0.963	0.693	MRT2	
CYTOR	0.826	1.025610493	0.652	1.479643172	0.817	0.272	MRT2	
DTWD2	0.825	1.08035641	0.65	1.558624835	0.742	0.155	MRT2	
S100A11	0.824	0.941416225	0.648	1.358176519	0.797	0.201	MRT2	
ERBB4	0.823	0.8357412131	0.646	1.205719704	0.995	0.478	MRT2	
MAMLD1	0.822	1.262218417	0.644	1.82099625	0.679	0.048	MRT2	
ALCAM	0.822	1.303107756	0.644	1.879987097	0.838	0.258	MRT2	
MEST	0.821	0.8908460447	0.642	1.285219171	0.859	0.245	MRT2	
MPP6	0.821	1.110340403	0.642	1.601882593	0.775	0.23	MRT2	
SDC2	0.819	0.9682552191	0.638	1.396897003	0.794	0.235	MRT2	
CDK6	0.819	0.9137623117	0.638	1.318280356	0.851	0.368	MRT2	
FOXP1	0.818	0.9393152009	0.636	1.355145382	0.794	0.195	MRT2	
LOXL3	0.818	0.9348834492	0.636	1.348751716	0.672	0.057	MRT2	
AC068931.1	0.817	0.7943317632	0.634	1.145978496	0.662	0.032	MRT2	
SMURF2	0.816	1.081427409	0.632	1.56016996	0.848	0.403	MRT2	
PTPRQ	0.816	1.162639768	0.632	1.677334627	0.751	0.116	MRT2	
NEK7	0.816	1.042135557	0.632	1.5034838	0.81	0.32	MRT2	
TOM1L2	0.815	0.9090313855	0.63	1.311455072	0.858	0.396	MRT2	
SH3GLB1	0.814	0.786605163	0.628	1.134831368	0.771	0.209	MRT2	
OXTR	0.813	0.8825828665	0.626	1.273297925	0.636	0.015	MRT2	
LRRFIP1	0.813	0.9551785655	0.626	1.37803138	0.858	0.458	MRT2	
JAK1	0.813	1.032121838	0.626	1.489037058	0.84	0.433	MRT2	
MEG8	0.812	1.055483207	0.624	1.522740389	0.909	0.369	MRT2	
LINC01362	0.812	1.445941844	0.624	2.086053128	0.631	0.009	MRT2	
MYPN	0.807	0.9732214939	0.614	1.404061823	0.662	0.06	MRT2	
MTHFD1L	0.807	0.8391668526	0.614	1.210661857	0.886	0.492	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PTK2	0.806	0.7307338481	0.612	1.054226099	0.988	0.904	MRT2	
TBX15	0.806	0.8317516083	0.612	1.199963921	0.816	0.302	MRT2	
MMP10	0.805	0.9933118068	0.61	1.433046018	0.638	0.035	MRT2	
FRMPD1	0.804	0.8862999367	0.608	1.278660523	0.634	0.033	MRT2	
CPA4	0.804	1.134538317	0.608	1.636792804	0.611	0.003	MRT2	
MEG3	0.803	1.007342704	0.606	1.453288323	0.827	0.282	MRT2	
GABRB1	0.803	1.392188642	0.606	2.00850365	0.61	0.005	MRT2	
AL356124.1	0.802	1.153867528	0.604	1.66467896	0.704	0.149	MRT2	
ZNF827	0.801	0.8215243606	0.602	1.185209121	0.784	0.268	MRT2	
FAM49B	0.799	0.8586880479	0.598	1.238824988	0.836	0.428	MRT2	
MID1	0.798	0.7906888942	0.596	1.140722947	0.805	0.217	MRT2	
LINC00871	0.798	2.294599342	0.596	3.310407092	0.621	0.034	MRT2	
H19	0.798	0.9698683899	0.596	1.399224316	0.656	0.076	MRT2	
RAD18	0.797	0.8510392826	0.594	1.227790153	0.755	0.249	MRT2	
NF2	0.796	0.7955930378	0.592	1.14779813	0.723	0.203	MRT2	
SPIRE1	0.796	0.9074008357	0.592	1.309102686	0.82	0.399	MRT2	
PDXK	0.795	0.7507850987	0.59	1.083153939	0.761	0.262	MRT2	
AHNAK2	0.795	0.893401241	0.59	1.28890554	0.648	0.08	MRT2	
MIR4500HG	0.795	0.9632665012	0.59	1.389699804	0.815	0.267	MRT2	
TMEFF2	0.795	1.620928729	0.59	2.338505839	0.595	0.006	MRT2	
JAM2	0.793	0.7745252378	0.586	1.11740372	0.596	0.013	MRT2	
NFAT5	0.792	0.7056171051	0.584	1.017990298	0.967	0.825	MRT2	
NAV3	0.791	0.7013009513	0.582	1.011763405	0.997	0.452	MRT2	
SH3PXD2A	0.79	1.017210899	0.58	1.46752512	0.708	0.205	MRT2	
NRP2	0.79	0.8293783418	0.58	1.196540021	0.665	0.076	MRT2	
SPAG17	0.789	0.8055990206	0.578	1.162233712	0.857	0.43	MRT2	
EZH2	0.788	0.98359916	0.576	1.41903363	0.796	0.397	MRT2	
ITPR1	0.788	1.140020068	0.576	1.644701299	0.704	0.183	MRT2	
ATP11B	0.787	1.020253613	0.574	1.471914827	0.794	0.447	MRT2	
CADM2	0.787	0.7607646143	0.574	1.097551336	0.976	0.485	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ARHGAP5	0.785	0.7468253925	0.57	1.07744129	0.805	0.36	MRT2	
GALNT7	0.783	0.8440912063	0.566	1.217766197	0.797	0.31	MRT2	
CDC42BPA	0.783	0.8284722658	0.566	1.195232829	0.903	0.623	MRT2	
ITGA6	0.782	1.191048763	0.564	1.718320144	0.647	0.134	MRT2	
FEZ2	0.782	0.6431221969	0.564	0.9278292042	0.775	0.295	MRT2	
IGFBP6	0.781	0.8746274143	0.562	1.261820633	0.63	0.093	MRT2	
GABRA2	0.781	0.93265481	0.562	1.345536469	0.582	0.023	MRT2	
CECR2	0.78	0.6896605419	0.56	0.9949698437	0.91	0.475	MRT2	
PRKCH	0.78	1.195121008	0.56	1.724195152	0.643	0.091	MRT2	
KIFAP3	0.78	0.7011070681	0.56	1.01148369	0.834	0.425	MRT2	
ANO6	0.779	0.7424336419	0.558	1.071105333	0.851	0.497	MRT2	
SYTL2	0.778	0.7588801981	0.556	1.094832698	0.603	0.06	MRT2	
DSTN	0.777	0.7756256362	0.554	1.118991259	0.883	0.613	MRT2	
TM4SF1	0.776	0.717162255	0.552	1.034646429	0.857	0.387	MRT2	
ELK3	0.775	0.6590730332	0.55	0.9508413966	0.699	0.197	MRT2	
OLFML2A	0.775	0.8389732294	0.55	1.210382518	0.588	0.05	MRT2	
DSP	0.774	0.8835631427	0.548	1.274712164	0.858	0.41	MRT2	
MSI2	0.773	0.7954992308	0.546	1.147662795	0.855	0.528	MRT2	
SBF2	0.773	0.621334785	0.546	0.8963966131	0.961	0.792	MRT2	
FLG-AS1	0.773	0.6437701621	0.546	0.9287640203	0.728	0.196	MRT2	
ATP10A	0.772	0.8287990934	0.544	1.195704342	0.73	0.255	MRT2	
C14orf39	0.772	0.702018547	0.544	1.012798676	0.59	0.051	MRT2	
ARL4A	0.772	0.5866549913	0.544	0.8463642467	0.755	0.22	MRT2	
PLK2	0.772	0.6796100946	0.544	0.9804701132	0.613	0.074	MRT2	
TIMP1	0.771	0.7690313079	0.542	1.109477654	0.86	0.49	MRT2	
PTGR1	0.771	0.6331441879	0.542	0.9134339801	0.655	0.131	MRT2	
CASK	0.77	0.8202423624	0.54	1.183359589	0.81	0.452	MRT2	
AC104365.1	0.77	0.6777764978	0.54	0.9778247922	0.576	0.04	MRT2	
DAAM1	0.769	0.7795680427	0.538	1.124678949	0.633	0.117	MRT2	
MAGI2	0.769	2.034495748	0.538	2.935156926	0.579	0.064	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
BMERB1	0.768	0.8762647064	0.536	1.264182747	0.678	0.204	MRT2	
IL15	0.768	0.8297366143	0.536	1.197056899	0.553	0.019	MRT2	
SYNE1	0.767	0.8694628656	0.534	1.254369764	0.642	0.125	MRT2	
AGBL4	0.764	0.7657160835	0.528	1.104694796	0.68	0.143	MRT2	
SHANK2	0.762	1.192198406	0.524	1.719978729	0.538	0.015	MRT2	
TES	0.762	0.7501665005	0.524	1.08226149	0.548	0.026	MRT2	
MRTFA	0.761	0.718579178	0.522	1.036690617	0.797	0.416	MRT2	
PARVA	0.761	0.7236653732	0.522	1.044028445	0.709	0.248	MRT2	
DIP2B	0.759	0.8909727778	0.518	1.285402008	0.794	0.461	MRT2	
CALCRL	0.759	0.8024795716	0.518	1.157733298	0.725	0.224	MRT2	
FAM13A	0.758	0.8202414498	0.516	1.183358272	0.895	0.574	MRT2	
DOC2B	0.757	0.7378325735	0.514	1.064467395	0.523	0.011	MRT2	
TLCD4	0.757	0.9168726181	0.514	1.322767579	0.549	0.047	MRT2	
MYL1	0.753	0.7518040405	0.506	1.084623961	0.513	0.008	MRT2	
NEDD4	0.753	0.7127354819	0.506	1.028259945	0.686	0.251	MRT2	
KCNB1	0.752	0.6877050607	0.504	0.9921486807	0.523	0.021	MRT2	
CHRM3	0.752	0.2693506528	0.504	0.388590851	0.83	0.239	MRT2	
KIAA1671	0.751	0.6768146827	0.502	0.9764371863	0.715	0.286	MRT2	
NEAT1	0.751	0.5988470879	0.502	0.8639537239	0.983	0.847	MRT2	
MET	0.751	0.6113114187	0.502	0.8819359522	0.69	0.158	MRT2	
FGF2	0.751	0.702353907	0.502	1.013282499	0.696	0.257	MRT2	
ANK2	0.751	0.6091808845	0.502	0.878862241	0.995	0.573	MRT2	
KRT20	0.75	0.7319214855	0.5	1.055939497	0.512	0.013	MRT2	
CDK17	0.75	0.621556875	0.5	0.8967170212	0.692	0.238	MRT2	
CAV2	0.749	0.5722439242	0.498	0.8255734716	0.595	0.095	MRT2	
IMPA2	0.748	0.6260046187	0.496	0.9031337589	0.567	0.09	MRT2	
SULF2	0.747	0.7950978519	0.494	1.147083728	0.674	0.248	MRT2	
PCCA	0.747	0.6404854394	0.494	0.9240251671	0.915	0.701	MRT2	
CD9	0.747	0.6846110046	0.494	0.9876849013	0.623	0.163	MRT2	
BACH1	0.746	0.7799053525	0.492	1.125165584	0.763	0.418	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
SPATA5	0.746	0.7927472712	0.492	1.143692557	0.814	0.503	MRT2	
LCA5	0.743	0.5945717008	0.486	0.8577856443	0.626	0.171	MRT2	
LINC01473	0.743	0.575783554	0.486	0.8306800779	0.87	0.556	MRT2	
ASXL3	0.741	0.7801268431	0.482	1.125485128	0.579	0.104	MRT2	
LUM	0.741	0.6874143428	0.482	0.9917292634	0.714	0.232	MRT2	
AUTS2	0.741	0.6075839085	0.482	0.8765582917	0.904	0.579	MRT2	
GPSM2	0.74	0.6434384782	0.48	0.9282855016	0.71	0.276	MRT2	
KCNMA1	0.739	1.560301289	0.478	2.251038932	0.508	0.041	MRT2	
MCU	0.739	0.7139677882	0.478	1.030037787	0.8	0.467	MRT2	
EML1	0.738	0.620593824	0.476	0.8953276322	0.66	0.231	MRT2	
PLXNA2	0.738	0.7260583622	0.476	1.047480799	0.528	0.054	MRT2	
MAP3K14	0.737	0.6207404135	0.474	0.8955391162	0.703	0.299	MRT2	
SFXN5	0.736	0.5917637929	0.472	0.8537346894	0.602	0.164	MRT2	
BEGAIN	0.735	0.5077743083	0.47	0.7325634764	0.528	0.06	MRT2	
ANXA4	0.735	0.6882014045	0.47	0.9928647534	0.707	0.333	MRT2	
COL9A3	0.734	0.6104526819	0.468	0.8806970569	0.479	0.014	MRT2	
NFATC2	0.734	0.7326781181	0.468	1.057031088	0.549	0.092	MRT2	
GOLGA8A	0.734	0.5107996405	0.468	0.7369281082	0.634	0.191	MRT2	
PTPRG	0.734	0.7779750505	0.468	1.122380747	0.727	0.232	MRT2	
FHIT	0.734	0.6909829841	0.468	0.9968777245	0.9	0.691	MRT2	
RAB30	0.732	0.6370912335	0.464	0.9191283632	0.52	0.071	MRT2	
ODF2L	0.732	0.6234019216	0.464	0.8993788608	0.647	0.221	MRT2	
AP000146.1	0.731	0.8874258375	0.462	1.280284855	0.463	0.001	MRT2	
CELF2	0.731	0.6807447868	0.462	0.982107128	0.556	0.089	MRT2	
KCND2	0.731	1.353585326	0.462	1.952810837	0.592	0.139	MRT2	
HLA-B	0.731	0.7359332694	0.462	1.061727278	0.545	0.093	MRT2	
IQSEC1	0.729	0.6277625635	0.458	0.9056699373	0.575	0.138	MRT2	
RERE	0.729	0.490960973	0.458	0.708306961	0.99	0.966	MRT2	
CNKSR3	0.728	0.7017188095	0.456	1.012366247	0.552	0.12	MRT2	
SH3BGRL2	0.728	0.571643314	0.456	0.8247069743	0.595	0.166	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NAB1	0.728	0.492833184	0.456	0.7110079905	0.688	0.233	MRT2	
DCN	0.727	0.527083623	0.454	0.7604209291	0.856	0.36	MRT2	
LINC02163	0.727	1.390238216	0.454	2.00568978	0.605	0.213	MRT2	
AC117453.1	0.727	0.8390191758	0.454	1.210448804	0.498	0.049	MRT2	
ELMO1	0.726	0.9054640551	0.452	1.306308502	0.539	0.098	MRT2	
TM4SF4	0.726	1.002119018	0.452	1.445752138	0.455	0.004	MRT2	
COL6A2	0.725	0.4994669998	0.45	0.7205785637	0.68	0.276	MRT2	
ATP2A2	0.725	0.5985939433	0.45	0.8635885135	0.803	0.518	MRT2	
SLC38A1	0.725	0.5729967548	0.45	0.8266595766	0.828	0.529	MRT2	
FNDC3B	0.725	0.4351023169	0.45	0.6277199549	0.93	0.692	MRT2	
USP3	0.724	0.5789584542	0.448	0.8352604908	0.692	0.296	MRT2	
SBF2-AS1	0.724	0.6793076609	0.448	0.9800337936	0.576	0.158	MRT2	
AC016831.7	0.724	0.5209717509	0.448	0.7516033614	0.645	0.218	MRT2	
KCMF1	0.723	0.4996916378	0.446	0.7209026479	0.777	0.419	MRT2	
TBC1D4	0.721	0.5951246971	0.442	0.8585834492	0.537	0.101	MRT2	
ITPR2	0.72	0.8121497184	0.44	1.171684371	0.635	0.252	MRT2	
ELMOD1	0.72	0.6471473864	0.44	0.933636325	0.446	0.005	MRT2	
MAT2A	0.72	0.5662353823	0.44	0.816904978	0.665	0.291	MRT2	
S100A6	0.72	0.58225534	0.44	0.8400168916	0.869	0.586	MRT2	
SPATS2	0.719	0.6132518041	0.438	0.8847353366	0.86	0.673	MRT2	
RGMB	0.719	0.5265497108	0.438	0.7596506565	0.515	0.08	MRT2	
MT1E	0.718	0.5262641374	0.436	0.7592386612	0.445	0.008	MRT2	
COL6A1	0.718	0.5201038997	0.436	0.7503513168	0.707	0.321	MRT2	
LINC00448	0.718	0.8847443075	0.436	1.276416225	0.437	0.001	MRT2	
SEMA3C	0.718	1.501623061	0.436	2.166384143	0.535	0.135	MRT2	
TMOD3	0.717	0.589967224	0.434	0.8511427883	0.716	0.386	MRT2	
FAM114A1	0.717	0.4680760791	0.434	0.675291038	0.599	0.173	MRT2	
BBX	0.717	0.4549468932	0.434	0.6563496266	0.722	0.267	MRT2	
EMC10	0.716	0.6418590027	0.432	0.9260068002	0.622	0.253	MRT2	
SATB2	0.716	0.5205643556	0.432	0.7510156143	0.454	0.023	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
KDM4C	0.715	0.5182712286	0.43	0.7477073314	0.788	0.468	MRT2	
PRNP	0.714	0.592461047	0.428	0.8547406144	0.477	0.061	MRT2	
RASAL2	0.714	0.7475557902	0.428	1.078495031	0.809	0.547	MRT2	
GADD45A	0.714	0.5058348516	0.428	0.7297654318	0.462	0.037	MRT2	
PVT1	0.713	0.5131764621	0.426	0.7403571369	0.936	0.811	MRT2	
PXDNL	0.713	0.9324044294	0.426	1.345175246	0.448	0.026	MRT2	
EGR1	0.712	0.4773603368	0.424	0.6886853906	0.569	0.145	MRT2	
KIFC3	0.711	0.5646205695	0.422	0.8145752956	0.514	0.107	MRT2	
SLC2A13	0.711	0.6780559196	0.422	0.9782279127	0.564	0.154	MRT2	
AFAP1	0.711	0.6357571674	0.422	0.9172037126	0.485	0.073	MRT2	
MTRNR2L8	0.71	0.5476436268	0.42	0.7900827445	0.65	0.307	MRT2	
CYP27C1	0.71	0.5045634567	0.42	0.7279311969	0.443	0.028	MRT2	
DENND1B	0.71	0.530947014	0.42	0.7659946241	0.487	0.07	MRT2	
SPIDR	0.709	0.4959246401	0.418	0.7154680189	0.898	0.681	MRT2	
C4orf19	0.709	0.5383960926	0.418	0.7767413729	0.426	0.009	MRT2	
FOS	0.708	0.489595467	0.416	0.7063369523	0.482	0.068	MRT2	
GNG12	0.708	0.4680317762	0.416	0.6752271225	0.478	0.062	MRT2	
QRFPR	0.707	0.7301743548	0.414	1.053418921	0.416	0.001	MRT2	
RIN2	0.707	0.5628160537	0.414	0.8119719296	0.566	0.156	MRT2	
NCS1	0.707	0.5016680759	0.414	0.7237540453	0.564	0.179	MRT2	
DNAH5	0.707	0.5518945593	0.414	0.7962155437	0.429	0.016	MRT2	
MSTN	0.707	0.5769449483	0.414	0.8323556158	0.433	0.02	MRT2	
HMCN2	0.706	0.5923722409	0.412	0.8546124943	0.426	0.015	MRT2	
NAALADL2	0.706	0.5258948648	0.412	0.7587059134	0.761	0.415	MRT2	
CAPG	0.706	0.4378826678	0.412	0.6317311533	0.476	0.066	MRT2	
UHRF2	0.704	0.6010439549	0.408	0.8671231331	0.668	0.33	MRT2	
NSMCE2	0.704	0.4459199704	0.408	0.64332653	0.857	0.608	MRT2	
SFN	0.704	0.5524848068	0.408	0.7970670909	0.477	0.082	MRT2	
JSRP1	0.703	0.4503672949	0.406	0.649742663	0.423	0.019	MRT2	
RFX2	0.702	0.49801299	0.404	0.718480871	0.607	0.236	MRT2	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NIBAN2	0.702	0.4994108696	0.404	0.7204975849	0.466	0.068	MRT2	
SORCS2	0.701	0.59684251	0.402	0.8610617293	0.431	0.031	MRT2	
MALL	0.701	0.4813714739	0.402	0.6944722383	0.408	0.006	MRT2	
NTS	0.996	3.42939825	0.992	4.947575848	0.999	0.078	MRT3	
EPHA7	0.979	2.912847149	0.958	4.202350137	0.99	0.226	MRT3	
SCG2	0.977	2.736218995	0.954	3.947529575	0.972	0.109	MRT3	
HGF	0.958	2.289811498	0.916	3.303499692	0.924	0.027	MRT3	
NCAM2	0.953	2.335019659	0.906	3.368721282	0.982	0.237	MRT3	
LGALS1	0.946	1.473286918	0.892	2.12550373	0.989	0.673	MRT3	
OLFM3	0.946	2.393857484	0.892	3.453606321	0.893	0.007	MRT3	
CCDC102B	0.934	2.03039304	0.868	2.92923797	0.992	0.329	MRT3	
MIF	0.932	1.624421541	0.864	2.343544902	0.895	0.079	MRT3	
NHSL1	0.923	1.973683033	0.846	2.847422723	0.889	0.157	MRT3	
ZFHX3	0.922	1.452398893	0.844	2.09536868	0.99	0.722	MRT3	
PCDH17	0.922	2.499806114	0.844	3.606457884	0.851	0.019	MRT3	
KIF21A	0.917	2.16732854	0.834	3.126794137	0.862	0.117	MRT3	
CTNNA3	0.91	1.79648467	0.82	2.591779525	0.915	0.142	MRT3	
AGMO	0.91	2.247130422	0.82	3.241923917	0.893	0.218	MRT3	
ARHGAP32	0.909	1.594106226	0.818	2.299809148	0.918	0.281	MRT3	
EPHA5	0.9	1.747460783	0.8	2.521053006	0.957	0.325	MRT3	
FOXN3	0.898	1.337801094	0.796	1.930039004	0.983	0.633	MRT3	
USP9X	0.895	1.228058176	0.79	1.77171344	0.959	0.642	MRT3	
NFIB	0.895	1.350445758	0.79	1.948281399	0.987	0.421	MRT3	
MAML2	0.886	1.608544027	0.772	2.320638491	0.994	0.41	MRT3	
CDH18	0.885	2.77955226	0.77	4.010046261	0.781	0.029	MRT3	
AL117329.1	0.884	1.351897022	0.768	1.950375129	0.777	0.013	MRT3	
MBNL1	0.883	1.589173312	0.766	2.292692456	0.972	0.644	MRT3	
SORBS2	0.88	1.405445679	0.76	2.027629511	0.933	0.429	MRT3	
ZFHX4	0.876	1.368927782	0.752	1.974945322	0.836	0.145	MRT3	
NR2F1	0.875	1.168162981	0.75	1.685302939	0.901	0.388	MRT3	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TNKS	0.874	1.523886476	0.748	2.198503461	0.935	0.638	MRT3	
MET	0.874	1.373300279	0.748	1.981253501	0.835	0.12	MRT3	
ZNF804A	0.871	2.783811445	0.742	4.016190966	0.749	0.013	MRT3	
BICC1	0.865	1.477526481	0.73	2.131620127	0.778	0.051	MRT3	
TMX3	0.864	1.319204498	0.728	1.903209788	0.838	0.303	MRT3	
NR2F1-AS1	0.861	1.289536104	0.722	1.860407342	0.872	0.352	MRT3	
TMSB4X	0.86	1.212685404	0.72	1.749535219	0.999	0.732	MRT3	
STMN2	0.86	1.258796639	0.72	1.816059669	0.742	0.033	MRT3	
PRICKLE1	0.855	1.746490595	0.71	2.519653321	0.783	0.134	MRT3	
FSTL5	0.855	1.86727663	0.71	2.693910734	0.789	0.09	MRT3	
NRXN1	0.851	1.320179178	0.702	1.904615954	0.759	0.055	MRT3	
MSX1	0.85	1.297987947	0.7	1.872600775	0.824	0.292	MRT3	
FGD4	0.849	1.418500116	0.698	2.046463083	0.822	0.226	MRT3	
AP1S3	0.849	1.217966037	0.698	1.757153561	0.75	0.113	MRT3	
CAV1	0.847	1.159764117	0.694	1.67318594	0.871	0.178	MRT3	
CDH2	0.844	1.830081246	0.688	2.640249138	0.72	0.049	MRT3	
MIR100HG	0.843	1.254105464	0.686	1.809291733	0.945	0.448	MRT3	
ALDH7A1	0.843	1.119733703	0.686	1.61543426	0.899	0.527	MRT3	
ZNF608	0.841	1.155100977	0.682	1.666458451	0.811	0.29	MRT3	
ANKS1B	0.825	1.827525922	0.65	2.636562585	0.745	0.138	MRT3	
SOX5	0.825	1.47843734	0.65	2.132934219	0.672	0.028	MRT3	
ARID5B	0.82	0.9694252989	0.64	1.398585071	0.93	0.549	MRT3	
TENM2	0.818	1.662934253	0.636	2.399107	0.86	0.447	MRT3	
DST	0.814	0.8384321208	0.628	1.209601863	0.991	0.818	MRT3	
CERS6	0.813	1.014387783	0.626	1.463452224	0.889	0.561	MRT3	
MGAT4C	0.81	1.560831835	0.62	2.251804348	0.627	0.011	MRT3	
PCDH18	0.809	1.086005415	0.618	1.566774627	0.715	0.129	MRT3	
EMP3	0.806	0.8513710235	0.612	1.228268754	0.9	0.609	MRT3	
GCG	0.806	1.7084615	0.612	2.464788934	0.618	0.006	MRT3	
HBB	0.804	1.4930899	0.608	2.154073395	0.623	0.017	MRT3	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
KLF6	0.804	0.9786419058	0.608	1.411881824	0.777	0.301	MRT3	
VIM	0.803	0.8469814218	0.606	1.221935897	0.997	0.9	MRT3	
LINC01322	0.8	1.24921541	0.6	1.802236877	0.608	0.012	MRT3	
SHTN1	0.791	0.8470611444	0.582	1.222050912	0.664	0.115	MRT3	
MLLT10	0.789	0.7495748594	0.578	1.081407932	0.933	0.735	MRT3	
TECRL	0.787	1.619006251	0.574	2.33573229	0.576	0.003	MRT3	
ZFH4-AS1	0.785	0.8869544984	0.57	1.279604856	0.584	0.019	MRT3	
ZNF385D	0.782	1.822929816	0.564	2.629931805	0.602	0.051	MRT3	
TPM2	0.781	0.8042722612	0.562	1.160319603	0.859	0.589	MRT3	
CADM2	0.778	0.7060094813	0.556	1.018556378	0.979	0.474	MRT3	
CRYBG3	0.776	1.438351085	0.552	2.075101977	0.606	0.088	MRT3	
VCAN	0.772	1.037024751	0.544	1.496110466	0.731	0.298	MRT3	
ADAMTS20	0.771	1.091350387	0.542	1.574485792	0.567	0.033	MRT3	
ACTG1	0.77	0.7644617707	0.54	1.102885206	0.976	0.888	MRT3	
MARCKS	0.77	0.7987029236	0.54	1.152284747	0.81	0.317	MRT3	
COL3A1	0.77	0.7567538972	0.54	1.091765095	0.971	0.797	MRT3	
MIR99AHG	0.768	0.6048057863	0.536	0.8725503087	0.997	0.753	MRT3	
SLITRK5	0.764	0.7500690236	0.528	1.082120861	0.709	0.24	MRT3	
MMP16	0.764	1.287856188	0.528	1.857983736	0.625	0.136	MRT3	
HAPLN1	0.763	1.053617412	0.526	1.520048615	0.53	0.005	MRT3	
SPC25	0.763	1.078574149	0.526	1.556053575	0.622	0.158	MRT3	
TENM3	0.761	0.6766856819	0.522	0.9762510776	0.781	0.233	MRT3	
TMSB10	0.761	0.7097683976	0.522	1.023979347	0.963	0.831	MRT3	
CREB5	0.76	1.407276478	0.52	2.030270796	0.558	0.054	MRT3	
HES4	0.758	0.8231827505	0.516	1.187601672	0.597	0.118	MRT3	
STX18	0.757	0.7207497283	0.514	1.039822059	0.787	0.457	MRT3	
DDT	0.755	0.682857586	0.51	0.985155253	0.532	0.025	MRT3	
RBMS3	0.755	0.6587783336	0.51	0.9504162349	0.799	0.27	MRT3	
MALAT1	0.754	0.8011857629	0.508	1.155866727	1	0.999	MRT3	
ADAMTS6	0.754	0.7924892102	0.508	1.143320253	0.891	0.516	MRT3	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ADAMTS3	0.753	1.119160387	0.506	1.61460714	0.575	0.114	MRT3	
FAM171B	0.752	0.9979507724	0.504	1.43973863	0.624	0.196	MRT3	
AC103923.1	0.752	0.8105166237	0.504	1.169328314	0.54	0.051	MRT3	
ZNF217	0.748	0.6541343662	0.496	0.9437164062	0.826	0.534	MRT3	
BNC2	0.748	0.295253593	0.496	0.4259608944	0.945	0.521	MRT3	
BCHE	0.747	0.7872053949	0.494	1.135697319	0.499	0.006	MRT3	
SLIT2	0.747	1.415161222	0.494	2.041646076	0.611	0.127	MRT3	
ATG4C	0.747	0.9033496103	0.494	1.303258003	0.614	0.191	MRT3	
CRIP1	0.746	0.729163111	0.492	1.051960004	0.609	0.149	MRT3	
MYL9	0.745	0.6255369094	0.49	0.9024589971	0.801	0.491	MRT3	
LRRTM3	0.744	0.8971272137	0.488	1.294280982	0.534	0.052	MRT3	
UBE2E2	0.744	0.6383305968	0.488	0.9209163865	0.701	0.218	MRT3	
SOX17	0.743	0.7700547912	0.486	1.110954229	0.488	0.002	MRT3	
MACROD2	0.743	0.8447235762	0.486	1.218678514	0.613	0.148	MRT3	
PLPP2	0.743	0.7425996258	0.486	1.071344798	0.497	0.015	MRT3	
AC020584.1	0.741	1.014292315	0.482	1.463314493	0.482	0.001	MRT3	
KRAS	0.74	0.7137711375	0.48	1.02975408	0.647	0.264	MRT3	
HSPA1A	0.74	0.967078404	0.48	1.395199218	0.533	0.067	MRT3	
PITPNC1	0.739	0.979621633	0.478	1.413295272	0.743	0.409	MRT3	
MED14	0.738	0.7600734006	0.476	1.096554126	0.634	0.246	MRT3	
HLA-C	0.736	0.66403933	0.472	0.9580062484	0.582	0.144	MRT3	
ATF5	0.732	0.6937283362	0.464	1.00083843	0.532	0.09	MRT3	
SYNE2	0.732	1.181496545	0.464	1.704539207	0.727	0.401	MRT3	
EPHA5-AS1	0.731	0.687185302	0.462	0.9913988273	0.617	0.179	MRT3	
PRAME	0.73	0.555714891	0.46	0.8017271174	0.506	0.053	MRT3	
ID4	0.73	0.8029835915	0.46	1.158460445	0.606	0.218	MRT3	
NOVA1	0.729	0.6927558605	0.458	0.9994354445	0.702	0.301	MRT3	
RPS6KA3	0.728	1.16530854	0.456	1.681184852	0.594	0.213	MRT3	
AL583785.1	0.727	0.8746359258	0.454	1.261832913	0.512	0.061	MRT3	
HEY1	0.727	0.6687300919	0.454	0.9647735873	0.498	0.054	MRT3	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ARHGEF26	0.727	0.855780305	0.454	1.234630002	0.552	0.141	MRT3	
RPS21	0.726	0.5757499985	0.452	0.8306316676	0.92	0.81	MRT3	
POSTN	0.725	1.283748771	0.45	1.852057986	0.527	0.091	MRT3	
CFL1	0.725	0.6057909338	0.45	0.873971576	0.907	0.762	MRT3	
SELENOW	0.724	0.6597180043	0.448	0.9517718932	0.711	0.413	MRT3	
IRS1	0.724	0.6519934087	0.448	0.9406276575	0.59	0.197	MRT3	
MPDZ	0.723	0.6361795817	0.446	0.9178131276	0.696	0.349	MRT3	
TSPO	0.722	0.6071661831	0.444	0.8759556413	0.566	0.156	MRT3	
FER	0.722	0.9342075938	0.444	1.347776663	0.849	0.616	MRT3	
VWTR1	0.722	0.7181526803	0.444	1.03607531	0.757	0.435	MRT3	
DMD	0.719	0.2004761645	0.438	0.2892259684	0.972	0.445	MRT3	
MDGA2	0.718	1.031617842	0.436	1.488309945	0.593	0.176	MRT3	
FAM155A	0.718	0.9823019791	0.436	1.417162194	0.491	0.059	MRT3	
PLP2	0.717	0.6002450988	0.434	0.8659706273	0.609	0.242	MRT3	
NME3	0.716	0.5830543707	0.432	0.8411696492	0.664	0.338	MRT3	
SEMA6A	0.713	1.211232257	0.426	1.747438771	0.494	0.094	MRT3	
PLCG2	0.712	1.328371365	0.424	1.916434781	0.973	0.955	MRT3	
NSG1	0.712	0.5777201469	0.424	0.833473991	0.483	0.075	MRT3	
ITGAV	0.708	0.7081773778	0.416	1.021683991	0.768	0.505	MRT3	
MYO1E	0.707	0.7012700501	0.414	1.011718824	0.588	0.2	MRT3	
CHCHD10	0.706	0.5269725426	0.412	0.7602606739	0.462	0.056	MRT3	
KRR1	0.706	0.6482945051	0.412	0.9352912675	0.593	0.263	MRT3	
ITGB1	0.706	0.4647898093	0.412	0.6705499529	0.983	0.905	MRT3	
MT-ND4L	0.702	0.7262196283	0.404	1.047713456	0.92	0.779	MRT3	
KPNA2	0.702	0.6970658494	0.404	1.005653444	0.652	0.37	MRT3	
RPS27L	0.702	0.6605898975	0.404	0.9530297692	0.77	0.543	MRT3	
CAPZA2	0.701	0.5685310818	0.402	0.8202169723	0.638	0.336	MRT3	
COL21A1	0.986	2.679088106	0.972	3.865107124	0.98	0.041	MRT4	
PDZRN4	0.984	3.338399338	0.968	4.81629217	0.97	0.015	MRT4	
PTPRD	0.981	2.646327102	0.962	3.817842987	0.99	0.219	MRT4	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CSMD3	0.981	2.671039004	0.962	3.853494726	0.979	0.227	MRT4	
LSAMP	0.98	2.651690687	0.96	3.825581004	0.997	0.596	MRT4	
AC092691.1	0.979	2.643076064	0.958	3.81315273	0.961	0.013	MRT4	
SEMA3D	0.978	2.504366427	0.956	3.613037025	0.98	0.152	MRT4	
LAMA2	0.974	2.384873571	0.948	3.440645275	0.971	0.097	MRT4	
DPYD	0.967	2.341224416	0.934	3.377672855	0.98	0.152	MRT4	
GRID2	0.958	3.446284232	0.916	4.971937171	0.92	0.018	MRT4	
PTPRK	0.952	2.164264881	0.904	3.122374211	0.922	0.039	MRT4	
LGR4	0.948	1.953472018	0.896	2.818264393	0.915	0.062	MRT4	
ERBB4	0.946	1.928241728	0.892	2.781864779	0.997	0.477	MRT4	
LRFN5	0.944	2.40543609	0.888	3.470310718	0.898	0.031	MRT4	
SHROOM3	0.944	1.75222271	0.888	2.527923014	0.974	0.507	MRT4	
LINC02506	0.935	2.061019118	0.87	2.973422061	0.873	0.005	MRT4	
PRR16	0.932	2.076040137	0.864	2.99509281	0.881	0.028	MRT4	
BMP5	0.931	2.001626187	0.862	2.887736174	0.866	0.009	MRT4	
BMPR1B	0.928	2.117422036	0.856	3.054794271	0.861	0.017	MRT4	
CCSER1	0.928	2.207033398	0.856	3.184076138	0.936	0.4	MRT4	
AL390957.1	0.925	2.532752104	0.85	3.6539889	0.873	0.106	MRT4	
ZEB2	0.924	1.548170569	0.848	2.233538002	0.919	0.112	MRT4	
GPC5	0.918	3.119993787	0.836	4.501199565	0.877	0.174	MRT4	
MIR137HG	0.913	1.548565772	0.826	2.23410816	0.877	0.072	MRT4	
COL1A2	0.91	1.111176651	0.82	1.603089044	0.973	0.315	MRT4	
CADM2	0.908	1.581740605	0.816	2.281969327	0.998	0.481	MRT4	
PALLD	0.906	1.561313988	0.812	2.252499948	0.877	0.117	MRT4	
NAV3	0.893	1.458798047	0.786	2.104600708	0.992	0.452	MRT4	
RBMS3	0.893	1.474451211	0.786	2.12718345	0.937	0.258	MRT4	
NELL2	0.888	2.139205071	0.776	3.086220547	0.781	0.016	MRT4	
CHN1	0.886	1.386151418	0.772	1.999793776	0.824	0.117	MRT4	
BRINP3	0.886	1.848154502	0.772	2.666323334	0.841	0.086	MRT4	
ARHGAP28	0.883	1.423728838	0.766	2.054006534	0.781	0.022	MRT4	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ANO3	0.883	1.639506667	0.766	2.365308138	0.778	0.014	MRT4	
EFNA5	0.881	1.549947263	0.762	2.23610123	0.897	0.251	MRT4	
IMMP2L	0.879	1.339637592	0.758	1.93268851	0.993	0.842	MRT4	
CHL1	0.874	1.43912004	0.748	2.076211345	0.779	0.061	MRT4	
EPHA3	0.873	1.39495845	0.746	2.012499638	0.907	0.198	MRT4	
IGF1R	0.87	1.122626532	0.74	1.619607731	0.931	0.53	MRT4	
RBMS1	0.869	1.295479728	0.738	1.868982179	0.85	0.195	MRT4	
ALCAM	0.865	1.215636293	0.73	1.753792451	0.93	0.243	MRT4	
ADGRL2	0.864	1.186833675	0.728	1.712239057	0.948	0.295	MRT4	
MID1	0.858	1.475542063	0.716	2.128757217	0.851	0.209	MRT4	
TENM3	0.857	1.232177052	0.714	1.777655722	0.905	0.224	MRT4	
DSEL	0.85	1.145083674	0.7	1.652006538	0.784	0.129	MRT4	
PDGFC	0.844	1.271038625	0.688	1.833721121	0.792	0.217	MRT4	
TFPI2	0.843	1.167598177	0.686	1.6844881	0.736	0.063	MRT4	
LINC00882	0.843	1.619240681	0.686	2.336070501	0.715	0.056	MRT4	
LINC01776	0.839	1.067194244	0.678	1.539635843	0.7	0.027	MRT4	
MDK	0.839	1.034763297	0.678	1.492847876	0.973	0.805	MRT4	
LIN7A	0.836	1.109371302	0.672	1.600484476	0.794	0.137	MRT4	
SOX6	0.834	0.7744481248	0.668	1.117292469	0.928	0.23	MRT4	
PDLIM5	0.834	0.9054369765	0.668	1.306269436	0.911	0.276	MRT4	
NRG1	0.833	0.5802053234	0.666	0.8370593427	0.966	0.341	MRT4	
SPARC	0.833	1.026143834	0.666	1.48041262	0.877	0.382	MRT4	
KCND2	0.832	1.386511625	0.664	2.000313445	0.774	0.109	MRT4	
CCDC178	0.829	1.455477897	0.658	2.099810744	0.695	0.055	MRT4	
COL25A1	0.829	1.856144209	0.658	2.677850046	0.671	0.023	MRT4	
RAPGEF2	0.828	1.150058758	0.656	1.659184068	0.817	0.332	MRT4	
TRIM2	0.828	1.00932827	0.656	1.45615289	0.781	0.167	MRT4	
PRPH	0.825	1.003364924	0.65	1.4475496	0.689	0.054	MRT4	
AC007319.1	0.824	1.026539304	0.648	1.480983164	0.846	0.322	MRT4	
ACSS3	0.822	1.076496789	0.644	1.553056579	0.712	0.097	MRT4	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LGR5	0.821	1.350379345	0.642	1.948185584	0.646	0.005	MRT4	
KCNH1	0.82	1.361749028	0.64	1.96458857	0.653	0.023	MRT4	
SOBP	0.817	1.007829631	0.634	1.453990811	0.811	0.334	MRT4	
DMD	0.815	0.870223274	0.63	1.255466802	0.981	0.454	MRT4	
GALNT7	0.815	1.034420879	0.63	1.492353873	0.819	0.306	MRT4	
VGLL3	0.815	1.055559223	0.63	1.522850056	0.786	0.165	MRT4	
SDK2	0.814	0.9356424963	0.628	1.349846789	0.665	0.048	MRT4	
CBLB	0.814	1.039268517	0.628	1.499347536	0.779	0.244	MRT4	
CHD7	0.812	0.9380635557	0.624	1.35333964	0.755	0.197	MRT4	
PDE4D	0.812	0.9175728724	0.624	1.323777833	0.828	0.284	MRT4	
PCDH7	0.812	0.5611687647	0.624	0.8095953939	0.932	0.29	MRT4	
LINC02315	0.809	1.050876111	0.618	1.516093754	0.62	0.003	MRT4	
NFIB	0.809	0.7492610946	0.618	1.080955265	0.965	0.435	MRT4	
ANK2	0.809	0.8638880693	0.618	1.246327034	0.997	0.572	MRT4	
GSE1	0.807	0.8458237113	0.614	1.220265674	0.896	0.553	MRT4	
BBX	0.806	0.9898742524	0.612	1.428086675	0.786	0.257	MRT4	
CDH10	0.805	1.257122871	0.61	1.813644931	0.645	0.045	MRT4	
VIM	0.803	0.7668242087	0.606	1.106293483	0.992	0.903	MRT4	
TCF12	0.801	0.8553495793	0.602	1.234008596	0.973	0.891	MRT4	
RBM20	0.799	1.031648208	0.598	1.488353754	0.655	0.087	MRT4	
GAREM1	0.797	0.9730834581	0.594	1.403862679	0.623	0.037	MRT4	
EPHA5	0.797	0.5729852818	0.594	0.8266430245	0.916	0.343	MRT4	
BACH2	0.795	1.042708652	0.59	1.504310601	0.651	0.076	MRT4	
PEG3	0.793	0.843117638	0.586	1.216361635	0.692	0.135	MRT4	
SORL1	0.792	0.8926558967	0.584	1.287830235	0.627	0.053	MRT4	
MIR4500HG	0.791	0.9601437155	0.582	1.385194577	0.801	0.269	MRT4	
KCNMB2	0.791	1.441922622	0.582	2.080254616	0.643	0.085	MRT4	
SEMA3E	0.79	1.400043457	0.58	2.019835752	0.641	0.082	MRT4	
SOX4	0.79	0.9897684427	0.58	1.427934024	0.662	0.101	MRT4	
MAML2	0.788	0.6957645774	0.576	1.003776105	0.961	0.427	MRT4	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MARCKS	0.788	0.7710512116	0.576	1.112391759	0.852	0.32	MRT4	
COL3A1	0.788	0.7233293684	0.576	1.043543693	0.966	0.801	MRT4	
FAT4	0.785	1.040289	0.57	1.500819782	0.602	0.038	MRT4	
SSBP2	0.784	0.7398721114	0.568	1.067409826	0.928	0.599	MRT4	
ZNF423	0.783	0.8249904854	0.566	1.190209682	0.655	0.104	MRT4	
LINC01876	0.783	0.99475099	0.566	1.43512232	0.603	0.05	MRT4	
LRRN3	0.781	0.8390300127	0.562	1.210464438	0.65	0.106	MRT4	
CECR2	0.78	0.6977197407	0.56	1.00659681	0.894	0.477	MRT4	
PTPRQ	0.779	1.129832212	0.558	1.63000333	0.677	0.128	MRT4	
PPM1E	0.777	1.16993974	0.554	1.687866261	0.653	0.152	MRT4	
ZIC1	0.776	0.6974308549	0.552	1.006180036	0.601	0.059	MRT4	
ATP2B4	0.776	0.784674422	0.552	1.132045897	0.742	0.297	MRT4	
TCF4	0.775	0.2173028338	0.55	0.3135017208	0.966	0.403	MRT4	
FTO	0.775	0.7687387939	0.55	1.109055646	0.863	0.555	MRT4	
ENAH	0.775	0.6617947702	0.55	0.954768033	0.933	0.732	MRT4	
NPAS3	0.773	1.40378549	0.546	2.025234366	0.616	0.084	MRT4	
TLE1	0.771	0.9285377098	0.542	1.339596749	0.633	0.132	MRT4	
MKX	0.77	0.9295292019	0.54	1.34102717	0.544	0.005	MRT4	
MAML3	0.768	0.884960102	0.536	1.276727551	0.701	0.171	MRT4	
CCDC102B	0.766	0.4328980334	0.532	0.624539846	0.888	0.358	MRT4	
COL5A2	0.766	0.736985171	0.532	1.063244851	0.919	0.485	MRT4	
CAMK2D	0.765	0.6441704129	0.53	0.9293414602	0.886	0.507	MRT4	
TENM2	0.762	0.7528394334	0.524	1.086117717	0.818	0.462	MRT4	
GTDC1	0.762	0.7654761278	0.524	1.104348614	0.748	0.333	MRT4	
SLF2	0.761	0.7132369568	0.522	1.02898342	0.818	0.484	MRT4	
PAPPA	0.761	0.9802809036	0.522	1.414246398	0.557	0.044	MRT4	
CPED1	0.758	0.8318767514	0.516	1.200144464	0.712	0.273	MRT4	
TSPAN12	0.758	0.6643800143	0.516	0.958497752	0.659	0.137	MRT4	
MVB12B	0.756	0.7716912411	0.512	1.113315127	0.681	0.253	MRT4	
AKAP6	0.755	0.4470632874	0.51	0.6449759877	0.744	0.181	MRT4	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ITGB8	0.753	0.8982309979	0.506	1.295873406	0.553	0.05	MRT4	
DUBR	0.753	0.8348803074	0.506	1.204477679	0.533	0.037	MRT4	
TRAK1	0.752	0.6544525682	0.504	0.9441754747	0.747	0.334	MRT4	
SOX2	0.751	0.683352458	0.502	0.9858692024	0.514	0.015	MRT4	
SNX7	0.751	0.7080230822	0.502	1.021461389	0.595	0.123	MRT4	
SCRG1	0.75	0.7845148631	0.5	1.131815703	0.525	0.032	MRT4	
DPYD-AS1	0.75	0.6800758325	0.5	0.981142031	0.53	0.033	MRT4	
NAALADL2	0.749	0.7758091147	0.498	1.119255963	0.795	0.41	MRT4	
ASXL3	0.745	0.6747866997	0.49	0.9735114254	0.594	0.101	MRT4	
MED13L	0.745	0.5802513952	0.49	0.8371258103	0.947	0.836	MRT4	
CDON	0.745	0.8343547495	0.49	1.203719459	0.584	0.123	MRT4	
SEPTIN7	0.744	0.5917327299	0.488	0.8536898749	0.901	0.761	MRT4	
LUM	0.742	0.6176950962	0.484	0.8911456521	0.712	0.232	MRT4	
MAN2A1	0.741	1.032038729	0.482	1.488917156	0.703	0.366	MRT4	
IGF2BP2	0.738	0.526058578	0.476	0.7589421017	0.928	0.766	MRT4	
AC090531.1	0.737	0.5899760227	0.474	0.8511554822	0.475	0.001	MRT4	
TANK	0.737	0.8297611079	0.474	1.197092236	0.662	0.278	MRT4	
BCAS1	0.736	1.083530206	0.472	1.563203655	0.481	0.013	MRT4	
MIR100HG	0.736	0.5446485248	0.472	0.7857617258	0.89	0.466	MRT4	
NR6A1	0.736	0.7574909766	0.472	1.092828475	0.862	0.675	MRT4	
PLPP1	0.736	0.7380984486	0.472	1.064850971	0.636	0.225	MRT4	
TMPRSS15	0.734	1.348285599	0.468	1.945164948	0.492	0.028	MRT4	
BAZ2B	0.734	0.6724246259	0.468	0.9701036732	0.832	0.593	MRT4	
DCN	0.732	0.431824387	0.464	0.6229909017	0.871	0.358	MRT4	
HERC4	0.732	0.6652848619	0.464	0.959803171	0.848	0.619	MRT4	
ZBTB20	0.732	0.6402420957	0.464	0.9236740965	0.857	0.556	MRT4	
ARHGAP15	0.732	0.7683545979	0.464	1.108501368	0.489	0.023	MRT4	
OAF	0.728	0.7206050658	0.456	1.039613355	0.557	0.132	MRT4	
EPHA5-AS1	0.726	0.5847321511	0.452	0.8435901747	0.63	0.185	MRT4	
MIRLET7BHG	0.725	0.5524069527	0.45	0.7969547712	0.656	0.231	MRT4	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
KCNMB2-AS1	0.723	0.7658053712	0.446	1.104823611	0.512	0.08	MRT4	
TIAM1	0.722	0.8785852306	0.444	1.267530555	0.567	0.156	MRT4	
SLIT2	0.722	0.8457026002	0.444	1.220090947	0.588	0.14	MRT4	
PLEKHG1	0.72	0.8201626541	0.44	1.183244594	0.524	0.096	MRT4	
MIR548XHG	0.719	1.237324006	0.438	1.785081207	0.454	0.019	MRT4	
ZFAND3	0.719	0.4329477068	0.438	0.6246115096	0.967	0.875	MRT4	
PKNOX2	0.718	0.6361409678	0.436	0.9177574195	0.564	0.157	MRT4	
ELOVL6	0.718	0.6713196459	0.436	0.968509524	0.69	0.373	MRT4	
QKI	0.714	0.4348137572	0.428	0.6273036513	0.911	0.727	MRT4	
RGS21	0.711	0.5958581486	0.422	0.859641596	0.424	0.001	MRT4	
SPRY2	0.71	0.5450702536	0.42	0.7863701519	0.444	0.026	MRT4	
PLS3	0.709	0.6481983599	0.418	0.9351525594	0.632	0.287	MRT4	
SEMA3A	0.709	0.3357267458	0.418	0.4843513112	0.962	0.554	MRT4	
ZNF518A	0.707	0.4907670192	0.414	0.7080271448	0.761	0.488	MRT4	
SC5D	0.706	0.5282587899	0.412	0.7621163365	0.509	0.117	MRT4	
TTY14	0.705	0.5654197496	0.41	0.8157282688	0.689	0.362	MRT4	
IGF2BP3	0.704	0.4648918661	0.408	0.6706971898	0.901	0.761	MRT4	
NCAM2	0.703	0.3812266798	0.406	0.5499938404	0.711	0.295	MRT4	
ANOS1	0.702	1.021607603	0.404	1.473868223	0.411	0.009	MRT4	
ANKRD50	0.702	0.5519537794	0.404	0.7963009804	0.549	0.18	MRT4	
ARMC4	0.701	0.6249152258	0.402	0.9015620972	0.414	0.013	MRT4	
HDAC9	0.701	1.007700464	0.402	1.453804463	0.474	0.08	MRT4	
KLHDC8A	0.701	0.5923537127	0.402	0.8545857638	0.41	0.01	MRT4	
SSBP3	0.701	0.4803780672	0.402	0.6930390553	0.821	0.585	MRT4	
PTPRC	0.883	1.517877736	0.766	2.189834682	0.782	0.032	Immune_Cell	
DOCK8	0.864	1.51118523	0.728	2.180179438	0.739	0.017	Immune_Cell	
DOCK4	0.863	2.275021161	0.726	3.282161746	0.754	0.077	Immune_Cell	
LRMDA	0.862	2.084135791	0.724	3.00677237	0.749	0.05	Immune_Cell	
DOCK2	0.862	1.362306614	0.724	1.965392997	0.737	0.027	Immune_Cell	
LDLRAD4	0.85	1.464114958	0.7	2.112271389	0.737	0.043	Immune_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CHST11	0.848	1.639925692	0.696	2.365912663	0.786	0.233	Immune_Cell	
FMN1	0.839	1.891027204	0.678	2.728175569	0.687	0.018	Immune_Cell	
SAT1	0.83	1.918381302	0.66	2.767639191	0.79	0.339	Immune_Cell	
RUNX1	0.825	1.501868844	0.65	2.166738734	0.693	0.063	Immune_Cell	
ARHGAP26	0.824	1.408895192	0.648	2.032606107	0.698	0.075	Immune_Cell	
PTPRJ	0.819	1.348579288	0.638	1.945588651	0.698	0.119	Immune_Cell	
PLXDC2	0.819	1.633219993	0.638	2.356238385	0.769	0.196	Immune_Cell	
CELF2	0.818	1.210452517	0.636	1.746313844	0.734	0.142	Immune_Cell	
ETV6	0.817	1.224918265	0.634	1.767183506	0.786	0.372	Immune_Cell	
ZEB2	0.816	1.507229355	0.632	2.174472316	0.773	0.213	Immune_Cell	
SAMSN1	0.811	1.282848911	0.622	1.850759762	0.624	0.004	Immune_Cell	
NEAT1	0.81	1.206751042	0.62	1.740973744	0.994	0.863	Immune_Cell	
MTSS1	0.808	1.6413995	0.616	2.368038919	0.631	0.025	Immune_Cell	
ATXN1	0.808	1.140323607	0.616	1.645139213	0.683	0.084	Immune_Cell	
VAV3	0.806	1.178434127	0.612	1.700121071	0.633	0.022	Immune_Cell	
ABCA1	0.799	1.67068042	0.598	2.410282356	0.672	0.163	Immune_Cell	
CTSB	0.798	1.670092205	0.596	2.409433741	0.702	0.27	Immune_Cell	
ELMO1	0.798	1.204526544	0.596	1.737764472	0.698	0.148	Immune_Cell	
ARHGAP15	0.798	1.247000722	0.596	1.799041757	0.652	0.076	Immune_Cell	
MGAT5	0.798	1.291059087	0.596	1.862604543	0.726	0.26	Immune_Cell	
SYK	0.797	1.129431074	0.594	1.62942461	0.596	0.004	Immune_Cell	
NPL	0.797	1.168158347	0.594	1.685296254	0.603	0.016	Immune_Cell	
CD74	0.79	1.82031293	0.58	2.626156437	0.637	0.122	Immune_Cell	
AFF1	0.789	1.09626093	0.578	1.581570207	0.648	0.119	Immune_Cell	
MYO5A	0.788	1.126829901	0.576	1.62567191	0.676	0.201	Immune_Cell	
DPYD	0.788	0.6088483638	0.576	0.8783825152	0.877	0.254	Immune_Cell	
GNAQ	0.787	0.8679302066	0.574	1.252158605	0.946	0.708	Immune_Cell	
SLC9A9	0.787	1.755302497	0.574	2.532366208	0.594	0.027	Immune_Cell	
DOCK10	0.785	1.162048917	0.57	1.676482211	0.583	0.019	Immune_Cell	
MSR1	0.783	1.508377155	0.566	2.176128242	0.572	0.01	Immune_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
RNASE1	0.782	1.829502105	0.564	2.639413614	0.581	0.034	Immune_Cell	
FYB1	0.78	1.140082354	0.56	1.644791158	0.564	0.004	Immune_Cell	
APBB1IP	0.779	0.9927081078	0.558	1.432175064	0.564	0.008	Immune_Cell	
FMNL2	0.778	1.787023703	0.556	2.578130234	0.708	0.384	Immune_Cell	
TBXAS1	0.777	1.050477785	0.554	1.515519092	0.562	0.013	Immune_Cell	
AKAP13	0.776	0.7138869211	0.552	1.029921121	0.911	0.654	Immune_Cell	
B2M	0.773	1.069509899	0.546	1.542976627	0.847	0.601	Immune_Cell	
BMP2K	0.773	1.434267692	0.546	2.069210886	0.659	0.251	Immune_Cell	
LYN	0.771	1.122842021	0.542	1.619918616	0.613	0.134	Immune_Cell	
DAB2	0.771	1.361389357	0.542	1.964069674	0.562	0.034	Immune_Cell	
TAOK3	0.769	0.9398770308	0.538	1.355955931	0.687	0.272	Immune_Cell	
FAM49B	0.769	0.9036708034	0.538	1.303721387	0.786	0.479	Immune_Cell	
ANKRD44	0.769	1.037163211	0.538	1.49631022	0.553	0.021	Immune_Cell	
SRGN	0.768	1.343831252	0.536	1.938738684	0.542	0.009	Immune_Cell	
UTRN	0.768	0.9746311713	0.536	1.406095558	0.659	0.149	Immune_Cell	
GAB2	0.767	1.072192967	0.534	1.546847476	0.626	0.155	Immune_Cell	
MEF2C	0.767	1.19840347	0.534	1.728930743	0.57	0.046	Immune_Cell	
RBM47	0.766	1.200230852	0.532	1.731567098	0.687	0.285	Immune_Cell	
SLCO2B1	0.765	1.132951927	0.53	1.634504126	0.536	0.008	Immune_Cell	
SP100	0.765	0.8491838706	0.53	1.225113359	0.559	0.036	Immune_Cell	
CD163	0.763	1.104385802	0.526	1.59329192	0.529	0.005	Immune_Cell	
MALAT1	0.763	0.7363472152	0.526	1.062324476	1	1	Immune_Cell	
NRP1	0.761	1.562118128	0.522	2.253660077	0.607	0.139	Immune_Cell	
PICALM	0.76	0.7730182952	0.52	1.115229661	0.834	0.607	Immune_Cell	
ATP8B4	0.758	1.249385404	0.516	1.802482126	0.521	0.006	Immune_Cell	
QKI	0.758	0.7897008753	0.516	1.139297537	0.955	0.748	Immune_Cell	
WIPF1	0.756	0.8563195803	0.512	1.235408012	0.572	0.08	Immune_Cell	
CYTH1	0.755	0.9841424377	0.51	1.419817414	0.631	0.226	Immune_Cell	
ELL2	0.754	1.383447646	0.508	1.995893058	0.551	0.067	Immune_Cell	
TGFBI	0.753	1.200621643	0.506	1.73213089	0.523	0.02	Immune_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LGMN	0.752	1.415205815	0.504	2.041710411	0.594	0.182	Immune_Cell	
March1	0.752	1.012473821	0.504	1.46069096	0.536	0.047	Immune_Cell	
FOXP1	0.752	0.8853324666	0.504	1.277264759	0.704	0.269	Immune_Cell	
FLI1	0.751	0.9536236894	0.502	1.375788168	0.521	0.021	Immune_Cell	
IKZF1	0.751	1.046953682	0.502	1.510434886	0.503	0.003	Immune_Cell	
HLA-DRB1	0.75	1.268531583	0.5	1.830104224	0.51	0.014	Immune_Cell	
ZSWIM6	0.75	0.6925641495	0.5	0.9991588639	0.749	0.264	Immune_Cell	
EPB41L3	0.747	1.048937656	0.494	1.513297155	0.508	0.017	Immune_Cell	
RIN3	0.747	0.872535762	0.494	1.258803017	0.559	0.101	Immune_Cell	
TNS3	0.747	1.154884514	0.494	1.666146161	0.67	0.317	Immune_Cell	
PARP8	0.747	0.9986633378	0.494	1.440766645	0.514	0.027	Immune_Cell	
DISC1	0.747	1.108716877	0.494	1.599540341	0.598	0.172	Immune_Cell	
LCP2	0.746	0.9379005784	0.492	1.353104513	0.495	0.004	Immune_Cell	
TBC1D22A	0.746	0.8496821169	0.492	1.225832176	0.743	0.5	Immune_Cell	
HIF1A	0.746	1.176145587	0.492	1.696819406	0.689	0.402	Immune_Cell	
RAPGEF1	0.746	0.9830755779	0.492	1.418278261	0.691	0.385	Immune_Cell	
MCTP1	0.746	0.8967171349	0.492	1.293689364	0.521	0.037	Immune_Cell	
MBP	0.744	0.8770864293	0.488	1.265368242	0.516	0.038	Immune_Cell	
ANKRD12	0.743	0.6817512662	0.486	0.9835591709	0.788	0.538	Immune_Cell	
GRB2	0.742	0.9124017867	0.484	1.316317533	0.693	0.423	Immune_Cell	
KYNU	0.742	0.9021735141	0.484	1.301561255	0.486	0.003	Immune_Cell	
C1QB	0.742	1.389936207	0.484	2.005254073	0.495	0.016	Immune_Cell	
RAB31	0.741	1.090529425	0.482	1.573301393	0.616	0.233	Immune_Cell	
MERTK	0.741	1.293368619	0.482	1.865936493	0.555	0.136	Immune_Cell	
C1QA	0.74	1.112504351	0.48	1.60500451	0.488	0.012	Immune_Cell	
ITPR2	0.74	1.079988746	0.48	1.558094407	0.659	0.297	Immune_Cell	
FNDC3B	0.739	0.8750200391	0.478	1.262387071	0.935	0.72	Immune_Cell	
RNF149	0.739	1.035664175	0.478	1.494147569	0.659	0.35	Immune_Cell	
TYROBP	0.738	0.9942627914	0.476	1.434417999	0.503	0.045	Immune_Cell	
SFMBT2	0.738	0.5740885329	0.476	0.8282346795	0.702	0.173	Immune_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MGAT4A	0.736	0.9478113469	0.472	1.36740273	0.492	0.03	Immune_Cell	
PIK3R5	0.735	0.8126021296	0.47	1.172337063	0.473	0.003	Immune_Cell	
MYO9B	0.733	0.8038476594	0.466	1.159707032	0.667	0.364	Immune_Cell	
PIK3AP1	0.733	0.7557029241	0.466	1.090248861	0.469	0.004	Immune_Cell	
CD14	0.732	0.9656848956	0.464	1.39318881	0.471	0.01	Immune_Cell	
SLC11A1	0.732	1.107547674	0.464	1.597853537	0.471	0.012	Immune_Cell	
FRMD4B	0.731	1.119941181	0.462	1.615733587	0.693	0.38	Immune_Cell	
DMXL2	0.73	0.9918284877	0.46	1.430906041	0.633	0.331	Immune_Cell	
PAG1	0.73	0.813491874	0.46	1.173620692	0.469	0.011	Immune_Cell	
FCHSD2	0.729	1.206255925	0.458	1.74025944	0.665	0.411	Immune_Cell	
DAPK1	0.729	0.921583247	0.458	1.32956358	0.512	0.069	Immune_Cell	
ANKH	0.728	1.317090024	0.456	1.900159245	0.49	0.045	Immune_Cell	
INPP5D	0.728	0.7629817312	0.456	1.10074996	0.484	0.037	Immune_Cell	
MEF2A	0.726	0.7494714283	0.452	1.081258713	0.829	0.616	Immune_Cell	
PTPRE	0.726	0.7686214664	0.452	1.108886378	0.486	0.034	Immune_Cell	
MS4A7	0.725	0.8121145733	0.45	1.171633668	0.454	0.004	Immune_Cell	
RNF213	0.725	0.7052358262	0.45	1.017440229	0.784	0.59	Immune_Cell	
MRC1	0.725	1.233020044	0.45	1.778871903	0.462	0.015	Immune_Cell	
SLC16A10	0.725	1.638922103	0.45	2.36446479	0.482	0.052	Immune_Cell	
HLA-B	0.725	0.951455776	0.45	1.37266053	0.555	0.147	Immune_Cell	
PREX1	0.724	0.7823749312	0.448	1.128728433	0.484	0.049	Immune_Cell	
MBNL1	0.724	0.4511863458	0.448	0.6509243036	0.957	0.689	Immune_Cell	
PSAP	0.723	0.9959637234	0.446	1.436871925	0.881	0.714	Immune_Cell	
LAPTM5	0.723	0.9000176331	0.446	1.298450976	0.454	0.01	Immune_Cell	
MS4A6A	0.722	0.9669810673	0.444	1.39505879	0.447	0.003	Immune_Cell	
DLEU2	0.722	0.6944826908	0.444	1.001926734	0.847	0.597	Immune_Cell	
ATG7	0.722	0.9964001778	0.444	1.437501595	0.676	0.466	Immune_Cell	
COLEC12	0.721	1.234047622	0.442	1.780354384	0.471	0.036	Immune_Cell	
ASAP1	0.721	0.7246587425	0.442	1.045461574	0.937	0.754	Immune_Cell	
SLC1A3	0.721	1.010971163	0.442	1.458523083	0.456	0.016	Immune_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NR3C1	0.72	0.6896140658	0.44	0.9949027929	0.525	0.097	Immune_Cell	
ARL15	0.72	0.7766505245	0.44	1.12046986	0.659	0.322	Immune_Cell	
FCGR2A	0.72	0.8036418464	0.44	1.159410106	0.445	0.006	Immune_Cell	
CTSS	0.72	0.7501818746	0.44	1.08228367	0.454	0.019	Immune_Cell	
HLA-DRA	0.719	1.131608631	0.438	1.63256616	0.447	0.014	Immune_Cell	
RNF144B	0.717	0.9301510612	0.434	1.341924323	0.445	0.015	Immune_Cell	
FCER1G	0.716	0.9097025316	0.432	1.312423331	0.441	0.013	Immune_Cell	
DOCK11	0.715	0.8064594761	0.43	1.163475087	0.462	0.044	Immune_Cell	
TYMP	0.715	0.772848847	0.43	1.114985199	0.497	0.096	Immune_Cell	
STAB1	0.715	0.7664693917	0.43	1.10578159	0.438	0.01	Immune_Cell	
SNX29	0.713	0.7898876186	0.426	1.13956695	0.665	0.403	Immune_Cell	
CBLB	0.713	0.9044777105	0.426	1.304885508	0.654	0.311	Immune_Cell	
CAPZB	0.713	0.6831573974	0.426	0.9855877893	0.814	0.627	Immune_Cell	
LITAF	0.712	0.908376371	0.424	1.310510086	0.518	0.148	Immune_Cell	
GPR137B	0.71	0.7877326772	0.42	1.136458027	0.454	0.046	Immune_Cell	
TNFRSF1B	0.71	0.7087611479	0.42	1.022526193	0.428	0.009	Immune_Cell	
SH3KBP1	0.709	0.6971358235	0.418	1.005754395	0.516	0.128	Immune_Cell	
GRK3	0.708	0.9145339276	0.416	1.319393562	0.566	0.253	Immune_Cell	
C1QC	0.707	1.012296767	0.414	1.460435525	0.421	0.01	Immune_Cell	
CTSC	0.707	0.7961011379	0.414	1.148531164	0.441	0.035	Immune_Cell	
KCNMA1	0.707	1.087540715	0.414	1.568989596	0.501	0.097	Immune_Cell	
SUSD6	0.706	0.7624783855	0.412	1.100023786	0.484	0.104	Immune_Cell	
EPSTI1	0.706	0.7705222904	0.412	1.111628687	0.425	0.016	Immune_Cell	
MAP3K8	0.706	0.840976552	0.412	1.213272701	0.464	0.077	Immune_Cell	
IFI16	0.706	0.7335350595	0.412	1.058267393	0.469	0.069	Immune_Cell	
PRKCB	0.705	0.8538587977	0.41	1.231857853	0.415	0.007	Immune_Cell	
CD44	0.705	0.6437854964	0.41	0.9287861431	0.581	0.152	Immune_Cell	
ARHGAP18	0.705	0.6617689473	0.41	0.9547307785	0.728	0.395	Immune_Cell	
SPP1	0.705	2.604472385	0.41	3.757459394	0.575	0.299	Immune_Cell	
LRRFIP1	0.705	0.5635070049	0.41	0.8129687615	0.754	0.508	Immune_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TLR2	0.704	0.746269755	0.408	1.076639675	0.41	0.003	Immune_Cell	
SAMHD1	0.703	0.7067909409	0.406	1.019683785	0.497	0.132	Immune_Cell	
ST3GAL1	0.703	0.660219534	0.406	0.9524954476	0.443	0.044	Immune_Cell	
LCP1	0.702	0.6941984507	0.404	1.001516662	0.408	0.006	Immune_Cell	
UBASH3B	0.702	0.746387076	0.404	1.076808933	0.456	0.066	Immune_Cell	
CTSL	0.702	1.097124121	0.404	1.582815529	0.482	0.124	Immune_Cell	
CYBB	0.701	0.8542458255	0.402	1.232416216	0.404	0.003	Immune_Cell	
ADAP2	0.701	0.7986728105	0.402	1.152241303	0.449	0.069	Immune_Cell	
SLA	0.701	0.678211855	0.402	0.9784528798	0.406	0.006	Immune_Cell	
PIK3R1	0.701	0.791464288	0.402	1.141841603	0.521	0.173	Immune_Cell	
COL1A2	0.961	2.554857195	0.922	3.685879805	0.993	0.39	Fibroblast	
COL1A1	0.956	2.935519674	0.912	4.235059676	0.984	0.466	Fibroblast	
COL6A3	0.944	2.783258794	0.888	4.015393659	0.895	0.034	Fibroblast	
COL5A1	0.921	2.039497597	0.842	2.942373069	0.874	0.116	Fibroblast	
COL3A1	0.908	1.960127831	0.816	2.827866701	1	0.82	Fibroblast	
COL12A1	0.903	2.46425284	0.806	3.555165352	0.817	0.025	Fibroblast	
CDH11	0.899	2.118056401	0.798	3.055709467	0.801	0.011	Fibroblast	
FBN1	0.896	1.91835474	0.792	2.767600869	0.865	0.306	Fibroblast	
ATXN1	0.89	1.647865047	0.78	2.377366732	0.82	0.077	Fibroblast	
CALD1	0.886	2.01514627	0.772	2.907241531	0.867	0.297	Fibroblast	
BICC1	0.881	1.950640437	0.762	2.814179285	0.857	0.146	Fibroblast	
FNDC3B	0.878	1.186339543	0.756	1.711526176	0.991	0.718	Fibroblast	
VCAN	0.877	1.623991998	0.754	2.342925202	0.898	0.351	Fibroblast	
EBF1	0.875	2.079003904	0.75	2.999368622	0.786	0.064	Fibroblast	
SLIT3	0.87	2.341085999	0.74	3.377473161	0.755	0.031	Fibroblast	
PTPRM	0.869	1.462457239	0.738	2.109879806	0.77	0.04	Fibroblast	
RBMS3	0.869	1.45431479	0.738	2.098132735	0.943	0.336	Fibroblast	
SGCD	0.868	1.72470059	0.736	2.488216989	0.743	0.013	Fibroblast	
COL6A2	0.856	1.768677081	0.712	2.551661653	0.829	0.319	Fibroblast	
PDZRN3	0.854	1.685218782	0.708	2.431256779	0.715	0.01	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
RUNX1	0.851	2.024857998	0.702	2.921252593	0.732	0.059	Fibroblast	
ROR2	0.849	1.471554977	0.698	2.123005068	0.708	0.021	Fibroblast	
CCDC80	0.849	1.662758463	0.698	2.398853389	0.727	0.065	Fibroblast	
PRRX1	0.847	1.377326239	0.694	1.987061734	0.839	0.17	Fibroblast	
RUNX1T1	0.837	1.405286078	0.674	2.027399256	0.687	0.018	Fibroblast	
TNS1	0.836	1.105522434	0.672	1.594931734	0.694	0.031	Fibroblast	
RORA	0.832	1.238186567	0.664	1.78632562	0.967	0.714	Fibroblast	
DCLK1	0.831	1.882160028	0.662	2.715382938	0.679	0.03	Fibroblast	
GLI3	0.831	1.108414515	0.662	1.599104123	0.72	0.093	Fibroblast	
FN1	0.829	2.602072077	0.658	3.753996481	0.691	0.071	Fibroblast	
SPON1	0.828	1.577932101	0.656	2.276474817	0.668	0.026	Fibroblast	
ADAMTS2	0.828	1.111792822	0.656	1.60397799	0.661	0.009	Fibroblast	
APBB2	0.828	1.208048571	0.656	1.742845682	0.781	0.277	Fibroblast	
CDK14	0.827	1.07333384	0.654	1.548493408	0.813	0.18	Fibroblast	
CACNA1C	0.826	1.349478932	0.652	1.946886564	0.732	0.11	Fibroblast	
UTRN	0.826	1.112545829	0.652	1.60506435	0.769	0.144	Fibroblast	
ARHGAP24	0.825	1.338952974	0.65	1.931700816	0.691	0.057	Fibroblast	
TSHZ2	0.821	1.708825763	0.642	2.465314453	0.684	0.063	Fibroblast	
GAS7	0.821	1.514628689	0.642	2.185147299	0.72	0.157	Fibroblast	
LDB2	0.821	1.101228214	0.642	1.588736484	0.668	0.026	Fibroblast	
ANTXR1	0.82	1.166892101	0.64	1.683469448	0.779	0.248	Fibroblast	
COL4A2	0.819	1.594741371	0.638	2.300725467	0.66	0.029	Fibroblast	
FSTL1	0.819	1.240744283	0.638	1.790015625	0.717	0.173	Fibroblast	
XYLT1	0.818	1.339069563	0.636	1.931869017	0.651	0.024	Fibroblast	
PLXDC2	0.817	1.11907698	0.634	1.61448681	0.81	0.192	Fibroblast	
FBXL7	0.817	1.102177882	0.634	1.590106565	0.895	0.429	Fibroblast	
RBMS1	0.816	1.151176011	0.632	1.660795922	0.817	0.272	Fibroblast	
LDLRAD4	0.815	1.499112089	0.63	2.162761576	0.665	0.041	Fibroblast	
MYO1D	0.815	1.172378225	0.63	1.691384252	0.689	0.097	Fibroblast	
POSTN	0.814	2.288803172	0.628	3.302044986	0.712	0.144	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
COL5A2	0.812	0.9590804214	0.624	1.383660568	0.983	0.534	Fibroblast	
SPARC	0.811	1.324723321	0.622	1.911171766	0.86	0.44	Fibroblast	
TNC	0.81	2.588679942	0.62	3.734675715	0.636	0.025	Fibroblast	
DLC1	0.81	0.7613685934	0.62	1.098422694	0.867	0.171	Fibroblast	
PALM2-AKAP2	0.807	1.171539085	0.614	1.690173628	0.67	0.081	Fibroblast	
DPYSL3	0.806	1.213156857	0.612	1.750215381	0.625	0.017	Fibroblast	
PBX1	0.806	1.406354101	0.612	2.028940087	0.648	0.052	Fibroblast	
PALLD	0.801	1.209189436	0.602	1.744491603	0.772	0.208	Fibroblast	
NHS	0.798	1.198914892	0.596	1.729668569	0.62	0.032	Fibroblast	
PRICKLE2	0.798	1.094104558	0.596	1.57845922	0.615	0.024	Fibroblast	
PEAK1	0.797	1.022313095	0.594	1.474886032	0.867	0.529	Fibroblast	
SETBP1	0.795	1.202542186	0.59	1.734901649	0.691	0.126	Fibroblast	
SYNE1	0.794	1.065945465	0.588	1.537834236	0.72	0.183	Fibroblast	
ADAMTS12	0.794	1.14464187	0.588	1.651369149	0.594	0.008	Fibroblast	
LRP1	0.793	0.8287205932	0.586	1.19559109	0.722	0.233	Fibroblast	
FAP	0.792	1.210944166	0.584	1.747023143	0.598	0.019	Fibroblast	
PLAGL1	0.791	1.134473409	0.582	1.636699161	0.661	0.139	Fibroblast	
PARD3B	0.791	0.7205716056	0.582	1.039565082	0.879	0.306	Fibroblast	
CHSY3	0.789	1.319239418	0.578	1.903260166	0.594	0.019	Fibroblast	
ZBTB20	0.788	0.8656798886	0.576	1.248912082	0.946	0.589	Fibroblast	
ZEB2	0.788	0.8984441512	0.576	1.296180921	0.786	0.21	Fibroblast	
NEAT1	0.787	0.8523882159	0.574	1.229736252	0.986	0.863	Fibroblast	
AEBP1	0.786	1.115390159	0.572	1.609167851	0.617	0.068	Fibroblast	
NNMT	0.784	1.042502404	0.568	1.504013049	0.591	0.033	Fibroblast	
SEPTIN11	0.784	0.9766871106	0.568	1.409061651	0.832	0.543	Fibroblast	
ROR1	0.783	1.235712185	0.566	1.782755841	0.577	0.015	Fibroblast	
LARGE1	0.782	1.116049498	0.564	1.610119076	0.67	0.164	Fibroblast	
COL4A1	0.782	1.615796831	0.564	2.331102075	0.589	0.031	Fibroblast	
NAALADL2	0.782	0.8942598369	0.564	1.290144232	0.858	0.453	Fibroblast	
HMCN1	0.782	1.374182382	0.564	1.982526108	0.665	0.144	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
LAMA2	0.78	1.109511887	0.56	1.600687297	0.762	0.204	Fibroblast	
IGFBP5	0.78	1.770567141	0.56	2.554388434	0.573	0.019	Fibroblast	
THBS2	0.779	1.165590523	0.558	1.681591667	0.565	0.01	Fibroblast	
PSD3	0.779	0.9157349891	0.558	1.321126328	0.584	0.029	Fibroblast	
RAI14	0.778	1.081206845	0.556	1.559851753	0.658	0.178	Fibroblast	
STARD13	0.777	0.8462332506	0.554	1.220856514	0.644	0.091	Fibroblast	
HIVEP2	0.776	0.9708103245	0.552	1.400583241	0.632	0.123	Fibroblast	
CFH	0.776	1.16478012	0.552	1.680422502	0.582	0.042	Fibroblast	
CELF2	0.775	1.268917763	0.55	1.830661364	0.656	0.14	Fibroblast	
PTPRG	0.775	0.8961808766	0.55	1.292915706	0.791	0.288	Fibroblast	
UBE2E2	0.775	0.9848711983	0.55	1.420868794	0.75	0.282	Fibroblast	
EXT1	0.773	0.9902271868	0.546	1.428595852	0.888	0.675	Fibroblast	
IGFBP7	0.773	1.632281635	0.546	2.354884621	0.575	0.043	Fibroblast	
SPATS2L	0.773	0.9544069931	0.546	1.376918236	0.653	0.141	Fibroblast	
EPS8	0.772	1.147063774	0.544	1.654863218	0.585	0.062	Fibroblast	
FYN	0.771	1.043588363	0.542	1.505579756	0.642	0.139	Fibroblast	
COL6A1	0.77	1.447643505	0.54	2.088508105	0.75	0.365	Fibroblast	
PRICKLE1	0.77	1.003333767	0.54	1.44750465	0.736	0.222	Fibroblast	
AKAP13	0.767	0.7087964051	0.534	1.022577059	0.915	0.653	Fibroblast	
ADAM12	0.767	1.629590988	0.534	2.351002837	0.546	0.017	Fibroblast	
SLIT2	0.767	1.046103429	0.534	1.50920823	0.725	0.189	Fibroblast	
TWIST2	0.767	1.336853679	0.534	1.928672173	0.568	0.058	Fibroblast	
ABI3BP	0.766	1.540775036	0.532	2.222868503	0.547	0.021	Fibroblast	
FRMD6	0.765	0.9692865259	0.53	1.398384864	0.575	0.059	Fibroblast	
OSMR	0.765	0.8585532763	0.53	1.238630554	0.575	0.063	Fibroblast	
LTBP1	0.765	1.191601028	0.53	1.719116893	0.623	0.131	Fibroblast	
NRP1	0.762	0.984384616	0.524	1.420166804	0.634	0.136	Fibroblast	
LAMA4	0.761	0.9010224813	0.522	1.299900665	0.699	0.221	Fibroblast	
MYO1B	0.76	0.9287192339	0.52	1.339858633	0.537	0.02	Fibroblast	
WIPF1	0.76	0.8271178917	0.52	1.193278881	0.58	0.078	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CASC15	0.759	1.110963829	0.518	1.602782007	0.584	0.083	Fibroblast	
DIP2C	0.757	0.7526084468	0.514	1.085784474	0.793	0.5	Fibroblast	
UST	0.757	1.014077022	0.514	1.463003891	0.534	0.023	Fibroblast	
SH3PXD2B	0.757	0.8813420276	0.514	1.271507772	0.691	0.286	Fibroblast	
KAZN	0.757	1.770042078	0.514	2.553630929	0.663	0.252	Fibroblast	
MRC2	0.755	0.7469962825	0.51	1.077687832	0.672	0.258	Fibroblast	
SULF1	0.755	1.237924195	0.51	1.785947097	0.71	0.225	Fibroblast	
TPST1	0.755	0.9663585568	0.51	1.394160698	0.706	0.373	Fibroblast	
ADAMTS9-AS2	0.754	0.9828694297	0.508	1.417980852	0.516	0.01	Fibroblast	
CLMP	0.753	0.963536609	0.506	1.390089488	0.528	0.029	Fibroblast	
COL15A1	0.753	1.051271838	0.506	1.516664668	0.516	0.012	Fibroblast	
CRISPLD2	0.75	1.47309815	0.5	2.125231395	0.509	0.013	Fibroblast	
NR3C1	0.75	0.740787164	0.5	1.068729968	0.582	0.093	Fibroblast	
MDFIC	0.747	0.8119680851	0.494	1.17142233	0.518	0.027	Fibroblast	
GLI2	0.747	0.8925653245	0.494	1.287699567	0.556	0.079	Fibroblast	
FARP1	0.745	0.7880904493	0.49	1.136974183	0.701	0.322	Fibroblast	
SEC24D	0.745	0.7175869109	0.49	1.035259078	0.675	0.266	Fibroblast	
FTO	0.744	0.7431414999	0.488	1.072126557	0.877	0.591	Fibroblast	
PDE4D	0.744	1.069925785	0.488	1.543576624	0.746	0.349	Fibroblast	
PPP3CA	0.744	0.4149149413	0.488	0.5985957282	0.739	0.218	Fibroblast	
SH3RF3	0.741	0.9035670481	0.482	1.303571699	0.532	0.062	Fibroblast	
CD44	0.74	0.8104239732	0.48	1.169194647	0.641	0.148	Fibroblast	
ZHX2	0.74	0.9064692014	0.48	1.307758622	0.509	0.039	Fibroblast	
SASH1	0.74	0.8580274269	0.48	1.237871914	0.617	0.189	Fibroblast	
LPP	0.74	0.6017568643	0.48	0.868151644	0.964	0.791	Fibroblast	
PDGFRA	0.739	0.8606157186	0.478	1.241606029	0.558	0.092	Fibroblast	
ROBO2	0.739	1.81726547	0.478	2.621759882	0.497	0.025	Fibroblast	
COL16A1	0.738	0.7716744954	0.476	1.113290968	0.541	0.096	Fibroblast	
MSC-AS1	0.737	0.9324437058	0.474	1.34523191	0.482	0.01	Fibroblast	
AUTS2	0.737	0.5210566446	0.474	0.7517258372	0.94	0.615	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
FGF7	0.733	1.326837645	0.466	1.91422209	0.473	0.009	Fibroblast	
VSTM4	0.733	0.6862211376	0.466	0.9900078322	0.494	0.034	Fibroblast	
PTPN13	0.733	0.6966919659	0.466	1.005114044	0.527	0.068	Fibroblast	
PRKD1	0.732	0.9080436848	0.464	1.310030121	0.57	0.132	Fibroblast	
LHFPL2	0.732	0.8294987503	0.464	1.196713733	0.579	0.154	Fibroblast	
KLF12	0.731	0.729080084	0.462	1.051840222	0.591	0.148	Fibroblast	
BOC	0.731	0.8430642141	0.462	1.216284561	0.473	0.014	Fibroblast	
TSHZ3	0.729	0.7544948352	0.458	1.088505957	0.484	0.031	Fibroblast	
ZNF704	0.729	0.7878306356	0.458	1.136599351	0.537	0.096	Fibroblast	
LAMB1	0.729	0.8478129723	0.458	1.223135571	0.511	0.065	Fibroblast	
JAZF1	0.729	0.9129009077	0.458	1.317037612	0.549	0.114	Fibroblast	
PLPP3	0.729	1.107814181	0.458	1.598238026	0.484	0.03	Fibroblast	
BGN	0.728	0.9694607945	0.456	1.398636281	0.465	0.012	Fibroblast	
COL14A1	0.728	0.8883788793	0.456	1.281659804	0.48	0.029	Fibroblast	
TGFBR2	0.728	0.8355043326	0.456	1.205377957	0.53	0.08	Fibroblast	
ELN	0.727	1.195620272	0.454	1.724915437	0.48	0.034	Fibroblast	
MAN1A1	0.727	0.7463771193	0.454	1.076794569	0.506	0.057	Fibroblast	
PELI2	0.726	0.8207903682	0.452	1.184150194	0.466	0.015	Fibroblast	
THRB	0.726	0.9340210212	0.452	1.347507495	0.47	0.019	Fibroblast	
TCF7L2	0.725	0.7064669301	0.45	1.019216337	0.888	0.679	Fibroblast	
RRBP1	0.721	0.5555916985	0.442	0.8015493882	0.867	0.647	Fibroblast	
PRR16	0.72	0.7520833849	0.44	1.08502697	0.598	0.134	Fibroblast	
FOXP1	0.72	0.8745415288	0.44	1.261696727	0.646	0.268	Fibroblast	
MED13L	0.719	0.5034056317	0.438	0.7262608084	0.96	0.848	Fibroblast	
TMTC2	0.719	1.015414656	0.438	1.464933689	0.491	0.064	Fibroblast	
LMNA	0.719	0.7114876191	0.438	1.02645966	0.788	0.552	Fibroblast	
LHFPL6	0.718	0.8777002131	0.436	1.266253745	0.577	0.151	Fibroblast	
TACC1	0.718	0.7372841553	0.436	1.063676195	0.591	0.219	Fibroblast	
RBFOX2	0.717	0.489666725	0.434	0.7064397558	0.926	0.723	Fibroblast	
THBS1	0.717	1.55670349	0.434	2.245848405	0.475	0.059	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MEG8	0.717	0.5071995871	0.434	0.731734329	0.877	0.433	Fibroblast	
KCNQ1OT1	0.717	0.7565036962	0.434	1.091404131	0.815	0.576	Fibroblast	
RIN2	0.716	0.622476472	0.432	0.8980437193	0.601	0.203	Fibroblast	
VMP1	0.716	0.565829464	0.432	0.8163193617	0.924	0.725	Fibroblast	
ATP10A	0.716	0.763889402	0.432	1.102059452	0.651	0.312	Fibroblast	
MALAT1	0.716	0.5561237482	0.432	0.8023169736	1	1	Fibroblast	
BASP1	0.716	0.708288951	0.432	1.021844957	0.494	0.067	Fibroblast	
STAG1	0.716	0.5318742678	0.432	0.7673323685	0.938	0.767	Fibroblast	
CBLB	0.716	0.7506316632	0.432	1.082932578	0.682	0.309	Fibroblast	
PRKCE	0.716	0.7516270411	0.432	1.084368605	0.634	0.293	Fibroblast	
KIAA1217	0.715	1.025447276	0.43	1.479407699	0.492	0.075	Fibroblast	
CACNA2D1	0.715	0.5443348637	0.43	0.7853092084	0.641	0.249	Fibroblast	
SNED1	0.715	1.045413125	0.43	1.508212331	0.554	0.149	Fibroblast	
NCALD	0.714	0.7435899916	0.428	1.072773593	0.446	0.019	Fibroblast	
TNS3	0.714	0.7508912637	0.428	1.083307102	0.655	0.316	Fibroblast	
NREP	0.714	0.93713721	0.428	1.352003206	0.532	0.139	Fibroblast	
COLEC12	0.713	0.851185023	0.426	1.228000412	0.459	0.034	Fibroblast	
TLN2	0.713	0.7941981138	0.426	1.14578568	0.573	0.217	Fibroblast	
PHLDB1	0.713	0.595346694	0.426	0.8589037231	0.558	0.172	Fibroblast	
STK3	0.713	0.5536410452	0.426	0.7987351903	0.876	0.671	Fibroblast	
GHR	0.713	0.6985378877	0.426	1.007777146	0.454	0.034	Fibroblast	
PHLDB2	0.713	0.6485940534	0.426	0.9357234244	0.447	0.021	Fibroblast	
MGP	0.712	1.465756789	0.424	2.114640051	0.44	0.023	Fibroblast	
ADAMTSL1	0.712	1.030679868	0.424	1.486956735	0.465	0.045	Fibroblast	
ANKH	0.712	1.138705817	0.424	1.642805236	0.459	0.044	Fibroblast	
MCC	0.711	0.7867941317	0.422	1.135103992	0.528	0.131	Fibroblast	
ZNF521	0.71	0.8044577124	0.42	1.160587152	0.67	0.313	Fibroblast	
ETV6	0.71	0.7320993003	0.42	1.05619603	0.668	0.372	Fibroblast	
ZCCHC24	0.71	0.5951301687	0.42	0.8585913431	0.454	0.044	Fibroblast	
PLEKHH2	0.71	0.7461666423	0.42	1.076490914	0.454	0.045	Fibroblast	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PMEPA1	0.709	0.7051330134	0.418	1.017291902	0.461	0.054	Fibroblast	
MBNL2	0.709	0.6803678882	0.418	0.9815633783	0.551	0.168	Fibroblast	
SRGAP1	0.709	0.661341664	0.418	0.954114339	0.646	0.297	Fibroblast	
MIR4435-2HG	0.709	0.7641912835	0.418	1.102494975	0.682	0.391	Fibroblast	
LIMS1	0.709	0.6075639291	0.418	0.8765294675	0.76	0.49	Fibroblast	
CPQ	0.708	0.6379093279	0.416	0.9203086239	0.608	0.252	Fibroblast	
MEG3	0.705	0.5439856333	0.41	0.7848053755	0.743	0.347	Fibroblast	
ARHGAP42	0.705	0.6128687985	0.41	0.8841827763	0.427	0.018	Fibroblast	
CCN2	0.705	0.9587385816	0.41	1.383167397	0.468	0.084	Fibroblast	
ARL15	0.705	0.6549376602	0.41	0.9448753145	0.668	0.32	Fibroblast	
IFI16	0.705	0.6502468471	0.41	0.9381079017	0.47	0.067	Fibroblast	
MON2	0.704	0.4997937103	0.408	0.7210499074	0.832	0.613	Fibroblast	
PID1	0.704	0.9754815266	0.408	1.407322361	0.416	0.009	Fibroblast	
CAMK1D	0.703	0.5673000003	0.406	0.8184408972	0.53	0.121	Fibroblast	
RNF144A	0.703	0.7829329847	0.406	1.129533534	0.465	0.076	Fibroblast	
MFAP5	0.702	0.671610025	0.404	0.9689284525	0.421	0.019	Fibroblast	
IGFBP4	0.701	0.7728954902	0.402	1.115052491	0.475	0.097	Fibroblast	
PRKG1	0.701	0.5998191343	0.402	0.8653560905	0.914	0.576	Fibroblast	
MMP16	0.701	0.6552648709	0.402	0.9453473797	0.599	0.202	Fibroblast	
MAGI2	0.701	0.2926057414	0.402	0.4221408521	0.547	0.125	Fibroblast	
AFF1	0.701	0.5438975789	0.402	0.7846783399	0.506	0.12	Fibroblast	
MAGI1	0.973	2.109902597	0.946	3.043946014	0.988	0.576	Endothelial_Cell	
VAV3	0.969	2.308394444	0.938	3.330309217	0.945	0.028	Endothelial_Cell	
LDB2	0.964	2.855013584	0.928	4.118913939	0.939	0.036	Endothelial_Cell	
ZFPM2	0.958	2.200620794	0.916	3.174824707	0.933	0.048	Endothelial_Cell	
KALRN	0.952	2.274619711	0.904	3.281582577	0.915	0.041	Endothelial_Cell	
PTPRE	0.947	2.050357357	0.894	2.958040392	0.909	0.037	Endothelial_Cell	
PIEZO2	0.942	2.21119179	0.884	3.19007543	0.891	0.019	Endothelial_Cell	
UTRN	0.94	2.016807964	0.88	2.909638847	0.921	0.154	Endothelial_Cell	
PPFIBP1	0.937	1.917968103	0.874	2.767043071	0.952	0.429	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
DOCK5	0.936	1.763957923	0.872	2.544853347	0.891	0.055	Endothelial_Cell	
RPS6KA2	0.933	1.760372881	0.866	2.539681226	0.897	0.089	Endothelial_Cell	
NRP2	0.928	1.837462124	0.856	2.650897495	0.927	0.152	Endothelial_Cell	
ARHGAP29	0.928	1.800513133	0.856	2.597591368	0.867	0.023	Endothelial_Cell	
GALNT18	0.927	1.868140045	0.854	2.695156379	0.861	0.015	Endothelial_Cell	
PROX1	0.927	2.010680326	0.854	2.900798536	0.855	0.003	Endothelial_Cell	
RASGRP3	0.923	1.771801597	0.846	2.556169378	0.855	0.019	Endothelial_Cell	
PTPRM	0.921	1.829710434	0.842	2.639714169	0.873	0.052	Endothelial_Cell	
RHOJ	0.92	1.931875897	0.84	2.787107777	0.848	0.017	Endothelial_Cell	
TGFBR2	0.919	1.643004369	0.838	2.370354255	0.879	0.085	Endothelial_Cell	
SASH1	0.916	1.665445321	0.832	2.402729705	0.885	0.194	Endothelial_Cell	
RELN	0.915	2.020207156	0.83	2.914542846	0.836	0.013	Endothelial_Cell	
FBXL7	0.912	1.720643834	0.824	2.482364327	0.958	0.437	Endothelial_Cell	
DOCK9	0.909	1.454213591	0.818	2.097986735	0.873	0.111	Endothelial_Cell	
ST3GAL6	0.909	1.539050228	0.818	2.220380132	0.83	0.02	Endothelial_Cell	
RAPGEF5	0.907	2.24055042	0.814	3.23243098	0.83	0.045	Endothelial_Cell	
PDE4D	0.906	1.532302561	0.812	2.210645306	0.952	0.355	Endothelial_Cell	
HECW2	0.904	1.451293757	0.808	2.093774306	0.83	0.043	Endothelial_Cell	
ITGA9	0.903	1.903920063	0.806	2.746776034	0.83	0.08	Endothelial_Cell	
FLT4	0.9	1.277166485	0.8	1.842561754	0.806	0.017	Endothelial_Cell	
COL4A1	0.896	1.371192043	0.792	1.978211961	0.824	0.04	Endothelial_Cell	
PLCB1	0.895	1.450820214	0.79	2.093091128	0.818	0.037	Endothelial_Cell	
COL4A2	0.895	1.430784867	0.79	2.064186232	0.824	0.039	Endothelial_Cell	
ARL15	0.893	1.560620716	0.786	2.251499767	0.903	0.325	Endothelial_Cell	
IGFBP7	0.893	1.570719851	0.786	2.266069739	0.824	0.051	Endothelial_Cell	
LRMDA	0.887	1.905956227	0.774	2.749713597	0.812	0.059	Endothelial_Cell	
LAMA4	0.887	1.335664474	0.774	1.926956513	0.897	0.228	Endothelial_Cell	
SLC9A9	0.884	2.035168372	0.768	2.936127318	0.788	0.033	Endothelial_Cell	
PEAK1	0.88	1.241959917	0.76	1.791769413	0.933	0.535	Endothelial_Cell	
SMAD1	0.88	1.313839857	0.76	1.895470247	0.879	0.252	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CHST15	0.875	1.427652965	0.75	2.059667852	0.77	0.04	Endothelial_Cell	
SGIP1	0.874	1.690358174	0.748	2.438671354	0.758	0.014	Endothelial_Cell	
AFAP1L1	0.873	1.548749522	0.746	2.234373255	0.752	0.01	Endothelial_Cell	
RALGAPA2	0.872	1.921185372	0.744	2.771684609	0.824	0.237	Endothelial_Cell	
FRMD4B	0.872	1.357368441	0.744	1.958268719	0.915	0.383	Endothelial_Cell	
SVIL	0.871	1.335500383	0.742	1.92671978	0.867	0.331	Endothelial_Cell	
FAM107B	0.87	1.359661742	0.74	1.961577252	0.8	0.136	Endothelial_Cell	
MEF2C	0.87	1.173178366	0.74	1.692538611	0.788	0.051	Endothelial_Cell	
ELK3	0.868	1.462662169	0.736	2.110175458	0.824	0.262	Endothelial_Cell	
DOCK8	0.865	1.403215266	0.73	2.024411705	0.752	0.026	Endothelial_Cell	
PLEKHG1	0.86	1.317604332	0.72	1.900901236	0.818	0.15	Endothelial_Cell	
EBF1	0.86	1.333093703	0.72	1.923247674	0.782	0.077	Endothelial_Cell	
ST6GALNAC3	0.858	1.568054999	0.716	2.26222517	0.733	0.026	Endothelial_Cell	
CCL21	0.857	2.370867288	0.714	3.420438479	0.721	0.014	Endothelial_Cell	
ASAP1	0.856	0.9605348944	0.712	1.385758929	0.976	0.756	Endothelial_Cell	
DOCK4	0.856	1.241814961	0.712	1.791560286	0.776	0.086	Endothelial_Cell	
STON2	0.854	1.541712491	0.708	2.224220966	0.715	0.012	Endothelial_Cell	
STOX2	0.854	1.941117215	0.708	2.800440179	0.739	0.058	Endothelial_Cell	
APP	0.85	1.083375439	0.7	1.562980373	0.976	0.856	Endothelial_Cell	
ZNF521	0.85	1.649595213	0.7	2.379862834	0.836	0.319	Endothelial_Cell	
MRC1	0.85	1.274477021	0.7	1.838681678	0.715	0.019	Endothelial_Cell	
SEMA6A	0.848	1.134086074	0.696	1.636140356	0.818	0.152	Endothelial_Cell	
IQSEC1	0.848	1.186671094	0.696	1.712004503	0.782	0.194	Endothelial_Cell	
MGAT5	0.846	1.381638253	0.692	1.993282656	0.818	0.266	Endothelial_Cell	
ADD3	0.845	1.128717179	0.69	1.628394677	0.842	0.324	Endothelial_Cell	
TSPAN5	0.845	1.397805412	0.69	2.016606936	0.709	0.03	Endothelial_Cell	
FYN	0.844	1.009713166	0.688	1.456708177	0.794	0.147	Endothelial_Cell	
CSGALNACT1	0.843	1.672868719	0.686	2.413439405	0.709	0.03	Endothelial_Cell	
ERG	0.842	1.225004044	0.684	1.76730726	0.697	0.017	Endothelial_Cell	
CHSY3	0.842	1.433950404	0.684	2.068753137	0.709	0.029	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ELMO1	0.841	1.371532377	0.682	1.978702959	0.782	0.154	Endothelial_Cell	
PALD1	0.839	1.08750793	0.678	1.568942297	0.745	0.154	Endothelial_Cell	
CALD1	0.838	0.9727146623	0.676	1.40333062	0.836	0.308	Endothelial_Cell	
MAP4K4	0.838	1.274762764	0.676	1.839093918	0.927	0.673	Endothelial_Cell	
LYN	0.837	1.234325885	0.674	1.780755833	0.733	0.14	Endothelial_Cell	
FOXP1	0.836	1.319486106	0.672	1.903616061	0.83	0.274	Endothelial_Cell	
CALCRL	0.836	1.231231603	0.672	1.776291728	0.861	0.289	Endothelial_Cell	
ADGRL4	0.836	1.276190631	0.672	1.841153895	0.715	0.064	Endothelial_Cell	
BMP2K	0.835	1.186895405	0.67	1.712328115	0.782	0.256	Endothelial_Cell	
TSPAN18	0.834	1.200257023	0.668	1.731604855	0.733	0.152	Endothelial_Cell	
RAI14	0.834	1.341157638	0.668	1.934881474	0.758	0.186	Endothelial_Cell	
FLRT2	0.832	1.351699152	0.664	1.950089663	0.727	0.087	Endothelial_Cell	
PECAM1	0.831	1.156032542	0.662	1.667802415	0.679	0.022	Endothelial_Cell	
EFNA5	0.83	1.170627379	0.66	1.688858315	0.903	0.336	Endothelial_Cell	
DIPK2B	0.828	1.075365682	0.656	1.551424736	0.661	0.006	Endothelial_Cell	
ZDHHC14	0.828	1.332019209	0.656	1.921697507	0.745	0.188	Endothelial_Cell	
EGFL7	0.827	1.012679251	0.654	1.460987334	0.758	0.193	Endothelial_Cell	
TANC1	0.824	1.136567018	0.648	1.639719601	0.745	0.174	Endothelial_Cell	
UNC5B	0.823	1.133613707	0.646	1.635458873	0.697	0.096	Endothelial_Cell	
PELI2	0.822	1.082775653	0.644	1.562115065	0.661	0.022	Endothelial_Cell	
PDE7B	0.822	1.795628081	0.644	2.590543728	0.661	0.028	Endothelial_Cell	
NEAT1	0.821	1.122849651	0.642	1.619929623	0.988	0.865	Endothelial_Cell	
GRB10	0.821	1.267632356	0.642	1.828806914	0.661	0.021	Endothelial_Cell	
FGD5	0.82	0.9162811388	0.64	1.321914255	0.655	0.02	Endothelial_Cell	
CASC15	0.819	1.327463886	0.638	1.915125566	0.703	0.092	Endothelial_Cell	
KDR	0.818	0.9677415416	0.636	1.396155923	0.642	0.007	Endothelial_Cell	
EPS15	0.818	0.9870552919	0.636	1.424019775	0.794	0.384	Endothelial_Cell	
STARD13	0.816	0.930989968	0.632	1.34313461	0.733	0.1	Endothelial_Cell	
MTUS1	0.816	0.9990776503	0.632	1.441364372	0.721	0.154	Endothelial_Cell	
March3	0.816	1.164147733	0.632	1.679510161	0.673	0.058	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ANKH	0.816	0.9084842804	0.632	1.310665766	0.673	0.05	Endothelial_Cell	
SYNE1	0.815	1.048715482	0.63	1.512976625	0.758	0.192	Endothelial_Cell	
LIMCH1	0.814	1.292485631	0.628	1.864662611	0.642	0.019	Endothelial_Cell	
FAM155A	0.813	1.632067191	0.626	2.354575243	0.709	0.122	Endothelial_Cell	
DYSF	0.813	1.028784378	0.626	1.48422212	0.679	0.064	Endothelial_Cell	
CD36	0.812	1.030453263	0.624	1.486629813	0.8	0.173	Endothelial_Cell	
AFDN	0.811	1.0179284	0.622	1.468560254	0.77	0.308	Endothelial_Cell	
MAN1A1	0.811	1.222398521	0.622	1.763548285	0.673	0.064	Endothelial_Cell	
CLDN5	0.81	1.680130943	0.62	2.42391658	0.624	0.009	Endothelial_Cell	
IGF1	0.809	1.235949885	0.618	1.78309877	0.63	0.015	Endothelial_Cell	
ZBTB20	0.809	0.850306035	0.618	1.2267323	0.927	0.596	Endothelial_Cell	
COLEC12	0.807	1.588286115	0.614	2.291412502	0.642	0.041	Endothelial_Cell	
FLI1	0.807	1.229653871	0.614	1.774015542	0.636	0.026	Endothelial_Cell	
TFPI	0.807	1.030970967	0.614	1.487376701	0.945	0.605	Endothelial_Cell	
MAF	0.804	0.9895998799	0.608	1.427690839	0.63	0.032	Endothelial_Cell	
SPTBN1	0.804	0.8613893459	0.608	1.242722138	0.952	0.754	Endothelial_Cell	
THSD7A	0.802	1.452682683	0.604	2.095778102	0.624	0.026	Endothelial_Cell	
MAST4	0.802	1.051856299	0.604	1.517507867	0.636	0.042	Endothelial_Cell	
CNKSR3	0.801	1.425692116	0.602	2.056838945	0.703	0.176	Endothelial_Cell	
EPHB1	0.8	1.250200243	0.6	1.803657691	0.636	0.066	Endothelial_Cell	
SCN9A	0.799	1.332258424	0.598	1.922042621	0.606	0.011	Endothelial_Cell	
ABLIM1	0.798	1.023105755	0.596	1.476029599	0.685	0.124	Endothelial_Cell	
ARHGAP31	0.798	0.8698904418	0.596	1.254986627	0.648	0.066	Endothelial_Cell	
SSH2	0.797	0.9727626092	0.594	1.403399792	0.879	0.601	Endothelial_Cell	
PCSK6	0.796	1.193381998	0.592	1.72168629	0.612	0.029	Endothelial_Cell	
PTPRB	0.796	0.9650194471	0.592	1.392228771	0.606	0.016	Endothelial_Cell	
ETS1	0.796	1.091113339	0.592	1.574143804	0.648	0.104	Endothelial_Cell	
LRCH1	0.795	0.9997624401	0.59	1.442352314	0.691	0.154	Endothelial_Cell	
ADAM10	0.794	0.9226793313	0.588	1.331144896	0.794	0.445	Endothelial_Cell	
CDK17	0.794	1.019184096	0.588	1.470371841	0.745	0.297	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
AC119673.2	0.794	1.094984028	0.588	1.579728026	0.655	0.116	Endothelial_Cell	
LHFPL6	0.793	0.8630740732	0.586	1.245152685	0.727	0.157	Endothelial_Cell	
SH2D3C	0.793	0.8127370493	0.586	1.172531711	0.612	0.039	Endothelial_Cell	
NHSL1	0.793	0.7359846654	0.586	1.061801427	0.812	0.267	Endothelial_Cell	
TIE1	0.792	0.8592706102	0.584	1.239665448	0.588	0.005	Endothelial_Cell	
DIAPH2	0.791	0.8452275297	0.582	1.219405566	0.812	0.416	Endothelial_Cell	
TSHZ2	0.791	1.765862287	0.582	2.547600764	0.636	0.075	Endothelial_Cell	
EPB41L2	0.791	0.6675950164	0.582	0.9631360194	0.945	0.55	Endothelial_Cell	
MAP3K1	0.791	1.187380324	0.582	1.713027705	0.63	0.083	Endothelial_Cell	
JAK1	0.79	0.8562686586	0.58	1.235334547	0.848	0.487	Endothelial_Cell	
TCF4	0.787	0.6051265018	0.574	0.8730130032	0.988	0.477	Endothelial_Cell	
ST3GAL1	0.787	0.8549465025	0.574	1.233427079	0.612	0.048	Endothelial_Cell	
ARHGEF7	0.785	0.8734653247	0.57	1.260144092	0.776	0.387	Endothelial_Cell	
LAMB1	0.783	0.9317084639	0.566	1.34417118	0.624	0.072	Endothelial_Cell	
TSPEAR	0.782	0.9553019028	0.564	1.378209318	0.57	0.009	Endothelial_Cell	
TRPC6	0.782	1.092664376	0.564	1.576381476	0.57	0.006	Endothelial_Cell	
RBMS1	0.782	0.7628676019	0.564	1.100585306	0.806	0.282	Endothelial_Cell	
TBX1	0.78	0.9278227663	0.56	1.338565304	0.636	0.141	Endothelial_Cell	
FNDC3B	0.78	0.70799153	0.56	1.021415869	0.97	0.723	Endothelial_Cell	
WWTR1	0.779	0.9355763429	0.558	1.34975135	0.836	0.483	Endothelial_Cell	
TIMP3	0.778	1.201911569	0.556	1.733991861	0.63	0.088	Endothelial_Cell	
MACF1	0.778	0.5738421159	0.556	0.8278791748	1	0.93	Endothelial_Cell	
ADCY4	0.777	0.748424353	0.554	1.079748103	0.57	0.019	Endothelial_Cell	
STAB2	0.777	1.834768074	0.554	2.647010802	0.558	0.006	Endothelial_Cell	
ATP11A	0.776	0.9247453423	0.552	1.334125519	0.745	0.382	Endothelial_Cell	
RBPM5	0.776	0.8713072629	0.552	1.257030667	0.782	0.371	Endothelial_Cell	
HLA-E	0.776	0.8478344693	0.552	1.223166584	0.679	0.221	Endothelial_Cell	
MTSS1	0.775	0.8551222701	0.55	1.233680658	0.582	0.034	Endothelial_Cell	
PXDN	0.775	0.9075075766	0.55	1.30925668	0.679	0.187	Endothelial_Cell	
PALM2-AKAP2	0.774	0.8218988841	0.548	1.185749444	0.624	0.092	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MYO6	0.774	0.7195055027	0.548	1.038027021	0.624	0.104	Endothelial_Cell	
SP100	0.774	0.7568280947	0.548	1.091872139	0.588	0.043	Endothelial_Cell	
NFIA	0.774	0.7875915462	0.548	1.136254418	0.921	0.659	Endothelial_Cell	
CREB5	0.773	0.7433499861	0.546	1.072427339	0.673	0.128	Endothelial_Cell	
KIAA1671	0.772	0.9255530858	0.544	1.335290847	0.733	0.342	Endothelial_Cell	
ADAMTS9	0.772	0.9437373403	0.544	1.361525181	0.558	0.014	Endothelial_Cell	
FRMD6	0.769	0.9374268256	0.538	1.352421032	0.588	0.069	Endothelial_Cell	
PPP3CA	0.769	0.5880102052	0.538	0.8483194071	0.782	0.228	Endothelial_Cell	
CDH5	0.768	0.7579014766	0.536	1.093420702	0.539	0.005	Endothelial_Cell	
FOXO1	0.767	0.9596433868	0.534	1.384472755	0.721	0.199	Endothelial_Cell	
ADAM19	0.767	0.9519221404	0.534	1.373333351	0.564	0.041	Endothelial_Cell	
GNG12	0.767	0.7917765378	0.534	1.142292085	0.618	0.115	Endothelial_Cell	
PLD1	0.766	0.9180286968	0.532	1.324435448	0.57	0.042	Endothelial_Cell	
MGST2	0.764	0.8127880742	0.528	1.172605324	0.57	0.061	Endothelial_Cell	
PHLDB2	0.764	0.9753975212	0.528	1.407201167	0.552	0.028	Endothelial_Cell	
FN1	0.764	0.8635161893	0.528	1.245790524	0.594	0.083	Endothelial_Cell	
EPB41L4A	0.763	0.8288736043	0.526	1.195811838	0.539	0.015	Endothelial_Cell	
MYO1B	0.762	0.7554015528	0.524	1.089814074	0.552	0.029	Endothelial_Cell	
THSD4	0.761	0.9803204997	0.522	1.414303523	0.624	0.13	Endothelial_Cell	
ZEB1	0.761	0.5269977036	0.522	0.7602969736	0.958	0.613	Endothelial_Cell	
NDRG1	0.761	0.9307729401	0.522	1.342821505	0.545	0.029	Endothelial_Cell	
GNG11	0.76	0.7463411667	0.52	1.0767427	0.582	0.08	Endothelial_Cell	
SH3PXD2B	0.76	0.9836208895	0.52	1.419064979	0.679	0.294	Endothelial_Cell	
NFIB	0.759	0.6672990014	0.518	0.9627089602	0.97	0.505	Endothelial_Cell	
KCNIP1	0.758	1.264638039	0.516	1.824487027	0.521	0.009	Endothelial_Cell	
ZSWIM6	0.757	0.5596516261	0.514	0.8074066256	0.8	0.27	Endothelial_Cell	
SCN3A	0.757	0.8188537505	0.514	1.181356245	0.545	0.038	Endothelial_Cell	
ARHGAP6	0.756	1.202169408	0.512	1.734363843	0.527	0.021	Endothelial_Cell	
MBNL2	0.756	0.7500187167	0.512	1.082048283	0.636	0.175	Endothelial_Cell	
FCHSD2	0.755	0.8577044049	0.51	1.237405892	0.733	0.414	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PGM5	0.755	1.525007275	0.51	2.200120433	0.515	0.008	Endothelial_Cell	
IL7	0.755	1.056214275	0.51	1.523795096	0.552	0.06	Endothelial_Cell	
ANTXR2	0.755	0.8884565718	0.51	1.28177189	0.552	0.054	Endothelial_Cell	
PDPN	0.755	0.773703332	0.51	1.11621796	0.515	0.007	Endothelial_Cell	
FAM126A	0.754	0.957028769	0.508	1.380700659	0.63	0.187	Endothelial_Cell	
SMYD2	0.753	0.9418393416	0.506	1.358786947	0.582	0.117	Endothelial_Cell	
MICAL2	0.752	0.8776503811	0.504	1.266181852	0.576	0.097	Endothelial_Cell	
ATXN1	0.751	0.7001633807	0.502	1.010122237	0.594	0.092	Endothelial_Cell	
CD99	0.75	0.7846771475	0.5	1.132049829	0.752	0.469	Endothelial_Cell	
SLC22A23	0.75	0.8767010747	0.5	1.264812293	0.552	0.067	Endothelial_Cell	
DPYSL3	0.75	0.8831877882	0.5	1.274170642	0.527	0.029	Endothelial_Cell	
KANK3	0.749	0.5827905973	0.498	0.8407891046	0.509	0.013	Endothelial_Cell	
PRKCH	0.749	0.7307193448	0.498	1.054205175	0.648	0.164	Endothelial_Cell	
GRK5	0.749	0.8373992289	0.498	1.208111715	0.612	0.149	Endothelial_Cell	
ARHGAP26	0.749	0.8660075164	0.498	1.249384749	0.576	0.085	Endothelial_Cell	
CPEB2	0.749	0.8281168366	0.498	1.194720053	0.521	0.028	Endothelial_Cell	
TSPAN9	0.748	0.9281218454	0.496	1.338996784	0.606	0.179	Endothelial_Cell	
KLHL3	0.748	0.8415858534	0.496	1.214151737	0.539	0.062	Endothelial_Cell	
PPP1R16B	0.747	0.7389235886	0.494	1.066041397	0.503	0.011	Endothelial_Cell	
SRGAP1	0.747	0.7560418255	0.494	1.090737792	0.697	0.303	Endothelial_Cell	
SHANK3	0.746	0.8357595177	0.492	1.205746112	0.527	0.052	Endothelial_Cell	
PRKCE	0.746	0.8252205655	0.492	1.190541617	0.679	0.299	Endothelial_Cell	
HIVEP3	0.746	0.7887815259	0.492	1.137971196	0.594	0.131	Endothelial_Cell	
DAAM1	0.745	0.8822997695	0.49	1.272889502	0.624	0.185	Endothelial_Cell	
SCN3B	0.744	0.6749836994	0.488	0.9737956358	0.491	0.003	Endothelial_Cell	
ARHGEF12	0.743	0.6665590659	0.486	0.9616414589	0.8	0.55	Endothelial_Cell	
CTNND1	0.743	0.5718403115	0.486	0.8249911816	0.824	0.57	Endothelial_Cell	
SH3PXD2A	0.743	0.8242699563	0.486	1.189170178	0.667	0.271	Endothelial_Cell	
AC083837.1	0.743	1.03142325	0.486	1.488029208	0.491	0.007	Endothelial_Cell	
NR3C1	0.743	0.6412071192	0.486	0.925066331	0.582	0.102	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
UBE2E2	0.743	0.8495361854	0.486	1.225621642	0.709	0.29	Endothelial_Cell	
PPARG	0.742	0.808333276	0.484	1.166178409	0.509	0.027	Endothelial_Cell	
WIPF1	0.742	0.7216131437	0.484	1.041067704	0.558	0.087	Endothelial_Cell	
MMRN1	0.741	1.067290454	0.482	1.539774645	0.679	0.281	Endothelial_Cell	
LIMS1	0.741	0.7302307821	0.482	1.053500328	0.77	0.495	Endothelial_Cell	
RIN2	0.74	0.8045256713	0.48	1.160685196	0.642	0.21	Endothelial_Cell	
AKAP12	0.74	0.8888523968	0.48	1.282342945	0.667	0.27	Endothelial_Cell	
LIMK2	0.738	0.7270846662	0.476	1.048961442	0.594	0.177	Endothelial_Cell	
FMNL3	0.738	0.7224338019	0.476	1.042251663	0.527	0.07	Endothelial_Cell	
SELENOP	0.738	0.835028467	0.476	1.204691428	0.491	0.018	Endothelial_Cell	
DOCK6	0.737	0.6393529334	0.474	0.9223913064	0.594	0.164	Endothelial_Cell	
PLXND1	0.737	0.7921860306	0.474	1.142882858	0.564	0.135	Endothelial_Cell	
PDE4B	0.737	0.6914341609	0.474	0.997528635	0.582	0.114	Endothelial_Cell	
MYO1D	0.736	0.7530845916	0.472	1.086471406	0.558	0.109	Endothelial_Cell	
TRMT9B	0.736	0.7351574338	0.472	1.060607984	0.479	0.008	Endothelial_Cell	
ST6GAL1	0.736	0.7584603069	0.472	1.094226923	0.521	0.063	Endothelial_Cell	
FAM171A1	0.734	0.6873444333	0.468	0.9916284053	0.539	0.093	Endothelial_Cell	
NOX4	0.733	0.7879785365	0.466	1.136812727	0.479	0.013	Endothelial_Cell	
ERICH1	0.733	0.6903036495	0.466	0.9958976519	0.697	0.379	Endothelial_Cell	
STK32B	0.733	0.8048956779	0.466	1.161219003	0.63	0.185	Endothelial_Cell	
LAMC1	0.733	0.7320888943	0.466	1.056181017	0.758	0.502	Endothelial_Cell	
LDLRAD4	0.732	0.8106309026	0.464	1.169493183	0.521	0.054	Endothelial_Cell	
PODXL	0.732	0.6487625036	0.464	0.9359664466	0.473	0.01	Endothelial_Cell	
AC099792.1	0.732	0.9397485791	0.464	1.355770615	0.467	0.004	Endothelial_Cell	
PCAT19	0.731	0.6272340341	0.462	0.9049074305	0.467	0.005	Endothelial_Cell	
SH3RF3	0.731	1.041298028	0.462	1.502275502	0.515	0.07	Endothelial_Cell	
ADGRG3	0.73	0.5760974866	0.46	0.831132987	0.461	0.001	Endothelial_Cell	
ST8SIA1	0.73	0.8252144568	0.46	1.190532804	0.473	0.016	Endothelial_Cell	
LINC01197	0.729	0.694403925	0.458	1.001813099	0.515	0.061	Endothelial_Cell	
PPP1R13B	0.729	0.7611154397	0.458	1.09805747	0.582	0.185	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NRIP1	0.728	0.7718201265	0.456	1.113501069	0.685	0.321	Endothelial_Cell	
ETV6	0.728	0.7867516489	0.456	1.135042702	0.697	0.378	Endothelial_Cell	
A2M	0.728	0.5883747993	0.456	0.8488454051	0.503	0.049	Endothelial_Cell	
ELN	0.728	0.5345707698	0.456	0.7712225986	0.497	0.042	Endothelial_Cell	
NOD1	0.728	0.6134935648	0.456	0.8850841236	0.533	0.101	Endothelial_Cell	
CEMIP2	0.727	0.6987481628	0.454	1.008080509	0.63	0.167	Endothelial_Cell	
TMEM255B	0.726	0.6466695931	0.452	0.932947015	0.461	0.009	Endothelial_Cell	
ARRB1	0.726	0.5912205774	0.452	0.8529509951	0.545	0.112	Endothelial_Cell	
JCAD	0.726	0.624929444	0.452	0.9015826098	0.467	0.015	Endothelial_Cell	
ZFPM2-AS1	0.726	0.7922634706	0.452	1.14299458	0.527	0.077	Endothelial_Cell	
FILIP1	0.726	0.7071748903	0.452	1.020237707	0.467	0.018	Endothelial_Cell	
STAB1	0.726	0.6152232002	0.452	0.88757946	0.467	0.015	Endothelial_Cell	
CLEC2B	0.725	0.6103170103	0.45	0.8805013242	0.461	0.011	Endothelial_Cell	
DOCK1	0.724	0.5375089426	0.448	0.775461486	0.909	0.764	Endothelial_Cell	
COL4A5	0.723	0.7356655349	0.446	1.061341019	0.509	0.071	Endothelial_Cell	
SPSB1	0.723	0.7522953256	0.446	1.085332735	0.521	0.104	Endothelial_Cell	
MEF2A	0.722	0.5914694934	0.444	0.853310105	0.83	0.618	Endothelial_Cell	
PDE8A	0.722	0.685497379	0.444	0.9889636693	0.715	0.471	Endothelial_Cell	
GAB2	0.722	0.7381483756	0.444	1.064923001	0.57	0.162	Endothelial_Cell	
NR2F2-AS1	0.721	0.7805424798	0.442	1.126084765	0.606	0.187	Endothelial_Cell	
KIAA1217	0.721	0.6691978976	0.442	0.9654484882	0.521	0.083	Endothelial_Cell	
PREX2	0.72	0.6906054091	0.44	0.996332999	0.473	0.036	Endothelial_Cell	
LRRFIP1	0.72	0.536752665	0.44	0.774370408	0.794	0.511	Endothelial_Cell	
CNST	0.72	0.6516088335	0.44	0.9400728326	0.606	0.247	Endothelial_Cell	
MARCKS	0.719	0.468027643	0.438	0.6752211595	0.842	0.39	Endothelial_Cell	
LINC02147	0.719	1.448201129	0.438	2.089312586	0.442	0.006	Endothelial_Cell	
NID1	0.719	0.72966184	0.438	1.052679518	0.612	0.254	Endothelial_Cell	
PROX1-AS1	0.718	0.6792396159	0.436	0.9799356254	0.436	0.001	Endothelial_Cell	
PARD6G	0.718	0.979942932	0.436	1.413758808	0.485	0.066	Endothelial_Cell	
CDYL2	0.718	0.552782109	0.436	0.7974960074	0.455	0.02	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NOTCH1	0.718	0.6395954466	0.436	0.922741179	0.521	0.113	Endothelial_Cell	
GAB1	0.718	1.123544338	0.436	1.620931845	0.624	0.296	Endothelial_Cell	
PLSCR4	0.718	1.468727214	0.436	2.118925468	0.455	0.023	Endothelial_Cell	
MYCT1	0.717	0.5708930675	0.434	0.8236245974	0.436	0.002	Endothelial_Cell	
SFMBT2	0.716	0.1757207021	0.432	0.2535113855	0.691	0.18	Endothelial_Cell	
LMBR1	0.716	0.7373733874	0.432	1.063804929	0.703	0.47	Endothelial_Cell	
PTPRK	0.716	0.2551506004	0.432	0.3681045058	0.642	0.158	Endothelial_Cell	
SOX4	0.716	0.9071953497	0.432	1.308806232	0.588	0.176	Endothelial_Cell	
HPCAL1	0.716	0.6440315968	0.432	0.9291411908	0.503	0.09	Endothelial_Cell	
LYVE1	0.715	0.8263351443	0.43	1.192149615	0.436	0.007	Endothelial_Cell	
PPM1F	0.714	0.5541853485	0.428	0.799520454	0.497	0.086	Endothelial_Cell	
TCF12	0.714	0.4776111315	0.428	0.6890472109	0.982	0.901	Endothelial_Cell	
PTPN12	0.713	0.5814434462	0.426	0.8388455763	0.697	0.428	Endothelial_Cell	
GNA14	0.712	0.7646024676	0.424	1.103088188	0.461	0.038	Endothelial_Cell	
MCTP1	0.711	0.8257011378	0.422	1.191234937	0.461	0.044	Endothelial_Cell	
NXN	0.71	1.000756685	0.42	1.443786706	0.721	0.527	Endothelial_Cell	
USP31	0.71	0.7262782209	0.42	1.047797988	0.564	0.213	Endothelial_Cell	
RGS3	0.71	0.5127536284	0.42	0.7397471169	0.485	0.077	Endothelial_Cell	
HIVEP2	0.71	0.7057125106	0.42	1.018127939	0.527	0.133	Endothelial_Cell	
HLA-A	0.71	0.5729602846	0.42	0.8266069613	0.667	0.306	Endothelial_Cell	
LPP	0.71	0.358883839	0.42	0.5177599348	0.964	0.794	Endothelial_Cell	
MAP4K5	0.709	0.6308831506	0.418	0.9101719928	0.727	0.486	Endothelial_Cell	
TSPAN14	0.709	0.524661869	0.418	0.7569270765	0.515	0.12	Endothelial_Cell	
ZBTB38	0.709	0.6539042096	0.418	0.9433843604	0.533	0.159	Endothelial_Cell	
AC002070.1	0.708	0.7139920198	0.416	1.030072746	0.424	0.01	Endothelial_Cell	
MAML2	0.708	0.2897353748	0.416	0.4179997884	0.958	0.497	Endothelial_Cell	
ENG	0.708	0.5159474431	0.416	0.7443548175	0.461	0.052	Endothelial_Cell	
ITGA2	0.708	0.8381689535	0.416	1.209222193	0.424	0.01	Endothelial_Cell	
GYPC	0.708	0.5748735737	0.416	0.829367254	0.479	0.078	Endothelial_Cell	
MDFIC	0.707	0.7428724054	0.414	1.071738335	0.448	0.036	Endothelial_Cell	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
BACE2	0.707	1.138551822	0.414	1.642583067	0.436	0.029	Endothelial_Cell	
DGKH	0.707	0.5751196741	0.414	0.8297223017	0.703	0.411	Endothelial_Cell	
ARHGEF3	0.707	0.6255150175	0.414	0.9024274138	0.552	0.169	Endothelial_Cell	
DAPK1	0.706	0.6522396625	0.412	0.9409829266	0.485	0.075	Endothelial_Cell	
MMP16	0.706	0.447736309	0.412	0.6459469526	0.624	0.209	Endothelial_Cell	
AFF1	0.706	0.6126757117	0.412	0.8839042109	0.515	0.127	Endothelial_Cell	
FARP1	0.705	0.5539178085	0.41	0.7991344754	0.661	0.329	Endothelial_Cell	
AP2A2	0.705	0.614513868	0.41	0.8865561099	0.655	0.374	Endothelial_Cell	
UBTD1	0.705	0.6143574879	0.41	0.8863305012	0.473	0.081	Endothelial_Cell	
LINC00923	0.704	0.7921740801	0.408	1.142865617	0.424	0.017	Endothelial_Cell	
RIN3	0.704	0.6476664773	0.408	0.9343852149	0.491	0.108	Endothelial_Cell	
ANKRD6	0.704	0.6107888258	0.408	0.88118201	0.552	0.183	Endothelial_Cell	
CPEB4	0.704	0.6807048052	0.408	0.9820494468	0.491	0.102	Endothelial_Cell	
IL6ST	0.704	0.7312276079	0.408	1.054938444	0.558	0.208	Endothelial_Cell	
MSN	0.703	0.6393794583	0.406	0.9224295737	0.582	0.267	Endothelial_Cell	
TSPAN11	0.703	0.52759286	0.406	0.7611556027	0.418	0.013	Endothelial_Cell	
DNMBP	0.703	0.6176895828	0.406	0.891137698	0.588	0.248	Endothelial_Cell	
GNA12	0.702	0.7157577999	0.404	1.032620228	0.576	0.258	Endothelial_Cell	
OSBP2	0.701	0.8848680587	0.402	1.27659476	0.521	0.172	Endothelial_Cell	
AKAP13	0.701	0.4874261046	0.402	0.7032072239	0.861	0.658	Endothelial_Cell	
PTPRM	0.964	2.462749019	0.928	3.552995796	0.946	0.053	Endothelial_Progenitor	
PECAM1	0.962	1.913478219	0.924	2.760565537	0.93	0.021	Endothelial_Progenitor	
LDB2	0.958	2.796087901	0.916	4.033902149	0.93	0.037	Endothelial_Progenitor	
MAGI1	0.947	1.963501545	0.894	2.832733942	0.977	0.577	Endothelial_Progenitor	
MECOM	0.944	2.117029808	0.888	3.054228405	0.899	0.029	Endothelial_Progenitor	
VWF	0.932	2.128844837	0.864	3.071273889	0.868	0.011	Endothelial_Progenitor	
COL4A2	0.928	2.348350964	0.856	3.38795429	0.876	0.04	Endothelial_Progenitor	
ADGRL4	0.925	2.275858785	0.85	3.283370183	0.868	0.064	Endothelial_Progenitor	
ELMO1	0.921	1.742987448	0.842	2.514599348	0.907	0.155	Endothelial_Progenitor	
DOCK4	0.92	2.015124057	0.84	2.907209484	0.876	0.086	Endothelial_Progenitor	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
HSPG2	0.92	1.700082299	0.84	2.452700302	0.891	0.244	Endothelial_Progenitor
PREX2	0.919	1.777650586	0.838	2.564607685	0.853	0.035	Endothelial_Progenitor
ARHGAP29	0.919	1.603550505	0.838	2.313434362	0.853	0.024	Endothelial_Progenitor
ERG	0.913	1.472717795	0.826	2.124682659	0.837	0.018	Endothelial_Progenitor
IGFBP7	0.91	1.99151851	0.82	2.873153878	0.845	0.052	Endothelial_Progenitor
PLCB1	0.907	2.491586607	0.814	3.594599642	0.829	0.038	Endothelial_Progenitor
CSGALNACT1	0.906	1.86015086	0.812	2.683630422	0.829	0.031	Endothelial_Progenitor
LRMDA	0.903	1.757642209	0.806	2.535741698	0.845	0.06	Endothelial_Progenitor
NRP1	0.896	1.856378976	0.792	2.678188742	0.853	0.144	Endothelial_Progenitor
MCTP1	0.895	2.550114947	0.79	3.679038188	0.806	0.043	Endothelial_Progenitor
ANO2	0.894	1.943506028	0.788	2.803886509	0.791	0.007	Endothelial_Progenitor
GRB10	0.894	2.241989322	0.788	3.234506877	0.798	0.021	Endothelial_Progenitor
FBXL7	0.894	1.380792232	0.788	1.992062105	0.946	0.437	Endothelial_Progenitor
ST6GALNAC3	0.892	1.807263184	0.784	2.607329633	0.798	0.027	Endothelial_Progenitor
COL4A1	0.89	2.376769579	0.78	3.428953685	0.798	0.041	Endothelial_Progenitor
DOCK9	0.887	1.596249441	0.774	2.302901153	0.822	0.112	Endothelial_Progenitor
GALNT18	0.886	1.606540304	0.772	2.31774773	0.783	0.017	Endothelial_Progenitor
UTRN	0.886	1.513634802	0.772	2.183713423	0.86	0.156	Endothelial_Progenitor
CADPS2	0.883	1.500842058	0.766	2.165257394	0.775	0.017	Endothelial_Progenitor
LAMB1	0.881	1.474310686	0.762	2.126980715	0.798	0.072	Endothelial_Progenitor
SPARCL1	0.873	1.817829371	0.746	2.622573419	0.783	0.069	Endothelial_Progenitor
EMCN	0.87	1.523306605	0.74	2.197666885	0.767	0.041	Endothelial_Progenitor
PTPRB	0.868	1.34498798	0.736	1.940407489	0.744	0.016	Endothelial_Progenitor
FLI1	0.868	1.596751139	0.736	2.30362495	0.752	0.027	Endothelial_Progenitor
ARL15	0.867	1.927165813	0.734	2.780312561	0.845	0.326	Endothelial_Progenitor
APBB2	0.866	1.446637612	0.732	2.087056908	0.837	0.286	Endothelial_Progenitor
PTPRE	0.865	1.32121384	0.73	1.906108656	0.76	0.039	Endothelial_Progenitor
DIPK2B	0.861	1.158962092	0.722	1.672028862	0.729	0.007	Endothelial_Progenitor
PRKCH	0.861	1.246547174	0.722	1.798387426	0.822	0.164	Endothelial_Progenitor
PKP4	0.859	1.338148137	0.718	1.930539682	0.899	0.561	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
THSD7A	0.858	1.568306373	0.716	2.262587827	0.736	0.026	Endothelial_Progenitor
RHOJ	0.857	1.41504038	0.714	2.041471738	0.729	0.019	Endothelial_Progenitor
MEF2C	0.857	1.503138493	0.714	2.16857045	0.752	0.053	Endothelial_Progenitor
ABLIM1	0.856	1.4908381	0.712	2.150824734	0.775	0.124	Endothelial_Progenitor
SASH1	0.856	1.420213357	0.712	2.048934767	0.798	0.196	Endothelial_Progenitor
KALRN	0.856	1.61344278	0.712	2.327705898	0.736	0.044	Endothelial_Progenitor
ARHGAP31	0.856	1.363496813	0.712	1.967110091	0.744	0.067	Endothelial_Progenitor
TSHZ2	0.855	1.771500055	0.71	2.555734345	0.76	0.075	Endothelial_Progenitor
MAST4	0.852	1.4788271	0.704	2.133496523	0.729	0.043	Endothelial_Progenitor
PLEKHG1	0.851	1.428570815	0.702	2.06099203	0.791	0.151	Endothelial_Progenitor
ENG	0.848	1.319077781	0.696	1.903026973	0.721	0.051	Endothelial_Progenitor
KIAA1217	0.847	1.91195985	0.694	2.758374994	0.736	0.082	Endothelial_Progenitor
A2M	0.845	1.668262379	0.69	2.406793862	0.713	0.049	Endothelial_Progenitor
RALGAPA2	0.844	1.487045491	0.688	2.145353155	0.783	0.238	Endothelial_Progenitor
EPB41L4A	0.841	1.249484953	0.682	1.802625746	0.69	0.014	Endothelial_Progenitor
FLT1	0.84	2.140893661	0.68	3.088656667	0.682	0.006	Endothelial_Progenitor
MYO10	0.837	1.360771617	0.674	1.963178463	0.69	0.023	Endothelial_Progenitor
EBF1	0.836	1.515471232	0.672	2.186362831	0.729	0.079	Endothelial_Progenitor
EPAS1	0.836	1.334879904	0.672	1.925824618	0.682	0.016	Endothelial_Progenitor
CYYR1	0.832	1.354216669	0.664	1.953721672	0.674	0.019	Endothelial_Progenitor
RAPGEF4	0.831	1.391472205	0.662	2.00747005	0.713	0.093	Endothelial_Progenitor
PDE4D	0.83	1.269284585	0.66	1.831190577	0.845	0.356	Endothelial_Progenitor
RASAL2	0.827	0.925844973	0.654	1.335711951	0.938	0.582	Endothelial_Progenitor
RAPGEF5	0.824	1.532511793	0.648	2.210947164	0.674	0.048	Endothelial_Progenitor
AFF1	0.824	1.042684639	0.648	1.504275958	0.729	0.127	Endothelial_Progenitor
ETS1	0.823	1.433664173	0.646	2.068340192	0.69	0.105	Endothelial_Progenitor
BMPR2	0.823	0.9382478806	0.646	1.353605564	0.961	0.705	Endothelial_Progenitor
TCF4	0.822	0.955013219	0.644	1.377792835	0.984	0.478	Endothelial_Progenitor
AKAP13	0.821	0.9970798632	0.642	1.438482174	0.922	0.658	Endothelial_Progenitor
TANC1	0.821	1.132913915	0.642	1.634449287	0.736	0.175	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
SHANK3	0.82	1.055482987	0.64	1.522740071	0.667	0.052	Endothelial_Progenitor
PLVAP	0.82	1.377755971	0.64	1.987681707	0.643	0.007	Endothelial_Progenitor
RASGRP3	0.818	1.432924442	0.636	2.067272986	0.651	0.021	Endothelial_Progenitor
ENTPD1	0.817	1.104508961	0.634	1.593469601	0.651	0.025	Endothelial_Progenitor
ZBTB20	0.817	0.8464892323	0.634	1.221225818	0.969	0.596	Endothelial_Progenitor
TGFBR2	0.817	1.376066649	0.634	1.985244531	0.69	0.088	Endothelial_Progenitor
PALM2-AKAP2	0.816	1.16273493	0.632	1.677471918	0.698	0.092	Endothelial_Progenitor
ST6GAL1	0.815	1.203195072	0.63	1.735843563	0.667	0.063	Endothelial_Progenitor
CMIP	0.814	1.105182126	0.628	1.594440773	0.806	0.468	Endothelial_Progenitor
RAI14	0.813	1.26855385	0.626	1.830136349	0.721	0.187	Endothelial_Progenitor
FNDC3B	0.812	0.9022840194	0.624	1.30172068	0.992	0.723	Endothelial_Progenitor
PITPNC1	0.81	1.206377979	0.62	1.740435527	0.845	0.459	Endothelial_Progenitor
COL15A1	0.81	1.454734908	0.62	2.098738838	0.636	0.021	Endothelial_Progenitor
ARHGEF28	0.809	1.308614281	0.618	1.887931334	0.636	0.026	Endothelial_Progenitor
MYO1E	0.807	0.9969680194	0.614	1.438320818	0.783	0.257	Endothelial_Progenitor
WWTR1	0.807	0.9434990388	0.614	1.361181384	0.884	0.483	Endothelial_Progenitor
ZFPM2	0.806	1.252913638	0.612	1.807572292	0.651	0.051	Endothelial_Progenitor
ADAMTS9	0.806	1.777639187	0.612	2.56459124	0.62	0.014	Endothelial_Progenitor
DIAPH2	0.805	1.26558754	0.61	1.825856868	0.783	0.417	Endothelial_Progenitor
BAZ2B	0.805	0.7539013615	0.61	1.087649756	0.907	0.624	Endothelial_Progenitor
BACE2	0.803	1.031635661	0.606	1.488335652	0.628	0.029	Endothelial_Progenitor
ETV6	0.803	0.9494764307	0.606	1.369804938	0.791	0.378	Endothelial_Progenitor
FYN	0.8	1.30035995	0.6	1.876022851	0.682	0.149	Endothelial_Progenitor
PALMD	0.8	1.071664437	0.6	1.546084969	0.744	0.22	Endothelial_Progenitor
ASAP1	0.799	0.799248626	0.598	1.153072029	0.961	0.757	Endothelial_Progenitor
ELK3	0.798	0.9947128542	0.596	1.435067302	0.744	0.263	Endothelial_Progenitor
CDK17	0.797	0.9083441699	0.594	1.310463629	0.752	0.298	Endothelial_Progenitor
SLCO2A1	0.797	1.376025814	0.594	1.985185617	0.597	0.005	Endothelial_Progenitor
ADGRF5	0.796	1.031348125	0.592	1.487920825	0.597	0.006	Endothelial_Progenitor
FOXP1	0.796	1.19848497	0.592	1.729048323	0.767	0.275	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
SP100	0.796	0.8770299582	0.592	1.265286771	0.628	0.044	Endothelial_Progenitor
FGD5	0.795	1.017929798	0.59	1.468562271	0.605	0.021	Endothelial_Progenitor
HECW2	0.793	1.629860495	0.586	2.351391653	0.612	0.046	Endothelial_Progenitor
NCOA7	0.79	1.007904171	0.58	1.45409835	0.69	0.181	Endothelial_Progenitor
XAF1	0.786	0.9728809186	0.572	1.403570477	0.605	0.042	Endothelial_Progenitor
RPS6KA2	0.785	1.06280215	0.57	1.533299392	0.636	0.092	Endothelial_Progenitor
PLPP3	0.785	1.281937249	0.57	1.849444511	0.597	0.038	Endothelial_Progenitor
LDLRAD4	0.783	1.015105737	0.566	1.464488013	0.62	0.054	Endothelial_Progenitor
CDH13	0.783	2.054362012	0.566	2.963817887	0.612	0.088	Endothelial_Progenitor
PPP3CA	0.783	0.793466804	0.566	1.144730623	0.791	0.228	Endothelial_Progenitor
ARHGEF3	0.783	0.9423379731	0.566	1.359506321	0.667	0.169	Endothelial_Progenitor
DYSF	0.783	1.160627513	0.566	1.674431558	0.612	0.065	Endothelial_Progenitor
IFI16	0.783	0.9297384071	0.566	1.341328989	0.62	0.074	Endothelial_Progenitor
MYH9	0.781	0.7350846315	0.562	1.060502953	0.884	0.61	Endothelial_Progenitor
GRK5	0.781	1.00623747	0.562	1.451693808	0.651	0.149	Endothelial_Progenitor
CD93	0.779	0.9086010667	0.558	1.310834253	0.566	0.009	Endothelial_Progenitor
KDR	0.779	1.136622135	0.558	1.639799118	0.566	0.009	Endothelial_Progenitor
NR3C1	0.779	0.9604860719	0.558	1.385688493	0.636	0.102	Endothelial_Progenitor
CALD1	0.778	0.7876010277	0.556	1.136268097	0.783	0.309	Endothelial_Progenitor
SH3RF3	0.778	1.006114307	0.556	1.451516121	0.612	0.071	Endothelial_Progenitor
ZNF521	0.777	1.058499666	0.554	1.527092219	0.752	0.32	Endothelial_Progenitor
PLXNA2	0.776	0.9818334174	0.552	1.416486202	0.643	0.116	Endothelial_Progenitor
PPP1R13B	0.775	0.9428650098	0.55	1.360266674	0.659	0.186	Endothelial_Progenitor
CHSY3	0.775	0.9521690307	0.55	1.373689539	0.581	0.031	Endothelial_Progenitor
STARD13	0.773	0.8380263651	0.546	1.209016481	0.643	0.102	Endothelial_Progenitor
LAMA4	0.773	0.9735476436	0.546	1.404532357	0.713	0.23	Endothelial_Progenitor
SNRK	0.773	1.026684952	0.546	1.481193289	0.636	0.165	Endothelial_Progenitor
CALCRL	0.773	1.160493877	0.546	1.674238761	0.736	0.291	Endothelial_Progenitor
FOXO1	0.772	0.8152660615	0.544	1.176180304	0.736	0.2	Endothelial_Progenitor
LRCH1	0.771	0.9050384202	0.542	1.305694441	0.651	0.156	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
EGFL7	0.77	0.7622989462	0.54	1.099764909	0.659	0.194	Endothelial_Progenitor
PBX1	0.768	0.9046256737	0.536	1.305098973	0.597	0.064	Endothelial_Progenitor
FCHSD2	0.767	0.8115515635	0.534	1.170821416	0.752	0.414	Endothelial_Progenitor
AFDN	0.765	0.8085503846	0.53	1.16649163	0.698	0.309	Endothelial_Progenitor
RBMS1	0.765	0.712244294	0.53	1.027551311	0.767	0.283	Endothelial_Progenitor
CACHD1	0.765	0.9110871917	0.53	1.314420973	0.581	0.067	Endothelial_Progenitor
SYNE2	0.764	0.5843924926	0.528	0.843100151	0.829	0.449	Endothelial_Progenitor
PICALM	0.764	0.7565425135	0.528	1.091460132	0.86	0.61	Endothelial_Progenitor
PTPRK	0.764	0.8532134092	0.528	1.230926754	0.705	0.158	Endothelial_Progenitor
ITGA6	0.764	0.9081321858	0.528	1.310157801	0.674	0.202	Endothelial_Progenitor
ZEB1	0.761	0.4291993313	0.522	0.6192037468	0.977	0.613	Endothelial_Progenitor
HEG1	0.761	1.08012789	0.522	1.558295151	0.589	0.104	Endothelial_Progenitor
RBMS3	0.761	0.4607938301	0.522	0.6647849735	0.891	0.349	Endothelial_Progenitor
SHROOM4	0.759	0.9351029754	0.518	1.349068425	0.535	0.023	Endothelial_Progenitor
ITGA1	0.758	1.120032881	0.516	1.615865883	0.535	0.024	Endothelial_Progenitor
CTNND1	0.756	0.6721676789	0.512	0.969732977	0.837	0.57	Endothelial_Progenitor
NFIB	0.756	0.6098067673	0.512	0.879765199	0.969	0.506	Endothelial_Progenitor
PODXL	0.756	0.9152546155	0.512	1.320433295	0.519	0.01	Endothelial_Progenitor
NEAT1	0.755	0.664225683	0.51	0.9582750989	0.992	0.865	Endothelial_Progenitor
PDE7B	0.755	1.016234677	0.51	1.466116728	0.535	0.029	Endothelial_Progenitor
ATXN1	0.755	0.7781614765	0.51	1.122649703	0.605	0.093	Endothelial_Progenitor
RAPGEF1	0.754	0.9094990883	0.508	1.312129824	0.729	0.389	Endothelial_Progenitor
PDE10A	0.754	1.167470908	0.508	1.684304489	0.535	0.035	Endothelial_Progenitor
PHACTR1	0.752	0.8512043658	0.504	1.228028317	0.535	0.038	Endothelial_Progenitor
NOX4	0.75	1.167105543	0.5	1.68377738	0.512	0.014	Endothelial_Progenitor
PLXND1	0.75	0.8135592009	0.5	1.173717825	0.581	0.136	Endothelial_Progenitor
AKT3	0.75	0.5568036399	0.5	0.80329785	0.969	0.599	Endothelial_Progenitor
TSPAN9	0.749	0.7764990885	0.498	1.120251384	0.62	0.18	Endothelial_Progenitor
SPARC	0.749	0.8746479888	0.498	1.261850316	0.791	0.449	Endothelial_Progenitor
MAP4K4	0.748	0.6811190424	0.496	0.9826470647	0.884	0.674	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
CAMK1D	0.747	0.8595838192	0.494	1.240117313	0.612	0.129	Endothelial_Progenitor
RBPMS	0.747	0.708370746	0.494	1.021962962	0.752	0.372	Endothelial_Progenitor
MEF2A	0.746	0.6841014952	0.492	0.9869498346	0.853	0.619	Endothelial_Progenitor
DOCK1	0.746	0.5759986757	0.492	0.830990433	0.938	0.764	Endothelial_Progenitor
CDH5	0.745	0.7207000772	0.49	1.039750427	0.496	0.006	Endothelial_Progenitor
RAPGEF2	0.745	0.7266112314	0.49	1.04827842	0.744	0.398	Endothelial_Progenitor
NR5A2	0.745	0.9914351452	0.49	1.430338567	0.543	0.065	Endothelial_Progenitor
MRTFB	0.743	0.7466166629	0.486	1.077140157	0.814	0.499	Endothelial_Progenitor
PDLIM1	0.743	0.8039984977	0.486	1.159924645	0.496	0.011	Endothelial_Progenitor
SPTBN1	0.743	0.5923845285	0.486	0.8546302216	0.961	0.754	Endothelial_Progenitor
MBNL2	0.742	0.8782453697	0.484	1.26704024	0.605	0.175	Endothelial_Progenitor
ARHGEF12	0.742	0.6794875542	0.484	0.9802933247	0.814	0.55	Endothelial_Progenitor
DISC1	0.742	0.8736495309	0.484	1.260409846	0.605	0.179	Endothelial_Progenitor
MYO1B	0.74	1.146250669	0.48	1.653690155	0.504	0.03	Endothelial_Progenitor
PPARG	0.739	0.8978917386	0.478	1.295383959	0.504	0.028	Endothelial_Progenitor
JCAD	0.738	0.7609343902	0.476	1.097796271	0.488	0.016	Endothelial_Progenitor
ZNF385D	0.738	1.114364395	0.476	1.607687986	0.597	0.134	Endothelial_Progenitor
PRKD1	0.737	0.8257694246	0.474	1.191333454	0.589	0.14	Endothelial_Progenitor
CBLB	0.737	0.9808377152	0.474	1.415049708	0.682	0.316	Endothelial_Progenitor
MAML3	0.736	0.7834616642	0.472	1.130296258	0.682	0.242	Endothelial_Progenitor
EPHA4	0.736	0.797802531	0.472	1.150985755	0.481	0.011	Endothelial_Progenitor
AFAP1L1	0.735	0.8945921046	0.47	1.290623593	0.481	0.013	Endothelial_Progenitor
MCF2L	0.734	0.7762900079	0.468	1.119949745	0.527	0.082	Endothelial_Progenitor
FAM155A	0.734	1.055206266	0.468	1.522340847	0.574	0.123	Endothelial_Progenitor
ESAM	0.734	0.5856696286	0.468	0.8449426688	0.473	0.005	Endothelial_Progenitor
MYO6	0.734	0.8161243338	0.468	1.177418529	0.543	0.105	Endothelial_Progenitor
DPYSL3	0.731	1.065734828	0.462	1.537530351	0.488	0.03	Endothelial_Progenitor
RIN3	0.73	0.6701596293	0.46	0.9668359739	0.543	0.108	Endothelial_Progenitor
ICA1	0.73	0.6995589265	0.46	1.009250194	0.558	0.13	Endothelial_Progenitor
TBC1D22A	0.729	0.6697232378	0.458	0.966206394	0.752	0.503	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
INSR	0.729	1.563301637	0.458	2.255367518	0.659	0.378	Endothelial_Progenitor
PEAK1	0.729	0.654732701	0.458	0.9445796208	0.798	0.536	Endothelial_Progenitor
FRYL	0.729	0.6444836621	0.458	0.9297933833	0.791	0.579	Endothelial_Progenitor
CDYL2	0.728	0.6290102716	0.456	0.9074699995	0.473	0.021	Endothelial_Progenitor
STARD9	0.728	0.7887154463	0.456	1.137875863	0.612	0.246	Endothelial_Progenitor
RASGRF2	0.727	1.087422112	0.454	1.568818489	0.481	0.038	Endothelial_Progenitor
NOSTRIN	0.726	0.7805234889	0.452	1.126057367	0.488	0.05	Endothelial_Progenitor
FMNL3	0.724	0.6732590548	0.448	0.9713074996	0.504	0.071	Endothelial_Progenitor
NREP	0.724	0.6727651501	0.448	0.9705949458	0.566	0.147	Endothelial_Progenitor
MIR181A1HG	0.724	0.699250197	0.448	1.008804792	0.504	0.062	Endothelial_Progenitor
CHST11	0.723	0.7656977004	0.446	1.104668275	0.612	0.242	Endothelial_Progenitor
LIMCH1	0.723	0.797936162	0.446	1.151178544	0.465	0.021	Endothelial_Progenitor
CD34	0.722	0.7474760173	0.444	1.078379943	0.488	0.051	Endothelial_Progenitor
AC119674.1	0.722	0.8621448495	0.444	1.243812099	0.457	0.015	Endothelial_Progenitor
SVIL	0.721	0.8744603636	0.442	1.26157963	0.659	0.333	Endothelial_Progenitor
MTUS1	0.721	0.7450246595	0.442	1.074843382	0.558	0.156	Endothelial_Progenitor
RIN2	0.72	0.809668958	0.44	1.16810539	0.589	0.211	Endothelial_Progenitor
FGD4	0.72	0.5834956771	0.44	0.8418063197	0.713	0.316	Endothelial_Progenitor
NAV2	0.72	0.8900040183	0.44	1.284004384	0.519	0.102	Endothelial_Progenitor
KLF7	0.72	0.5508529397	0.44	0.7947128043	0.605	0.185	Endothelial_Progenitor
TGFBR3	0.719	0.9201062382	0.438	1.327432707	0.566	0.188	Endothelial_Progenitor
NXN	0.718	0.7006742184	0.436	1.01085922	0.767	0.527	Endothelial_Progenitor
LHFPL6	0.718	0.7118333624	0.436	1.026958462	0.589	0.159	Endothelial_Progenitor
C1orf21	0.718	0.7817763485	0.436	1.127864861	0.465	0.033	Endothelial_Progenitor
LRRC8C	0.718	0.6701125723	0.436	0.9667680849	0.496	0.082	Endothelial_Progenitor
PDGFB	0.717	0.6190402856	0.434	0.8930863502	0.481	0.058	Endothelial_Progenitor
TACC1	0.717	0.8242980908	0.434	1.189210768	0.589	0.226	Endothelial_Progenitor
ARHGAP26	0.717	0.6947168759	0.434	1.002264592	0.519	0.086	Endothelial_Progenitor
IL6ST	0.717	0.6662125157	0.434	0.9611414926	0.589	0.208	Endothelial_Progenitor
PLSCR1	0.717	0.567729305	0.434	0.819060253	0.481	0.052	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster
DACH1	0.716	0.5013079397	0.432	0.7232344786	0.589	0.127	Endothelial_Progenitor
SLCO3A1	0.715	0.8089711571	0.43	1.167098677	0.457	0.03	Endothelial_Progenitor
ZSWIM6	0.715	0.371503927	0.43	0.5359668731	0.729	0.271	Endothelial_Progenitor
MACF1	0.715	0.342097272	0.43	0.4935420378	1	0.93	Endothelial_Progenitor
TJP1	0.714	0.5227035907	0.428	0.7541018781	0.845	0.669	Endothelial_Progenitor
GNAQ	0.714	0.5596221876	0.428	0.8073641548	0.884	0.712	Endothelial_Progenitor
NOTCH4	0.714	0.7201361539	0.428	1.038936858	0.434	0.007	Endothelial_Progenitor
ITGA9	0.714	0.6345547724	0.428	0.9154690233	0.496	0.083	Endothelial_Progenitor
NUAK1	0.713	0.8396049624	0.426	1.211293916	0.504	0.105	Endothelial_Progenitor
PTPN12	0.713	0.6177557946	0.426	0.8912332214	0.682	0.428	Endothelial_Progenitor
CPNE5	0.713	0.663717596	0.426	0.9575420843	0.535	0.142	Endothelial_Progenitor
SUSD6	0.712	0.616385885	0.424	0.8892568596	0.512	0.109	Endothelial_Progenitor
HIPK3	0.712	0.7076903336	0.424	1.020981335	0.659	0.387	Endothelial_Progenitor
RGS3	0.712	0.6118596397	0.424	0.882726868	0.481	0.077	Endothelial_Progenitor
CTNNB1	0.712	0.6673131383	0.424	0.9627293554	0.659	0.397	Endothelial_Progenitor
DOCK6	0.711	0.5824675635	0.422	0.8403230653	0.543	0.165	Endothelial_Progenitor
AQP1	0.711	0.8768493308	0.422	1.265026181	0.426	0.005	Endothelial_Progenitor
NFIA	0.711	0.5052796055	0.422	0.7289643811	0.915	0.66	Endothelial_Progenitor
PARP14	0.71	0.6405954109	0.42	0.9241838225	0.566	0.195	Endothelial_Progenitor
LIMS1	0.71	0.5599616725	0.42	0.807853928	0.76	0.495	Endothelial_Progenitor
PELI1	0.71	0.5649441531	0.42	0.815042128	0.496	0.088	Endothelial_Progenitor
TMEM255B	0.709	0.6436122059	0.418	0.9285361378	0.426	0.01	Endothelial_Progenitor
CEMIP2	0.709	0.8217147466	0.418	1.18548379	0.581	0.168	Endothelial_Progenitor
MGAT4A	0.709	0.7003468454	0.418	1.010386921	0.45	0.037	Endothelial_Progenitor
APP	0.708	0.6219036777	0.416	0.8972173518	0.984	0.856	Endothelial_Progenitor
PPP1R16B	0.708	0.64411286	0.416	0.9292584288	0.426	0.012	Endothelial_Progenitor
NLRP1	0.708	0.5542123152	0.416	0.7995593588	0.45	0.038	Endothelial_Progenitor
ITGA2	0.708	0.541042992	0.416	0.7805600414	0.426	0.011	Endothelial_Progenitor
MBNL1	0.708	0.4868026229	0.416	0.70230773	0.915	0.693	Endothelial_Progenitor
PXDN	0.708	0.7401052356	0.416	1.067746153	0.558	0.188	Endothelial_Progenitor

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PCAT19	0.707	0.5339546761	0.414	0.7703337633	0.419	0.006	Endothelial_Progenitor	
IGFBP4	0.707	0.6050636727	0.414	0.87292236	0.496	0.104	Endothelial_Progenitor	
GNA14	0.706	0.7282142291	0.412	1.050591057	0.45	0.039	Endothelial_Progenitor	
CMTM8	0.706	0.7014474867	0.412	1.01197481	0.566	0.217	Endothelial_Progenitor	
PDE8A	0.705	0.6734808842	0.41	0.9716275317	0.69	0.471	Endothelial_Progenitor	
PKD1L1	0.705	0.6885407861	0.41	0.9933543776	0.426	0.021	Endothelial_Progenitor	
DGKH	0.704	0.6537987401	0.408	0.9432322001	0.682	0.412	Endothelial_Progenitor	
SH3BP5	0.704	0.5923063547	0.408	0.8545174407	0.512	0.131	Endothelial_Progenitor	
VAV3	0.704	0.7443405242	0.408	1.073856383	0.442	0.032	Endothelial_Progenitor	
KIAA0355	0.703	0.6097795659	0.406	0.8797259557	0.62	0.327	Endothelial_Progenitor	
GMD5	0.703	0.7929042407	0.406	1.143919016	0.667	0.435	Endothelial_Progenitor	
FCHO2	0.703	0.5711557312	0.406	0.8240035409	0.612	0.294	Endothelial_Progenitor	
LMCD1	0.703	0.6388144467	0.406	0.9216144343	0.473	0.078	Endothelial_Progenitor	
JAK1	0.703	0.498280204	0.406	0.7188663792	0.76	0.488	Endothelial_Progenitor	
TBCD	0.701	0.6920098296	0.402	0.9983591494	0.636	0.403	Endothelial_Progenitor	
PLEKHA1	0.701	0.4931201851	0.402	0.7114220456	0.543	0.178	Endothelial_Progenitor	
EBF1	0.994	2.925564612	0.988	4.220697558	1	0.081	Adipocyte	
PPARG	0.985	2.487133473	0.97	3.588175128	0.975	0.029	Adipocyte	
SLC1A3	0.982	1.970238358	0.964	2.842453108	0.975	0.023	Adipocyte	
ACACB	0.978	2.124242049	0.956	3.06463347	0.975	0.152	Adipocyte	
COL4A1	0.977	2.076240428	0.954	2.99538177	0.975	0.044	Adipocyte	
GHR	0.972	2.6022075	0.944	3.754191856	0.95	0.043	Adipocyte	
SORBS1	0.966	2.360350025	0.932	3.405265276	0.95	0.087	Adipocyte	
NEAT1	0.965	1.725835376	0.93	2.489854138	1	0.866	Adipocyte	
PALM2-AKAP2	0.965	2.020210781	0.93	2.914548076	0.95	0.094	Adipocyte	
SLC19A3	0.962	1.784355333	0.924	2.57428059	0.925	0.003	Adipocyte	
ACSL1	0.956	1.925570016	0.912	2.778010314	0.925	0.041	Adipocyte	
PLXNA4	0.954	1.961378186	0.908	2.829670582	0.925	0.043	Adipocyte	
LRP1	0.952	1.430053242	0.904	2.06313072	0.95	0.245	Adipocyte	
COL4A2	0.95	2.071712464	0.9	2.988849298	0.925	0.043	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TRHDE	0.948	1.861151986	0.896	2.685074741	0.9	0.006	Adipocyte	
PTGER3	0.948	2.138851947	0.896	3.085711098	0.9	0.01	Adipocyte	
TMEM135	0.945	1.190092912	0.89	1.716941142	1	0.582	Adipocyte	
ASPH	0.939	1.605402612	0.878	2.316106387	0.95	0.333	Adipocyte	
PDZRN3	0.939	1.790985978	0.878	2.583846588	0.9	0.026	Adipocyte	
ADH1B	0.937	1.641351396	0.874	2.367969519	0.875	0.001	Adipocyte	
SOX5	0.935	2.095902437	0.87	3.023748053	0.925	0.126	Adipocyte	
CACNA2D1	0.933	1.504914337	0.866	2.171132451	0.975	0.258	Adipocyte	
PDE3B	0.932	1.528476466	0.864	2.205125418	0.925	0.197	Adipocyte	
SOS1	0.928	1.346810446	0.856	1.943036752	0.975	0.56	Adipocyte	
PLIN1	0.925	1.390167758	0.85	2.00558813	0.85	0.002	Adipocyte	
GRK3	0.923	2.045161307	0.846	2.950544075	0.925	0.258	Adipocyte	
MLXIPL	0.923	1.12044929	0.846	1.616466634	0.85	0.01	Adipocyte	
NAV2	0.922	2.271688956	0.844	3.277354392	0.875	0.103	Adipocyte	
SLC16A7	0.921	1.701635498	0.842	2.454941095	0.85	0.015	Adipocyte	
CARMN	0.921	1.334777723	0.842	1.925677202	0.875	0.062	Adipocyte	
LAMA4	0.92	1.526498788	0.84	2.202272232	0.95	0.232	Adipocyte	
MAP3K5	0.918	1.364743116	0.836	1.968908126	0.85	0.024	Adipocyte	
ACSS2	0.916	1.442485883	0.832	2.08106723	0.9	0.148	Adipocyte	
EHBP1	0.914	1.481280995	0.828	2.137036745	0.975	0.593	Adipocyte	
PTPRF	0.912	0.9997885729	0.824	1.442390016	0.95	0.265	Adipocyte	
TMEM132C	0.911	1.972195039	0.822	2.845276002	0.825	0.006	Adipocyte	
GPC6	0.91	1.701105793	0.82	2.454176892	0.925	0.291	Adipocyte	
MGST1	0.909	1.41967357	0.818	2.048156019	0.825	0.018	Adipocyte	
ITSN1	0.906	1.457033041	0.812	2.102054343	0.925	0.498	Adipocyte	
GSE1	0.906	1.283108519	0.812	1.851134297	0.975	0.6	Adipocyte	
ZNF117	0.9	1.149018904	0.8	1.657683874	0.85	0.107	Adipocyte	
CD36	0.898	1.156365893	0.796	1.668283339	0.975	0.176	Adipocyte	
CELF2	0.897	1.369064692	0.794	1.975142842	0.9	0.152	Adipocyte	
TNS1	0.897	1.300716661	0.794	1.876537477	0.825	0.046	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NRIP1	0.896	1.510399558	0.792	2.179045952	0.925	0.323	Adipocyte	
LRMDA	0.896	1.239901729	0.792	1.788800076	0.85	0.063	Adipocyte	
STARD13	0.892	1.235842245	0.784	1.782943478	0.875	0.103	Adipocyte	
PBX1	0.891	1.379340387	0.782	1.989967535	0.825	0.066	Adipocyte	
MDFIC	0.889	1.462001649	0.778	2.109222528	0.8	0.038	Adipocyte	
SIK2	0.888	1.520232043	0.776	2.19323123	0.925	0.465	Adipocyte	
LPL	0.887	1.510984093	0.774	2.179889257	0.775	0.003	Adipocyte	
SLC7A6	0.886	0.9889628295	0.772	1.42677177	0.875	0.211	Adipocyte	
EFNA5	0.884	1.149761696	0.768	1.658755496	0.975	0.339	Adipocyte	
RBMS3	0.884	1.155932906	0.768	1.66765867	1	0.351	Adipocyte	
HIVEP3	0.883	1.046662743	0.766	1.510015148	0.85	0.133	Adipocyte	
LIPE-AS1	0.881	1.305769965	0.762	1.883827853	0.875	0.266	Adipocyte	
APBB1IP	0.881	1.305047483	0.762	1.882785532	0.775	0.018	Adipocyte	
ZEB2	0.88	1.421424184	0.76	2.050681622	0.9	0.223	Adipocyte	
CYB5A	0.878	0.9409975685	0.756	1.357572526	0.775	0.029	Adipocyte	
LINC00278	0.877	1.650613597	0.754	2.381332051	0.775	0.06	Adipocyte	
DLC1	0.877	1.219378434	0.754	1.75919122	0.975	0.188	Adipocyte	
PHLDB2	0.877	1.260281943	0.754	1.818202509	0.775	0.03	Adipocyte	
AL139383.1	0.875	1.198747518	0.75	1.729427099	0.775	0.038	Adipocyte	
FABP4	0.874	1.855204333	0.748	2.676494091	0.75	0.006	Adipocyte	
GPAM	0.871	1.699051245	0.742	2.451212805	0.775	0.095	Adipocyte	
ADCY5	0.871	1.065850614	0.742	1.537697395	0.75	0.013	Adipocyte	
MYCBP2	0.87	1.474806334	0.74	2.127695785	0.9	0.612	Adipocyte	
UTRN	0.87	1.083564114	0.74	1.563252573	0.875	0.158	Adipocyte	
RIN2	0.868	1.091102634	0.736	1.574128359	0.85	0.212	Adipocyte	
NRP1	0.867	1.291885999	0.734	1.863797523	0.85	0.147	Adipocyte	
PRUNE2	0.866	1.293357803	0.732	1.865920889	0.75	0.03	Adipocyte	
ZFPM2	0.866	1.339738718	0.732	1.932834404	0.775	0.054	Adipocyte	
TMEM131L	0.865	1.129276844	0.73	1.629202103	0.85	0.236	Adipocyte	
AC004160.1	0.864	1.387616592	0.728	2.001907576	0.75	0.036	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
G0S2	0.862	1.400771129	0.724	2.020885561	0.725	0.003	Adipocyte	
THRB	0.862	1.190809875	0.724	1.717975501	0.75	0.03	Adipocyte	
TCF7L2	0.86	1.181794719	0.72	1.70496938	0.95	0.684	Adipocyte	
MAPK10	0.86	1.533105506	0.72	2.211803711	0.75	0.048	Adipocyte	
PTPRM	0.859	1.105446451	0.718	1.594822113	0.775	0.057	Adipocyte	
SH3KBP1	0.853	0.892649161	0.706	1.287820518	0.8	0.135	Adipocyte	
APOL6	0.853	0.8667184762	0.706	1.250410447	0.725	0.023	Adipocyte	
LIMCH1	0.852	1.018761845	0.704	1.469762661	0.725	0.022	Adipocyte	
LARGE1	0.851	1.06599034	0.702	1.537898977	0.825	0.175	Adipocyte	
NR3C1	0.849	1.076974985	0.698	1.553746469	0.775	0.104	Adipocyte	
FNDC3B	0.849	0.9058403446	0.698	1.306851373	1	0.724	Adipocyte	
PNPLA2	0.848	1.101428634	0.696	1.589025628	0.75	0.116	Adipocyte	
ABCA1	0.848	1.279331271	0.696	1.84568488	0.8	0.172	Adipocyte	
RHOBTB3	0.847	1.111523639	0.694	1.603589642	0.775	0.151	Adipocyte	
ARHGAP24	0.847	1.28765728	0.694	1.857696773	0.75	0.072	Adipocyte	
PRICKLE2	0.846	1.18198313	0.692	1.705241201	0.725	0.037	Adipocyte	
ACO1	0.845	0.9360588043	0.69	1.350447395	0.8	0.215	Adipocyte	
ZBTB20	0.844	1.221847207	0.688	1.762752906	0.925	0.597	Adipocyte	
FOXO1	0.843	1.035084492	0.686	1.493311263	0.875	0.202	Adipocyte	
GAB2	0.841	0.8938726632	0.682	1.289585658	0.8	0.163	Adipocyte	
HK2	0.841	1.034835894	0.682	1.492952612	0.75	0.106	Adipocyte	
HIPK2	0.84	0.9375803483	0.68	1.352642519	0.8	0.164	Adipocyte	
PCOLCE2	0.84	1.027136476	0.68	1.481844701	0.725	0.078	Adipocyte	
SNTB1	0.839	1.210026048	0.678	1.745698579	0.7	0.03	Adipocyte	
CACHD1	0.839	1.032585869	0.678	1.489706513	0.725	0.069	Adipocyte	
APBB2	0.837	1.05074145	0.674	1.515899479	0.825	0.289	Adipocyte	
ADAM12	0.836	1.025870792	0.672	1.480018705	0.7	0.029	Adipocyte	
NFIA	0.835	0.9143465252	0.67	1.319123198	0.95	0.661	Adipocyte	
GABRE	0.834	0.8609345437	0.668	1.242065997	0.675	0.008	Adipocyte	
NHS	0.833	1.270465277	0.666	1.832893955	0.7	0.046	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
PRKAR2B	0.833	1.047012525	0.666	1.510519778	0.775	0.204	Adipocyte	
BCL6	0.833	1.071759829	0.666	1.54622259	0.7	0.053	Adipocyte	
ENPP2	0.832	1.374134038	0.664	1.982456362	0.675	0.015	Adipocyte	
PTPRG	0.83	1.117988934	0.66	1.612917091	0.9	0.299	Adipocyte	
SLC24A3	0.829	1.060576829	0.658	1.530088931	0.7	0.042	Adipocyte	
ALPK1	0.829	0.9441789206	0.658	1.362162246	0.7	0.055	Adipocyte	
TLN2	0.828	1.138143721	0.656	1.641994302	0.775	0.225	Adipocyte	
ADAMTS12	0.826	0.9262362069	0.652	1.336276382	0.675	0.022	Adipocyte	
PDZD2	0.826	0.9797607259	0.652	1.413495941	0.75	0.146	Adipocyte	
ADIPOQ	0.825	0.915722761	0.65	1.321108686	0.65	0.001	Adipocyte	
LRIG1	0.824	0.8221148108	0.648	1.186060961	0.675	0.034	Adipocyte	
ACVR1C	0.824	1.211121257	0.648	1.747278632	0.65	0.005	Adipocyte	
MAST4	0.823	1.367813965	0.646	1.973338424	0.675	0.046	Adipocyte	
PDGFC	0.823	0.9901213499	0.646	1.428443161	0.825	0.295	Adipocyte	
MAGI1	0.822	0.6855914503	0.644	0.9890993854	0.95	0.579	Adipocyte	
SPON1	0.821	1.071691686	0.642	1.546124281	0.675	0.041	Adipocyte	
PFKFB1	0.82	0.9094266607	0.64	1.312025333	0.65	0.016	Adipocyte	
NOD1	0.82	0.7576241297	0.64	1.093020575	0.725	0.103	Adipocyte	
EPS8	0.819	0.8087927619	0.638	1.166841307	0.7	0.074	Adipocyte	
PPP2R1B	0.817	1.129609475	0.634	1.629681987	0.75	0.224	Adipocyte	
RORA	0.816	1.038319533	0.632	1.497978441	1	0.72	Adipocyte	
CAT	0.816	0.8663775312	0.632	1.249918568	0.725	0.146	Adipocyte	
ITGA7	0.815	0.6743089209	0.63	0.9728221361	0.675	0.052	Adipocyte	
PLAGL1	0.815	0.7579604796	0.63	1.093505825	0.75	0.151	Adipocyte	
ITIH5	0.812	0.981626349	0.624	1.416187466	0.65	0.027	Adipocyte	
SAT1	0.811	0.8849421716	0.622	1.276701682	0.85	0.348	Adipocyte	
GLDN	0.811	0.9944593316	0.622	1.434701546	0.625	0.005	Adipocyte	
MALAT1	0.81	0.8917070251	0.62	1.286461303	1	1	Adipocyte	
PLAAT3	0.81	0.8679866958	0.62	1.252240102	0.675	0.079	Adipocyte	
CDC14B	0.81	0.8122799439	0.62	1.171872247	0.8	0.3	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CLMP	0.809	1.023237593	0.618	1.476219801	0.65	0.04	Adipocyte	
PIK3R1	0.809	1.153857003	0.618	1.664663776	0.725	0.179	Adipocyte	
RALGAPA2	0.808	0.7980996603	0.616	1.151414422	0.75	0.24	Adipocyte	
TBC1D4	0.807	0.8319394705	0.614	1.200234948	0.75	0.16	Adipocyte	
CCNH	0.807	0.8375385739	0.614	1.208312747	0.85	0.376	Adipocyte	
LIMS1	0.807	0.8506929869	0.614	1.227290554	0.875	0.496	Adipocyte	
LVRN	0.806	0.9500200388	0.612	1.370589199	0.65	0.039	Adipocyte	
TJP2	0.804	0.8188730982	0.608	1.181384158	0.675	0.099	Adipocyte	
LGR4	0.803	1.021182129	0.606	1.473254393	0.775	0.179	Adipocyte	
PTEN	0.803	0.8998636411	0.606	1.298228813	0.85	0.46	Adipocyte	
ERV3-1	0.802	0.761448241	0.604	1.098537601	0.7	0.134	Adipocyte	
ESR1	0.802	1.273122785	0.604	1.836727928	0.725	0.128	Adipocyte	
LHFPL6	0.801	0.9312930535	0.602	1.34357187	0.75	0.16	Adipocyte	
BCAR3	0.801	0.8957024888	0.602	1.292225539	0.7	0.152	Adipocyte	
RUNX1	0.8	0.9138482925	0.6	1.3184044	0.675	0.075	Adipocyte	
TBC1D2B	0.8	0.6485647322	0.6	0.9356811228	0.725	0.161	Adipocyte	
PLSCR4	0.8	0.7819788109	0.6	1.128156953	0.625	0.025	Adipocyte	
COBLL1	0.8	0.9141458406	0.6	1.318833671	0.625	0.026	Adipocyte	
DOCK11	0.799	0.6663671805	0.598	0.9613646267	0.65	0.051	Adipocyte	
ZBTB16	0.793	0.9875113657	0.586	1.42467775	0.6	0.015	Adipocyte	
RBMS1	0.793	0.7138622494	0.586	1.029885527	0.825	0.285	Adipocyte	
ADAMTS9-AS2	0.791	1.076637182	0.582	1.553259124	0.6	0.022	Adipocyte	
C2CD2	0.79	0.5742682529	0.58	0.8284939605	0.7	0.149	Adipocyte	
ST3GAL1	0.788	0.7149184539	0.576	1.031409308	0.625	0.051	Adipocyte	
TNS3	0.788	0.6740987569	0.576	0.9725189336	0.8	0.323	Adipocyte	
GBE1	0.788	0.8580887525	0.576	1.237960388	0.775	0.302	Adipocyte	
APMAP	0.787	0.5867820128	0.574	0.8465475	0.725	0.188	Adipocyte	
CRLS1	0.787	0.8115867223	0.574	1.170872139	0.7	0.225	Adipocyte	
HSPG2	0.786	0.6785232907	0.572	0.9789021867	0.75	0.247	Adipocyte	
TPRG1	0.785	1.037636844	0.57	1.49699353	0.6	0.036	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MAGI2	0.784	0.5257183334	0.568	0.7584512325	0.725	0.134	Adipocyte	
ACER3	0.783	0.8400762438	0.566	1.211973831	0.75	0.313	Adipocyte	
SORT1	0.782	0.748519472	0.564	1.07988533	0.675	0.166	Adipocyte	
RUNX1T1	0.781	0.8290867431	0.562	1.196119333	0.6	0.034	Adipocyte	
TGFB3	0.781	0.9473160365	0.562	1.366688148	0.7	0.189	Adipocyte	
DHRS3	0.781	0.6384269356	0.562	0.9210553739	0.6	0.044	Adipocyte	
PTPN3	0.78	0.6665154426	0.56	0.9615785237	0.675	0.132	Adipocyte	
DIAPH2	0.779	1.112538625	0.558	1.605053956	0.775	0.418	Adipocyte	
NNMT	0.779	0.6997721236	0.558	1.009557772	0.6	0.046	Adipocyte	
BCL2	0.778	0.9621419524	0.556	1.388077423	0.775	0.288	Adipocyte	
PCSK5	0.778	0.9096760751	0.556	1.312385162	0.65	0.106	Adipocyte	
GLCCI1	0.777	0.923024902	0.554	1.331643449	0.825	0.388	Adipocyte	
MAN1A1	0.777	0.9202525322	0.554	1.327643765	0.625	0.067	Adipocyte	
KALRN	0.777	0.6152456047	0.554	0.8876117829	0.6	0.047	Adipocyte	
LAMC1	0.777	0.7371576995	0.554	1.063493757	0.85	0.503	Adipocyte	
DPYD	0.777	0.5703633416	0.554	0.8228603644	0.875	0.265	Adipocyte	
COL1A2	0.776	0.4894078339	0.552	0.7060662549	0.9	0.405	Adipocyte	
VKORC1L1	0.776	0.8926727515	0.552	1.287854552	0.75	0.355	Adipocyte	
HOOK2	0.775	0.6432354815	0.55	0.9279926393	0.725	0.222	Adipocyte	
TWIST2	0.775	1.054082001	0.55	1.520718876	0.6	0.07	Adipocyte	
PPARA	0.774	0.6892744987	0.548	0.9944129011	0.625	0.095	Adipocyte	
PLIN4	0.773	0.7947872031	0.546	1.146635557	0.55	0.005	Adipocyte	
CSAD	0.773	0.6079282919	0.546	0.8770551319	0.775	0.31	Adipocyte	
CD46	0.773	0.6347450605	0.546	0.915743551	0.775	0.378	Adipocyte	
AR	0.772	0.7416093729	0.544	1.069916165	0.55	0.008	Adipocyte	
MGLL	0.772	0.7756870795	0.544	1.119079903	0.6	0.067	Adipocyte	
IRS2	0.77	0.9148196409	0.54	1.319805759	0.55	0.014	Adipocyte	
CHSY3	0.77	0.9092635257	0.54	1.311789979	0.575	0.033	Adipocyte	
MIRLET7BHG	0.769	0.5406069113	0.538	0.77993091	0.8	0.289	Adipocyte	
AL365295.1	0.769	0.7587241271	0.538	1.094607536	0.8	0.383	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
STK39	0.769	0.7923701563	0.538	1.143148495	0.75	0.266	Adipocyte	
ELOVL5	0.768	0.8540013904	0.536	1.232063571	0.75	0.38	Adipocyte	
SNED1	0.768	0.5471365266	0.536	0.7893511536	0.7	0.158	Adipocyte	
XYLT1	0.767	0.7839634427	0.534	1.131020171	0.575	0.039	Adipocyte	
RFTN1	0.767	0.6916908149	0.534	0.9978989085	0.575	0.047	Adipocyte	
ADAMTS9	0.766	0.7397957632	0.532	1.067299679	0.55	0.017	Adipocyte	
MARC1	0.766	0.8167298256	0.532	1.178292069	0.55	0.024	Adipocyte	
COL15A1	0.765	1.07990815	0.53	1.557978133	0.55	0.024	Adipocyte	
AP001528.1	0.764	0.5934060524	0.528	0.856103969	0.6	0.088	Adipocyte	
ACYP2	0.764	0.6969269012	0.528	1.005452984	0.8	0.449	Adipocyte	
ZHX2	0.763	0.6214257421	0.526	0.8965278365	0.575	0.05	Adipocyte	
CDK14	0.763	0.4852998136	0.526	0.7001396345	0.775	0.195	Adipocyte	
CFD	0.762	0.87213543	0.524	1.25822546	0.55	0.033	Adipocyte	
ADAMTS2	0.761	0.5942653563	0.522	0.8573436825	0.55	0.025	Adipocyte	
MEST	0.76	0.6929483668	0.52	0.9997131724	0.825	0.329	Adipocyte	
ZNF423	0.759	0.7752792997	0.518	1.118491601	0.675	0.18	Adipocyte	
FTX	0.758	0.6130780736	0.516	0.8844846964	1	0.941	Adipocyte	
DIP2C	0.758	0.5289689345	0.516	0.7631408586	0.825	0.507	Adipocyte	
RFX3-AS1	0.758	0.6370706708	0.516	0.9190986975	0.725	0.289	Adipocyte	
CAMK2D	0.758	0.4024040282	0.516	0.580546296	0.95	0.559	Adipocyte	
NAALADL2	0.758	0.7319738908	0.516	1.056015102	0.875	0.462	Adipocyte	
DUSP4	0.757	0.7346823795	0.514	1.059922626	0.525	0.013	Adipocyte	
SGCD	0.757	0.6807105616	0.514	0.9820577514	0.55	0.03	Adipocyte	
AC025159.1	0.755	0.6462243718	0.51	0.9323046965	0.65	0.163	Adipocyte	
ELL2	0.754	0.8977845211	0.508	1.295229276	0.575	0.076	Adipocyte	
PLCB1	0.753	0.8630109493	0.506	1.245061617	0.55	0.041	Adipocyte	
L3MBTL4	0.753	0.7733554006	0.506	1.115716001	0.55	0.047	Adipocyte	
SVIL	0.753	0.9301928836	0.506	1.34198466	0.725	0.334	Adipocyte	
UBE2E2	0.753	0.6865836902	0.506	0.990530885	0.775	0.293	Adipocyte	
MED13L	0.752	0.4346754815	0.504	0.6271041616	1	0.851	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TTC39C	0.751	0.5971422811	0.502	0.8614942077	0.55	0.057	Adipocyte	
PBRM1	0.75	0.5302328062	0.5	0.76496424	0.85	0.578	Adipocyte	
ACSS3	0.749	0.8433353413	0.498	1.216675715	0.65	0.181	Adipocyte	
AQP7	0.748	0.6366667682	0.496	0.9185159892	0.5	0.005	Adipocyte	
GYG2	0.747	0.6933594722	0.494	1.000306272	0.525	0.039	Adipocyte	
CPM	0.745	0.800406901	0.49	1.154743067	0.5	0.012	Adipocyte	
ANGPTL4	0.744	0.8563687016	0.488	1.235478879	0.525	0.052	Adipocyte	
STAT3	0.744	0.6171929235	0.488	0.89042117	0.85	0.551	Adipocyte	
FOXP2	0.744	0.5673646826	0.488	0.818534214	0.525	0.033	Adipocyte	
PTPRK	0.744	0.4231533456	0.488	0.6104812332	0.7	0.16	Adipocyte	
IGF1	0.742	0.8478445114	0.484	1.223181072	0.5	0.018	Adipocyte	
NET1	0.742	0.773277297	0.484	1.115603322	0.575	0.111	Adipocyte	
DECR1	0.742	0.5887813908	0.484	0.8494319926	0.675	0.245	Adipocyte	
LAMB1	0.742	0.746548639	0.484	1.077042019	0.55	0.076	Adipocyte	
DDX17	0.741	0.4470781275	0.482	0.6449973974	1	0.894	Adipocyte	
FAM214A	0.741	0.6595911462	0.482	0.9515888757	0.625	0.194	Adipocyte	
SESTD1	0.741	0.6162615017	0.482	0.8890774125	0.575	0.107	Adipocyte	
RDH5	0.739	0.6365943102	0.478	0.9184114544	0.5	0.027	Adipocyte	
COL5A1	0.737	0.4814686496	0.474	0.6946124331	0.6	0.135	Adipocyte	
EEPD1	0.737	0.7331035774	0.474	1.057644896	0.575	0.136	Adipocyte	
LINC00472	0.737	0.7583611013	0.474	1.0940838	0.5	0.027	Adipocyte	
ELMOD3	0.737	0.6428586178	0.474	0.9274489399	0.6	0.191	Adipocyte	
UVRAG	0.735	0.6571167266	0.47	0.9480190427	0.75	0.443	Adipocyte	
CALCRL	0.735	0.6528406922	0.47	0.9418500291	0.775	0.292	Adipocyte	
TTY14	0.734	0.6579417908	0.468	0.9492093588	0.75	0.407	Adipocyte	
LIPE	0.734	0.5301195161	0.468	0.7648007969	0.525	0.067	Adipocyte	
ARID5B	0.734	0.4491586475	0.468	0.6479989533	0.95	0.608	Adipocyte	
COL6A3	0.734	0.4339531905	0.468	0.6260621159	0.525	0.055	Adipocyte	
GTDC1	0.734	0.7310486676	0.468	1.054680287	0.775	0.39	Adipocyte	
CDO1	0.733	0.475636239	0.466	0.6861980433	0.475	0.009	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
NMT2	0.733	0.6082884144	0.466	0.8775746789	0.575	0.152	Adipocyte	
PALMD	0.733	0.6416790916	0.466	0.9257472432	0.65	0.222	Adipocyte	
SCGB2B2	0.732	0.5457871452	0.464	0.7874044078	0.575	0.128	Adipocyte	
LIMA1	0.732	0.4991292501	0.464	0.7200912939	0.8	0.397	Adipocyte	
AC002066.1	0.731	0.9217971147	0.462	1.329872126	0.55	0.12	Adipocyte	
AC107223.1	0.731	0.6606655722	0.462	0.9531389446	0.575	0.113	Adipocyte	
PCED1B	0.73	0.6466827878	0.46	0.932966051	0.625	0.226	Adipocyte	
ANO6	0.729	0.58166206	0.458	0.8391609694	0.8	0.545	Adipocyte	
SEMA3C	0.729	0.5877760873	0.458	0.8479816463	0.65	0.19	Adipocyte	
TNFAIP8	0.729	0.5547731959	0.458	0.8003685386	0.625	0.193	Adipocyte	
HPSE2	0.728	1.246785127	0.456	1.798730719	0.475	0.025	Adipocyte	
OSMR	0.728	0.6109842966	0.456	0.8814640148	0.525	0.075	Adipocyte	
IRS1	0.728	0.7396032526	0.456	1.067021945	0.65	0.258	Adipocyte	
SKI	0.727	0.5386720352	0.454	0.7771394738	0.675	0.291	Adipocyte	
PPP2R5A	0.726	0.5320137843	0.452	0.7675336483	0.625	0.218	Adipocyte	
C6	0.725	0.5726211518	0.45	0.8261176959	0.45	0.001	Adipocyte	
ADIPOR2	0.725	0.6447774809	0.45	0.9302172742	0.675	0.355	Adipocyte	
COL27A1	0.725	0.7572156536	0.45	1.092431268	0.55	0.136	Adipocyte	
AIG1	0.725	0.6611021094	0.45	0.9537687347	0.675	0.317	Adipocyte	
ECHDC2	0.725	0.5269745852	0.45	0.7602636207	0.575	0.146	Adipocyte	
EPB41L4B	0.724	0.6143732167	0.448	0.886353193	0.475	0.036	Adipocyte	
ZNF704	0.724	0.62492332	0.448	0.9015737747	0.55	0.106	Adipocyte	
ABHD5	0.724	0.615561551	0.448	0.888067597	0.5	0.07	Adipocyte	
EFCAB2	0.724	0.5170352809	0.448	0.7459242357	0.675	0.282	Adipocyte	
LYPLAL1	0.724	0.5662807253	0.448	0.8169703942	0.675	0.275	Adipocyte	
GLIS1	0.724	0.6055023184	0.448	0.873555192	0.5	0.063	Adipocyte	
ADAMTS9-AS1	0.723	0.5964363464	0.446	0.8604757591	0.45	0.004	Adipocyte	
PDXK	0.723	0.4708465681	0.446	0.6792880088	0.725	0.33	Adipocyte	
AIFM2	0.723	0.4379217551	0.446	0.6317875444	0.475	0.03	Adipocyte	
DEPP1	0.723	0.5940045231	0.446	0.8569673797	0.45	0.005	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
GNAI1	0.723	0.443045038	0.446	0.6391788792	0.7	0.224	Adipocyte	
CCDC80	0.723	0.5399267956	0.446	0.7789497104	0.525	0.081	Adipocyte	
ATP1A2	0.723	0.4965451078	0.446	0.7163631646	0.45	0.003	Adipocyte	
PFKFB3	0.722	0.7150949082	0.444	1.031663878	0.65	0.271	Adipocyte	
KANK1	0.722	0.5505724384	0.444	0.7943081265	0.5	0.064	Adipocyte	
RREB1	0.722	0.5169052909	0.444	0.7457366998	0.75	0.486	Adipocyte	
ANTXR2	0.722	0.5249189733	0.444	0.7572979997	0.5	0.057	Adipocyte	
WDFY2	0.721	0.4590272299	0.442	0.6622363082	0.675	0.262	Adipocyte	
BTG1	0.721	0.4773352836	0.442	0.6886492465	0.625	0.207	Adipocyte	
DTWD1	0.72	0.5973915675	0.44	0.8618538519	0.65	0.267	Adipocyte	
FOXN3	0.72	0.2727316039	0.44	0.3934685324	1	0.687	Adipocyte	
HERC4	0.718	0.3536357617	0.436	0.5101885597	0.925	0.65	Adipocyte	
TWIST1	0.718	0.6410944239	0.436	0.9249037462	0.45	0.015	Adipocyte	
MPC1	0.718	0.4914944732	0.436	0.709076639	0.5	0.076	Adipocyte	
IL6ST	0.718	0.443465881	0.436	0.6397860273	0.625	0.21	Adipocyte	
RETREG1	0.718	0.7154577261	0.436	1.032187313	0.45	0.019	Adipocyte	
NFIC	0.717	0.4960118438	0.434	0.7155938272	0.75	0.394	Adipocyte	
ZNF280D	0.717	0.4185992951	0.434	0.6039111272	0.8	0.443	Adipocyte	
HIVEP2	0.717	0.6067164306	0.434	0.8753067856	0.55	0.135	Adipocyte	
ATXN1	0.717	0.7323242709	0.434	1.056520594	0.525	0.095	Adipocyte	
LINC00598	0.716	0.6986749703	0.432	1.007974915	0.475	0.049	Adipocyte	
ADIRF	0.716	0.446510275	0.432	0.6441781595	0.475	0.048	Adipocyte	
NTRK2	0.716	0.604601152	0.432	0.8722550837	0.45	0.017	Adipocyte	
BAZ2B	0.716	0.5680470444	0.432	0.8195186539	0.85	0.626	Adipocyte	
GALNT2	0.716	0.5902430458	0.432	0.8515407151	0.675	0.351	Adipocyte	
MARC2	0.716	0.5479594147	0.432	0.7905383302	0.45	0.023	Adipocyte	
ATP9A	0.715	0.4701190104	0.43	0.678238365	0.7	0.341	Adipocyte	
SHOC2	0.715	0.4422630143	0.43	0.6380506575	0.775	0.405	Adipocyte	
HILPDA	0.715	0.55822342	0.43	0.8053461598	0.55	0.146	Adipocyte	
GLI3	0.715	0.6540625194	0.43	0.9436127531	0.525	0.108	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
USP33	0.715	0.4926236918	0.43	0.7107057572	0.7	0.37	Adipocyte	
ARHGEF6	0.714	0.5421842065	0.428	0.782206466	0.45	0.024	Adipocyte	
DGAT2	0.714	0.9044109369	0.428	1.304789174	0.5	0.1	Adipocyte	
TRPS1	0.714	0.4088187445	0.428	0.5898007752	0.975	0.741	Adipocyte	
GAREM1	0.713	0.5609629211	0.426	0.8092984244	0.55	0.117	Adipocyte	
PCCA	0.713	0.3754614301	0.426	0.5416763433	0.975	0.73	Adipocyte	
AACS	0.713	0.7998261136	0.426	1.153905168	0.55	0.173	Adipocyte	
ECM2	0.713	0.5154688491	0.426	0.7436643523	0.5	0.08	Adipocyte	
CEMIP2	0.713	0.6624028388	0.426	0.9556452906	0.6	0.169	Adipocyte	
PMEPA1	0.712	0.6138495601	0.424	0.8855977162	0.475	0.063	Adipocyte	
CIDEC	0.712	0.7037358791	0.424	1.015276263	0.425	0.002	Adipocyte	
SMAD6	0.711	0.5444458526	0.422	0.7854693316	0.65	0.296	Adipocyte	
PARVA	0.711	0.5627091334	0.422	0.8118176762	0.675	0.311	Adipocyte	
NFIB	0.711	0.3034137723	0.422	0.4377335447	1	0.508	Adipocyte	
PLEKHG6	0.71	0.4938072256	0.42	0.7124132355	0.425	0.007	Adipocyte	
STK3	0.71	0.4606138742	0.42	0.6645253521	0.875	0.676	Adipocyte	
LINC00632	0.709	0.7191812527	0.418	1.037559227	0.425	0.008	Adipocyte	
ENOX1	0.709	0.5806213538	0.418	0.8376595477	0.5	0.082	Adipocyte	
SLC22A3	0.709	0.8650713289	0.418	1.248034116	0.425	0.008	Adipocyte	
LINC01140	0.709	0.4618211323	0.418	0.6662670574	0.425	0.007	Adipocyte	
SMARCA2	0.708	0.5165102421	0.416	0.7451667649	0.6	0.174	Adipocyte	
FAM126A	0.708	0.5541933582	0.416	0.7995320095	0.6	0.189	Adipocyte	
FBXL17	0.708	0.2487289843	0.416	0.3588400721	0.95	0.653	Adipocyte	
FAM172A	0.708	0.4046733143	0.416	0.5838201838	0.95	0.688	Adipocyte	
PRKCE	0.708	0.5610072159	0.416	0.8093623282	0.65	0.301	Adipocyte	
TMEM164	0.707	0.5881373745	0.414	0.8485028735	0.525	0.136	Adipocyte	
NAALAD2	0.707	0.5155773283	0.414	0.7438208547	0.425	0.013	Adipocyte	
LAMA2	0.707	0.6754292555	0.414	0.9744384373	0.65	0.217	Adipocyte	
PPP1R12B	0.707	0.4120710853	0.414	0.5944929112	0.7	0.339	Adipocyte	
USP3	0.706	0.4249706027	0.412	0.6131029811	0.725	0.35	Adipocyte	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ZMIZ1	0.706	0.3826951196	0.412	0.5521123512	0.625	0.226	Adipocyte	
BRAF	0.706	0.435300612	0.412	0.6280060343	0.875	0.666	Adipocyte	
SERINC5	0.706	0.5034463625	0.412	0.7263195706	0.525	0.141	Adipocyte	
TGFBR2	0.706	0.5827821644	0.412	0.8407769384	0.5	0.09	Adipocyte	
DIPK1A	0.706	0.6064417677	0.412	0.8749105308	0.525	0.147	Adipocyte	
AKT2	0.705	0.4920949607	0.41	0.7099429594	0.575	0.208	Adipocyte	
QKI	0.705	0.3880287417	0.41	0.5598071414	0.925	0.752	Adipocyte	
CFLAR	0.705	0.5676886759	0.41	0.8190016375	0.625	0.301	Adipocyte	
TSHR	0.704	1.185160262	0.408	1.709824833	0.425	0.026	Adipocyte	
WDR70	0.704	0.4692307304	0.408	0.6769568478	0.8	0.55	Adipocyte	
NFIX	0.703	0.4007457356	0.406	0.5781538854	0.625	0.251	Adipocyte	
DNHD1	0.703	0.4270062652	0.406	0.6160398213	0.525	0.131	Adipocyte	
ICA1	0.703	0.8288772111	0.406	1.195817042	0.5	0.132	Adipocyte	
ME1	0.703	0.6860118872	0.406	0.9897059477	0.425	0.022	Adipocyte	
TAPT1-AS1	0.703	0.5156740789	0.406	0.7439604364	0.6	0.26	Adipocyte	
AGFG1	0.701	0.4874072485	0.402	0.7031800203	0.7	0.379	Adipocyte	
ESRRG	0.918	2.581416121	0.836	3.724196236	0.839	0.01	Unknown	
ETV6	0.915	1.906627837	0.83	2.750682526	0.899	0.377	Unknown	
ITPR2	0.908	2.015725734	0.816	2.90807752	0.886	0.301	Unknown	
ANK3	0.907	1.599970227	0.814	2.308269113	0.866	0.189	Unknown	
TRPS1	0.905	1.773499837	0.81	2.55861942	0.993	0.739	Unknown	
SLC12A2	0.904	2.8291701	0.808	4.081629673	0.852	0.275	Unknown	
LDLRAD4	0.902	2.095034682	0.804	3.022496147	0.832	0.052	Unknown	
PBX1	0.9	1.623026203	0.8	2.341531854	0.832	0.062	Unknown	
ZBTB20	0.897	1.38114369	0.794	1.992569153	0.987	0.595	Unknown	
PLA2R1	0.896	3.229641134	0.792	4.659387248	0.805	0.045	Unknown	
MAGI1	0.894	1.4525816	0.788	2.095632271	0.946	0.577	Unknown	
SHANK2	0.887	1.628736994	0.774	2.349770785	0.826	0.083	Unknown	
NAALADL2	0.887	1.480868981	0.774	2.136442335	0.94	0.46	Unknown	
COBL	0.884	1.539512091	0.768	2.221046459	0.779	0.018	Unknown	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
FOXP1	0.883	1.402961069	0.766	2.024044976	0.886	0.274	Unknown	
NFIB	0.871	1.278131405	0.742	1.84395384	0.993	0.506	Unknown	
STK39	0.868	1.648616318	0.736	2.378450587	0.819	0.263	Unknown	
PPARGC1A	0.865	1.668238874	0.73	2.406759951	0.732	0.003	Unknown	
PDCD4	0.859	1.472937095	0.718	2.124999043	0.812	0.316	Unknown	
CPEB3	0.858	1.502078803	0.716	2.16704164	0.799	0.264	Unknown	
KIAA1217	0.857	1.387828771	0.714	2.002213686	0.765	0.082	Unknown	
PDE4D	0.857	1.545530347	0.714	2.229728968	0.879	0.356	Unknown	
CD44	0.853	1.500593109	0.706	2.164898237	0.819	0.156	Unknown	
FAM189A2	0.851	1.659077702	0.702	2.393543173	0.705	0.005	Unknown	
PTPRK	0.846	1.030113824	0.692	1.486140105	0.866	0.157	Unknown	
EHF	0.845	1.137432642	0.69	1.640968432	0.691	0	Unknown	
RNF152	0.845	1.55717007	0.69	2.246521538	0.698	0.012	Unknown	
RBM47	0.845	1.132933182	0.69	1.634477083	0.832	0.29	Unknown	
PATJ	0.833	1.136813176	0.666	1.640074731	0.785	0.307	Unknown	
LINC01956	0.831	1.09120445	0.662	1.574275248	0.664	0.004	Unknown	
NFIA	0.831	1.01307891	0.662	1.461563919	0.973	0.659	Unknown	
FHIT	0.83	1.125187409	0.66	1.623302295	0.987	0.718	Unknown	
NEDD4L	0.829	1.256116688	0.658	1.812193316	0.745	0.167	Unknown	
RORA	0.829	1.058814541	0.658	1.527546487	0.966	0.719	Unknown	
GALNT7	0.829	1.318074151	0.658	1.901579041	0.839	0.374	Unknown	
SHROOM3	0.829	1.01246636	0.658	1.460680196	0.96	0.569	Unknown	
ARHGEF28	0.827	1.310471841	0.654	1.890611226	0.671	0.025	Unknown	
ARL15	0.826	1.148831573	0.652	1.657413613	0.812	0.326	Unknown	
NOS1AP	0.826	1.489543971	0.652	2.1489577	0.664	0.025	Unknown	
PDE4B	0.824	2.133185207	0.648	3.077535719	0.705	0.114	Unknown	
KIAA1324	0.821	1.17997094	0.642	1.702338224	0.671	0.054	Unknown	
NRG3	0.818	1.715438584	0.636	2.474854738	0.651	0.018	Unknown	
NCALD	0.816	2.272275933	0.632	3.27820122	0.644	0.025	Unknown	
ARHGAP26	0.814	1.121243288	0.628	1.617612131	0.698	0.084	Unknown	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MALAT1	0.811	0.8051931055	0.622	1.1616481	1	1	Unknown	
STOX2	0.81	1.668687688	0.62	2.407407453	0.651	0.059	Unknown	
ATP1A1	0.81	1.028246608	0.62	1.483446283	0.758	0.349	Unknown	
CTNND1	0.807	0.8195093478	0.614	1.182302072	0.872	0.57	Unknown	
DTNB	0.803	1.104932343	0.606	1.594080412	0.752	0.379	Unknown	
DCD	0.802	4.023178291	0.604	5.804219369	0.638	0.063	Unknown	
DOCK1	0.8	0.8547898487	0.6	1.233201076	0.96	0.764	Unknown	
FAM160A1	0.8	1.138948227	0.6	1.643154958	0.664	0.124	Unknown	
TBC1D4	0.799	1.188749512	0.598	1.715003026	0.685	0.158	Unknown	
LRIG1	0.798	0.9989378363	0.596	1.441162663	0.617	0.031	Unknown	
SFRP1	0.794	1.605847977	0.588	2.316748912	0.591	0.006	Unknown	
LMO4	0.789	1.209346451	0.578	1.744718128	0.611	0.054	Unknown	
SOX9-AS1	0.787	1.424710023	0.574	2.055422085	0.584	0.019	Unknown	
APBA1	0.787	1.592712827	0.574	2.297798897	0.584	0.02	Unknown	
BAZ2B	0.787	0.8158718288	0.574	1.177054241	0.879	0.624	Unknown	
PLCB4	0.786	1.284514615	0.572	1.853162864	0.685	0.196	Unknown	
MAP3K1	0.786	0.8988908109	0.572	1.296825315	0.631	0.084	Unknown	
IGF1R	0.785	0.8453725523	0.57	1.219614789	0.886	0.584	Unknown	
ST3GAL6	0.783	1.18581786	0.566	1.710773546	0.584	0.022	Unknown	
ATP1B1	0.782	1.078918896	0.564	1.55655094	0.644	0.15	Unknown	
TC2N	0.781	1.018507914	0.562	1.469396316	0.57	0.009	Unknown	
THRB	0.78	1.04064318	0.56	1.501330756	0.584	0.027	Unknown	
THSD4	0.779	1.156027503	0.558	1.667795146	0.651	0.131	Unknown	
CATSPERB	0.779	0.9849749214	0.558	1.421018435	0.564	0.007	Unknown	
WWC1	0.779	1.20604879	0.558	1.739960609	0.658	0.201	Unknown	
NRG2	0.779	1.427732351	0.558	2.059782382	0.591	0.065	Unknown	
RHPN2	0.778	1.015862179	0.556	1.465579327	0.604	0.081	Unknown	
FARP1	0.777	0.930717162	0.554	1.342741034	0.725	0.329	Unknown	
ARHGEF38	0.777	1.09721427	0.554	1.582945586	0.564	0.016	Unknown	
KRT15	0.776	1.510988866	0.552	2.179896144	0.564	0.022	Unknown	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
MBNL2	0.775	0.8767711264	0.55	1.264913356	0.664	0.175	Unknown	
CRACR2A	0.775	1.203560464	0.55	1.736370713	0.564	0.024	Unknown	
SASH1	0.775	0.9588208798	0.55	1.383286128	0.671	0.196	Unknown	
PLEKHA7	0.774	1.033958506	0.548	1.491686809	0.577	0.047	Unknown	
LRBA	0.774	0.5950612964	0.548	0.8584919813	0.98	0.804	Unknown	
CADPS2	0.771	1.052724981	0.542	1.518761109	0.557	0.018	Unknown	
VPS13D	0.771	0.8237579994	0.542	1.188431581	0.758	0.451	Unknown	
STAC2	0.77	1.378639198	0.54	1.988955934	0.544	0.007	Unknown	
PLCB1	0.769	1.268369656	0.538	1.829870613	0.57	0.039	Unknown	
BARX2	0.769	1.043086744	0.538	1.504856073	0.544	0.009	Unknown	
FNBP1L	0.769	0.9228519536	0.538	1.331393937	0.725	0.385	Unknown	
RAPGEF2	0.768	0.7848745578	0.536	1.132334632	0.779	0.397	Unknown	
UTRN	0.767	0.7785019899	0.534	1.12314096	0.678	0.156	Unknown	
PRLR	0.766	0.8658857856	0.532	1.249209129	0.537	0.006	Unknown	
GPD2	0.765	0.9010403763	0.53	1.299926483	0.631	0.167	Unknown	
HIVEP3	0.765	0.9095079638	0.53	1.312142629	0.617	0.131	Unknown	
AQP5	0.764	0.8757817945	0.528	1.263486052	0.53	0.003	Unknown	
ITGA6	0.764	1.057503013	0.528	1.525654352	0.651	0.202	Unknown	
SORL1	0.763	0.8812213194	0.526	1.271333627	0.624	0.129	Unknown	
AUTS2	0.763	0.8111996431	0.526	1.170313702	0.933	0.622	Unknown	
ATL2	0.763	0.9446371163	0.526	1.362823283	0.711	0.375	Unknown	
NCOA2	0.761	0.6351337135	0.522	0.9163042588	0.886	0.647	Unknown	
LINC00472	0.761	0.9054073106	0.522	1.306226637	0.544	0.025	Unknown	
GNAQ	0.76	0.6987302385	0.52	1.00805465	0.919	0.712	Unknown	
ROCR	0.758	1.221317736	0.516	1.761989041	0.517	0.001	Unknown	
GRIP1	0.758	0.9610907117	0.516	1.386560804	0.617	0.123	Unknown	
SLC24A3	0.756	0.9378990559	0.512	1.353102317	0.55	0.039	Unknown	
NR3C2	0.755	0.9738798678	0.51	1.405011656	0.537	0.038	Unknown	
GRHL2	0.754	0.7464769736	0.508	1.076938628	0.51	0.002	Unknown	
APCDD1L-DT	0.753	1.172988701	0.506	1.692264983	0.523	0.029	Unknown	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
CLDN10	0.753	1.16101466	0.506	1.674990092	0.51	0.006	Unknown	
DMD	0.752	0.9152401627	0.504	1.320412444	0.926	0.524	Unknown	
KANK1	0.752	1.051079461	0.504	1.516387126	0.544	0.062	Unknown	
TPD52L1	0.751	0.8038679803	0.502	1.159736349	0.611	0.155	Unknown	
CASZ1	0.751	0.7061285345	0.502	1.018728135	0.544	0.053	Unknown	
SPATA13	0.749	0.7791731909	0.498	1.124109299	0.523	0.031	Unknown	
AFF1	0.749	0.7882003146	0.498	1.137132685	0.597	0.127	Unknown	
MAP3K13	0.749	0.8464430772	0.498	1.22115923	0.597	0.153	Unknown	
MTUS1	0.747	0.7423468567	0.494	1.070980129	0.604	0.155	Unknown	
RAPGEF5	0.747	0.9316349856	0.494	1.344065174	0.53	0.048	Unknown	
CCSER1	0.747	0.3946649799	0.494	0.5693812093	0.906	0.471	Unknown	
KALRN	0.745	0.75980117	0.49	1.09616138	0.53	0.045	Unknown	
C1orf21	0.745	0.9377331442	0.49	1.352862957	0.517	0.032	Unknown	
PHLPP1	0.742	0.9121807799	0.484	1.315998688	0.611	0.204	Unknown	
RUNX1	0.741	0.6534350638	0.482	0.942707526	0.557	0.073	Unknown	
KCTD1	0.741	0.9401934776	0.482	1.356412468	0.544	0.099	Unknown	
TMEM87A	0.739	0.8655964304	0.478	1.248791678	0.698	0.463	Unknown	
RGS6	0.739	0.9682903608	0.478	1.396947702	0.483	0.006	Unknown	
PADI2	0.739	0.7167132601	0.478	1.033998666	0.483	0.008	Unknown	
KRT19	0.738	0.733019716	0.476	1.057523909	0.631	0.184	Unknown	
WNK2	0.738	0.9255667882	0.476	1.335310615	0.544	0.119	Unknown	
KAZN	0.738	1.04040055	0.476	1.500980714	0.631	0.26	Unknown	
HOMER2	0.737	0.836526435	0.474	1.206852539	0.577	0.173	Unknown	
ATXN1	0.737	0.7289516687	0.474	1.051654957	0.564	0.093	Unknown	
AGAP1	0.736	0.5136583144	0.472	0.7410523028	0.953	0.726	Unknown	
PDE9A	0.734	0.9983858516	0.468	1.440366317	0.503	0.056	Unknown	
GAREM1	0.734	0.682379711	0.468	0.9844658251	0.577	0.115	Unknown	
SH3BP4	0.734	0.7154883605	0.468	1.032231509	0.557	0.122	Unknown	
PIK3C2G	0.733	0.8080028983	0.466	1.165701774	0.51	0.048	Unknown	
AFDN	0.732	0.7190628411	0.464	1.037388395	0.658	0.309	Unknown	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
ELF5	0.731	0.7284732512	0.462	1.050964747	0.463	0.001	Unknown	
PROM1	0.73	0.7860075354	0.46	1.133969173	0.47	0.012	Unknown	
GMD5	0.729	0.8520323557	0.458	1.229222854	0.698	0.435	Unknown	
CPEB4	0.729	0.8463592081	0.458	1.221038232	0.53	0.102	Unknown	
VAV3	0.729	0.8325643868	0.458	1.201136512	0.49	0.032	Unknown	
BCL11A	0.728	0.7662767108	0.456	1.105503611	0.47	0.016	Unknown	
C4orf19	0.727	0.8812102771	0.454	1.271317697	0.503	0.064	Unknown	
VTCN1	0.724	0.7925151143	0.448	1.143357625	0.45	0.002	Unknown	
ITGB8	0.721	0.5681159907	0.442	0.8196181224	0.564	0.116	Unknown	
AC093817.2	0.72	0.9987822271	0.44	1.440938166	0.456	0.021	Unknown	
PACS1	0.719	0.7069987494	0.438	1.01998359	0.685	0.459	Unknown	
GLS	0.719	0.9627260528	0.438	1.388920102	0.879	0.602	Unknown	
LINC02613	0.719	0.915673232	0.438	1.321037231	0.443	0.006	Unknown	
CLDN10-AS1	0.718	1.360287152	0.436	1.962479528	0.436	0.002	Unknown	
DEPTOR	0.717	0.7585771093	0.434	1.094395434	0.463	0.036	Unknown	
OGFRL1	0.717	0.685128623	0.434	0.9884316667	0.477	0.052	Unknown	
UNC5C	0.717	1.285217786	0.434	1.854177326	0.463	0.039	Unknown	
PKD3	0.716	1.105166748	0.432	1.594418587	0.537	0.18	Unknown	
EYA2	0.716	0.664007626	0.432	0.9579605091	0.443	0.012	Unknown	
ICA1	0.716	0.634262268	0.432	0.9150470287	0.53	0.13	Unknown	
DYNC1I1	0.715	0.9471091465	0.43	1.366389669	0.436	0.008	Unknown	
ARFGEF3	0.715	0.7548474785	0.43	1.089014714	0.436	0.007	Unknown	
MAP7	0.715	0.692463064	0.43	0.9990130284	0.436	0.007	Unknown	
SLC35F3	0.715	0.6110641901	0.43	0.8815792767	0.436	0.008	Unknown	
MAGI3	0.715	0.7861520964	0.43	1.134177731	0.631	0.296	Unknown	
ATP6V0A4	0.714	0.7915520604	0.428	1.141968232	0.43	0.003	Unknown	
STK32A	0.714	0.8383732696	0.428	1.209516958	0.43	0.003	Unknown	
CDH1	0.712	0.6363412829	0.424	0.9180464132	0.443	0.024	Unknown	
SH3RF1	0.712	0.3967068913	0.424	0.5723270647	0.651	0.187	Unknown	
PRKCE	0.711	0.7855678916	0.422	1.133334902	0.611	0.3	Unknown	

gene	myAUC	avg_diff	power	avg_log2FC	pct.1	pct.2	cluster	
TCF12	0.71	0.3985162901	0.42	0.5749374755	0.973	0.902	Unknown	
LTF	0.71	1.567911238	0.42	2.262017767	0.423	0.005	Unknown	
NPAS2	0.71	0.7146515978	0.42	1.031024316	0.436	0.017	Unknown	
GRHL1	0.709	0.7027014149	0.418	1.013783847	0.43	0.014	Unknown	
NAV2	0.708	0.852412604	0.416	1.229771437	0.497	0.102	Unknown	
PPP1R13B	0.707	0.6028682831	0.414	0.8697550824	0.544	0.186	Unknown	
PARD3	0.707	0.4517009828	0.414	0.6516667678	0.973	0.875	Unknown	
ATP2A3	0.705	0.6832010525	0.41	0.9856507703	0.423	0.015	Unknown	
ANKS1B	0.705	0.3807193005	0.41	0.5492618467	0.617	0.23	Unknown	
LDLRAD3	0.705	0.591398374	0.41	0.8532075013	0.752	0.462	Unknown	
RALGAPA2	0.704	0.7350585934	0.408	1.060465387	0.564	0.239	Unknown	
MLLT3	0.704	0.7545560526	0.408	1.088594275	0.45	0.052	Unknown	
TANC1	0.704	0.6893964168	0.408	0.9945887918	0.544	0.176	Unknown	
NPY1R	0.703	0.8384170017	0.406	1.209580051	0.409	0.003	Unknown	
CADM1	0.703	0.7545858919	0.406	1.088637324	0.43	0.026	Unknown	
MYO10	0.703	0.6273731839	0.406	0.9051081812	0.43	0.024	Unknown	
TRIM2	0.703	0.4936689505	0.406	0.7122137468	0.631	0.25	Unknown	
TBC1D8	0.703	0.6828803203	0.406	0.9851880516	0.497	0.12	Unknown	
DENND1B	0.702	0.6123744067	0.404	0.8834695197	0.51	0.125	Unknown	
ZNF462	0.701	0.7050404328	0.402	1.017158336	0.544	0.202	Unknown	
CARMIL1	0.701	0.7608087922	0.402	1.097615072	0.497	0.13	Unknown	
PPM1L	0.701	0.7201551298	0.402	1.038964234	0.477	0.088	Unknown	

term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
Salivary secretion	KEGG:04970	KEGG	5.73E-06	91	52	8	8484
regulation of sodium ion transmembrane transporter activity	GO:2000649	GO:BP	3.47E-05	36	98	6	21031
sarcolemma	GO:0042383	GO:CC	7.12E-05	141	99	8	22097
regulation of sodium ion transport	GO:0002028	GO:BP	0.000100354622	72	98	7	21031
apical junction complex	GO:0043296	GO:CC	0.000139842027	154	99	8	22097
regulation of sodium ion transmembrane transport	GO:1902305	GO:BP	0.000160569668	46	98	6	21031
sodium ion transmembrane transport	GO:0035725	GO:BP	0.000187603263	166	98	9	21031
regulation of monoatomic cation transmembrane transport	GO:1904062	GO:BP	0.000194898652	283	98	11	21031
Pancreatic secretion	KEGG:04972	KEGG	0.000221093631	102	52	7	8484
positive regulation of ion transmembrane transporter activity	GO:0032414	GO:BP	0.000228940622	81	98	7	21031
somatodendritic compartment	GO:0036477	GO:CC	0.000332313541	848	99	16	22097
regulation of metal ion transport	GO:0010959	GO:BP	0.000339131096	369	98	12	21031
postsynapse	GO:0098794	GO:CC	0.000360948805	650	99	14	22097
regulation of monoatomic ion transport	GO:0043269	GO:BP	0.000398451850	451	98	13	21031
inorganic cation transmembrane transport	GO:0098662	GO:BP	0.000411224161	808	98	17	21031
positive regulation of transporter activity	GO:0032411	GO:BP	0.000440113027	89	98	7	21031
Thyroid hormone synthesis	KEGG:04918	KEGG	0.000501563845	75	52	6	8484
Gastric acid secretion	KEGG:04971	KEGG	0.000542022175	76	52	6	8484
monoatomic cation transmembrane transport	GO:0098655	GO:BP	0.000600662835	830	98	17	21031
apical plasma membrane	GO:0016324	GO:CC	0.000642868692	407	99	11	22097
regulation of monoatomic ion transmembrane transporter activity	GO:0032412	GO:BP	0.000648681108	192	98	9	21031
Thyroid hormone signaling pathway	KEGG:04919	KEGG	0.000691774648	121	52	7	8484
regulation of monoatomic ion transmembrane transport	GO:0034765	GO:BP	0.000734123345	323	98	11	21031
anchoring junction	GO:0070161	GO:CC	0.000772043628	905	99	16	22097
regulation of transmembrane transporter activity	GO:0022898	GO:BP	0.000915538076	200	98	9	21031
cell junction organization	GO:0034330	GO:BP	0.000963530372	759	98	16	21031
T-tubule	GO:0030315	GO:CC	0.000979613455	51	99	5	22097
cell-cell junction	GO:0005911	GO:CC	0.001082809142	519	99	12	22097
calcium ion transmembrane transport	GO:0070588	GO:BP	0.001292746895	342	98	11	21031
metal ion transport	GO:0030001	GO:BP	0.001296331046	877	98	17	21031
Endocrine and other factor-regulated calcium reabsorption	KEGG:04961	KEGG	0.001424624284	53	52	5	8484
regulation of transporter activity	GO:0032409	GO:BP	0.001552989302	213	98	9	21031
inorganic ion transmembrane transport	GO:0098660	GO:BP	0.001854136107	900	98	17	21031
Aldosterone synthesis and secretion	KEGG:04925	KEGG	0.002355364918	98	52	6	8484
Long-term depression	KEGG:04730	KEGG	0.002417396098	59	52	5	8484
cardiac muscle cell action potential	GO:0086001	GO:BP	0.002429496935	72	98	6	21031
apical part of cell	GO:0045177	GO:CC	0.002684922605	473	99	11	22097
relaxation of cardiac muscle	GO:0055119	GO:BP	0.002932092325	18	98	4	21031
sodium ion transport	GO:0006814	GO:BP	0.003393332523	234	98	9	21031
Parathyroid hormone synthesis, secretion and action	KEGG:04928	KEGG	0.003485496897	105	52	6	8484
Cortisol synthesis and secretion	KEGG:04927	KEGG	0.003597512284	64	52	5	8484
postsynaptic density	GO:0014069	GO:CC	0.003962723502	318	99	9	22097
striated muscle contraction	GO:0006941	GO:BP	0.004966463017	182	98	8	21031
asymmetric synapse	GO:0032279	GO:CC	0.005844395024	334	99	9	22097
plasma membrane bounded cell projection morphogenesis	GO:0120039	GO:BP	0.006184286295	671	98	14	21031
Aldosterone-regulated sodium reabsorption	KEGG:04960	KEGG	0.006228047005	37	52	4	8484
cell morphogenesis	GO:0000902	GO:BP	0.006419232236	986	98	17	21031

term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
cell projection morphogenesis	GO:0048858	GO:BP	0.006739389098	676	98	14	21031
lateral plasma membrane	GO:0016328	GO:CC	0.007052156954	76	99	5	22097
regulation of potassium ion transmembrane transporter activity	GO:1901016	GO:BP	0.007301897913	49	98	5	21031
cardiac muscle contraction	GO:0060048	GO:BP	0.007428918013	135	98	7	21031
postsynaptic specialization	GO:0099572	GO:CC	0.007712848065	346	99	9	22097
circulatory system process	GO:0003013	GO:BP	0.008345480873	592	98	13	21031
action potential	GO:0001508	GO:BP	0.01139450839	144	98	7	21031
basal plasma membrane	GO:0009925	GO:CC	0.01174279328	281	99	8	22097
neuron to neuron synapse	GO:0098984	GO:CC	0.01195274878	366	99	9	22097
calcium ion transport	GO:0006816	GO:BP	0.01351828955	436	98	11	21031
Insulin secretion	KEGG:04911	KEGG	0.01404650134	85	52	5	8484
hsa-miR-21-5p	MIRNA:hsa-miR-21-5p	MIRNA	0.0144035218	636	89	14	14819
Estrogen signaling pathway	KEGG:04915	KEGG	0.01473015574	136	52	6	8484
potassium ion transmembrane transport	GO:0071805	GO:BP	0.01535582182	212	98	8	21031
positive regulation of monoatomic ion transmembrane transport	GO:0034767	GO:BP	0.01557835309	151	98	7	21031
Carbohydrate digestion and absorption	KEGG:04973	KEGG	0.01607614934	47	52	4	8484
cellular response to organic cyclic compound	GO:0071407	GO:BP	0.01643670786	535	98	12	21031
regulation of transmembrane transport	GO:0034762	GO:BP	0.01674551616	446	98	11	21031
cell junction assembly	GO:0034329	GO:BP	0.01783639369	449	98	11	21031
basal part of cell	GO:0045178	GO:CC	0.01860784686	300	99	8	22097
actin-based cell projection	GO:0098858	GO:CC	0.01981026668	223	99	7	22097
connective tissue development	GO:0061448	GO:BP	0.02002523746	291	98	9	21031
GnRH signaling pathway	KEGG:04912	KEGG	0.0214488514	93	52	5	8484
Rap1 signaling pathway	KEGG:04015	KEGG	0.02334779352	210	52	7	8484
skin; secretory cells[High]	HPA:0450623	HPA	0.02507804786	3	67	2	11019
regulation of calcium ion transmembrane transport	GO:1903169	GO:BP	0.02569562374	163	98	7	21031
Mammary gland development pathway Embryonic development Stage 1 of 4	WP:WP2813	WP	0.02691827733	18	53	3	8286
maintenance of location in cell	GO:0051651	GO:BP	0.03055054461	233	98	8	21031
dendrite	GO:0030425	GO:CC	0.03244696258	622	99	11	22097
heart contraction	GO:0060047	GO:BP	0.03249853481	235	98	8	21031
dendritic tree	GO:0097447	GO:CC	0.0333761067	624	99	11	22097
synaptic signaling	GO:0099536	GO:BP	0.0342619629	780	98	14	21031
potassium ion transport	GO:0006813	GO:BP	0.03455009899	237	98	8	21031
filopodium	GO:0030175	GO:CC	0.03637163842	107	99	5	22097
cellular anatomical entity morphogenesis	GO:0032989	GO:BP	0.03678935938	785	98	14	21031
glutamatergic synapse	GO:0098978	GO:CC	0.03680205831	424	99	9	22097
regulation of calcium ion transmembrane transporter activity	GO:1901019	GO:BP	0.03998176408	69	98	5	21031
cGMP-PKG signaling pathway	KEGG:04022	KEGG	0.04052868589	164	52	6	8484
Glucagon signaling pathway	KEGG:04922	KEGG	0.04113058391	107	52	5	8484
cell communication by electrical coupling	GO:0010644	GO:BP	0.04196755653	34	98	4	21031
relaxation of muscle	GO:0090075	GO:BP	0.04196755653	34	98	4	21031
response to organic cyclic compound	GO:0014070	GO:BP	0.04215908381	905	98	15	21031
Thyroid hormones production and peripheral downstream signaling effects	WP:WP4746	WP	0.04283090574	93	53	5	8286
heart process	GO:0003015	GO:BP	0.04518468428	246	98	8	21031
actin filament-based process	GO:0030029	GO:BP	0.04862700317	805	98	14	21031
negative regulation of relaxation of cardiac muscle	GO:1901898	GO:BP	0.04884790445	2	98	2	21031
Tight junction	KEGG:04530	KEGG	0.04905552206	170	52	6	8484

term_name	term_id	source	adj_p_value	term_size	query_size	intersection_size	effective_domain_size
cardiac muscle cell contraction	GO:0086003	GO:BP	0.04922989428	72	98	5	21031
beta-catenin binding	GO:0008013	GO:MF	0.04946202846	89	97	5	20212
PKC gamma calcium signaling pathway in ataxia	WP:WP4760	WP	0.04989103991	22	53	3	8286
Sildenafil treatment	WP:WP5294	WP	0.04989103991	22	53	3	8286