

Gene	Gene	Gene	Gene
AADAC	ANKRD29	BIRC5	CCL20
AADACL2	ANKRD36	BMP2	CCL21
AANAT	ANKRD36B	BMP4	CCL3
ABAT	ANKRD36BP2	BMP6	CCL3L3
ABCA12	ANKRD36C	BMP7	CCL5
ABCC4	ANKRD9	BNIP1	CCN1
ABCE1	ANP32B	BOLL	CCN2
ACAD9	ANXA1	BPIFC	CCR5
ACE	AP3B1	BPTF	CCR6
ACHE	APIP	BRINP3	CCT3
ACOT7	APOA4	BSG	CD14
ACP5	APOC2	BTF3P11	CD19
ACSM6	APOE	BTG2	CD200R1L
ADA2	APP	C16orf54	CD27
ADAM17	ARCN1	C1orf185	CD274
ADAM2	ARG1	C1R	CD36
ADAM20	ARHGAP17	C1S	CD38
ADAM28	ARHGAP6	C20orf181	CD4
ADAT1	ARHGAP9	C2CD4A	CD40
ADGRE1	ARHGEF5	C3	CD40LG
ADIPOQ	ARL17A	C3orf56	CD53
ADRA1D	ARL17B	C4A	CD68
ADRB1	ARVCF	C4B	CD79A
AEBP1	ASNS	C4BPA	CDC42BPA
AGER	ASPN	C4orf3	CDK9
AGT	ATAD1	C5AR1	CDKN2B-AS1
AHNAK2	ATL2	C5orf15	CEBPG
AHR	ATM	C6orf132	CELA2B
AHSA1	ATN1	CACNG3	CEMP1
AIMP2	ATP2A3	CALCA	CENPP
AK1	ATP6VOA2	CALML5	CFAP45
AKR1C2	ATP6V1C2	CAMP	CHRNA3
AKT1	B3GALT5	CAPZA1	CHST1
ALB	B3GNT5	CARD14	CHST2
ALDH2	B4GALT6	CARMN	CHTOP
ALOX15B	BAIAP3	CASP1	CLCA4
ALOX5	BANF1	CASP3	CLDN1
ALPK1	BCL2	CAT	CLDN10
ALPL	BDNF	CAV1	CLDN20
ALPP	BGLAP	CCDC170	CLDND1
AMBN	BHLHA15	CCDC47	CLEC18A
AMELX	BHLHE41	CCL18	CLEC2B
AMTN	BIRC2	CCL2	CLU

Gene	Gene	Gene	Gene
CMA1	CWH43	DSG1	FABP4
CNFN	CXCL1	DSG4	FADD
CNTNAP3	CXCL10	DSPP	FAM151A
COBL	CXCL12	DTNB-AS1	FAM205A
COL15A1	CXCL13	DUSP13	FAM20A
COL17A1	CXCL2	DYNLL1	FAM214A
COL1A1	CXCL6	E2F4	FAM30A
COL25A1	CXCL8	EAf2	FAM83C
COL3A1	CXCR2	EDIL3	FAM83H
COL4A1	CXCR3	EDN1	FANCG
COL4A2	CXCR4	EEA1	FAP
COPS9	CYBA	EFL1	FASLG
COX2	CYP1A1	EGF	FBN1
COX6A2	CYP24A1	EGFR	FBX016
COX8A	CYP2C18	EIF1AD	FBX044
CPNE5	CYP2D6	EIF3E	FCAR
CPPED1	CYP3A5	EIF5	FCGR2A
CRACR2A	CYP4F3	EIF5A	FCGR2B
CRK	CYTIP	ELANE	FCGR3A
CRP	DAGLB	ELMOD1	FCGR3B
CRYBA4	DCN	ELN	FCH01
CSDE1	DCT	ELOVL4	FCRL5
CSF1	DDIT4L	EMC10	FCRLA
CSF2	DEFA1	ENAH	FERMT1
CSF2RB	DEFB1	ENAM	FERMT2
CSF3	DEFB103A	ENKD1	FGB
CSF3R	DEFB103B	ENPP2	FGD5-AS1
CSK	DEFB4A	ENTPD1	FGF10
CST3	DEFB4B	EPB41L4B	FGF2
CST4	DENND10	EPCAM	FGF23
CST6	DENND5B	EPPK1	FGF3
CST7	DERL3	ERAP2	FGF7
CTC1	DES	ERI1	FGFR2
CTLA4	DKC1	ESR1	FILIP1L
CTNNB1	DKK1	ESR2	FKBP11
CTRL	DLG2	ESRRB	FLG
CTSB	DLX3	ETFDH	FLG2
CTSC	DNASE1L2	ETV5	FLOT2
CTSD	DNMT1	EVI2B	FMN1
CTSG	DPP4	EXPH5	FMOD
CTSK	DPP7	F2R	FN1
CTSL	DSC1	F2RL1	FNDC3B
CTSS	DSC2	FAAH2	FOLH1

Gene	Gene	Gene	Gene
FOS	GZMB	ICAM3	IGKV1-39
FOSL2	GZMM	ICOS	IGKV1D-13
FOXD4L4	H1-0	IFIH1	IGKV1D-17
FOXN1	H2AZ2	IFNA7	IGKV1D-37
FOXO1	H3C11	IFNG	IGKV1D-39
FOXP2	H4C14	IFNL1	IGKV1D-8
FOXP3	HAX1	IFNW1	IGKV10R10-1
FPR1	HBA1	IGF1	IGKV10R1-1
FRMD7	HBA2	IGF1R	IGKV10R-2
FSD2	HBB	IGF2	IGKV10R2-1
FSIP2	HBS1L	IGFBP5	IGKV10R2-108
G6PC1	HCLS1	IGHA1	IGKV10R2-118
GAA	HERC2	IGHA2	IGKV10R2-2
GABPA	HEY2	IGHG1	IGKV10R-3
GADD45GIP1	HGF	IGHG2	IGKV10R9-1
GALR1	HIF1A	IGHG3	IGKV10R9-2
GATA6	HLA-A	IGHG4	IGKV2-28
GCFC2	HLA-B	IGHGP	IGKV2D-28
GDF15	HLA-C	IGHM	IGKV3-20
GDF5	HLA-DOB	IGHV1-69	IGKV4-1
GFI1	HLA-DQB1	IGHV1-69D	IGLC2
GGT1	HLA-DRB1	IGHV3-20	IGLC3
GIP	HLF	IGHV3-21	IGLL3P
GJA3	HMGB1	IGHV3-23	IGLV1-47
GLCCI1	HMG2	IGHV3-30	IGLV1-51
GLRA2	HMG3	IGHV3-30-2	IGLV2-14
GLRA3	HMOX1	IGHV3-33	IGLV2-8
GLT6D1	HNRNPL	IGHV3-33-2	IGLV3-10
GLYATL2	HNRNPR	IGHV3-47	IGLV3-19
GNAI2	HOXC9	IGHV3-54	IGLV3-25
GNRH1	HOXD3	IGHV3-7	IGLV4-60
GORAB	HP	IGHV3-72	IGLV7-43
GORASP1	HPGD	IGHV3-73	IKZF1
GPR68	HSPA13	IGHV4-34	IL10
GPRASP1	HSPA14	IGHV4-59	IL10RA
GPT	HSPD1	IGHV4-61	IL11
GRAP2	HSPG2	IGKJ2	IL12A
GSR	HTN1	IGKJ3	IL12B
GSTA1	HTN3	IGKJ4	IL13
GSTM1	HVCN1	IGKJ5	IL16
GTPBP10	IBSP	IGKV1-13	IL17A
GUSB	ICAM1	IGKV1-17	IL17F
GUSBP11	ICAM2	IGKV1-37	IL18

Gene	Gene	Gene	Gene
IL1A	JUNB	MAGED4B	MMP19
IL1B	KCNN3	MAGEL2	MMP2
IL1R1	KIAA0408	MALAT1	MMP25
IL1R2	KIF21A	MAMDC2	MMP3
IL1RAPL2	KLHDC9	MAP2	MMP7
IL1RN	KLHL6	MAPK1	MMP8
IL2	KLK11	MAPK14	MMP9
IL22	KNG1	MAPK3	MPL
IL22RA2	KRT1	MAPK8	MPND
IL23A	KRT10	MARCHF9	MPO
IL2RA	KRT19	MBL2	MPZL1
IL2RG	KRT2	MBL3P	MRPL43
IL3	KYNU	MBNL2	MRPS33
IL33	LACTB	MCM3AP	MS4A1
IL34	LAMA4	MEAK7	MSMB
IL4	LANCL3	MED18	MST1
IL4R	LAX1	MEFV	MTCO2P12
IL5	LBP	MEI1	MTHFS
IL6	LEKR1	MET	MUC15
IL6R	LEP	MFSD1	MUC17
IL6ST	LGALS9	MGMT	MUC4
IL7	LGALSL	MGST2	MYD88
INIP	LIMK1	MIA3	MYOF
INKA1	LINC02022	MID2	MZB1
INPP5D	LMLN	MIF	N4BP2L1
INPP5J	LOC106029312	MINDY1	NAA20
IPW	LORICRIN	MIR1226	NAMPT
IRF4	LPO	MIR142	NAT1
IRX1	LRPAP1	MIR146A	NBPF14
ISCU	LRRC8E	MIR17	NCF1
ITGA11	LRRIQ3	MIR21	NCF4
ITGA4	LSM4	MIR4450	NCF4-AS1
ITGAL	LSM5	MIR650	NCOA6
ITGAM	LSM6	MIR6841	NCOA7
ITGAX	LSMEM1	MKRN3	NDN
ITGB2	LST1	MKRN3-AS1	NDUFB10
ITGB6	LTA	MLKL	NEDD9
ITM2C	LTF	MME	NEFL
JAG1	LY6G6C	MMEL1	NEFM
JAGN1	LY9	MMP1	NF2
JAK3	LYST	MMP12	NFATC1
JCHAIN	MACF1	MMP13	NFE2L2
JUN	MAF	MMP14	NFKB1

Gene	Gene	Gene	Gene
NHP2	P2RY8	PPOX	RAVER1
NIPBL	PADI4	PPP1R27	RECK
NKAIN2	PAGE4	PPT1	RELA
NKRF	PAPPA2	PREB	REN
NLRP10	PAQR5	PRKX	RETN
NLRP3	PARN	PROK2	RFK
NME2	PCDHGA1	PRRC1	RGL2
NOA1	PCDHGC3	PRSS35	RGS1
NOD2	PCSK9	PRSS57	RGS20
NOG	PDE4C	PRTN3	RGS4
None	PDGFB	PSG8	RIF1
NOP10	PDLIM3	PSMA7	RNASE3
NOP9	PDON2	PSME1	RNF10
NOS1	PDZRN4	PSORS1C1	RNF19A
NOS2	PECAM1	PTGER2	RNF212
NOTCH1	PES1	PTGER3	RNH1
NOTCH2	PFAS	PTGER4	RORA
NOTCH3	PHEX	PTGS1	RORC
NOTUM	PHF12	PTGS2	RPA3
NPAP1	PHF13	PTH	RPL32
NPM1	PIM2	PTH1R	RPL35A
NPR1	PIMREG	PTHLH	RPL37
NPR3	PIP5K1B	PTK2	RPL39
NPY	PKN2-AS1	PTK7	RPTN
NROB1	PLAC8	PTP4A3	RSP01
NR1I2	PLAT	PTPN2	RTKL1
NSD3	PLAU	PTPN22	RTKL1-TNFRSF6B
NSG1	PLG	PTX3	RTL1
NTPCR	PLGLB2	PWAR1	RUNX2
NTRK1	PLPP5	PWRN1	RUVBL2
NUDT6	PLXDC2	PXN	RYR2
NUP153	PNOC	PYCR1	S100A13
OCA2	POF1B	PYDC1	S100A4
OCRL	POLDIP2	PYGL	S100A8
ODAM	POM121L2	QSOX2	S100A9
OLFM1	PON1	RAB28	SAA1
OR11L1	POSTN	RAB30	SAA2
OR8H3	POU2AF1	RAB39B	SAA2-SAA4
OR8K3	PPARA	RAB6A	SAA4
OSM	PPARG	RAC2	SAMD14
OTDD	PPBP	RARRES2	SAMSN1
P2RX7	PPM1E	RASA3	SCTR
P2RY6	PPM1L	RASSF6	SDHC

Gene	Gene	Gene	Gene
SEC61G	SLC52A2	STATH	TNFRSF11B
SECISBP2L	SLC6A12	SUCLG1	TNFRSF17
SEL1L3	SLC9A9	SYN2	TNFRSF19
SELE	SLF1	SYNGR4	TNFRSF1A
SELENOM	SLPI	SYT1	TNFRSF1B
SELL	SLTM	TAGAP	TNFRSF6B
SELP	SMAD2	TAGLN	TNFSF11
SEMA5A	SMAD7	TAPBPL	TNFSF13
SERPINA1	SMARCE1	TAS2R16	TNFSF13B
SERPINA3	SMC3	TCEA2	TNIP1
SERPINB2	SMIM12	TCEA3	TNNC2
SERPINE1	SNORD115-1	TCEAL9	TOR1AIP1
SERPINF2	SNORD116@	TCIRG1	TP53
SETMAR	SNORD116-1	TD02	TPT1
SF1	SNRPN	TENM2	TRAP
SFRP1	SNX21	TENT5C	TRBV200R9-2
SFRP4	SOCS3	TERC	TREM1
SFRP5	SOCS7	TERT	TREM2
SH3GL3	SOD1	TG	TRIM40
SIGLEC5	SOD2	TGFB1	TRIM60
SIRT1	SORT1	TGM6	TRMT9B
SIT1	SOST	THADA	TSPAN7
SLAMF7	SOSTDC1	THBS1	TTI2
SLAMF8	SOX6	THEMIS2	TUBAL3
SLC15A2	SP6	THNSL2	TUG1
SLC16A9	SP7	TIMP1	TYRP1
SLC17A5	SPACA7	TIMP2	UBAC1
SLC19A1	SPAG17	TIMP3	UNC50
SLC19A2	SPAG4	TIMP4	UNC93A
SLC22A15	SPARC	TINF2	USB1
SLC24A4	SPHK2	TLE4	USE1
SLC25A35	SPP1	TLL1	USP2
SLC26A1	SPRED1	TLR1	USP34
SLC27A6	SPRED2	TLR2	USP53
SLC2A3	SREK1	TLR4	USP54
SLC2A4RG	SRGN	TLR9	USP9Y
SLC30A2	SRP19	TMC5	UST
SLC30A5	SRP54	TMC7	VCAM1
SLC35A2	SRPRA	TMEM176B	VDR
SLC35B1	ST6GAL1	TMPRSS13	VEGFA
SLC35C1	ST8SIA4	TMTC3	VEZF1
SLC37A4	STAP1	TNF	VIP
SLC52A1	STAT1	TNFRSF11A	WAKMAR2

Gene

WASF2
WASL
WNK1
WNT5A
WRAP53
XDH
XIAP
XKR6
XRN2
Y_RNA
YARS1
YOD1
ZBP1
ZFPM1
ZGPAT
ZNF155
ZNF215
ZNF287
ZNF394
ZNF587
ZNF766
ZNF77
ZNF787
ZSCAN23