

Supplementary Tables

Supplementary Table 1. Demographics of influenza challenge patients testing PCR-positive (+) and PCR-negative (-) for Influenza A (H3N2) virus.
Two-tailed Wilcoxon and Fisher’s exact tests of significance were employed for comparisons of medians.

	PCR+	PCR-	p
Total number of participants, n	24	6	
Age (median, IQR [years])	42.5 (33.6-51.4)	44.0 (37.4-50.6)	0.53
Female sex, n (%)	12 (50)	3 (50)	1
Male sex, n (%)	12 (50)	3 (50)	
Ethnicity, n (%)	Asian	0	0.78
	Black	0	
	White	6 (100)	
	Other	0	

Supplementary Table 2. Comparisons of baseline (pre-influenza) BCG *lux* GR_{72 h} and Δ GR_{72 h} for demographics, viral load and symptom scores.

For sex, F= female, M= male. For ethnicity, A= Asian, B= Black, O= Other, W= White. Where applicable, the number of participants (n) is given in brackets. Two-tailed Wilcoxon and Fisher's exact tests of significance were employed for comparisons of medians, except where * indicates normally distributed data in which case two-tailed t-tests and one way ANOVA were utilised to compare means.

	Median/ Mean	Pearsons correlation coefficient	p value
GR_{72 h} (all, n=28)			
Sex (n)	F=1.35 (15), M=0.99 (13)		0.27
Ethnicity (n)	A=0.74 (5), B= 1.74 (2), O= 0.47 (1), W= 1.15 (20)		1
Age		0.04	0.84
ΔGR_{72 h} (PCR+ only, n=22)			
Sex (n)*	F=148 (15), M=147 (13)		0.93
Ethnicity (n)*	A=172 (5) , B= 130 (2) , O= 169 (1) , W= 153 (14)		0.89
Age		-0.24	0.29
Maximal viral load		0.1	0.65
Maximal symptom score		0.04	0.86

Supplementary Table 3**Significantly differentially expressed genes (adjusted $p \leq 0.05$) identified in DESeq2 for the variable *BCG***

Ensembl gene ID	Gene symbol	baseMean	log2FoldChange	adj. p
ENSG00000113302	IL12B	289.931931	8.530074653	3.01E-122
ENSG00000157227	MMP14	2348.398008	4.641804999	4.47E-104
ENSG00000135678	CPM	641.8850521	3.016278698	5.60E-101
ENSG00000165474	GJB2	452.5146307	6.932385846	3.27E-99
ENSG00000261618	LINC02605	78.90887452	4.549725344	5.96E-98
ENSG00000148459	PDSS1	257.8742936	1.998425145	5.75E-96
ENSG00000050730	TNIP3	743.3038221	5.234241947	3.13E-95
ENSG00000156127	BATF	518.815828	2.180506023	3.90E-95
ENSG00000163082	SGPP2	1011.593479	4.60038334	8.88E-88
ENSG00000136244	IL6	4881.063522	8.82413637	9.66E-88
ENSG00000132669	RIN2	1328.635134	3.382410397	1.11E-87
ENSG00000056558	TRAF1	11818.70241	2.565512209	2.92E-83
ENSG00000136688	IL36G	99.0572419	9.35670139	3.96E-83
ENSG00000165997	ARL5B	2741.70506	2.036849713	5.58E-83
ENSG00000111879	FAM184A	241.3292762	2.175427301	9.61E-71
ENSG00000141384	TAF4B	914.4946148	1.677510286	1.55E-70
ENSG00000234883	MIR155HG	876.4327702	4.245544098	6.03E-69
ENSG00000273176		67.14318266	3.638510816	6.03E-69
ENSG00000125733	TRIP10	573.6703459	2.701731707	7.18E-69
ENSG00000115956	PLEK	18660.54463	2.294336415	1.77E-68
ENSG00000188211	NCR3LG1	1515.65098	3.754828368	1.78E-68
ENSG00000146457	WTAP	6836.196393	1.598157405	2.22E-67
ENSG00000137507	LRR32	209.1660673	3.103280701	2.94E-67
ENSG00000269303	GRAMD1A-AS1	70.53917527	3.261038102	6.70E-67
ENSG00000260196		201.5300207	3.707661262	7.32E-67
ENSG00000168246	UBTD2	405.3928205	2.206527549	9.57E-65
ENSG00000255521	CD44-DT	45.01029672	3.130650924	1.19E-62
ENSG00000109787	KLF3	5388.06379	-0.886434615	3.70E-62
ENSG00000238164	TNFRSF14-AS1	1255.519007	1.8173834	1.51E-60
ENSG00000186187	ZNRF1	584.6361776	2.422509121	1.51E-60
ENSG00000131242	RAB11FIP4	3450.820694	-0.996080354	6.31E-60
ENSG00000150938	CRIM1	399.188415	1.784744199	2.11E-59
ENSG00000279719		208.1056971	4.826513397	2.19E-58
ENSG00000102393	GLA	973.6997854	2.109229529	5.97E-58
ENSG00000122641	INHBA	2080.908696	5.635414356	1.15E-57
ENSG0000026751	SLAMF7	8371.006907	3.706046641	3.22E-56
ENSG00000165591	FAAH2	619.9631185	2.032306546	3.80E-56
ENSG00000279699		56.46331979	3.622661047	4.37E-56
ENSG00000087074	PPP1R15A	9331.206581	1.956201265	9.67E-56
ENSG00000198728	LDB1	2106.911897	-0.596920909	4.83E-55
ENSG00000267676	THA1P	166.3515977	3.280294079	4.83E-55
ENSG00000224596	ZMIZ1-AS1	275.9443753	2.439040006	8.47E-55
ENSG00000251230	MIR3945HG	733.5991243	4.425733332	6.93E-54
ENSG00000186827	TNFRSF4	567.8254329	2.306237416	1.03E-53
ENSG00000233058	ATP13A3-DT	171.5797507	2.27432894	1.03E-53
ENSG00000171522	PTGER4	5015.547777	1.29067315	2.36E-52
ENSG00000274528		27.22622121	4.421513925	3.38E-52

ENSG00000275385	CCL18	52.35198016	5.48625664	6.17E-52
ENSG00000275183	LENG9	163.8737341	1.642887048	1.32E-51
ENSG00000185022	MAFF	3610.436406	2.749390801	1.77E-51
ENSG00000227145	IL21-AS1	18.79651028	4.346900708	3.18E-51
ENSG00000279117		718.2184092	-1.686338534	9.75E-51
ENSG00000099860	GADD45B	5099.135341	1.843255178	1.81E-50
ENSG00000149091	DGKZ	5176.247036	-1.056801148	3.15E-50
ENSG00000130340	SNX9	2727.460332	1.750234782	4.67E-50
ENSG00000124257	NEURL2	154.7366862	2.055939495	1.12E-49
ENSG00000276085	CCL3L1	9342.051387	4.694914924	1.77E-49
ENSG00000226137	BAIAP2-DT	269.049815	-2.720199172	1.82E-49
ENSG00000255398	HCAR3	7757.442526	3.53873468	4.39E-49
ENSG00000255355	PATL1-DT	136.8015302	3.972956146	6.37E-49
ENSG00000114268	PFKFB4	756.3929099	-3.52024165	1.65E-48
ENSG00000171206	TRIM8	2422.770629	-1.161324018	1.86E-48
ENSG00000112149	CD83	6642.508624	2.401844033	2.80E-48
ENSG00000166145	SPINT1	237.0232047	-2.535641895	7.11E-48
ENSG00000100605	ITPK1	2857.528884	-1.800320751	3.05E-47
ENSG00000072110	ACTN1	5279.001776	-1.58813975	3.05E-47
ENSG00000277969		488.5028939	2.343958018	5.75E-47
ENSG00000172830	SSH3	553.4264562	-1.440416981	1.30E-46
ENSG00000228477		177.7707353	3.785545498	2.15E-46
ENSG00000257181		13.59133932	2.948569107	2.73E-46
ENSG00000268635		38.84971902	3.64406772	3.02E-46
ENSG00000125462	MIR9-1HG	698.8101071	4.315531498	6.58E-46
ENSG00000271780		204.4462826	1.902114058	7.61E-46
ENSG00000163870	TPRA1	1601.521588	1.78753867	7.79E-46
ENSG00000235172	LINC01366	72.26291554	3.163952628	1.36E-45
ENSG00000279886		33.19090309	3.528752544	1.52E-45
ENSG00000277632	CCL3	20732.97101	5.435061631	3.68E-45
ENSG00000132359	RAP1GAP2	1737.430953	-3.516586604	3.96E-45
ENSG00000108342	CSF3	873.1701406	9.795151272	5.45E-45
ENSG00000198879	SFMBT2	1996.838696	1.126812794	9.53E-45
ENSG00000137841	PLCB2	4699.888495	-1.773479985	1.50E-44
ENSG00000205269	TMEM170B	1466.246254	-2.202984372	1.79E-44
ENSG00000274215		50.53487912	3.200147472	2.83E-44
ENSG00000180875	GREM2	38.62100367	2.428075565	7.82E-44
ENSG00000140961	OSGIN1	228.3230234	2.102413783	8.31E-44
ENSG00000261371	PECAM1	5991.263183	-2.629771961	1.02E-43
ENSG00000202016	RNU6-619P	14.97927226	4.615999231	4.01E-43
ENSG00000149289	ZC3H12C	1090.198592	4.061748099	4.01E-43
ENSG00000064012	CASP8	4334.876855	-0.855546783	4.50E-43
ENSG00000102572	STK24	3485.95376	-0.732142046	4.87E-43
ENSG00000178567	EPM2AIP1	3017.834645	1.10278442	6.35E-43
ENSG00000169220	RGS14	1839.019667	-1.363071578	6.35E-43
ENSG00000125731	SH2D3A	793.6146727	1.554820036	7.37E-43
ENSG00000176393	RNPEP	1067.559356	-1.109632645	8.26E-43
ENSG00000089351	GRAMD1A	9341.508502	1.853943067	9.15E-43
ENSG00000255507	UVRAG-DT	33.37275118	3.128558596	9.15E-43
ENSG00000253522	MIR3142HG	527.0384938	3.914497859	1.02E-42
ENSG00000167604	NFKBID	2816.735875	1.528889328	1.06E-42

ENSG00000255874	PRECSIT	42.62156517	3.197924473	1.06E-42
ENSG00000119537	KDSR	808.5091859	1.04329829	1.40E-42
ENSG00000181274	FRAT2	1678.375393	-2.099593022	1.45E-42
ENSG00000205084	TMEM231	76.37549353	2.222984979	1.46E-42
ENSG00000102096	PIM2	6117.730526	1.522936653	1.50E-42
ENSG00000237513		569.1800452	1.572928632	1.60E-42
ENSG00000258667	HIF1A-AS3	66.20744124	3.753301024	1.69E-42
ENSG00000273604	EPOP	98.01904587	2.723483549	2.20E-42
ENSG00000186074	CD300LF	793.0069869	-2.372934484	2.52E-42
ENSG00000108984	MAP2K6	334.9512936	-2.047206758	3.00E-42
ENSG00000137869	CYP19A1	17.11894728	5.971041225	3.82E-42
ENSG00000140545	MFGE8	585.5156917	-0.921923695	4.05E-42
ENSG00000170542	SERPINB9	6270.225581	2.422344775	4.19E-42
ENSG00000203364		108.7404448	5.60943653	5.25E-42
ENSG00000197852	INKA2	1526.649853	-2.833459195	6.98E-42
ENSG00000065457	ADAT1	1567.826476	1.142203794	7.84E-42
ENSG00000156675	RAB11FIP1	4006.524366	-1.6949546	8.05E-42
ENSG00000114738	MAPKAPK3	2590.565208	-1.182428243	8.31E-42
ENSG00000197183	NOL4L	2287.564695	-1.109095948	9.27E-42
ENSG00000080371	RAB21	3718.665833	1.288799818	9.57E-42
ENSG00000226025		56.45250751	2.57580465	9.57E-42
ENSG00000275302	CCL4	17715.60048	5.277076291	2.53E-41
ENSG00000143537	ADAM15	574.4046923	-1.442017839	2.97E-41
ENSG00000065413	ANKRD44	8739.178638	-0.924036047	3.18E-41
ENSG00000167261	DPEP2	3159.856569	-1.599875446	3.40E-41
ENSG00000181444	ZNF467	786.7256352	-3.086834183	4.53E-41
ENSG00000143382	ADAMTSL4	458.9296235	-2.653123971	5.77E-41
ENSG00000103381	CPPED1	2349.608151	-3.244687516	8.04E-41
ENSG00000214113	LYRM4	297.2852988	0.735676808	8.09E-41
ENSG00000119457	SLC46A2	57.47088577	-5.14856223	8.09E-41
ENSG00000154027	AK5	146.573524	-3.317027605	1.07E-40
ENSG00000179361	ARID3B	1397.116106	-0.839091987	1.11E-40
ENSG00000134871	COL4A2	55.55974413	3.326947991	1.32E-40
ENSG00000149485	FADS1	323.7842439	-1.317514274	1.52E-40
ENSG00000004799	PDK4	638.91911	-2.817332616	1.77E-40
ENSG00000279865		88.5197361	1.957336118	2.05E-40
ENSG00000168389	MFSD2A	1418.31537	3.877790513	2.50E-40
ENSG00000237732	CT75	59.23427776	5.392255255	3.12E-40
ENSG00000180891	CUEDC1	353.7417711	-2.7940413	3.21E-40
ENSG00000267194		93.94149437	-2.252212293	3.34E-40
ENSG00000140368	PSTPIP1	2999.481104	-0.993140018	3.37E-40
ENSG00000079691	CARMIL1	344.4499803	-1.021797237	3.54E-40
ENSG00000107104	KANK1	968.3589506	2.692241764	3.54E-40
ENSG00000076242	MLH1	1086.176828	0.671619242	4.52E-40
ENSG00000105514	RAB3D	2164.199853	-2.051614786	5.92E-40
ENSG00000196535	MYO18A	2800.637182	-0.94744241	6.26E-40
ENSG00000124831	LRRFIP1	6920.49377	-1.208981891	6.42E-40
ENSG00000173825	TIGD3	86.72409813	-3.479658317	8.46E-40
ENSG00000141096	DPEP3	100.1288381	-3.408052073	8.99E-40
ENSG00000224593		10.49732191	4.458786416	9.21E-40
ENSG00000110911	SLC11A2	2813.773707	2.000503107	9.35E-40

ENSG00000052795	FNIP2	2206.821904	1.929935284	1.00E-39
ENSG00000114853	ZBTB47	285.149789	-1.794668563	1.04E-39
ENSG00000275532		32.71078608	3.059349229	1.35E-39
ENSG00000176438	SYNE3	3036.552636	-1.11438051	1.44E-39
ENSG00000125510	OPRL1	328.844082	-1.505282616	1.55E-39
ENSG00000269680		60.86470066	1.653535326	1.91E-39
ENSG00000134686	PHC2	3733.740142	-1.630284937	2.33E-39
ENSG00000134698	AGO4	2658.227631	-1.312992689	2.78E-39
ENSG00000040933	INPP4A	5936.571392	-0.701054048	2.83E-39
ENSG00000278607		73.1562188	2.454782787	4.05E-39
ENSG00000163874	ZC3H12A	5379.43396	2.112902488	6.41E-39
ENSG00000139626	ITGB7	1943.628585	-1.184717975	6.57E-39
ENSG00000231233	CFAP58-DT	277.4913396	2.707143659	6.88E-39
ENSG00000061273	HDAC7	3628.326789	-0.696127845	7.37E-39
ENSG00000242247	ARFGAP3	1908.95384	0.98827908	7.52E-39
ENSG00000102100	SLC35A2	546.1311455	1.234873005	1.97E-38
ENSG00000178764	ZHX2	2357.55622	1.158439769	1.97E-38
ENSG00000102007	PLP2	1117.906306	-1.167047908	2.11E-38
ENSG00000089012	SIRPG	347.2842271	-1.78544467	2.87E-38
ENSG00000182118	FAM89A	160.1351773	1.186723709	5.66E-38
ENSG00000165458	INPPL1	2430.489912	-0.911245323	6.85E-38
ENSG00000164088	PPM1M	1788.358116	-0.922209511	1.05E-37
ENSG00000141401	IMPA2	548.5852785	-3.468796869	1.13E-37
ENSG00000140044	JDP2	692.4186456	-2.073287483	1.16E-37
ENSG00000091483	FH	456.5586031	0.759648821	1.17E-37
ENSG00000100242	SUN2	12548.07864	-0.577339788	1.37E-37
ENSG00000232618	HIVEP2-DT	88.34062374	1.534848469	1.38E-37
ENSG00000117009	KMO	780.0611177	3.251722507	1.40E-37
ENSG00000070961	ATP2B1	7842.578314	1.510570441	1.77E-37
ENSG00000158470	B4GALT5	4110.430639	1.955341286	2.00E-37
ENSG00000165795	NDRG2	157.5702842	-1.92590682	2.12E-37
ENSG00000274736	CCL23	70.74844438	4.156891011	2.28E-37
ENSG00000174697	LEP	31.78188943	4.222626751	2.62E-37
ENSG00000271383	NBPF19	3149.59852	1.27720884	2.80E-37
ENSG00000163393	SLC22A15	569.9515207	-1.759266707	2.83E-37
ENSG00000267195	MIR212	27.83565048	3.712594814	2.85E-37
ENSG00000168994	PXDC1	152.1086821	1.709159677	3.02E-37
ENSG00000118308	IRAG2	1842.623065	-1.746324602	3.13E-37
ENSG00000238241	CCR12P	204.1766816	1.437746202	3.25E-37
ENSG00000101493	ZNF516	2582.575627	-1.941902182	5.12E-37
ENSG00000162924	REL	4475.752221	1.423270744	5.66E-37
ENSG00000167552	TUBA1A	2607.440739	-3.166557787	6.43E-37
ENSG00000235385	LINC02154	98.35132835	6.163059711	6.45E-37
ENSG00000150347	ARID5B	4112.588272	0.845357646	6.75E-37
ENSG00000136161	RCBTB2	975.1783088	-1.600156399	1.17E-36
ENSG00000035681	NSMAF	2413.566441	1.282595572	1.34E-36
ENSG00000102882	MAPK3	991.7157285	-1.485115707	1.42E-36
ENSG00000214688	C10orf105	177.2426698	-4.178723474	2.04E-36
ENSG00000103490	PYCARD	681.1686526	-2.238475588	2.06E-36
ENSG00000148660	CAMK2G	2201.148971	-1.435359135	2.12E-36
ENSG00000147010	SH3KBP1	3591.057834	-0.813367571	2.28E-36

ENSG00000271133	ITGB8-AS1	26.3453204	2.890648673	2.38E-36
ENSG00000196839	ADA	1527.598423	2.098439534	2.81E-36
ENSG00000259438	MAPK6-DT	12.99882123	4.148640766	3.53E-36
ENSG00000142599	RERE	3015.131796	-1.21696268	3.93E-36
ENSG00000078401	EDN1	186.0588387	2.758428495	3.96E-36
ENSG00000122025	FLT3	89.74323869	-2.992392077	5.67E-36
ENSG00000253372		686.1662675	1.315428242	5.67E-36
ENSG00000111863	ADTRP	573.6374972	1.903795948	6.44E-36
ENSG00000145979	TBC1D7	1205.442507	1.384925143	6.54E-36
ENSG00000141905	NFIC	1344.143564	-1.043996158	9.62E-36
ENSG00000113263	ITK	8563.161922	0.822636479	1.24E-35
ENSG00000272008		30.89531479	1.970704651	1.32E-35
ENSG00000229153	EPHA1-AS1	111.6486671	-2.242217654	1.37E-35
ENSG00000073150	PANX2	244.757584	-3.24228206	1.37E-35
ENSG00000215861		238.1906515	4.27939378	1.38E-35
ENSG00000102172	SMS	1157.972055	1.032564809	1.40E-35
ENSG00000090339	ICAM1	7358.582838	2.065168473	2.16E-35
ENSG00000154845	PPP4R1	2199.391491	-1.133848976	2.16E-35
ENSG00000136689	IL1RN	8945.823792	3.801526676	2.52E-35
ENSG00000102879	CORO1A	15876.01893	-0.878561622	2.84E-35
ENSG00000111728	ST8SIA1	520.1756532	1.186721564	4.16E-35
ENSG00000196917	HCAR1	114.603683	4.689268958	4.45E-35
ENSG00000280228		109.5074846	4.775076707	5.56E-35
ENSG00000250929	LINC01181	35.53185253	5.452786307	5.72E-35
ENSG00000102780	DGKH	1133.934066	0.774326801	6.93E-35
ENSG00000259912		60.32451659	3.639295721	7.57E-35
ENSG00000148158	SNX30	1345.77476	-0.926247654	7.87E-35
ENSG00000222009	BTBD19	1361.064621	2.228774354	8.94E-35
ENSG00000120913	PDLIM2	1746.87879	-1.50061535	1.02E-34
ENSG00000137642	SORL1	25675.50805	-1.650595668	1.40E-34
ENSG00000198624	CCDC69	3401.300182	-0.862660651	1.50E-34
ENSG00000165115	KIF27	345.461437	-1.470514491	1.50E-34
ENSG00000272449		611.838566	1.8216776	1.50E-34
ENSG00000104915	STX10	1039.148268	-1.598343191	1.57E-34
ENSG00000157557	ETS2	5006.668368	1.437741048	1.73E-34
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ENSG00000163788	SNRK	5119.969565	-0.867541356	2.12E-34
ENSG00000148411	NACC2	994.1733194	-1.999519113	2.12E-34
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ENSG00000222047	C10orf55	117.0905199	4.558691302	2.44E-34
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ENSG00000243440		40.85885946	3.946670831	2.90E-34
ENSG00000185905	C16orf54	3896.093479	-0.996505764	4.09E-34
ENSG00000110934	BIN2	4683.801247	-1.194009198	4.10E-34
ENSG00000116044	NFE2L2	5773.748439	1.206147171	4.34E-34
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ENSG00000162444	RBP7	74.11444186	-4.365492678	7.37E-34
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ENSG00000131979	GCH1	2712.657855	2.325170051	1.19E-33
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ENSG00000267034		204.662801	6.798947241	1.23E-33
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ENSG00000146592	CREB5	1550.100397	-3.025698109	1.49E-33
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ENSG00000247400	DNAJC3-DT	228.6648889	1.869134267	1.96E-33
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ENSG00000173114	LRRN3	170.7016117	-2.495471063	2.61E-33
ENSG00000165879	FRAT1	1018.672444	-1.432016545	2.80E-33
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ENSG00000178075	GRAMD1C	188.255022	-1.80054362	3.00E-33
ENSG00000115919	KYNU	3314.735021	2.507529564	3.79E-33
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ENSG00000076043	REXO2	519.7941872	0.753574051	5.44E-33
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ENSG00000277089	CCL3-AS1	79.16122843	1.780909947	5.64E-32
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ENSG00000204569	PPP1R10	3851.295259	0.753803686	3.42E-27
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ENSG00000166394	CYB5R2	43.29281537	2.381376771	4.54E-27
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ENSG00000182511	FES	1110.33575	-2.265145131	5.08E-27
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ENSG00000103196	CRISPLD2	882.4608052	-2.70594831	5.25E-27
ENSG00000135476	ESPL1	190.1152435	1.93514495	5.49E-27
ENSG00000110665	C11orf21	1657.901534	-2.165310243	5.52E-27
ENSG00000123684	LPGAT1	2985.58928	-0.943241413	6.00E-27
ENSG00000254271	ANK3-DT	18.40436256	2.254875798	6.01E-27
ENSG00000121281	ADCY7	6385.887106	-0.59687119	6.02E-27
ENSG00000265237	MIR3142	17.23871582	3.039896144	6.34E-27
ENSG00000158156	XKR8	845.263426	-1.666210679	6.45E-27
ENSG00000258872	FDPSP3	111.5381263	2.106681284	8.24E-27
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ENSG00000105976	MET	605.7369727	5.135836821	8.57E-27
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ENSG00000273356	LINC02019	65.11892142	-2.356577879	8.86E-27
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ENSG00000105771	SMG9	1359.187507	1.166454941	9.18E-27
ENSG00000100299	ARSA	985.5761135	-1.013560252	9.27E-27
ENSG00000111348	ARHGDIB	13251.13476	-0.735270731	1.09E-26
ENSG00000039319	ZFYVE16	4279.45088	1.432847777	1.20E-26

ENSG00000105711	SCN1B	532.4053962	2.709889561	1.21E-26
ENSG00000174946	GPR171	1180.10254	1.633877545	1.25E-26
ENSG00000147251	DOCK11	5083.457747	-0.83017506	1.28E-26
ENSG00000223552	CCR5AS	191.0886067	2.127761179	1.31E-26
ENSG00000100504	PYGL	1662.294993	-3.179828818	1.32E-26
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ENSG00000265134	MIR3190	63.88419531	2.096160477	1.39E-26
ENSG00000198951	NAGA	948.7066422	-0.970989656	1.40E-26
ENSG00000023608	SNAPC1	301.5379774	1.259909178	1.52E-26
ENSG00000186205	MTARC1	142.5005533	-3.540130631	1.59E-26
ENSG00000138670	RASGEF1B	3507.701786	1.787093259	1.72E-26
ENSG00000276070	CCL4L2	9102.017501	4.624802968	1.98E-26
ENSG00000090372	STRN4	2252.760615	-0.646243741	2.15E-26
ENSG00000127666	TICAM1	1016.395875	1.680910732	2.23E-26
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ENSG00000220867	HSPE1P26	39.39167546	1.379189822	2.30E-26
ENSG00000168067	MAP4K2	2079.569624	-0.481296631	2.38E-26
ENSG00000282860		35.91823685	2.006234923	2.56E-26
ENSG00000081041	CXCL2	5069.859076	4.294907188	2.68E-26
ENSG00000141505	ASGR1	72.56658167	-3.447317851	2.92E-26
ENSG00000167565	SERTAD3	616.1575603	-0.941222845	3.02E-26
ENSG00000158473	CD1D	354.9531936	-3.530804146	3.16E-26
ENSG00000158987	RAPGEF6	1367.639433	0.621632273	3.19E-26
ENSG00000171174	RBKS	416.4105005	1.503559326	3.52E-26
ENSG00000253218	KLF3P1	28.22244715	1.895962191	3.56E-26
ENSG00000164221	CCDC112	162.4702102	-1.378840838	3.90E-26
ENSG00000135436	FAM186B	24.84058835	2.40677675	4.19E-26
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ENSG00000137710	RDX	1063.357799	1.095347129	7.39E-26
ENSG00000081026	MAGI3	178.7865304	0.900748132	8.14E-26
ENSG00000214193	SH3D21	784.9435925	2.241139479	8.28E-26
ENSG00000089159	PXN	5766.082313	-1.104294941	9.36E-26
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ENSG00000105509	HAS1	129.9278261	4.016780971	9.86E-26
ENSG00000100599	RIN3	4771.272561	-1.219042403	1.02E-25
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ENSG00000116478	HDAC1	2189.52717	-0.362399027	1.05E-25
ENSG00000241886		309.0035785	2.328318783	1.11E-25
ENSG00000035862	TIMP2	2188.406493	-1.579069902	1.13E-25
ENSG00000232759	STEAP1B-AS1	43.89690769	4.527974531	1.21E-25
ENSG00000230753	ZNF341-AS1	12.86280082	3.220319295	1.27E-25
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ENSG00000235027		43.22625202	2.908056304	1.68E-25
ENSG00000250510	GPR162	223.6230126	-2.660921358	1.68E-25
ENSG00000278970	HEIH	1334.291625	0.967308341	1.73E-25
ENSG00000101190	TCFL5	733.1804762	1.500695585	1.75E-25
ENSG00000119508	NR4A3	1381.828879	2.239808538	1.90E-25
ENSG00000185973	TMLHE	342.8433943	-1.056239129	2.03E-25
ENSG00000253556	MTCO1P4	17.83222951	4.482287851	2.03E-25
ENSG00000166912	MTMR10	2530.420091	-0.778533314	2.04E-25
ENSG00000133318	RTN3	2854.88912	-1.449572699	2.07E-25
ENSG00000152465	NMT2	732.4100711	-0.610677245	2.20E-25
ENSG00000156873	PHKG2	618.0790898	-0.788434387	2.36E-25
ENSG00000151893	CACUL1	2761.882672	-0.934523404	2.39E-25
ENSG00000106341	PPP1R17	89.13327297	3.4532906	2.53E-25
ENSG00000156384	SFR1	260.9947156	0.957265816	2.58E-25
ENSG00000123360	PDE1B	362.462429	-1.037121648	2.62E-25
ENSG00000108306	FBXL20	1708.587857	-0.938851759	2.68E-25
ENSG00000178038	ALS2CL	361.9384966	-1.307371564	2.69E-25
ENSG00000260339	HEXA-AS1	53.78756792	1.442552247	2.81E-25
ENSG00000139668	WDFY2	2100.731574	-1.003416028	2.85E-25
ENSG00000133985	TTC9	648.2270426	-0.763957974	3.00E-25
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ENSG00000261804		136.8817852	-1.735107803	3.29E-25
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ENSG00000152804	HHEX	431.1689826	-1.398222995	4.46E-25
ENSG00000100083	GGA1	3133.842326	0.692315716	4.61E-25
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ENSG00000054983	GALC	2073.943494	0.98131547	6.14E-25
ENSG00000225931		260.7075083	1.523094772	6.66E-25
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ENSG00000164181	ELOVL7	633.6376041	2.222321957	7.19E-25
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ENSG00000134108	ARL8B	2884.305937	1.13004432	2.34E-24
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ENSG00000130529	TRPM4	62.46990888	-2.560965349	8.02E-24
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ENSG00000278619	MRM1	244.1160695	0.8864716	8.80E-24
ENSG00000258860		17.79303142	3.519685089	9.42E-24
ENSG00000184716	SERINC4	13.23318234	2.374198216	1.02E-23
ENSG00000169902	TPST1	272.9214213	-1.559272964	1.04E-23
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ENSG00000263050	DPH1-AS1	43.24223685	2.552248157	1.24E-23
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ENSG00000103496	STX4	1972.501222	1.09069583	1.77E-23
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ENSG00000104613	INTS10	1571.22178	0.44203144	2.87E-23
ENSG00000260823		7.056078884	3.648688186	2.91E-23
ENSG00000133794	ARNTL	1962.446746	-0.582571831	3.05E-23
ENSG00000135250	SRPK2	1826.432774	-1.238210478	3.31E-23
ENSG00000136826	KLF4	685.5893584	-2.716610455	3.73E-23
ENSG00000138964	PARVG	5166.269684	-0.61760548	3.75E-23
ENSG00000197043	ANXA6	4211.07311	-1.23534406	3.75E-23
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ENSG00000138378	STAT4	3527.004388	0.891562621	3.85E-23
ENSG00000105516	DBP	671.1459936	-1.055050333	3.87E-23
ENSG00000169429	CXCL8	132801.8665	2.967387298	3.94E-23
ENSG00000107968	MAP3K8	4289.932823	1.312618673	3.97E-23
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ENSG00000102401	ARMCX3	959.8673439	0.773782275	4.14E-23
ENSG00000244486	SCARF2	81.86067904	-2.413493702	4.79E-23
ENSG00000224187	LINC01991	6.83483714	4.45960497	5.11E-23
ENSG00000115008	IL1A	8520.669834	7.033594833	5.22E-23
ENSG00000092847	AGO1	2516.78306	-0.645794183	5.75E-23
ENSG00000182224	CYB5D1	54.61709412	1.344473727	5.76E-23
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ENSG00000213366	GSTM2	293.974374	-1.192422818	5.99E-23
ENSG00000136305	CIDEB	602.0316494	-1.567695572	6.19E-23
ENSG00000178951	ZBTB7A	2750.273506	-0.53812945	6.92E-23
ENSG00000153201	RANBP2	7718.481232	1.103337877	6.95E-23
ENSG00000128011	LRFN1	332.7369871	-1.126544149	7.10E-23
ENSG00000198431	TXNRD1	3408.126926	1.442506336	7.11E-23
ENSG00000107897	ACBD5	900.6367435	-0.45720065	7.46E-23
ENSG00000100030	MAPK1	5039.077366	-0.66491651	8.14E-23
ENSG00000165671	NSD1	4639.036162	-0.604789978	8.19E-23
ENSG00000105928	GSDME	147.091174	2.418575737	8.41E-23
ENSG00000137161	CNPY3	2501.310199	-0.87367809	8.43E-23
ENSG00000076928	ARHGEF1	12592.40083	-0.56362758	8.45E-23
ENSG00000068028	RASSF1	1803.918724	-0.87779891	8.79E-23
ENSG00000110171	TRIM3	285.5687022	-0.801283323	9.32E-23
ENSG00000124762	CDKN1A	3697.719306	1.985325011	9.39E-23
ENSG00000123689	GOS2	7506.862781	2.088362821	9.89E-23
ENSG00000129933	MAU2	3264.614567	-0.443360475	1.04E-22
ENSG00000168995	SIGLEC7	378.8340419	-1.570246759	1.04E-22
ENSG00000188921	HACD4	1321.432408	-1.499276386	1.05E-22
ENSG00000117450	PRDX1	2396.776069	1.223997309	1.08E-22
ENSG00000167600	CYP2S1	118.4932974	-1.929239778	1.10E-22
ENSG00000254420		23.35342054	3.730575781	1.10E-22
ENSG00000281106	TMEM272	379.4911954	-1.606535131	1.13E-22
ENSG00000144040	SFXN5	608.5615866	-1.175941453	1.16E-22

ENSG00000124782	RREB1	3591.352086	-0.454968974	1.26E-22
ENSG00000183688	RFLNB	2018.955501	-1.322176263	1.27E-22
ENSG00000072121	ZFYVE26	3103.622617	0.884512697	1.52E-22
ENSG00000236213		618.1537904	2.094966755	1.52E-22
ENSG00000151726	ACSL1	20408.02708	1.812241351	1.56E-22
ENSG00000259319	JDP2-AS1	32.65776911	-1.980298748	1.58E-22
ENSG00000133246	PRAM1	1128.645708	-1.929083973	1.59E-22
ENSG00000120733	KDM3B	4042.484307	-0.565663529	1.79E-22
ENSG00000280135		416.8777099	-1.500648702	1.84E-22
ENSG00000280046		42.83076038	1.571784192	1.90E-22
ENSG00000262533		37.40075487	2.702908262	1.90E-22
ENSG00000064666	CNN2	6845.45153	-0.835993879	2.03E-22
ENSG00000143434	SEMA6C	108.4785167	-1.064009811	2.06E-22
ENSG00000136634	IL10	131.5736046	2.725270467	2.12E-22
ENSG00000184384	MAML2	3556.297245	0.991974394	2.27E-22
ENSG00000071553	ATP6AP1	2611.315261	0.931198191	2.30E-22
ENSG00000138411	HECW2	107.1190172	-1.991070133	2.42E-22
ENSG00000237398	HLA-DPA3	11.87029359	3.479547076	2.42E-22
ENSG00000178199	ZC3H12D	1832.767143	0.629368393	2.46E-22
ENSG00000153885	KCTD15	163.5122494	-1.004308693	2.63E-22
ENSG00000234219	CDCA4P4	113.1305774	-1.372265105	2.77E-22
ENSG00000130363	RSPH3	253.8430641	-0.963341487	2.88E-22
ENSG00000108179	PPIF	7551.336515	2.176126413	2.94E-22
ENSG00000142347	MYO1F	13757.11557	-1.257807431	3.03E-22
ENSG00000159403	C1R	43.85560788	-2.560320422	3.14E-22
ENSG00000215417	MIR17HG	362.4635648	0.965377778	3.25E-22
ENSG00000169180	XPO6	10871.37228	-1.267352133	3.35E-22
ENSG00000161642	ZNF385A	756.7454972	-2.527195051	3.39E-22
ENSG00000272325	NUDT3	1611.408101	-0.756592778	3.47E-22
ENSG00000142197	DOP1B	1168.518721	-0.912493832	3.48E-22
ENSG00000158863	FHIP2B	1262.935663	0.516178536	3.63E-22
ENSG00000139636	LMBR1L	1794.376178	-0.817300296	3.75E-22
ENSG00000165801	ARHGEF40	1088.036232	-2.154234571	3.82E-22
ENSG00000152413	HOMER1	205.0355974	1.21804234	3.87E-22
ENSG00000206562	METTL6	428.8008105	0.609278716	3.89E-22
ENSG00000238113	LINC01410	205.4498489	-2.091982277	4.03E-22
ENSG00000196329	GIMAP5	2114.968106	0.855852509	4.05E-22
ENSG00000103356	EARS2	328.5523724	0.667708099	4.06E-22
ENSG00000166261	ZNF202	541.0330316	0.757813219	4.13E-22
ENSG00000198719	DLL1	239.0513446	1.323534292	4.17E-22
ENSG00000242802	AP5Z1	2899.561344	0.79147547	4.18E-22
ENSG00000127585	FBXL16	203.7881791	-1.43342177	4.25E-22
ENSG00000104870	FCGRT	3092.994123	-1.931845597	4.26E-22
ENSG00000106608	URGCP	838.1753876	0.811001084	4.28E-22
ENSG00000088833	NSFL1C	1904.266089	-0.550972636	4.28E-22
ENSG00000167081	PBX3	545.4981636	-0.490860864	4.28E-22
ENSG00000143303	METTL25B	544.4294127	0.519261108	4.35E-22
ENSG00000120705	ETF1	3492.597829	0.711980246	4.42E-22
ENSG00000156831	NSMCE2	706.7492557	0.76100188	4.74E-22
ENSG00000205856	C22orf42	5.107696635	5.763444174	4.81E-22
ENSG00000121594	CD80	674.6612439	3.291039409	4.96E-22

ENSG00000159713	TPPP3	29.95495242	-4.473002852	5.28E-22
ENSG00000116729	WLS	308.153876	-2.97518951	5.32E-22
ENSG00000160285	LSS	1357.623317	1.173002749	5.43E-22
ENSG00000077420	APBB1IP	3143.079132	-0.866237966	5.46E-22
ENSG00000168906	MAT2A	3055.437929	0.673595682	5.91E-22
ENSG00000204131	NHSL2	2044.751331	-1.690038756	5.92E-22
ENSG00000253831	ETV3L	19.69125687	4.554663803	6.30E-22
ENSG00000152291	TGOLN2	9779.854576	-0.398060064	6.30E-22
ENSG00000169682	SPNS1	102.0865038	1.037466666	6.57E-22
ENSG00000047249	ATP6V1H	1133.744505	0.698678889	6.68E-22
ENSG00000126003	PLAGL2	2549.440536	1.469898508	6.98E-22
ENSG00000224821	COL4A2-AS2	20.86220995	3.734302256	7.43E-22
ENSG00000177663	IL17RA	5693.724057	-1.036280792	7.65E-22
ENSG00000132825	PPP1R3D	672.9777447	-0.724825756	7.65E-22
ENSG00000163464	CXCR1	2515.004884	-2.577182764	7.82E-22
ENSG00000180871	CXCR2	4259.629294	-2.762900097	8.05E-22
ENSG00000134333	LDHA	5265.907096	0.871541632	8.47E-22
ENSG00000255221	CARD17	160.2047165	2.342453018	8.58E-22
ENSG00000170142	UBE2E1	1580.572029	1.076936451	9.26E-22
ENSG00000100811	YY1	3031.940066	-0.396863684	1.00E-21
ENSG00000117335	CD46	6101.25097	-1.235450883	1.00E-21
ENSG00000106123	EPHB6	559.653656	-0.998526953	1.02E-21
ENSG00000196549	MME	1910.86785	-3.092724471	1.04E-21
ENSG00000187775	DNAH17	680.6774927	3.479147522	1.07E-21
ENSG00000270019		146.4918554	1.407685863	1.07E-21
ENSG00000136169	SETDB2	1466.403113	0.575444945	1.07E-21
ENSG00000263883	EEF1DP7	96.97487008	-1.345785676	1.08E-21
ENSG00000064763	FAR2	356.7329028	-1.789962129	1.09E-21
ENSG00000171643	S100Z	52.47052483	-2.73489539	1.13E-21
ENSG00000109062	SLC9A3R1	3265.762421	-0.982572031	1.15E-21
ENSG00000162694	EXTL2	126.851331	0.860429576	1.16E-21
ENSG00000107331	ABCA2	2328.92718	-1.138388249	1.16E-21
ENSG00000010610	CD4	2740.915154	-0.949882303	1.17E-21
ENSG00000136261	BZW2	637.3168678	0.757965883	1.20E-21
ENSG00000230943	LINC02541	44.01773796	3.027935647	1.22E-21
ENSG00000188786	MTF1	4117.238036	1.919989411	1.23E-21
ENSG00000135778	NTPCR	514.9991921	0.588466872	1.23E-21
ENSG00000134243	SORT1	757.7667485	-2.822843684	1.25E-21
ENSG00000182446	NPLOC4	3969.552168	0.566676407	1.28E-21
ENSG00000102794	ACOD1	322.850265	6.775837427	1.30E-21
ENSG00000147443	DOK2	1950.779678	-0.813500333	1.35E-21
ENSG00000228022	HCG20	51.62847145	2.716965811	1.36E-21
ENSG00000116954	RRAGC	699.2257809	1.067976964	1.37E-21
ENSG00000070371	CLTCL1	119.9796828	-1.923532933	1.41E-21
ENSG00000175215	CTDSP2	6076.174625	-0.501730395	1.44E-21
ENSG00000253214		240.1560778	2.484780418	1.51E-21
ENSG00000105499	PLA2G4C	285.725181	1.828514862	1.52E-21
ENSG00000242498	ARPIN	106.9793524	-3.395192577	1.56E-21
ENSG00000188167	TMPPE	552.0376642	-0.661769838	1.56E-21
ENSG00000115216	NRBP1	2133.169875	-0.528051327	1.60E-21
ENSG00000158062	UBXN11	1510.018841	-1.341795548	1.68E-21

ENSG00000121064	SCPEP1	866.3251793	-1.926150141	1.85E-21
ENSG00000167107	ACSF2	446.3538519	-0.831991146	1.93E-21
ENSG00000162783	IER5	5276.636881	1.486084606	1.93E-21
ENSG00000059145	UNKL	1736.445476	-0.838510214	1.93E-21
ENSG00000012822	CALCOCO1	2623.42418	-0.668917831	1.95E-21
ENSG00000197948	FCHSD1	1648.379655	-0.782361803	2.00E-21
ENSG00000126353	CCR7	12276.82004	1.2940981	2.02E-21
ENSG00000197818	SLC9A8	2984.107854	0.869831144	2.05E-21
ENSG00000213390	ARHGAP19	483.2796887	-0.979285158	2.11E-21
ENSG00000167508	MVD	1091.081194	0.700637453	2.20E-21
ENSG00000178146	GK4P	34.66429707	1.676284467	2.24E-21
ENSG00000101346	POFUT1	724.6189988	0.638104232	2.25E-21
ENSG00000213676	ATF6B	2222.362822	-0.413650635	2.30E-21
ENSG00000118985	ELL2	1995.577232	0.873986076	2.41E-21
ENSG00000132510	KDM6B	11963.22113	1.292366522	2.48E-21
ENSG00000197558	SSPOP	132.6297345	-1.73730647	2.48E-21
ENSG00000231890	DARS1-AS1	307.261665	1.334522403	2.52E-21
ENSG00000180448	ARHGAP45	16280.8314	-0.531611285	2.71E-21
ENSG00000198873	GRK5	1407.001321	0.566231203	2.79E-21
ENSG00000100300	TSPO	1401.751463	-1.267273684	2.80E-21
ENSG00000104825	NFKBIB	820.245047	0.744042257	2.86E-21
ENSG00000163389	POGLUT1	893.2794068	0.617069899	3.06E-21
ENSG00000198668	CALM1	7065.774936	-0.741786363	3.22E-21
ENSG00000163629	PTPN13	226.6939785	0.912583858	3.26E-21
ENSG00000175806	MSRA	289.9155835	-0.747820051	3.39E-21
ENSG00000019991	HGF	89.61133859	-2.376312285	3.55E-21
ENSG00000175727	MLXIP	3366.86343	-0.603281979	3.85E-21
ENSG00000166881	NEMP1	847.2210173	0.730422581	3.92E-21
ENSG00000130304	SLC27A1	383.38544	-1.712407759	3.92E-21
ENSG00000241319	SETP6	20.00163504	2.070423138	3.95E-21
ENSG00000140379	BCL2A1	6841.954965	1.569881995	4.00E-21
ENSG00000197208	SLC22A4	764.8109652	-1.258065376	4.02E-21
ENSG00000265975		315.1653848	1.928558724	4.10E-21
ENSG00000154099	DNAAF1	116.2473736	3.549544652	4.18E-21
ENSG00000100296	THOC5	1249.183016	-0.772797004	4.20E-21
ENSG00000141503	MINK1	2331.393657	-0.845241645	4.23E-21
ENSG00000135365	PHF21A	2950.561102	-0.790803942	4.55E-21
ENSG00000127220	ABHD8	329.8582857	-0.714415769	4.95E-21
ENSG00000129353	SLC44A2	4689.127305	-1.141098536	5.00E-21
ENSG00000138614	INTS14	544.6697277	0.54793313	5.03E-21
ENSG00000127663	KDM4B	3766.255163	-1.034261071	5.04E-21
ENSG00000253408	IKBKB-DT	35.33114784	2.016855836	5.14E-21
ENSG00000183160	TMEM119	60.44683245	-3.770304608	5.25E-21
ENSG00000065911	MTHFD2	1556.428015	1.089099891	5.48E-21
ENSG00000233834	MACC1-DT	52.48845598	2.987920787	5.55E-21
ENSG00000159556	ISL2	48.13838918	-2.794401039	5.62E-21
ENSG00000281358	RASSF1-AS1	47.77918178	-1.746043319	5.64E-21
ENSG00000160593	JAML	6203.100482	-1.713843835	5.69E-21
ENSG00000172508	CARNS1	215.5199792	-1.597124961	5.75E-21
ENSG00000197982	C1orf122	828.8099825	2.115590987	5.89E-21
ENSG00000133561	GIMAP6	4173.636815	0.610262236	5.94E-21

ENSG00000228340	MIR646HG	158.5306194	-1.582221529	6.27E-21
ENSG00000181790	ADGRB1	270.0650749	1.865811174	6.27E-21
ENSG00000109118	PHF12	4056.388866	-0.584646381	6.34E-21
ENSG00000104365	IKBKB	3559.863511	0.59924989	6.59E-21
ENSG00000143322	ABL2	1799.92695	0.990553667	6.66E-21
ENSG00000175895	PLEKHF2	1686.272839	0.917034232	7.09E-21
ENSG00000111647	UHRF1BP1L	1767.297814	-0.719788209	7.18E-21
ENSG00000164236	ANKRD33B	1168.08242	1.745437747	7.19E-21
ENSG00000126226	PCID2	1573.759612	0.869229229	7.20E-21
ENSG00000100024	UPB1	1222.368458	2.816552794	7.20E-21
ENSG00000155304	HSPA13	1323.638876	0.925057994	7.34E-21
ENSG00000137486	ARRB1	2820.456684	-1.007381749	7.95E-21
ENSG00000263335		308.289522	-0.995601035	7.97E-21
ENSG00000135766	EGLN1	1696.148894	-1.598225568	8.30E-21
ENSG00000173517	PEAK1	1342.362401	0.645036862	8.37E-21
ENSG00000059915	PSD	130.3471648	0.95382668	8.41E-21
ENSG00000166503	HDGFL3	323.8445228	1.050963847	8.67E-21
ENSG00000262370		258.4833648	-2.421902393	8.73E-21
ENSG00000118900	UBN1	2766.886563	-1.034396802	8.95E-21
ENSG00000112576	CCND3	4375.872951	-1.139350698	9.26E-21
ENSG00000262246	CORO7	1033.541042	-1.117996761	9.55E-21
ENSG00000160191	PDE9A	189.7096707	-0.942036397	9.55E-21
ENSG00000185591	SP1	4811.617261	-0.60760033	9.59E-21
ENSG00000125538	IL1B	41833.49737	4.272262909	9.77E-21
ENSG00000102921	N4BP1	7178.081539	1.498106249	9.94E-21
ENSG00000198408	OGA	10209.11125	-0.628491507	1.01E-20
ENSG00000119403	PHF19	1725.696251	0.627321437	1.04E-20
ENSG00000188895	MSL1	4605.619391	-0.979696315	1.04E-20
ENSG00000162777	DENND2D	6151.241885	0.882986032	1.14E-20
ENSG00000178860	MSC	443.7878118	3.020654507	1.17E-20
ENSG00000159314	ARHGAP27	5407.900117	-0.652150767	1.19E-20
ENSG00000138336	TET1	164.426061	-0.774771251	1.25E-20
ENSG00000065717	TLE2	199.6226483	-0.843073128	1.25E-20
ENSG00000125827	TMX4	2532.192692	-1.217255154	1.27E-20
ENSG00000141293	SKAP1	1042.868145	-1.280335525	1.27E-20
ENSG00000196663	TECPR2	2867.375117	1.277887863	1.33E-20
ENSG00000155849	ELMO1	3200.382664	-0.642380707	1.33E-20
ENSG00000124508	BTN2A2	1242.829329	1.079453641	1.38E-20
ENSG00000160145	KALRN	69.15526125	-1.335954487	1.39E-20
ENSG00000147548	NSD3	4750.104448	-0.514022419	1.43E-20
ENSG00000145632	PLK2	303.6731548	1.690138849	1.46E-20
ENSG00000171862	PTEN	8333.28244	-1.140837341	1.51E-20
ENSG00000204282		903.5954782	-0.74689908	1.55E-20
ENSG00000175294	CATSPER1	72.47485774	-1.410838555	1.61E-20
ENSG00000038427	VCAN	10596.3775	-2.132054094	1.61E-20
ENSG00000279227		60.93409123	1.630088894	1.63E-20
ENSG00000177483	RBM44	129.6877233	-2.327563231	1.64E-20
ENSG00000101849	TBL1X	2340.693973	-0.768386716	1.69E-20
ENSG00000232860	SMG7-AS1	36.69172953	1.731360721	1.69E-20
ENSG00000053254	FOXN3	3569.458532	-0.962706231	1.73E-20
ENSG00000135912	TTLL4	1378.599367	1.339754845	1.82E-20

ENSG00000204386	NEU1	1299.642297	0.964888162	1.82E-20
ENSG00000050344	NFE2L3	279.0328634	1.184775467	1.83E-20
ENSG00000183134	PTGDR2	154.8005022	-1.432520866	1.92E-20
ENSG00000254028		16.73693217	1.669940036	1.92E-20
ENSG00000187688	TRPV2	1469.838834	-0.526684222	1.96E-20
ENSG00000186081	KRT5	47.4149041	2.950335669	2.04E-20
ENSG00000008516	MMP25	4157.293302	-2.400105435	2.11E-20
ENSG00000261430		67.18447966	1.481095498	2.14E-20
ENSG00000179428	IL6-AS1	16.82277212	2.362129891	2.14E-20
ENSG00000128594	LRRC4	708.4176021	-2.092323084	2.15E-20
ENSG00000136854	STXBP1	181.2818781	-0.801891576	2.17E-20
ENSG00000070413	DGCR2	3302.226417	-0.823774521	2.21E-20
ENSG00000003402	CFLAR	23367.66895	0.758700576	2.21E-20
ENSG00000105967	TFEC	3864.853744	2.214150227	2.21E-20
ENSG00000218713		25.80860488	-3.089001156	2.22E-20
ENSG00000265688	MAFG-DT	12.08408256	2.549394802	2.31E-20
ENSG00000169299	PGM2	865.1493131	-0.721885509	2.32E-20
ENSG00000087842	PIR	19.67687796	2.729858956	2.36E-20
ENSG00000166401	SERPINB8	992.5137346	1.257004437	2.47E-20
ENSG00000119979	DENND10	765.1319257	-1.525329903	2.53E-20
ENSG00000099910	KLHL22	1030.216525	-0.438553668	2.53E-20
ENSG00000174885	NLRP6	936.3941181	-1.909052438	2.55E-20
ENSG00000197548	ATG7	4837.14676	1.745295162	2.63E-20
ENSG00000129071	MBD4	1632.116727	-0.527222438	2.63E-20
ENSG00000164691	TAGAP	7622.771171	1.110688146	2.65E-20
ENSG00000159788	RGS12	314.5915639	-1.303034174	2.66E-20
ENSG00000235831	BHLHE40-AS1	65.43732206	0.968472266	2.70E-20
ENSG00000187764	SEMA4D	11680.7912	-0.758904258	2.79E-20
ENSG00000267200	MIR132	10.87678441	3.07676394	2.83E-20
ENSG00000175544	CABP4	150.5330936	-2.547803497	2.84E-20
ENSG00000185920	PTCH1	586.1832044	-1.027585811	2.89E-20
ENSG00000214787	MS4A4E	43.7372955	-3.748847991	2.90E-20
ENSG00000183779	ZNF703	129.7114387	-2.914738458	2.94E-20
ENSG00000176390	CRLF3	2768.269096	-0.40424489	3.03E-20
ENSG00000070476	ZXDC	2545.235411	-0.483206038	3.10E-20
ENSG00000197142	ACSL5	3282.461523	1.68246857	3.14E-20
ENSG00000260452	TPRKBP2	93.40235627	-1.540233698	3.18E-20
ENSG00000173264	GPR137	448.33271	0.629835683	3.25E-20
ENSG00000076662	ICAM3	5076.896895	-1.131124847	3.36E-20
ENSG00000268575		383.2564683	-0.571664651	3.42E-20
ENSG00000115009	CCL20	2787.225066	5.968643757	3.51E-20
ENSG00000130958	SLC35D2	326.3158673	-0.716545235	3.60E-20
ENSG00000173120	KDM2A	7031.62913	-0.497691026	3.69E-20
ENSG00000110876	SELPLG	3890.103484	-1.122795038	3.74E-20
ENSG00000260121		77.8741735	0.853105894	3.75E-20
ENSG00000143514	TP53BP2	1638.160516	0.514654639	3.92E-20
ENSG00000011422	PLAUR	10277.31315	1.421175817	3.92E-20
ENSG00000231507	LINC01353	67.66930853	1.731849332	4.06E-20
ENSG00000180340	FZD2	52.4639723	-3.070265596	4.09E-20
ENSG00000105520	PLPPR2	927.3935007	-1.238062761	4.15E-20
ENSG00000196502	SULT1A1	608.9332678	-1.694731482	4.19E-20

ENSG00000169239	CA5B	518.8968921	-1.285636753	4.21E-20
ENSG00000163453	IGFBP7	116.928717	-1.879779229	4.54E-20
ENSG00000179409	GEMIN4	813.639428	0.662211412	4.56E-20
ENSG00000181481	RNF135	797.5781327	-0.977553982	4.77E-20
ENSG00000116299	ELAPOR1	499.7642709	-1.70462023	4.87E-20
ENSG00000136059	VILL	1273.400346	1.176298499	4.99E-20
ENSG00000204839	MROH6	175.0991176	-1.54971113	5.01E-20
ENSG00000117597	UTP25	814.3366701	0.538944375	5.01E-20
ENSG00000024048	UBR2	5129.666109	-0.815841075	5.07E-20
ENSG00000006756	ARSD	295.0260395	-1.209828466	5.07E-20
ENSG00000158545	ZC3H18	2111.342257	0.535808038	5.32E-20
ENSG00000265972	TXNIP	43439.76104	-1.287406425	5.55E-20
ENSG00000121316	PLBD1	763.973352	-3.114108032	5.65E-20
ENSG00000246082	NUDT16L2P	67.63302804	-2.088786917	5.70E-20
ENSG00000249437	NAIP	450.8245425	-1.935204303	5.70E-20
ENSG00000106077	ABHD11	203.2200051	-0.914502186	5.80E-20
ENSG00000131724	IL13RA1	2397.942878	-1.236511939	6.07E-20
ENSG00000188626	GOLGA8M	58.22287812	1.614633092	6.15E-20
ENSG00000258101		95.61584992	-2.82623024	6.27E-20
ENSG00000204681	GABBR1	834.1301134	-1.279969355	6.64E-20
ENSG00000171298	GAA	1566.480309	-1.648405429	6.68E-20
ENSG00000013563	DNASE1L1	643.199422	-0.636927875	6.77E-20
ENSG00000232783	FRG2FP	9.558932443	5.077789001	6.96E-20
ENSG00000069869	NEDD4	342.4528133	1.051444966	7.05E-20
ENSG00000179388	EGR3	2122.303655	1.906361697	7.07E-20
ENSG00000197880	MDS2	64.33001851	-1.450599232	7.23E-20
ENSG00000253540	FAM86HP	108.0472441	0.89827034	7.28E-20
ENSG00000158186	MRAS	543.9464267	1.956134619	7.34E-20
ENSG00000198915	RASGEF1A	98.21463548	-1.764228485	7.41E-20
ENSG00000189337	KAZN	48.02553159	-2.907479107	7.44E-20
ENSG00000082701	GSK3B	2196.031759	-0.540442076	7.46E-20
ENSG00000172932	ANKRD13D	4047.089304	-0.579727601	7.47E-20
ENSG00000148429	USP6NL	784.9361903	-0.596835957	7.71E-20
ENSG00000087903	RFX2	464.3949507	-1.537793078	7.89E-20
ENSG00000090382	LYZ	24163.2201	-2.244057832	7.93E-20
ENSG00000148700	ADD3	5487.898344	-0.898915748	8.02E-20
ENSG00000182389	CACNB4	91.37017433	-2.278681793	8.04E-20
ENSG00000140443	IGF1R	3577.777135	-0.938574105	8.11E-20
ENSG00000272084		148.4047626	0.764844011	8.24E-20
ENSG00000104093	DMXL2	14166.29327	1.968334909	8.24E-20
ENSG00000228037		54.38965951	1.394892142	8.33E-20
ENSG00000161955	TNFSF13	182.7934429	-1.479866528	8.45E-20
ENSG00000163492	CCDC141	397.3675822	-0.974226799	8.92E-20
ENSG00000079335	CDC14A	1824.404015	-0.547990203	9.19E-20
ENSG00000264112		693.8991051	-0.828966523	9.71E-20
ENSG00000236829		138.8907646	1.094123458	9.84E-20
ENSG00000140396	NCOA2	4044.811106	-0.767563748	9.90E-20
ENSG00000004864	SLC25A13	1128.61327	1.419718216	9.97E-20
ENSG00000111052	LIN7A	462.4237989	-2.544432597	9.98E-20
ENSG00000007129	CEACAM21	542.9049813	-0.549391682	1.02E-19
ENSG00000175662	TOM1L2	1430.327313	-0.51061745	1.08E-19

ENSG00000138135	CH25H	19.12313341	3.943667153	1.12E-19
ENSG00000062194	GPBP1	5168.164723	0.613838321	1.15E-19
ENSG00000079459	FDFT1	1970.71646	-0.465280396	1.22E-19
ENSG00000110002	VWA5A	301.9122518	0.76518663	1.24E-19
ENSG00000134324	LPIN1	2512.961873	0.596097301	1.26E-19
ENSG00000105559	PLEKHA4	48.61693251	1.016915407	1.29E-19
ENSG00000146083	RNF44	3136.276908	-0.771376023	1.30E-19
ENSG00000205502	C2CD4B	51.66918603	3.97618211	1.32E-19
ENSG00000104833	TUBB4A	39.62798835	-1.536553964	1.33E-19
ENSG00000155254	MARVELD1	117.5392606	-2.052936054	1.37E-19
ENSG00000158050	DUSP2	3799.434614	1.085503946	1.45E-19
ENSG00000258082		519.5449408	1.86730211	1.46E-19
ENSG00000111269	CREBL2	1738.64675	0.601054102	1.49E-19
ENSG00000250274		568.1382558	3.627287998	1.52E-19
ENSG00000074370	ATP2A3	8967.055478	-0.523778151	1.55E-19
ENSG00000171453	POLR1C	414.9438357	0.921935617	1.55E-19
ENSG00000236056	GAPDHP14	35.81154553	1.819003301	1.55E-19
ENSG00000008294	SPAG9	6799.328243	1.05272361	1.59E-19
ENSG00000139890	REM2	319.1712753	-1.925682817	1.59E-19
ENSG00000203747	FCGR3A	4161.926803	-1.455799283	1.62E-19
ENSG00000185261	KIAA0825	308.0724413	-1.265414596	1.64E-19
ENSG00000184863	RBM33	5552.616605	-0.456155893	1.65E-19
ENSG00000103510	KAT8	1191.341521	-0.546796617	1.66E-19
ENSG00000124181	PLCG1	3026.885875	-0.799938207	1.72E-19
ENSG00000205622		16.03307818	2.811602081	1.77E-19
ENSG00000182923	CEP63	1335.758551	-0.882415561	1.79E-19
ENSG00000266389	PIK3R5-DT	216.3640491	1.636267301	1.79E-19
ENSG00000269385		31.9313908	2.553701071	1.79E-19
ENSG00000149634	SPATA25	67.60213156	1.158724836	1.89E-19
ENSG00000176659	LINC02910	76.95366578	-1.79333233	1.90E-19
ENSG00000145907	G3BP1	4444.310986	0.518976676	1.98E-19
ENSG00000014216	CAPN1	2242.16956	-0.919748848	2.00E-19
ENSG00000105705	SUGP1	916.8618768	-0.355603783	2.03E-19
ENSG00000144597	EAF1	1740.443609	0.801968982	2.07E-19
ENSG00000251161		55.60616814	1.620031205	2.23E-19
ENSG00000204219	TCEA3	191.7773231	-1.236632349	2.24E-19
ENSG00000178726	THBD	1376.907688	-2.271684813	2.26E-19
ENSG00000166523	CLEC4E	4159.140217	1.889973854	2.33E-19
ENSG00000150593	PDCD4	7079.286054	0.817265864	2.39E-19
ENSG00000134802	SLC43A3	2201.226597	2.637187262	2.45E-19
ENSG00000152056	AP1S3	179.5163744	1.239174743	2.50E-19
ENSG00000111275	ALDH2	546.0932582	-1.944401754	2.54E-19
ENSG00000138449	SLC40A1	1089.092922	-1.427173402	2.54E-19
ENSG00000148926	ADM	1914.695392	1.511906773	2.68E-19
ENSG00000104960	PTOV1	1252.560239	-0.698675726	2.71E-19
ENSG00000172531	PPP1CA	3200.290536	-0.452927592	2.78E-19
ENSG00000116679	IVNS1ABP	16519.32079	1.581118423	2.83E-19
ENSG00000273253	TRABD-AS1	228.9081203	-1.131068456	2.84E-19
ENSG00000177731	FLII	4161.173673	-0.522935868	2.85E-19
ENSG00000155096	AZIN1	4536.983379	1.11370464	2.86E-19
ENSG00000273654		40.1244171	1.862163605	2.86E-19

ENSG00000110931	CAMKK2	5771.102418	1.559053676	2.90E-19
ENSG00000147813	NAPRT	936.4486136	-0.897010674	2.90E-19
ENSG00000028137	TNFRSF1B	21565.22313	1.005762866	2.90E-19
ENSG00000118263	KLF7	2205.122834	-1.035541762	2.92E-19
ENSG00000126247	CAPNS1	2039.236822	-0.771869713	2.94E-19
ENSG00000189362	NEMP2	540.9636397	0.524826613	3.06E-19
ENSG00000180767	CHST13	56.700993	-3.607037876	3.12E-19
ENSG00000120217	CD274	2369.613903	2.4786788	3.17E-19
ENSG00000142046	TMEM91	312.3793851	-1.18974302	3.17E-19
ENSG00000109066	TMEM104	620.2106981	-0.942254587	3.33E-19
ENSG00000106868	SUSD1	730.3853694	-0.731288411	3.34E-19
ENSG00000125970	RALY	3721.87464	-0.65189443	3.37E-19
ENSG00000143013	LMO4	624.730702	-0.565382262	3.62E-19
ENSG00000141101	NOB1	669.4891566	0.564103368	3.68E-19
ENSG00000230751		69.39860478	-1.25611378	3.69E-19
ENSG00000166130	IKBIP	370.5757181	-1.151659431	3.99E-19
ENSG00000139842	CUL4A	2566.343307	0.458411547	4.04E-19
ENSG00000197063	MAFG	1854.88509	1.497495844	4.04E-19
ENSG00000135083	CCNJL	368.338859	-3.136197684	4.06E-19
ENSG00000093072	ADA2	2992.794383	-1.246767245	4.08E-19
ENSG00000214407	LINC02085	22.22746534	2.319041501	4.16E-19
ENSG00000181467	RAP2B	3061.246661	-0.528301095	4.16E-19
ENSG00000270062		89.13176525	-1.321956596	4.29E-19
ENSG00000123191	ATP7B	71.87998859	-1.66695137	4.29E-19
ENSG00000160214	RRP1	643.0162492	1.067413005	4.32E-19
ENSG00000129757	CDKN1C	176.4236037	-2.913166081	4.47E-19
ENSG00000165548	TMEM63C	61.20860797	-2.326040854	4.48E-19
ENSG00000168010	ATG16L2	8240.796502	-1.331095192	4.54E-19
ENSG00000159063	ALG8	368.6026605	0.560025003	4.60E-19
ENSG00000272555		41.34497652	2.394722614	4.72E-19
ENSG00000064989	CALCRL	180.2175214	1.922620541	4.93E-19
ENSG00000250138		242.1092263	-3.148377275	5.03E-19
ENSG00000138942	RNF185	1114.143195	0.837709798	5.05E-19
ENSG00000239697	TNFSF12	262.368944	-1.30690289	5.15E-19
ENSG00000198585	NUDT16	562.2692369	-1.761077373	5.19E-19
ENSG00000174004	NRROS	719.760028	-0.745827249	5.26E-19
ENSG00000130517	PGPEP1	1255.362248	-0.933779186	5.45E-19
ENSG00000138814	PPP3CA	1922.764435	-0.795848856	5.47E-19
ENSG00000002933	TMEM176A	219.7079974	-3.022013019	5.65E-19
ENSG00000162433	AK4	537.0417052	3.954701991	5.71E-19
ENSG00000121749	TBC1D15	2776.687468	0.648076433	5.77E-19
ENSG00000187091	PLCD1	583.4933963	-0.780915289	5.77E-19
ENSG00000185963	BICD2	2234.318652	-0.492489485	5.92E-19
ENSG00000121691	CAT	1814.906015	-1.676238758	5.96E-19
ENSG00000013619	MAMLD1	243.6663274	1.557066062	6.16E-19
ENSG00000106266	SNX8	823.8398918	1.436149321	6.28E-19
ENSG00000238160	LINC02863	283.2457778	-1.64576015	6.33E-19
ENSG00000100644	HIF1A	16263.08315	1.001262992	6.37E-19
ENSG00000177150	FAM210A	355.646483	0.901873026	6.40E-19
ENSG00000189319	FAM53B	3428.93676	-0.694475665	6.40E-19
ENSG00000258499	LINC02287	14.37333347	-4.780025374	6.42E-19

ENSG00000166313	APBB1	1321.58878	-0.627710118	6.66E-19
ENSG00000180357	ZNF609	2285.39868	-0.594635227	6.75E-19
ENSG00000124391	IL17C	32.56094535	1.989250814	6.88E-19
ENSG00000227502	MROCKI	356.71734	4.834205814	6.88E-19
ENSG00000224745		242.6159387	-1.480602122	6.90E-19
ENSG00000116786	PLEKHM2	3884.270764	0.649801797	7.07E-19
ENSG00000120071	KANSL1	6905.362061	-0.395210944	7.09E-19
ENSG00000092964	DPYSL2	1083.470363	-1.652522074	7.21E-19
ENSG00000026297	RNASET2	3933.919232	-1.076401733	7.37E-19
ENSG00000111490	TBC1D30	403.4960834	1.933398837	7.49E-19
ENSG00000185033	SEMA4B	1657.514861	-0.883399392	7.68E-19
ENSG00000180694	TMEM64	524.1534718	0.58143767	7.88E-19
ENSG00000159055	MIS18A	116.3436422	0.731896858	7.91E-19
ENSG00000277767		75.4977024	0.951792835	8.02E-19
ENSG00000207308	RNU6-878P	18.71042668	-3.763060128	8.04E-19
ENSG00000269220	LINC00528	1185.685483	1.19754407	8.10E-19
ENSG00000100079	LGALS2	118.6049706	-4.459977066	8.21E-19
ENSG00000137513	NARS2	359.2969783	0.668885154	8.43E-19
ENSG00000091262	ABCC6	45.21971496	-3.341233101	8.54E-19
ENSG00000116574	RHOU	748.9938271	1.378849281	8.71E-19
ENSG00000175471	MCTP1	3525.474907	1.894947372	8.90E-19
ENSG00000130402	ACTN4	4612.715646	-0.611508652	9.08E-19
ENSG00000032219	ARID4A	2519.822447	-0.699175813	9.10E-19
ENSG00000150977	RILPL2	2236.797562	1.446761197	9.77E-19
ENSG00000131873	CHSY1	1571.970794	-0.90084667	1.01E-18
ENSG00000023445	BIRC3	10788.69809	1.214069052	1.01E-18
ENSG00000223662	SAMSN1-AS1	13.91456556	2.242549927	1.05E-18
ENSG00000124104	SNX21	101.0712887	-1.778608822	1.05E-18
ENSG00000169991	IFFO2	674.483311	-0.708052107	1.07E-18
ENSG00000132749	TESMIN	114.5815067	-1.05597213	1.10E-18
ENSG00000131844	MCCC2	715.7704361	0.417740955	1.14E-18
ENSG00000177125	ZBTB34	1777.63523	-0.850506105	1.14E-18
ENSG00000116793	PHTF1	577.2314302	-0.745391142	1.14E-18
ENSG00000143387	CTSK	191.4323221	-1.391950083	1.18E-18
ENSG00000245281	ASAH1-AS1	25.04476524	1.626452829	1.32E-18
ENSG00000076067	RBMS2	247.2664027	-1.110610732	1.34E-18
ENSG00000214894	LINC00243	568.2295435	1.201226705	1.34E-18
ENSG00000220205	VAMP2	1589.539923	-0.820732544	1.37E-18
ENSG00000080815	PSEN1	3749.77875	0.931447958	1.41E-18
ENSG00000282980		109.4233513	-0.994176705	1.44E-18
ENSG00000117016	RIMS3	135.1523515	-1.362133203	1.49E-18
ENSG00000128311	TST	117.6906478	-2.096179583	1.50E-18
ENSG00000251669	FAM86EP	100.2974007	0.969321399	1.50E-18
ENSG00000160654	CD3G	2221.784913	-0.518649814	1.51E-18
ENSG00000183826	BTBD9	1264.45748	-0.42069152	1.54E-18
ENSG00000167861	HID1	99.72393353	-1.127303186	1.54E-18
ENSG00000006007	GDE1	1134.693451	-0.896468331	1.57E-18
ENSG00000197956	S100A6	4058.211237	-1.14227064	1.59E-18
ENSG00000124942	AHNAK	29473.68583	-1.346927964	1.59E-18
ENSG00000134697	GNL2	879.0453093	0.617620071	1.59E-18
ENSG00000159433	STARD9	603.6617302	-0.79380264	1.61E-18

ENSG00000065882	TBC1D1	3289.617155	-0.515359796	1.63E-18
ENSG00000102967	DHODH	203.4440337	0.713854264	1.65E-18
ENSG00000103269	RHBDL1	34.34952129	-2.079248565	1.67E-18
ENSG00000248936		25.81851807	-2.323528705	1.76E-18
ENSG00000165424	ZCCHC24	162.8192246	-1.125212632	1.77E-18
ENSG00000073737	DHRS9	575.8860451	-2.120087617	1.81E-18
ENSG00000047579	DTNBP1	857.2735215	0.681076529	1.83E-18
ENSG00000072864	NDE1	3061.989376	-0.5623614	1.84E-18
ENSG00000196369	SRGAP2B	367.2994042	-1.050791138	1.88E-18
ENSG00000101187	SLCO4A1	907.5002314	3.380302379	1.94E-18
ENSG00000082074	FYB1	15268.50254	-0.81302124	1.99E-18
ENSG00000272028	RNU6-87P	18.10603549	2.18985482	2.05E-18
ENSG00000145569	OTULINL	997.3132851	-0.638214999	2.16E-18
ENSG00000242861		171.1780615	-1.153581885	2.20E-18
ENSG00000144579	CTDSP1	4383.226847	-0.514573065	2.21E-18
ENSG00000171100	MTM1	595.4215845	-0.797907155	2.22E-18
ENSG00000100354	TNRC6B	8948.713403	-0.55745931	2.22E-18
ENSG00000105707	HPN	127.6831535	3.883240305	2.36E-18
ENSG00000196118	CFAP119	108.2589929	-1.323832069	2.41E-18
ENSG00000260350		46.51701514	-1.209764353	2.43E-18
ENSG00000167434	CA4	278.791254	-3.056987356	2.46E-18
ENSG00000143612	C1orf43	2695.818076	0.742219334	2.46E-18
ENSG00000151502	VPS26B	1386.944464	-0.551929935	2.55E-18
ENSG00000153786	ZDHHC7	2077.209133	-0.442377821	2.59E-18
ENSG00000204960	BLACE	5.566936131	4.317206652	2.60E-18
ENSG00000105063	PPP6R1	4468.55546	-0.504666683	2.61E-18
ENSG00000240457	RN7SL472P	12.92620126	1.822583556	2.62E-18
ENSG00000204304	PBX2	3214.697533	-0.685674829	2.63E-18
ENSG00000111452	ADGRD1	48.70500626	-3.134881623	2.63E-18
ENSG00000138166	DUSP5	1731.170284	1.242240488	2.63E-18
ENSG00000146373	RNF217	187.4976942	-1.468215439	2.63E-18
ENSG00000140650	PMM2	683.4666045	0.564028745	2.69E-18
ENSG00000111913	RIPOR2	14166.25892	-1.057910444	2.76E-18
ENSG00000143641	GALNT2	1390.816926	-0.410727301	2.78E-18
ENSG00000272501		772.3751462	-1.015910835	2.90E-18
ENSG00000130475	FCHO1	1420.961008	-0.68839164	2.98E-18
ENSG00000264911		16.33686791	1.664745852	2.99E-18
ENSG00000117625	RCOR3	1719.95676	-0.490473977	3.03E-18
ENSG00000251648		11.14095414	2.443651295	3.09E-18
ENSG00000137509	PRCP	1282.428345	-0.853195173	3.11E-18
ENSG00000124215	CDH26	127.6643742	-1.046357304	3.12E-18
ENSG00000074696	HACD3	592.355351	0.474086994	3.36E-18
ENSG00000130270	ATP8B3	75.21199346	-2.291546513	3.39E-18
ENSG00000101347	SAMHD1	7288.338018	-0.997110228	3.39E-18
ENSG00000138185	ENTPD1	1287.763465	-1.588135947	3.48E-18
ENSG00000123728	RAP2C	3195.076512	0.867243793	3.49E-18
ENSG00000273004		158.2256206	1.70458196	3.55E-18
ENSG00000121931	LRIF1	795.7874647	0.873949349	3.58E-18
ENSG00000241852	C8orf58	162.880149	-0.937816434	3.62E-18
ENSG00000162378	ZYG11B	987.9665738	-0.859086504	3.62E-18
ENSG00000220412		34.72496943	2.678530959	3.66E-18

ENSG00000279741		51.74508883	-1.641342984	3.72E-18
ENSG00000269713	NBPF9	754.1143185	0.631514998	3.91E-18
ENSG00000196227	FAM217B	784.1123353	-0.526730464	4.15E-18
ENSG00000276494		23.01850122	-1.786331491	4.30E-18
ENSG00000231259	ANAPC1P2	463.7494116	-0.613412795	4.33E-18
ENSG00000171658	NMRAL2P	33.98178214	3.552907947	4.59E-18
ENSG00000139193	CD27	704.2636167	-0.651761077	4.84E-18
ENSG00000105352	CEACAM4	552.3898155	-2.317596008	4.86E-18
ENSG00000115808	STRN	1457.942771	-0.545007895	4.88E-18
ENSG00000185304	RGPD2	265.3546387	1.222165152	4.91E-18
ENSG00000253586		98.20698482	-1.129434838	4.97E-18
ENSG00000119471	HSDL2	818.0244243	-1.590035018	5.01E-18
ENSG00000120437	ACAT2	514.7674556	0.744971537	5.03E-18
ENSG00000100031	GGT1	586.8599583	0.861451838	5.08E-18
ENSG00000179144	GIMAP7	2573.474171	1.205456449	5.26E-18
ENSG00000160211	G6PD	1584.302108	-0.883890572	5.28E-18
ENSG00000153485	TMEM251	244.0077341	1.152621089	5.32E-18
ENSG00000261218		75.26781814	-1.365430039	5.32E-18
ENSG00000069956	MAPK6	2025.870163	1.356471485	5.33E-18
ENSG00000215440	NPEPL1	501.2341835	-1.406523452	5.43E-18
ENSG00000079999	KEAP1	988.093615	0.748398569	5.52E-18
ENSG00000147650	LRP12	310.7740556	1.445570229	5.58E-18
ENSG00000188641	DPYD	3024.979941	-0.997606862	5.59E-18
ENSG00000241527	CA15P1	217.933268	-1.357896252	5.60E-18
ENSG00000245261		164.7095649	1.32213883	5.75E-18
ENSG00000076555	ACACB	746.6877454	-0.727764141	5.84E-18
ENSG00000168884	TNIP2	2039.584372	0.70980711	6.05E-18
ENSG00000116685	KIAA2013	1472.570306	-0.522372704	6.14E-18
ENSG00000129467	ADCY4	291.0345927	-0.956599354	6.17E-18
ENSG00000142235	LMTK3	327.8826862	-0.615508441	6.28E-18
ENSG00000140950	MEAK7	328.1478861	-1.002130491	6.29E-18
ENSG00000255163	HSPE1P18	123.7367548	-1.708982144	6.32E-18
ENSG00000120594	PLXDC2	2099.869869	-1.44981013	6.43E-18
ENSG00000272462	LINC02980	164.5942067	-0.78139743	6.45E-18
ENSG00000139178	C1RL	1170.99643	-1.084107632	6.62E-18
ENSG00000198604	BAZ1A	6883.826933	0.950332944	6.72E-18
ENSG00000130939	UBE4B	1852.598746	-0.456627982	6.82E-18
ENSG00000261024		8.675027888	3.558204605	6.82E-18
ENSG00000140948	ZCCHC14	1366.045061	0.947930398	7.11E-18
ENSG00000162139	NEU3	938.9619074	0.524736748	7.13E-18
ENSG00000123636	BAZ2B	3277.508075	-1.059403878	7.20E-18
ENSG00000164300	SERINC5	4254.072072	-0.561235139	7.63E-18
ENSG00000163435	ELF3	38.97700212	-1.558700132	7.65E-18
ENSG00000167046		77.94310562	1.265076578	7.69E-18
ENSG00000261693		45.86507921	1.307800347	7.79E-18
ENSG00000104320	NBN	10035.25835	2.03076044	7.88E-18
ENSG00000077454	LRCH4	1535.842268	-0.811046813	8.29E-18
ENSG00000125912	NCLN	1583.768122	-0.516784549	8.30E-18
ENSG00000133816	MICAL2	3571.810496	-1.198906329	8.38E-18
ENSG00000131584	ACAP3	906.7700436	-1.017856922	8.81E-18
ENSG00000070882	OSBPL3	818.8312288	-0.665794735	8.88E-18

ENSG00000181826	RELL1	788.3524701	-1.180414376	8.91E-18
ENSG00000242094	FOXP1-IT1	199.6836234	-0.84000097	8.93E-18
ENSG00000268658	LINC00664	176.088423	2.314070715	9.12E-18
ENSG00000107036	RIC1	2042.161159	-0.480742866	9.16E-18
ENSG00000151327	FAM177A1	810.7756567	0.796331571	9.31E-18
ENSG00000198535	C2CD4A	40.09633949	3.938810121	9.37E-18
ENSG00000149483	TMEM138	1088.597716	0.451724197	9.37E-18
ENSG00000263874	LINC00672	213.8538917	-1.159709209	9.39E-18
ENSG00000179542	SLITRK4	30.55962177	-3.142160631	9.74E-18
ENSG00000138439	FAM117B	997.5804765	-0.965325946	9.79E-18
ENSG00000132017	DCAF15	1151.087329	-0.642122323	9.89E-18
ENSG00000012232	EXTL3	1425.758741	-0.769313565	1.01E-17
ENSG00000213373	LINC00671	28.19148161	-3.017491349	1.05E-17
ENSG00000141086	CTRL	36.03406393	-1.845194173	1.07E-17
ENSG00000170509	HSD17B13	31.42866285	-1.695759139	1.08E-17
ENSG00000225697	SLC26A6	496.4915617	-0.619905338	1.08E-17
ENSG00000103160	HSDL1	552.0430104	0.518596806	1.09E-17
ENSG00000256442		9.950960488	2.225436918	1.10E-17
ENSG00000247595	SPTY2D1OS	40.49714199	2.02922113	1.10E-17
ENSG00000282386		23.07747025	1.44286069	1.13E-17
ENSG00000196668	LINC00173	110.2686173	-2.050141055	1.13E-17
ENSG00000171115	GIMAP8	1225.430527	0.66871318	1.13E-17
ENSG00000274272		366.902533	-1.060554894	1.13E-17
ENSG00000100218	RSPH14	10.71525366	-3.323058547	1.15E-17
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ENSG00000171451	DSEL	82.06779956	-1.922727662	1.17E-17
ENSG00000144635	DYNC1LI1	1276.57071	-0.57348028	1.17E-17
ENSG00000215458	AATBC	181.9628848	-2.151542651	1.18E-17
ENSG00000175354	PTPN2	1774.011047	0.396720093	1.19E-17
ENSG00000174791	RIN1	142.587788	-1.774186972	1.19E-17
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ENSG00000188282	RUFY4	44.22345502	-2.991663281	1.22E-17
ENSG00000134830	C5AR2	1198.036208	-1.45003502	1.22E-17
ENSG00000234066	TAS2R62P	18.04651616	-2.02264981	1.22E-17
ENSG00000106333	PCOLCE	57.60361322	-1.322637605	1.22E-17
ENSG00000108799	EZH1	3026.513192	-0.48873967	1.25E-17
ENSG00000163412	EIF4E3	2392.286722	-1.162342799	1.27E-17
ENSG00000162772	ATF3	803.4567332	2.019392753	1.27E-17
ENSG00000237181	PRKAR1B-AS1	186.3836864	0.983519043	1.30E-17
ENSG00000183091	NEB	157.6234654	-1.616076646	1.34E-17
ENSG00000010295	IFFO1	1397.259872	-0.650534622	1.36E-17
ENSG00000276083	MIR7976	13.9623559	1.737433492	1.38E-17
ENSG00000131381	RBSN	1272.622397	-0.481200307	1.39E-17
ENSG00000140406	TLNRD1	1838.412137	0.854106171	1.41E-17
ENSG00000243398	RN7SL141P	138.4357565	1.395800359	1.45E-17
ENSG00000133466	C1QTNF6	1179.314115	0.937817279	1.45E-17
ENSG00000130766	SESN2	830.8810251	-1.502516486	1.49E-17
ENSG00000100092	SH3BP1	2588.561761	-0.542583193	1.50E-17
ENSG00000083290	ULK2	504.9775057	-1.071301118	1.52E-17
ENSG00000185189	NRBP2	271.0202208	-1.281094808	1.56E-17
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ENSG00000090006	LTBP4	933.1408614	-1.147083938	1.63E-17
ENSG00000105655	ISYNA1	335.0067397	-1.464366196	1.64E-17
ENSG00000106853	PTGR1	40.75640052	1.692847146	1.66E-17
ENSG00000170345	FOS	8866.735402	-1.85312777	1.69E-17
ENSG00000175387	SMAD2	4636.549748	-0.287662183	1.71E-17
ENSG00000134755	DSC2	375.0141008	-2.469732059	1.72E-17
ENSG00000226479	TMEM185B	740.819882	0.91624373	1.72E-17
ENSG00000187266	EPOR	248.1565779	-0.964021993	1.74E-17
ENSG00000137574	TGS1	929.905528	0.418847225	1.74E-17
ENSG00000166579	NDEL1	4057.112712	-0.902451822	1.80E-17
ENSG00000101986	ABCD1	704.9246158	-0.90796499	1.83E-17
ENSG00000121297	TSHZ3	243.7558222	-1.334542629	1.84E-17
ENSG00000010327	STAB1	4265.051504	-1.956037211	1.91E-17
ENSG00000213600		290.152884	-0.995197921	1.92E-17
ENSG00000134982	APC	2427.123279	-0.480975816	1.97E-17
ENSG00000170266	GLB1	936.4528098	-0.585205715	2.02E-17
ENSG00000108448	TRIM16L	63.1599252	0.924760931	2.03E-17
ENSG00000186431	FCAR	2959.351291	1.522790464	2.03E-17
ENSG00000138175	ARL3	208.2690681	-0.889812952	2.08E-17
ENSG00000225643		50.1313317	-1.806352867	2.08E-17
ENSG00000116883		46.58490179	1.593339183	2.14E-17
ENSG00000087995	METTL2A	277.674945	0.494725837	2.30E-17
ENSG00000256751	PLBD1-AS1	26.32055911	-2.927529411	2.30E-17
ENSG00000215022		367.7507712	1.168080623	2.30E-17
ENSG00000221949	LINC01465	105.2747642	1.501540089	2.30E-17
ENSG00000267270	PARD6G-AS1	82.5556417	1.231628661	2.38E-17
ENSG00000276105		20.70073358	-1.978542923	2.48E-17
ENSG00000020129	NCDN	880.2688609	0.815443978	2.52E-17
ENSG00000136891	TEX10	796.1243739	0.62709116	2.54E-17
ENSG00000136504	KAT7	3490.271419	-0.778248818	2.60E-17
ENSG00000197579	TOPORS	1157.015669	-0.676759911	2.63E-17
ENSG00000158825	CDA	381.0768772	-2.215298337	2.75E-17
ENSG00000229056	HECW2-AS1	81.79517667	1.103922039	2.79E-17
ENSG00000174132	FAM174A	182.7633065	-1.10575978	2.83E-17
ENSG00000162430	SELENON	789.4902398	-0.713876285	2.83E-17
ENSG00000150054	MPP7	1261.207485	-0.595566765	2.98E-17
ENSG00000075651	PLD1	707.0417995	1.404244065	2.98E-17
ENSG00000100417	PMM1	301.4794994	-1.160717087	3.00E-17
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ENSG00000229299	ZBTB46-AS2	45.30285577	-1.561952461	3.33E-17
ENSG00000232814	COL4A2-AS1	21.49781621	2.727839228	3.40E-17
ENSG00000213203	GIMAP1	1757.870679	0.527479425	3.42E-17
ENSG00000247596	TWF2	1561.280583	-0.723980417	3.42E-17
ENSG00000131100	ATP6V1E1	2176.28893	0.719430384	3.50E-17

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ENSG00000120896	SORBS3	615.0109666	-0.692076148	3.56E-17
ENSG00000120868	APAF1	2517.19082	-0.841417648	3.58E-17
ENSG00000107341	UBE2R2	2352.834207	-0.621036403	3.58E-17
ENSG00000087338	GMCL1	902.4844654	-0.718733933	3.58E-17
ENSG00000157445	CACNA2D3	18.81820234	-5.79817089	3.67E-17
ENSG00000165355	FBXO33	1306.112219	-1.198154036	3.71E-17
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ENSG00000006327	TNFRSF12A	183.3259702	-1.505773605	3.71E-17
ENSG00000092931	MFSD11	890.6538659	0.555223553	3.77E-17
ENSG00000253320	MAILR	134.8589338	0.813275991	3.98E-17
ENSG00000260822		603.782597	-0.750955734	4.05E-17
ENSG00000123143	PKN1	4509.170029	-0.747865202	4.07E-17
ENSG00000092439	TRPM7	4203.3176	0.563756261	4.13E-17
ENSG00000153207	AHCTF1	3485.678707	-0.613393105	4.13E-17
ENSG00000153291	SLC25A27	61.70042042	1.987525399	4.30E-17
ENSG00000090863	GLG1	4329.151223	-0.530404389	4.45E-17
ENSG00000175224	ATG13	2019.484298	-0.452186847	4.80E-17
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ENSG00000128059	PPAT	251.9858096	0.580007727	5.20E-17
ENSG00000245164	LINC00861	4562.138242	0.871414383	5.23E-17
ENSG00000134758	RNF138	1587.122075	-0.653596377	5.23E-17
ENSG00000164620	RELL2	449.5291035	-0.797980072	5.33E-17
ENSG00000171596	NMUR1	238.8994095	-1.859158047	5.33E-17
ENSG00000104856	RELB	2452.42882	1.031133365	5.34E-17
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ENSG00000101310	SEC23B	1639.552205	0.557924698	5.96E-17
ENSG00000135763	URB2	500.7830255	0.872040384	6.00E-17
ENSG00000246016	LINC01513	14.0038927	-2.956552763	6.19E-17
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ENSG00000241939	RN7SL517P	161.7448505	-0.977667465	6.36E-17
ENSG00000241484	ARHGAP8	25.4745344	-4.257792034	6.37E-17
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ENSG00000224195	CAMK2G-AS1	11.4884972	2.041516559	6.60E-17
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ENSG00000183723	CMTM4	153.4156464	-0.942623762	6.74E-17
ENSG00000261222		56.49456968	-3.124669102	6.74E-17
ENSG00000226233		21.23369519	1.595726631	6.82E-17
ENSG00000276015		28.91387202	-1.764487883	6.87E-17
ENSG00000196387	ZNF140	570.3082758	0.729166023	6.88E-17
ENSG00000243660	ZNF487	175.0661003	-1.282932853	6.92E-17
ENSG00000260233	ZNRD2-DT	191.7880931	0.751935856	7.31E-17
ENSG00000168546	GFRA2	22.34903793	-2.270362468	7.55E-17
ENSG00000073417	PDE8A	1264.113238	0.596052553	7.57E-17
ENSG00000065308	TRAM2	595.8998065	-0.99633607	7.65E-17
ENSG00000136715	SAP130	807.1623683	-0.749765526	7.83E-17
ENSG00000183955	KMT5A	752.9128659	-0.467387101	7.96E-17

ENSG00000068831	RASGRP2	6522.551899	-0.560151471	8.00E-17
ENSG00000181585	TMIE	38.92982162	-1.490903094	8.20E-17
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ENSG00000137449	CPEB2	1579.097337	-0.77854662	8.73E-17
ENSG00000105127	AKAP8	1483.584804	-0.675391592	8.75E-17
ENSG00000168939	SPRY3	91.7074629	-1.015600055	8.75E-17
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ENSG00000135686	KLHL36	3679.850951	0.333858876	9.15E-17
ENSG00000166197	NOLC1	1409.919121	0.842865457	9.47E-17
ENSG00000284154	MIR3605	45.47263555	-1.669776489	9.49E-17
ENSG00000172594	SMPDL3A	363.729167	1.701191306	9.54E-17
ENSG00000205903	ZNF316	3131.459459	0.987997538	9.66E-17
ENSG00000123358	NR4A1	1142.507593	1.365155108	9.79E-17
ENSG00000116120	FARSB	605.0793173	0.539685138	9.82E-17
ENSG00000159176	CSRP1	1048.086271	-0.471941381	9.85E-17
ENSG00000178695	KCTD12	3507.660544	-1.361583537	9.87E-17
ENSG00000264862	RN7SL45P	54.2755498	-1.023575208	1.02E-16
ENSG00000067064	IDI1	1445.431257	-1.185851254	1.02E-16
ENSG00000256030	CBX3P4	30.07651556	1.502216067	1.03E-16
ENSG00000136828	RALGPS1	442.2091188	-0.907831963	1.04E-16
ENSG00000162073	PAQR4	114.0442367	-1.749102122	1.04E-16
ENSG00000261055		48.89066304	1.743281153	1.05E-16
ENSG00000013588	GPRC5A	17.7769174	3.429538435	1.05E-16
ENSG00000130714	POMT1	539.4470576	-0.717719919	1.06E-16
ENSG00000005238	FAM214B	1669.37299	-0.952816172	1.07E-16
ENSG00000156026	MCU	458.9030001	-0.621407931	1.09E-16
ENSG00000160255	ITGB2	13360.47822	-1.192546183	1.11E-16
ENSG00000138744	NAAA	1022.953937	-1.166321584	1.14E-16
ENSG00000246430	LINC00968	15.01566559	-4.329115226	1.16E-16
ENSG00000101916	TLR8	1197.25847	-2.277282107	1.17E-16
ENSG00000018280	SLC11A1	6051.24746	-1.846513542	1.18E-16
ENSG00000140350	ANP32A	4036.606194	0.841371838	1.19E-16
ENSG00000114315	HES1	93.20688273	1.764916046	1.21E-16
ENSG00000121743	GJA3	65.94077848	2.331096842	1.22E-16
ENSG00000245848	CEBPA	585.080647	-1.419034996	1.23E-16
ENSG00000214783	POLR2J4	83.31995971	-1.554918663	1.23E-16
ENSG00000127080	IPPK	543.3662112	0.723312927	1.24E-16
ENSG00000123610	TNFAIP6	8527.430324	3.520438303	1.28E-16
ENSG00000139631	CSAD	941.37436	-1.127293534	1.28E-16
ENSG00000140511	HAPLN3	1991.836767	0.936818418	1.29E-16
ENSG00000164530	PI16	56.69229618	-1.3326158	1.31E-16
ENSG00000266173	STRADA	805.7214337	-0.47748463	1.31E-16
ENSG00000084774	CAD	1022.170083	0.55925428	1.34E-16
ENSG00000010292	NCAPD2	1108.696922	-0.541740054	1.34E-16
ENSG00000248712	CCDC153	24.07819487	-2.163710062	1.35E-16
ENSG00000125812	GZF1	814.9813145	-1.019643047	1.36E-16
ENSG00000126882	FAM78A	3335.931774	-0.381121047	1.36E-16

ENSG00000131378	RFTN1	3259.145414	0.627885525	1.36E-16
ENSG00000006062	MAP3K14	1712.4497	-0.39459341	1.36E-16
ENSG00000261884		523.3225896	-0.769777929	1.37E-16
ENSG00000172197	MBOAT1	459.5571769	-0.756426387	1.40E-16
ENSG00000226435	ANKRD18DP	32.10146722	2.138507527	1.41E-16
ENSG00000227740	LINC02803	17.77239261	-1.580321541	1.42E-16
ENSG00000205356	TECPR1	2764.905912	-0.465200548	1.43E-16
ENSG00000095794	CREM	2388.1879	1.480725239	1.45E-16
ENSG00000169715	MT1E	105.6677952	2.24707458	1.47E-16
ENSG00000171608	PIK3CD	8060.663421	-0.691396144	1.47E-16
ENSG00000009694	TENM1	227.2263562	-1.459822901	1.53E-16
ENSG00000136802	LRRC8A	1021.455027	-0.615185994	1.55E-16
ENSG00000035403	VCL	1791.702833	-1.710846724	1.55E-16
ENSG00000117602	RCAN3	2931.185568	-0.505438848	1.57E-16
ENSG00000116741	RGS2	8031.702121	-2.176776444	1.59E-16
ENSG00000116990	MYCL	246.8240624	-1.819805906	1.60E-16
ENSG00000186230	ZNF749	224.41597	0.756704899	1.67E-16
ENSG00000112667	DNPH1	366.9983489	1.160970693	1.68E-16
ENSG00000214812		112.2893015	2.55730064	1.69E-16
ENSG00000125735	TNFSF14	1344.587687	1.977778763	1.73E-16
ENSG00000164251	F2RL1	268.7659288	-1.435779966	1.73E-16
ENSG00000135932	CAB39	3626.690751	-0.505842722	1.77E-16
ENSG00000182489	XKRX	54.23548649	-1.643369653	1.81E-16
ENSG00000125810	CD93	5322.124893	-1.539885769	1.81E-16
ENSG00000146054	TRIM7	43.29181333	-2.338176327	1.86E-16
ENSG00000162407	PLPP3	1308.36784	3.673275151	1.90E-16
ENSG00000178404	CEP295NL	329.6587869	-1.290935477	1.94E-16
ENSG00000127603	MACF1	13969.03597	-0.611441428	2.01E-16
ENSG00000279400		27.14083693	3.277437077	2.01E-16
ENSG00000164970	FAM219A	403.5669735	-0.668517856	2.04E-16
ENSG00000254632		26.93817694	3.464708065	2.15E-16
ENSG00000164949	GEM	185.1078302	2.953181325	2.16E-16
ENSG00000129355	CDKN2D	964.4842431	-2.058947751	2.16E-16
ENSG00000067992	PDK3	575.7982589	-0.735242121	2.20E-16
ENSG00000137288	UQCC2	547.1082131	0.927184244	2.20E-16
ENSG00000033170	FUT8	1124.154381	0.417497485	2.24E-16
ENSG00000184007	PTP4A2	5750.587896	-0.497588183	2.25E-16
ENSG00000154803	FLCN	2247.356129	1.232933331	2.28E-16
ENSG00000139278	GLIPR1	4049.170684	-0.712554	2.31E-16
ENSG00000272734	ADIRF-AS1	88.49813128	-1.656395907	2.32E-16
ENSG00000155893	PXYLP1	560.917712	-0.551453205	2.37E-16
ENSG00000111319	SCNN1A	24.42882637	-1.661298208	2.39E-16
ENSG00000138134	STAMBPL1	911.9680037	0.524099067	2.40E-16
ENSG00000151458	ANKRD50	283.2067803	-0.94801181	2.40E-16
ENSG00000137270	GCM1	17.95628979	-2.157244992	2.46E-16
ENSG00000162882	HAAO	55.7153223	-1.944415352	2.49E-16
ENSG00000054965	FAM168A	1459.839355	-0.537849863	2.50E-16
ENSG00000159388	BTG2	14565.12325	0.713055524	2.50E-16
ENSG00000234290		456.1871142	-2.545789906	2.50E-16
ENSG00000173930	SLCO4C1	244.4408334	-1.231917269	2.52E-16
ENSG00000074276	CDHR2	77.05613742	-1.232704203	2.57E-16

ENSG00000167874	TMEM88	181.344665	1.537442166	2.59E-16
ENSG00000077157	PPP1R12B	2197.84139	-0.963294305	2.61E-16
ENSG00000271991	TTC32-DT	25.50103719	1.920933248	2.63E-16
ENSG00000008086	CDKL5	385.3488452	-0.73427387	2.65E-16
ENSG00000279554		94.26021469	-1.611542919	2.84E-16
ENSG00000160310	PRMT2	5633.159588	0.511977161	2.84E-16
ENSG00000162909	CAPN2	4062.076328	-0.630852873	2.87E-16
ENSG00000168259	DNAJC7	2143.452151	-0.259725086	2.88E-16
ENSG00000140030	GPR65	3646.451407	1.248936251	2.94E-16
ENSG00000057704	TMCC3	1656.384969	-1.074683659	3.04E-16
ENSG00000021574	SPAST	1167.102845	-0.489375064	3.06E-16
ENSG00000108819	PPP1R9B	4482.94424	-0.660106542	3.12E-16
ENSG00000214402	LCNL1	14.6586268	-3.239604519	3.12E-16
ENSG00000106009	BRAT1	1179.55197	-0.448831783	3.21E-16
ENSG00000134070	IRAK2	5294.938328	3.215562812	3.31E-16
ENSG00000203880	PCMTD2	2423.69942	-0.322221529	3.35E-16
ENSG00000196547	MAN2A2	3505.520323	-0.745526302	3.36E-16
ENSG00000228140	EFHD2-AS1	103.4025177	1.131283272	3.42E-16
ENSG00000279202		110.176903	-1.149647794	3.45E-16
ENSG00000073050	XRCC1	527.3936262	-0.501474145	3.51E-16
ENSG00000133059	DSTYK	1058.768768	-0.425473962	3.51E-16
ENSG00000189136	UBE2Q2P1	101.1638958	-1.414128383	3.55E-16
ENSG00000063015	SEZ6	19.21504097	1.998063726	3.56E-16
ENSG00000149547	EI24	608.8727512	0.588184711	3.56E-16
ENSG00000235947	EGOT	15.71164192	2.91403825	3.59E-16
ENSG00000144843	ADPRH	381.8165374	0.813244518	3.69E-16
ENSG00000170801	HTRA3	22.82827049	2.598715741	3.73E-16
ENSG00000225111		61.4688224	1.471669352	3.74E-16
ENSG00000119844	AFTPH	2968.415924	0.689620724	3.82E-16
ENSG00000237135	DDX10P1	246.58403	1.439908538	3.85E-16
ENSG00000280027		67.75874813	-1.468291494	3.86E-16
ENSG00000107625	DDX50	1165.63139	0.335073718	3.87E-16
ENSG00000186017	ZNF566	354.575239	0.526429244	3.87E-16
ENSG00000215067	ALOX12-AS1	688.029713	0.97728542	3.93E-16
ENSG00000006576	PHTF2	1189.402008	-0.685020112	3.98E-16
ENSG00000100036	SLC35E4	116.5576265	-1.103647963	4.11E-16
ENSG00000235217	TSPY26P	325.6672495	1.029360239	4.11E-16
ENSG00000003249	DBNDD1	21.85436545	-2.658272412	4.17E-16
ENSG00000167617	CDC42EP5	6.560876546	4.206998117	4.32E-16
ENSG00000176463	SLCO3A1	2516.471528	-0.660325791	4.34E-16
ENSG00000179431	FJX1	15.05854799	3.020384205	4.41E-16
ENSG00000222043		35.1493263	1.7453955	4.45E-16
ENSG00000138660	AP1AR	572.9280834	0.656344681	4.56E-16
ENSG00000256720	BTG1P1	133.1136917	-1.885182874	4.56E-16
ENSG00000278022		56.09464631	-1.430227964	4.56E-16
ENSG00000261067		49.98386169	1.130689081	4.58E-16
ENSG00000267174		130.891438	-1.571495283	4.59E-16
ENSG00000103522	IL21R	1729.772076	1.153706583	4.61E-16
ENSG00000277879		49.95633327	-2.129417109	4.65E-16
ENSG00000156983	BRPF1	1223.391865	-0.481595489	4.68E-16
ENSG00000119523	ALG2	787.9630802	0.473729279	4.70E-16

ENSG00000236830	CBR3-AS1	124.8470147	-1.021913187	4.70E-16
ENSG00000233355	CHRM3-AS2	371.8475103	-1.617851471	4.80E-16
ENSG00000165526	RPUSD4	608.160151	0.406228314	4.88E-16
ENSG00000127511	SIN3B	1933.18788	-0.447322857	4.92E-16
ENSG00000106789	CORO2A	462.0925416	-0.910661034	5.10E-16
ENSG00000154001	PPP2R5E	1453.903097	-0.350964059	5.10E-16
ENSG00000186105	LRRC70	74.07405725	1.660941113	5.14E-16
ENSG00000082014	SMARCD3	335.732975	-1.635551904	5.31E-16
ENSG00000117868	ESYT2	3664.037344	-0.621803934	5.42E-16
ENSG00000185811	IKZF1	13631.9015	0.453327807	5.55E-16
ENSG00000228702		15.184908	1.665090913	5.59E-16
ENSG00000205537		15.45976503	1.789796636	5.88E-16
ENSG00000203705	TATDN3	393.0793541	-0.599718683	5.95E-16
ENSG00000147119	CHST7	976.6264568	1.36255944	6.04E-16
ENSG00000166734	GOLM2	2546.300229	-0.548524161	6.13E-16
ENSG00000160014	CALM3	3942.666542	-0.709502081	6.20E-16
ENSG00000112851	ERBIN	11165.95345	0.683348719	6.25E-16
ENSG00000174807	CD248	86.08733405	-1.081651074	6.36E-16
ENSG00000197841	ZNF181	464.9649997	0.848958482	6.38E-16
ENSG00000156650	KAT6B	1471.982417	-0.463660017	6.38E-16
ENSG00000110429	FBXO3	1815.126745	-0.652207732	6.40E-16
ENSG00000219163	HMGB1P20	12.86616339	-2.589859706	6.42E-16
ENSG00000168918	INPP5D	8304.203758	-0.523787612	6.45E-16
ENSG00000142185	TRPM2	1356.527209	1.680336609	6.48E-16
ENSG00000130640	TUBGCP2	1856.414506	-0.56212994	6.52E-16
ENSG00000100485	SOS2	2864.46148	-0.648080064	6.69E-16
ENSG00000258922		49.05225465	1.486402305	6.73E-16
ENSG00000135541	AHI1	766.2790718	1.175579889	6.83E-16
ENSG00000108515	ENO3	375.4118367	1.020238301	6.83E-16
ENSG00000180152	XIAPP3	10.86225279	4.197646455	6.92E-16
ENSG00000116852	KIF21B	5307.884775	-0.556529913	6.98E-16
ENSG00000148840	PPRC1	1120.310878	0.817118974	6.98E-16
ENSG00000138442	WDR12	367.4652225	0.898438179	7.00E-16
ENSG00000086102	NFX1	2061.018267	0.232939882	7.06E-16
ENSG00000067606	PRKCZ	585.7486721	-0.614779144	7.10E-16
ENSG00000166340	TPP1	4164.514088	0.872960362	7.10E-16
ENSG00000123545	NDUFAF4	230.9751738	0.848528359	7.20E-16
ENSG00000186480	INSIG1	4037.946904	1.429254484	7.30E-16
ENSG00000258777	HIF1A-AS1	19.15347004	2.087018439	7.30E-16
ENSG00000173762	CD7	3081.150891	0.833278349	7.38E-16
ENSG00000157593	SLC35B2	1099.964679	1.293321172	7.38E-16
ENSG00000151694	ADAM17	3278.524281	1.311852007	7.48E-16
ENSG00000198055	GRK6	4918.038708	-0.97062779	7.72E-16
ENSG00000174197	MGA	3747.354654	0.466238993	7.84E-16
ENSG00000031081	ARHGAP31	1512.13363	1.553135542	7.86E-16
ENSG00000239653	PSMD6-AS2	802.1100444	-0.905497377	7.86E-16
ENSG00000183726	TMEM50A	2347.074814	-0.490312086	7.86E-16
ENSG00000197070	ARRDC1	926.977648	-0.802931429	7.97E-16
ENSG00000270504		19.46087141	1.726836788	8.08E-16
ENSG00000118257	NRP2	581.4325931	2.693620982	8.21E-16
ENSG00000260911		61.6999603	1.284182596	8.21E-16

ENSG00000071054	MAP4K4	7833.704366	0.802735004	8.30E-16
ENSG00000171130	ATP6V0E2	639.5372214	-0.604795467	8.32E-16
ENSG00000111341	MGP	11.10956274	-3.373526083	8.32E-16
ENSG00000141753	IGFBP4	247.6346	1.17880948	8.54E-16
ENSG00000074855	ANO8	376.6956782	-1.118721279	8.59E-16
ENSG00000151304	SRFBP1	368.5514036	0.716367463	8.59E-16
ENSG00000276514		25.6766963	2.088353441	8.65E-16
ENSG00000126262	FFAR2	8785.662922	1.99621744	8.84E-16
ENSG00000131374	TBC1D5	2077.097232	-0.604072486	8.84E-16
ENSG00000126803	HSPA2	146.2713241	1.875078873	8.88E-16
ENSG00000197724	PHF2	1698.630942	-0.401892441	9.14E-16
ENSG00000139531	SUOX	201.1140634	-1.087877909	9.15E-16
ENSG00000272899	ATP6V1FNB	82.11962428	0.800769624	9.18E-16
ENSG00000166889	PATL1	2567.343568	0.717612153	9.36E-16
ENSG00000166046	TCP11L2	3704.807796	-0.763443978	9.43E-16
ENSG00000092929	UNC13D	4860.638057	-0.620856049	9.47E-16
ENSG00000042429	MED17	1030.346782	-0.353199676	9.51E-16
ENSG00000241772		86.16070314	-1.134307565	9.63E-16
ENSG00000120800	UTP20	676.0882782	0.600925038	9.69E-16
ENSG00000243335	KCTD7	1073.205293	-0.556938571	9.70E-16
ENSG00000154429	CCSAP	658.8016959	-0.837349537	9.71E-16
ENSG00000266017	MIR4477B	54.74922801	-1.94925986	1.00E-15
ENSG00000177590	GIMAP3P	23.55167398	1.682195732	1.01E-15
ENSG00000008083	JARID2	3671.134737	-0.647354525	1.01E-15
ENSG00000176871	WSB2	1314.184388	0.846025174	1.01E-15
ENSG00000146828	SLC12A9	2741.732359	-1.011680099	1.03E-15
ENSG00000114026	OGG1	792.916547	-0.361889216	1.05E-15
ENSG00000281530		197.3369173	-0.893501052	1.06E-15
ENSG00000167112	TRUB2	429.880151	0.473619461	1.08E-15
ENSG00000273311	DGCR11	268.5418407	-0.747107996	1.09E-15
ENSG00000238829	RNU7-45P	105.4809829	1.4345539	1.12E-15
ENSG00000166974	MAPRE2	1958.176674	-0.41305295	1.15E-15
ENSG00000197712	FAM114A1	87.26416389	-1.564012391	1.15E-15
ENSG00000198018	ENTPD7	370.6814959	1.094832058	1.20E-15
ENSG00000044446	PHKA2	1610.878488	-0.671379384	1.20E-15
ENSG00000164715	LMTK2	1743.71525	-0.78532196	1.21E-15
ENSG00000174715	PPIAP72	81.54672315	-1.27824417	1.25E-15
ENSG00000165782	PIP4P1	1223.224892	0.458229509	1.27E-15
ENSG00000269959	SPACA6-AS1	13.12104359	2.230694479	1.28E-15
ENSG00000132694	ARHGEF11	1635.79634	-0.837426913	1.31E-15
ENSG00000117594	HSD11B1	23.4157101	2.341381757	1.32E-15
ENSG00000253475		129.4048757	-1.0911994	1.32E-15
ENSG00000124226	RNF114	2147.493406	-0.403498348	1.32E-15
ENSG00000123146	ADGRE5	7716.502028	-1.082934896	1.33E-15
ENSG00000228624	HDAC2-AS2	23.95070128	1.465541385	1.34E-15
ENSG00000156398	SFXN2	467.6939548	0.546302376	1.35E-15
ENSG00000119314	PTBP3	5433.273287	-0.616773725	1.36E-15
ENSG00000134909	ARHGAP32	266.4135496	-0.805719404	1.39E-15
ENSG00000133612	AGAP3	2331.193148	1.269440653	1.40E-15
ENSG00000126458	RRAS	209.0566943	-1.277121252	1.40E-15
ENSG00000197016	ZNF470	156.130883	0.804674075	1.40E-15

ENSG00000166592	RRAD	45.75392977	2.545009872	1.41E-15
ENSG00000173011	TADA2B	2044.739715	-0.609688297	1.41E-15
ENSG00000132122	SPATA6	160.0195542	-1.004306295	1.43E-15
ENSG00000196843	ARID5A	5461.060899	0.542995325	1.43E-15
ENSG00000115652	UXS1	1747.618432	0.348814011	1.45E-15
ENSG00000133216	EPHB2	179.2441453	-2.449627524	1.45E-15
ENSG00000111860	CEP85L	2206.716049	-0.802400888	1.45E-15
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ENSG00000261416	CORO1A-AS1	93.35205488	-0.936643857	1.50E-15
ENSG00000279946		166.3402832	2.217828577	1.51E-15
ENSG00000266378		145.5575129	1.18185732	1.52E-15
ENSG00000128829	EIF2AK4	785.7131425	-0.625869873	1.54E-15
ENSG00000176105	YES1	268.0796765	-0.872212548	1.56E-15
ENSG00000197299	BLM	333.2203479	0.621441353	1.58E-15
ENSG00000180776	ZDHHC20	3571.910391	-0.433793728	1.60E-15
ENSG00000176022	B3GALT6	641.7282488	0.666023523	1.62E-15
ENSG00000278311	GGNBP2	2340.098297	-0.647927936	1.70E-15
ENSG00000148187	MRRF	670.3290517	0.408871733	1.70E-15
ENSG00000084652	TXLNA	1752.667958	0.5059741	1.76E-15
ENSG00000109458	GAB1	660.1690874	-1.170814787	1.83E-15
ENSG00000102886	GDPD3	216.1940271	-0.823095081	1.83E-15
ENSG00000259652		50.70189821	-1.995769355	1.90E-15
ENSG00000067334	DNTTIP2	2077.775363	0.672893001	1.92E-15
ENSG00000072756	TRNT1	1007.596359	0.535033985	1.93E-15
ENSG00000272273	IER3-AS1	21.2264956	1.790042718	1.94E-15
ENSG00000185252	ZNF74	330.5369233	0.658669285	1.96E-15
ENSG00000010671	BTX	1305.619352	-0.484860056	1.96E-15
ENSG00000271321	CTAGE6	42.50145732	1.239434242	2.01E-15
ENSG00000241333	RN7SL385P	32.53387007	-1.483468613	2.01E-15
ENSG00000180251	SLC9A4	24.75886952	4.74602704	2.04E-15
ENSG00000188290	HES4	961.3151771	2.129661466	2.04E-15
ENSG00000127191	TRAF2	847.8197063	0.793750597	2.04E-15
ENSG00000112305	SMAP1	883.6543274	-0.307508543	2.04E-15
ENSG00000267365	KCNJ2-AS1	268.7998903	2.370904578	2.05E-15
ENSG00000134193	REG4	21.14969079	1.539587348	2.10E-15
ENSG00000242048	PRKAG2-AS2	301.3816555	3.860945795	2.11E-15
ENSG00000118707	TGIF2	1015.465021	0.982034776	2.13E-15
ENSG00000071859	FAM50A	959.6421846	0.809833046	2.14E-15
ENSG00000099875	MKNK2	7611.558062	-0.670667555	2.15E-15
ENSG00000108262	GIT1	1269.539068	-0.434571368	2.16E-15
ENSG00000127084	FGD3	8375.706096	-0.413044826	2.21E-15
ENSG00000156052	GNAQ	1766.136922	-1.311481705	2.26E-15
ENSG00000227591	HSD11B1-AS1	52.15042834	1.442005783	2.28E-15
ENSG00000116128	BCL9	336.8704644	-0.849250782	2.29E-15
ENSG00000182557	SPNS3	114.5852033	-1.473402417	2.29E-15
ENSG00000114388	NPRL2	458.1818194	-0.623412592	2.36E-15
ENSG00000095319	NUP188	1415.840046	0.714240227	2.37E-15
ENSG00000214212	C19orf38	490.0778409	-1.994326586	2.37E-15
ENSG00000074706	IPCEF1	1938.26386	-0.510790918	2.38E-15
ENSG00000280119		34.65963347	-2.345558489	2.39E-15
ENSG00000092200	RPGRI1	68.2388907	-3.097964287	2.49E-15

ENSG00000169508	GPR183	2405.752737	0.931660901	2.56E-15
ENSG00000237248	LINC00987	132.1870632	-1.779130322	2.58E-15
ENSG00000256913		19.10392148	-2.807470235	2.59E-15
ENSG00000066084	DIP2B	3794.500842	-0.591878083	2.61E-15
ENSG00000167615	LENG8	10098.17366	-0.609826141	2.61E-15
ENSG00000092036	HAUS4	304.2084313	-1.011119875	2.64E-15
ENSG00000068976	PYGM	337.121081	-0.90817279	2.66E-15
ENSG00000168438	CDC40	1331.568699	-0.458799269	2.66E-15
ENSG00000106615	RHEB	1136.790678	0.530450985	2.68E-15
ENSG00000145919	BOD1	529.394373	0.619500774	2.69E-15
ENSG00000018869	ZNF582	122.3213999	0.748691369	2.69E-15
ENSG00000152207	CYSLTR2	173.9653184	-1.327028695	2.71E-15
ENSG00000089820	ARHGAP4	6804.008985	-0.670543884	2.72E-15
ENSG00000116525	TRIM62	568.4106058	-0.757777052	2.79E-15
ENSG00000176170	SPHK1	1004.00776	2.160211433	2.79E-15
ENSG00000259953	LINC02977	158.1616799	-0.807016032	2.87E-15
ENSG00000164985	PSIP1	2494.753381	-0.644291828	2.88E-15
ENSG00000272967		14.08862455	2.366485736	2.90E-15
ENSG00000111877	MCM9	1132.755934	-0.357000409	2.91E-15
ENSG00000267783		15.57229434	1.883983733	2.92E-15
ENSG00000196358	NTNG2	1806.016774	-1.59394729	2.93E-15
ENSG00000263065		43.5368328	-1.521228283	2.95E-15
ENSG00000080947	CROCCP3	510.232847	-0.544887647	2.96E-15
ENSG00000244682	FCGR2C	1245.510741	-1.795007572	2.97E-15
ENSG00000139613	SMARCC2	2534.791279	-0.397184847	2.98E-15
ENSG00000100612	DHRS7	1454.082643	-0.717531402	3.03E-15
ENSG00000185187	SIGIRR	1765.596135	-0.783153276	3.04E-15
ENSG00000254815	LMNTD2-AS1	79.62905397	-1.3676227	3.06E-15
ENSG00000100836	PABPN1	1501.072114	-0.293936086	3.07E-15
ENSG00000101290	CDS2	3227.251813	-0.871078982	3.08E-15
ENSG00000151012	SLC7A11	2177.53408	3.490028648	3.09E-15
ENSG00000136156	ITM2B	16903.27762	-0.998660292	3.11E-15
ENSG00000196878	LAMB3	1661.284665	2.929529076	3.21E-15
ENSG00000185947	ZNF267	4406.888165	0.9691189	3.25E-15
ENSG00000141232	TOB1	1498.837429	-0.866293773	3.29E-15
ENSG00000174080	CTSF	306.1956504	-0.845489559	3.35E-15
ENSG00000141574	SECTM1	1565.462979	-2.823618512	3.38E-15
ENSG00000104894	CD37	4965.390941	-0.672958839	3.39E-15
ENSG00000138032	PPM1B	2130.40844	-0.495101951	3.40E-15
ENSG00000162695	SLC30A7	2451.74242	0.70684266	3.43E-15
ENSG00000100982	PCIF1	1739.683086	-0.447271833	3.75E-15
ENSG00000170275	CRTAP	1335.538109	-1.303282479	3.80E-15
ENSG00000123700	KCNJ2	3120.306515	2.467996384	3.81E-15
ENSG00000151883	PARP8	8123.599342	-0.665765682	3.83E-15
ENSG00000153214	TMEM87B	1022.772213	-0.384780505	3.87E-15
ENSG00000011198	ABHD5	984.0080706	-1.436468606	3.94E-15
ENSG00000143418	CERS2	2468.570547	-0.449091572	4.02E-15
ENSG00000260719		143.8027702	-0.902881881	4.02E-15
ENSG00000178573	MAF	2214.051993	0.669558507	4.08E-15
ENSG00000072958	AP1M1	1976.141034	-0.349556819	4.08E-15
ENSG00000114455	HHLA2	23.18196797	2.250610068	4.13E-15

ENSG00000074582	BCS1L	279.9776771	0.476387165	4.14E-15
ENSG00000130558	OLFM1	16.05154342	-3.981094631	4.15E-15
ENSG00000279859		16.83928103	1.757428381	4.16E-15
ENSG00000236008	LINC01814	30.55773494	-1.68159749	4.19E-15
ENSG00000264370	MIR3125	19.21154116	1.537669517	4.22E-15
ENSG00000274797		11.60556338	2.812423193	4.27E-15
ENSG00000183354	KIAA2026	2484.309682	-0.337097348	4.27E-15
ENSG00000167037	SGSM1	150.7851446	-0.945108213	4.37E-15
ENSG00000134046	MBD2	2032.95703	-0.43555009	4.51E-15
ENSG00000274156		12.83321125	2.510879058	4.53E-15
ENSG00000143942	CHAC2	50.34735116	1.166329961	4.54E-15
ENSG00000088205	DDX18	2380.663611	0.468419586	4.56E-15
ENSG00000234456	MAGI2-AS3	65.06169283	1.416083064	4.57E-15
ENSG00000083093	PALB2	379.004702	0.637688005	4.59E-15
ENSG00000234770	GULOP	32.37037468	-1.665968228	4.61E-15
ENSG00000168887	C2orf68	1790.532085	-0.362849532	4.68E-15
ENSG00000279396		512.5970489	-1.04316821	4.74E-15
ENSG00000129038	LOXL1	42.28747312	-2.586610435	4.84E-15
ENSG00000167695	TLCD3A	51.04151198	1.16379678	4.84E-15
ENSG00000196562	SULF2	1732.05033	-1.318821657	4.90E-15
ENSG00000116353	MECR	219.578139	0.550700654	4.92E-15
ENSG00000100219	XBP1	3665.041059	0.796816336	4.97E-15
ENSG00000143153	ATP1B1	177.6688819	1.319351619	4.99E-15
ENSG00000249684		51.34174354	-1.331139029	5.02E-15
ENSG00000071967	CYBRD1	293.4645001	-1.905077445	5.02E-15
ENSG00000139182	CLSTN3	1337.942489	-0.543454942	5.12E-15
ENSG00000106344	RBM28	1248.573721	0.547128286	5.23E-15
ENSG00000260807	CEROX1	203.921251	-0.936442651	5.38E-15
ENSG00000139946	PELI2	1146.131897	-1.336597365	5.38E-15
ENSG00000065989	PDE4A	927.1547463	0.792113989	5.40E-15
ENSG00000147592	LACTB2	168.0803212	0.63944538	5.51E-15
ENSG00000147168	IL2RG	6031.158574	0.672869536	5.53E-15
ENSG00000137177	KIF13A	1150.044796	-1.16714953	5.60E-15
ENSG00000156510	HKDC1	47.51059775	-1.114694775	5.61E-15
ENSG00000229833	PET100	252.9546958	-0.88025003	5.67E-15
ENSG00000105849	POLR1F	421.7200738	0.659291268	5.67E-15
ENSG00000151117	TMEM86A	209.6393898	-0.917789377	5.71E-15
ENSG00000197601	FAR1	2384.365869	-0.595631346	5.73E-15
ENSG00000113648	MACROH2A1	8643.23886	-0.585090025	5.83E-15
ENSG00000083828	ZNF586	1292.616832	-0.49702128	6.02E-15
ENSG00000283959		56.01132376	1.495990027	6.10E-15
ENSG00000087274	ADD1	5994.320397	-0.470692321	6.21E-15
ENSG00000254983		6.106710429	-4.408562176	6.21E-15
ENSG00000277443	MARCKS	15288.80578	2.305579273	6.23E-15
ENSG00000159339	PADI4	894.4085332	-1.842953792	6.27E-15
ENSG00000223704	LINC01422	211.5696702	-1.226044163	6.32E-15
ENSG00000261407		12.29782621	-2.835287339	6.40E-15
ENSG00000108604	SMARCD2	1618.940062	-0.417193566	6.47E-15
ENSG00000143933	CALM2	5286.557846	-0.597244953	6.58E-15
ENSG00000132386	SERPINF1	87.50219943	-1.049057679	6.65E-15
ENSG00000122515	ZMIZ2	3393.057469	0.642366301	6.65E-15

ENSG00000184897	H1-10	1584.150876	-1.501041779	6.87E-15
ENSG00000132763	MMACHC	114.5163835	1.084189005	7.00E-15
ENSG00000131238	PPT1	2997.74038	-0.923105577	7.00E-15
ENSG00000188549	CCDC9B	302.7562332	0.91887512	7.02E-15
ENSG00000124126	PREX1	14759.22704	-0.77624347	7.07E-15
ENSG00000174839	DENND6A	1650.399665	-0.618371802	7.14E-15
ENSG00000283994		224.9144033	-1.445872073	7.20E-15
ENSG00000163534	FCRL1	858.2790467	-1.547040563	7.32E-15
ENSG00000102349	KLF8	127.2512286	-1.324808447	7.55E-15
ENSG00000236021	COP1-DT	36.58876638	-1.105446442	7.56E-15
ENSG00000134463	ECHDC3	104.0423634	-1.999591737	7.63E-15
ENSG00000165626	BEND7	19.47451507	-2.881104052	7.69E-15
ENSG00000170684	ZNF296	104.6587947	-1.390589432	7.77E-15
ENSG00000117036	ETV3	1659.580468	0.584344059	8.04E-15
ENSG00000266865		85.42804331	-0.712267465	8.34E-15
ENSG00000109466	KLHL2	1211.133253	-0.683614229	8.38E-15
ENSG00000149311	ATM	15512.67154	-0.454497625	8.38E-15
ENSG00000225873	C3orf86	101.4757035	-1.650391927	8.51E-15
ENSG00000127481	UBR4	11329.95485	0.654842238	8.70E-15
ENSG00000267519	MIR23AHG	1457.987695	1.232906018	8.72E-15
ENSG00000102699	PARP4	3999.635139	-0.413320609	8.84E-15
ENSG00000183340	JRKL	370.1459717	0.935478448	8.91E-15
ENSG00000273447		61.43378332	-0.967226642	9.17E-15
ENSG00000273341		54.91442077	2.084403574	9.19E-15
ENSG00000160094	ZNF362	533.0928573	-0.828425733	9.28E-15
ENSG00000111186	WNT5B	36.1250174	1.763229175	9.40E-15
ENSG00000171467	ZNF318	1568.204126	-0.506945526	9.74E-15
ENSG00000158161	EYA3	1723.367734	0.978505693	9.80E-15
ENSG00000174405	LIG4	722.1716501	0.7717129	9.82E-15
ENSG00000187260	WDR86	65.31855103	-1.378160298	1.01E-14
ENSG00000198547	C2orf203	15.64163074	-2.895251349	1.01E-14
ENSG00000239151	RNU7-195P	26.31124697	-2.324312733	1.03E-14
ENSG00000155850	SLC26A2	816.8590613	0.667606639	1.03E-14
ENSG00000240527		74.73754933	-1.777837894	1.05E-14
ENSG00000160685	ZBTB7B	3661.123181	-0.733440981	1.06E-14
ENSG00000157870	PRXL2B	535.9740324	0.816630376	1.09E-14
ENSG00000167850	CD300C	395.2820754	-1.264527781	1.09E-14
ENSG00000170074	FAM153A	277.8040005	-1.210970993	1.12E-14
ENSG00000131981	LGALS3	3731.110812	1.290464636	1.13E-14
ENSG00000184014	DENND5A	9514.305517	1.16461739	1.14E-14
ENSG00000110446	SLC15A3	3842.31203	1.001346743	1.15E-14
ENSG00000198590	APRG1	121.7055365	-1.294391945	1.15E-14
ENSG00000198646	NCOA6	1848.610242	-0.448880892	1.16E-14
ENSG00000266714	MYO15B	3867.384919	-0.908948302	1.17E-14
ENSG00000100596	SPTLC2	1675.834065	-0.674448376	1.19E-14
ENSG00000143333	RGS16	230.9653533	3.004414358	1.19E-14
ENSG00000265432	MIR4308	20.65093798	1.940411036	1.20E-14
ENSG00000130560	UBAC1	814.7224495	-0.481646011	1.22E-14
ENSG00000163702	IL17RC	45.22689272	-2.924202525	1.25E-14
ENSG00000130598	TNNI2	140.7550416	-1.465916227	1.25E-14
ENSG00000079387	SENP1	1100.122025	0.318426521	1.27E-14

ENSG00000234072	GTF3C2-AS2	245.1607462	0.67619039	1.28E-14
ENSG00000196233	LCOR	4439.58148	-0.351881775	1.28E-14
ENSG00000222179	RN7SKP26	40.75969363	2.026606049	1.31E-14
ENSG00000119943	PYROXD2	346.9903254	-0.733291103	1.32E-14
ENSG00000101230	ISM1	19.1298571	-3.085432977	1.33E-14
ENSG00000241975	ELOCP19	84.90297943	-1.55116298	1.33E-14
ENSG00000267062		30.54684206	1.360400031	1.34E-14
ENSG00000188676	IDO2	56.67349627	2.031978746	1.35E-14
ENSG00000101473	ACOT8	627.4165638	-0.470847092	1.35E-14
ENSG00000280067		54.93004252	-1.2510729	1.36E-14
ENSG00000263276		84.70368508	-1.021947659	1.38E-14
ENSG00000058804	NDC1	503.3205189	0.476872233	1.38E-14
ENSG00000141076	UTP4	730.7223273	0.599352509	1.39E-14
ENSG00000260276		286.7904648	0.566525416	1.40E-14
ENSG00000035664	DAPK2	1416.002751	-1.04159761	1.42E-14
ENSG00000198736	MSRB1	1983.065898	-1.468456216	1.43E-14
ENSG00000166347	CYB5A	288.1221493	0.556120621	1.43E-14
ENSG00000183049	CAMK1D	2051.021869	-0.551118528	1.44E-14
ENSG00000023839	ABCC2	154.2474457	-0.810913999	1.48E-14
ENSG00000198925	ATG9A	1405.235492	-0.540587542	1.48E-14
ENSG00000159885	ZNF222	142.9229439	0.841896176	1.51E-14
ENSG00000149187	CELF1	5681.669179	0.454526722	1.52E-14
ENSG00000114125	RNF7	940.5817841	-0.41352487	1.52E-14
ENSG00000249863		82.11633347	-0.988763656	1.57E-14
ENSG00000204574	ABCF1	1569.88639	0.851636246	1.60E-14
ENSG00000188747	NOXA1	162.8975292	-1.655755943	1.60E-14
ENSG00000152818	UTRN	9084.357317	-0.901557023	1.60E-14
ENSG00000173209	AHSA2P	2574.444188	-0.472478762	1.61E-14
ENSG00000160796	NBEAL2	13387.12162	-0.824457758	1.62E-14
ENSG00000146122	DAAM2	98.10081515	-4.421632124	1.63E-14
ENSG00000203446	SUGCT-AS1	12.70364459	3.298328133	1.64E-14
ENSG00000123505	AMD1	2788.61102	-0.376867897	1.66E-14
ENSG00000151702	FLI1	4183.544341	-0.633944958	1.66E-14
ENSG00000126249	PDCD2L	51.24815741	0.837592178	1.68E-14
ENSG00000166128	RAB8B	6263.043451	0.959622408	1.71E-14
ENSG00000138834	MAPK8IP3	4664.931062	-0.498266192	1.71E-14
ENSG00000213145	CRIP1	204.024221	-0.88098701	1.74E-14
ENSG00000272368		121.1709424	-1.141279599	1.74E-14
ENSG00000220305	HNRNPH1P1	37.04886129	1.42186991	1.75E-14
ENSG00000112033	PPARD	2029.352817	0.782302209	1.78E-14
ENSG00000204366	ZBTB12	53.39395846	1.063764404	1.80E-14
ENSG00000085871	MGST2	90.46438495	-1.343027554	1.81E-14
ENSG00000103550	KNOP1	449.185901	0.494559036	1.81E-14
ENSG00000245105	A2M-AS1	506.5042324	-1.450973769	1.82E-14
ENSG00000254995	STX16-NPEPL1	238.7056841	-1.17812257	1.84E-14
ENSG00000273599		88.92387107	-1.184528055	1.85E-14
ENSG00000067208	EVI5	516.4614915	-0.676940412	1.88E-14
ENSG00000272384		14.77911676	2.283486629	1.88E-14
ENSG00000135913	USP37	1206.872851	0.571542998	1.96E-14
ENSG00000167595	PROSER3	452.0582499	-0.556110352	1.96E-14
ENSG00000204086	RPA4	36.00306876	1.406838466	1.96E-14

ENSG00000125952	MAX	3918.482024	-0.419629567	1.97E-14
ENSG00000129625	REEP5	1692.91951	-0.467143163	1.97E-14
ENSG00000116062	MSH6	1162.737076	0.347375378	1.99E-14
ENSG00000008853	RHOBTB2	318.9683196	-1.084536264	2.08E-14
ENSG00000163131	CTSS	18276.49882	-1.564952944	2.11E-14
ENSG00000224066		145.2866065	-1.219905625	2.13E-14
ENSG00000112624	BICRAL	2115.743396	-0.465264701	2.14E-14
ENSG00000134028	ADAMDEC1	96.43760601	1.796102754	2.20E-14
ENSG00000165195	PIGA	554.7273156	-0.852156789	2.20E-14
ENSG00000106330	MOSPD3	122.4194217	-1.067768494	2.25E-14
ENSG00000136002	ARHGEF4	43.18226203	-1.522429819	2.25E-14
ENSG00000232748		28.6477483	1.649508797	2.27E-14
ENSG00000100413	POLR3H	1051.63896	0.560040435	2.29E-14
ENSG00000229419	RALGAPA1P1	101.8030716	1.046166378	2.29E-14
ENSG00000114656	CFAP92	131.8863976	-1.942983036	2.36E-14
ENSG00000132155	RAF1	5732.835745	-0.650306657	2.36E-14
ENSG00000152229	PSTPIP2	2532.411987	1.541364244	2.37E-14
ENSG00000111845	PAK1IP1	245.3393257	0.798246679	2.37E-14
ENSG00000126698	DNAJC8	1773.094381	0.500705721	2.39E-14
ENSG00000131831	RAI2	25.13481919	1.209426623	2.39E-14
ENSG00000101546	RBFA	178.6274199	0.554531693	2.42E-14
ENSG00000177628	GBA	1036.429845	0.806388661	2.43E-14
ENSG00000090686	USP48	2376.467175	-0.458245998	2.44E-14
ENSG00000225331	LINC01678	62.07081945	1.583767725	2.50E-14
ENSG00000148356	LRSAM1	877.1682264	-0.534762164	2.52E-14
ENSG00000154642	C21orf91	1787.171896	0.586938032	2.64E-14
ENSG00000157985	AGAP1	292.3823524	-1.134191552	2.64E-14
ENSG00000214922	HLA-F-AS1	175.562662	-0.881938101	2.65E-14
ENSG00000132330	SCLY	289.6750775	0.502994066	2.67E-14
ENSG00000214425	LRRC37A4P	1349.492877	-0.519819742	2.68E-14
ENSG00000177192	PUS1	574.1118103	0.584766883	2.69E-14
ENSG00000114999	TTL	1062.819231	0.637542165	2.69E-14
ENSG00000100095	SEZ6L	11.16552748	-3.910479392	2.75E-14
ENSG00000232517	CSPG4BP	20.91245324	2.821526513	2.79E-14
ENSG00000137801	THBS1	26793.39405	1.949071202	2.79E-14
ENSG00000197122	SRC	2941.052704	2.016733465	2.83E-14
ENSG00000004846	ABCB5	20.69229724	2.348726787	2.89E-14
ENSG00000172613	RAD9A	578.1803095	0.48314368	2.94E-14
ENSG00000177045	SIX5	45.27747675	1.133948394	2.94E-14
ENSG00000102032	RENBP	990.3679844	0.895537089	2.95E-14
ENSG00000172379	ARNT2	173.3886462	3.763954607	2.98E-14
ENSG00000233954	UQCRHL	22.9374912	-1.481104791	3.03E-14
ENSG00000178896	EXOSC4	329.7942036	1.271390062	3.06E-14
ENSG00000182230		176.0445899	-1.26628502	3.06E-14
ENSG00000164164	OTUD4	2499.83369	0.500876081	3.09E-14
ENSG00000259626	MTND3P12	57.06014028	1.747157483	3.14E-14
ENSG00000276649		711.2789516	1.590067378	3.15E-14
ENSG00000149591	TAGLN	490.5522697	-0.887631654	3.16E-14
ENSG00000271984		8.633998726	2.813916564	3.26E-14
ENSG00000162888	C1orf147	14.94271073	3.988839627	3.27E-14
ENSG00000123562	MORF4L2	1722.896192	0.550832887	3.27E-14

ENSG00000172037	LAMB2	50.42428001	-3.008581848	3.34E-14
ENSG00000279320		160.3681544	2.05528725	3.34E-14
ENSG00000226312	CFLAR-AS1	18.81510648	2.594198399	3.34E-14
ENSG00000115232	ITGA4	5786.573727	-0.784593197	3.34E-14
ENSG00000151623	NR3C2	991.5042147	-0.674137966	3.36E-14
ENSG00000165233	CARD19	1250.924481	-0.842892953	3.37E-14
ENSG00000128283	CDC42EP1	54.31823536	-1.926357397	3.39E-14
ENSG00000239998	LILRA2	1914.899153	-1.248635115	3.39E-14
ENSG00000007516	BAIAP3	280.2893098	-1.730228402	3.42E-14
ENSG00000205927	OLIG2	80.71484629	2.473102985	3.49E-14
ENSG00000178935	ZNF552	442.3157408	-0.638158162	3.52E-14
ENSG00000185972	CCIN	27.53065372	-2.957368225	3.53E-14
ENSG00000254791	FAR1-IT1	64.12708561	-1.410044115	3.54E-14
ENSG00000197050	ZNF420	355.0375999	0.623222723	3.55E-14
ENSG00000070540	WIPI1	676.672137	-0.961717409	3.59E-14
ENSG00000198216	CACNA1E	158.6944796	-2.20393371	3.66E-14
ENSG00000121380	BCL2L14	34.6961054	2.093961949	3.68E-14
ENSG00000141480	ARRB2	8459.818143	-0.746024132	3.70E-14
ENSG00000255150	EID3	245.9843127	0.796604586	3.71E-14
ENSG00000145901	TNIP1	17643.72336	1.629956597	3.71E-14
ENSG00000075420	FNDC3B	10224.59971	1.422165509	3.72E-14
ENSG00000219200	RNASEK	493.3120998	0.638050975	3.74E-14
ENSG00000215912	TTC34	542.2989709	0.78189732	3.75E-14
ENSG00000162174	ASRGL1	126.769846	-1.494342267	3.75E-14
ENSG00000104974	LILRA1	1008.732517	-1.523998946	3.77E-14
ENSG00000227825	SLC9A7P1	108.0041268	-1.572524772	3.85E-14
ENSG00000133657	ATP13A3	10509.75965	1.873467022	3.86E-14
ENSG00000170638	TRABD	3045.487606	-0.433088252	3.88E-14
ENSG00000223799	IL10RB-DT	92.07323282	1.677586365	3.88E-14
ENSG00000171224	FAM241B	39.04263998	-1.460394351	3.92E-14
ENSG00000183735	TBK1	1700.131691	0.741493856	3.98E-14
ENSG00000250397		28.74198605	-2.549803144	4.00E-14
ENSG00000176533	GNG7	486.9750329	-1.253540539	4.02E-14
ENSG00000105492	SIGLEC6	26.93110631	-1.701892192	4.02E-14
ENSG00000104361	NIPAL2	214.9400936	-1.136452292	4.15E-14
ENSG00000174744	BRMS1	741.9777493	-0.39144851	4.24E-14
ENSG00000188886	ASTL	232.3407721	0.971299933	4.34E-14
ENSG00000197930	ERO1A	1958.865316	-0.693644095	4.38E-14
ENSG00000247199	FBXO38-DT	32.3208142	1.19659599	4.46E-14
ENSG00000184588	PDE4B	8184.353921	0.889096512	4.48E-14
ENSG00000161714	PLCD3	59.63818584	-1.119524991	4.52E-14
ENSG00000226659	TSPAN14-AS1	68.0960703	0.885938015	4.52E-14
ENSG00000184207	PGP	451.9677548	-0.643684184	4.54E-14
ENSG00000121210	TMEM131L	2796.0363	-0.567122102	4.54E-14
ENSG00000284486		19.49614731	2.277142335	4.58E-14
ENSG00000015475	BID	4028.366029	1.251038753	4.68E-14
ENSG00000224307	LINC02975	78.73171445	-2.292254505	4.68E-14
ENSG00000163635	ATXN7	4325.233709	-0.562724242	4.73E-14
ENSG00000121741	ZMYM2	3852.148668	-0.553351786	4.74E-14
ENSG00000157216	SSBP3	1500.697879	-0.548061439	4.75E-14
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ENSG00000163803	PLB1	368.2599835	-1.805111983	4.79E-14
ENSG00000165071	TMEM71	2212.24194	-0.975628736	4.81E-14
ENSG00000185899	TAS2R60	17.27991637	-1.853926635	4.88E-14
ENSG00000139990	DCAF5	2614.51209	-0.351613057	4.89E-14
ENSG00000065243	PKN2	2984.49974	-0.812086696	4.89E-14
ENSG00000178947	SMIM10L2A	61.48402254	-0.998748248	4.89E-14
ENSG00000143515	ATP8B2	3515.775274	-0.599316089	4.91E-14
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ENSG00000266642		30.05216528	2.43340785	5.35E-14
ENSG00000235560	ZNF747-DT	93.73887104	0.940521161	5.54E-14
ENSG00000173451	THAP2	382.278562	0.613151375	5.55E-14
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ENSG00000259939		87.8741843	0.642057197	5.61E-14
ENSG00000165025	SYK	4641.328864	-0.86787181	5.65E-14
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ENSG00000058866	DGKG	175.6139648	-2.029724022	5.81E-14
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ENSG00000188779	SKOR1	71.85346722	-2.074744817	5.88E-14
ENSG00000100554	ATP6V1D	1016.3962	0.643992259	5.89E-14
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ENSG00000241258	CRCP	735.2050507	-0.269609911	6.10E-14
ENSG00000139537	CCDC65	74.61218249	-1.587161891	6.15E-14
ENSG00000137404	NRM	123.5392138	-1.065841802	6.25E-14
ENSG00000272033		86.02696193	-1.140886651	6.26E-14
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ENSG00000229591		82.26859204	-0.785800526	6.36E-14
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ENSG00000130703	OSBPL2	2388.747116	-0.656817787	6.50E-14
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ENSG00000173145	NOC3L	609.849605	0.829741681	6.57E-14
ENSG00000197471	SPN	3375.433483	-0.414882506	6.65E-14
ENSG00000260135	MMP2-AS1	343.1248843	3.578848759	6.66E-14
ENSG00000126522	ASL	353.7208914	-0.589137542	6.69E-14
ENSG00000068366	ACSL4	4498.454034	0.79913231	6.72E-14
ENSG00000213347	MXD3	630.7667682	-1.003977111	6.93E-14
ENSG00000235843		12.92310444	1.322974979	6.94E-14
ENSG00000228663	PSMD10P1	28.46616881	-1.855550495	7.00E-14
ENSG00000152683	SLC30A6	858.2933143	0.399451121	7.04E-14
ENSG00000197943	PLCG2	5217.570579	-0.633643512	7.10E-14
ENSG00000001036	FUCA2	430.7164996	-0.625768495	7.14E-14

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ENSG00000184635	ZNF93	114.5607369	-0.889348931	7.48E-14
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ENSG00000200095	RNU6-181P	31.510963	1.103395699	7.69E-14
ENSG00000153179	RASSF3	5928.08717	-0.567859316	7.75E-14
ENSG00000114554	PLXNA1	1289.734213	1.489460267	7.75E-14
ENSG00000274376	ADAMTS7P1	128.3158145	-1.047490117	7.86E-14
ENSG00000124659	TBCC	979.2494329	-0.441810975	7.93E-14
ENSG00000073536	NLE1	417.1067156	0.535645938	7.94E-14
ENSG00000240053	LY6G5B	167.6690541	-0.740666958	7.94E-14
ENSG00000235151		38.56317348	1.918269562	7.97E-14
ENSG00000132376	INPP5K	1838.064841	-0.961553201	8.04E-14
ENSG00000114857	NKTR	6264.978972	-0.451980683	8.14E-14
ENSG00000118579	MED28	5121.425501	0.353419999	8.19E-14
ENSG00000196459	TRAPPC2	667.2998565	-0.349808646	8.20E-14
ENSG00000135049	AGTPBP1	2976.142308	-0.894958635	8.48E-14
ENSG00000208025	MIR591	14.13080327	2.060721347	8.48E-14
ENSG00000178105	DDX10	706.4452217	0.644280748	8.52E-14
ENSG00000137221	TJAP1	1052.361556	0.641216266	8.82E-14
ENSG00000122557	HERPUD2	2342.517636	-0.300363949	8.95E-14
ENSG00000099308	MAST3	3915.911289	-0.781779838	8.95E-14
ENSG00000148218	ALAD	584.8597633	-0.626489806	8.96E-14
ENSG00000111266	DUSP16	4100.401849	1.48358715	9.03E-14
ENSG00000225733	FGD5-AS1	2584.728768	-0.350520688	9.08E-14
ENSG00000161692	DBF4B	215.7682536	0.788941923	9.09E-14
ENSG00000185055	EFCAB10	28.17681773	-2.02319649	9.16E-14
ENSG00000164683	HEY1	123.4623217	1.936168305	9.17E-14
ENSG00000185730	ZNF696	337.8748375	0.637105646	9.26E-14
ENSG00000079215	SLC1A3	209.6968938	2.477203123	9.33E-14
ENSG00000207614	MIR193A	10.86856133	3.038415406	9.34E-14
ENSG00000169814	BTD	268.2440257	-0.71798836	9.42E-14
ENSG00000119522	DENND1A	1820.627559	-0.82831227	9.42E-14
ENSG00000106780	MEGF9	4382.150759	-1.48303025	9.43E-14
ENSG00000101745	ANKRD12	7891.91646	0.521539667	9.45E-14
ENSG00000255081		56.64055403	0.96703269	9.48E-14
ENSG00000235314	LINC00957	200.0638016	-0.787319737	9.54E-14
ENSG00000273419		22.27792676	-1.438524317	9.54E-14
ENSG00000163960	UBXN7	2737.638401	-0.375065464	9.55E-14
ENSG00000261573		8.055976115	2.504047812	9.65E-14
ENSG00000205133	TRIQQ	256.2795535	-1.358293383	9.68E-14
ENSG00000161929	SCIMP	519.9645006	-1.36364794	9.85E-14
ENSG00000003056	M6PR	3859.610416	0.799229587	9.93E-14
ENSG00000141452	RMC1	992.9677508	-0.461209422	1.00E-13
ENSG00000100483	VCPKMT	512.7607568	-0.556413514	1.01E-13
ENSG00000091129	NRCAM	142.2798623	-1.261462705	1.02E-13
ENSG00000167264	DUS2	452.2181234	-0.469165637	1.02E-13
ENSG00000260086		37.1078326	1.475777135	1.04E-13
ENSG00000162437	RAVER2	74.63433538	-0.817231443	1.05E-13
ENSG00000008118	CAMK1G	123.6722391	4.245444805	1.05E-13

ENSG00000120915	EPHX2	585.7657245	-0.653995317	1.06E-13
ENSG00000163395	IGFN1	106.5286151	4.81444873	1.06E-13
ENSG00000114737	CISH	1203.747427	1.561791392	1.07E-13
ENSG00000074660	SCARF1	4296.454888	1.878207143	1.09E-13
ENSG00000237940	LINC01238	144.3178389	-1.352763081	1.10E-13
ENSG00000188004	SNHG28	40.89151267	-1.018991297	1.10E-13
ENSG00000075884	ARHGAP15	3895.575717	-0.887635557	1.11E-13
ENSG00000135052	GOLM1	98.07832842	-1.237475625	1.11E-13
ENSG00000156515	HK1	3370.804977	-0.551602469	1.13E-13
ENSG00000135378	PRRG4	273.7307069	-1.823390473	1.17E-13
ENSG00000096384	HSP90AB1	7546.82452	0.827704665	1.21E-13
ENSG00000172939	OXSRI	2271.372466	0.777478471	1.22E-13
ENSG00000087152	ATXN7L3	2525.070099	-0.380222541	1.23E-13
ENSG00000181804	SLC9A9	418.4928795	-0.780985833	1.24E-13
ENSG00000178385	PLEKHM3	2337.883912	1.204612801	1.27E-13
ENSG00000170871	KIAA0232	2520.258697	-0.49405261	1.28E-13
ENSG00000105447	GRWD1	760.4015966	0.768467867	1.28E-13
ENSG00000077254	USP33	2425.156148	-0.330805066	1.29E-13
ENSG00000165732	DDX21	3915.985082	0.703066791	1.30E-13
ENSG00000169607	CKAP2L	117.0903032	2.026987408	1.35E-13
ENSG00000116191	RALGPS2	1342.424006	-1.020189753	1.35E-13
ENSG00000109046	WSB1	7271.95953	1.100169352	1.37E-13
ENSG00000141380	SS18	2429.904564	0.7130764	1.37E-13
ENSG00000078081	LAMP3	573.2699803	1.977850893	1.38E-13
ENSG00000274717		102.44899	0.866296279	1.42E-13
ENSG00000105854	PON2	114.1216163	-0.987018279	1.43E-13
ENSG00000104883	PEX11G	64.44644969	1.224321895	1.48E-13
ENSG00000186204	CYP4F12	72.06668395	-1.350490838	1.49E-13
ENSG00000132153	DHX30	1742.341596	0.403193216	1.50E-13
ENSG00000204305	AGER	551.7312051	-0.655911668	1.53E-13
ENSG00000273855		29.88692577	-1.579030685	1.53E-13
ENSG00000227598		107.5788013	-1.00848712	1.54E-13
ENSG00000171603	CLSTN1	1943.190171	-0.504307265	1.55E-13
ENSG00000116661	FBXO2	75.3404774	-1.487740349	1.56E-13
ENSG00000181192	DHTKD1	794.835147	-0.655962378	1.57E-13
ENSG00000144161	ZC3H8	434.4701043	0.651350473	1.58E-13
ENSG00000139572	GPR84	2619.201663	3.747820364	1.59E-13
ENSG00000250069		154.512849	1.190315624	1.59E-13
ENSG00000173535	TNFRSF10C	3184.443664	-1.855021685	1.65E-13
ENSG00000239941	LINC02917	19.44393487	-2.017189374	1.67E-13
ENSG00000119801	YPEL5	4705.479104	-0.88760404	1.67E-13
ENSG00000156469	MTERF3	273.2368038	0.584358284	1.68E-13
ENSG00000174695	TMEM167A	1985.303298	-0.448040512	1.69E-13
ENSG00000128050	PAICS	851.7100293	0.869741829	1.69E-13
ENSG00000254419		75.62277987	-1.048153749	1.71E-13
ENSG00000179921	GPBAR1	160.3554965	-1.71765306	1.71E-13
ENSG00000272247		18.04675379	1.64412741	1.73E-13
ENSG00000078177	N4BP2	1365.31971	-0.523157873	1.84E-13
ENSG00000152642	GPD1L	409.5382798	-0.510684049	1.88E-13
ENSG00000124466	LYPD3	56.22912976	1.211979575	1.90E-13
ENSG00000182749	PAQR7	122.8054486	-1.413765678	1.92E-13

ENSG00000262766		122.5991729	-1.097652958	1.95E-13
ENSG00000143622	RIT1	2634.691212	0.878072393	1.95E-13
ENSG00000225854		20.01576402	-1.901547537	1.98E-13
ENSG00000175115	PACS1	5331.406828	-0.479574466	2.00E-13
ENSG00000160209	PDXK	4971.481646	1.013428871	2.00E-13
ENSG00000148730	EIF4EBP2	3579.933634	-0.377982348	2.03E-13
ENSG00000205213	LGR4	35.45288758	-1.267153808	2.03E-13
ENSG00000128585	MKLN1	4314.060667	-0.422385519	2.07E-13
ENSG00000105717	PBX4	460.1060842	0.513407582	2.12E-13
ENSG00000147130	ZMYM3	699.8175886	-0.539651014	2.16E-13
ENSG00000255121	CENATAC-DT	135.6773396	0.884084261	2.17E-13
ENSG00000237172	B3GNT9	127.3482195	-0.689549216	2.18E-13
ENSG00000068120	COASY	857.196082	-0.296867056	2.19E-13
ENSG00000143624	INTS3	1841.510491	-0.454524787	2.19E-13
ENSG00000150712	MTMR12	811.594411	-0.422233068	2.20E-13
ENSG00000124813	RUNX2	1221.5081	-0.621276779	2.20E-13
ENSG00000227268	KLLN	82.09205786	-1.616613165	2.23E-13
ENSG00000149527	PLCH2	511.9646105	-1.31326799	2.23E-13
ENSG00000138801	PAPSS1	951.4169653	-0.658503329	2.24E-13
ENSG00000072954	TMEM38A	54.38345058	-1.32284864	2.24E-13
ENSG00000141582	CBX4	1444.894958	-1.241271733	2.28E-13
ENSG00000119720	NRDE2	1425.059453	-0.410310961	2.36E-13
ENSG00000196209	SIRPB2	1335.083401	-1.83891004	2.40E-13
ENSG00000168298	H1-4	7192.632932	-1.374751022	2.42E-13
ENSG00000155097	ATP6V1C1	2467.254944	1.252139512	2.45E-13
ENSG00000154127	UBASH3B	1532.757999	0.618992525	2.45E-13
ENSG00000157657	ZNF618	165.7975933	-1.018390011	2.45E-13
ENSG00000077463	SIRT6	662.6087799	0.57449254	2.47E-13
ENSG00000187045	TMPRSS6	48.14504371	1.152944232	2.49E-13
ENSG00000188706	ZDHHC9	177.4181333	1.172308033	2.51E-13
ENSG00000198435	NRARP	24.52185725	1.466200797	2.56E-13
ENSG00000277142	LINC00235	243.8174175	1.381010148	2.59E-13
ENSG00000124784	RIOK1	409.294909	0.524146788	2.59E-13
ENSG00000063978	RNF4	2317.937978	-0.21743581	2.60E-13
ENSG00000232442	MHENCRC	516.2708053	-0.619101465	2.61E-13
ENSG00000164663	USP49	650.0445861	0.737191971	2.70E-13
ENSG00000205702	CYP2D7	102.4794707	-0.911980611	2.71E-13
ENSG00000274270		108.0691056	0.925768917	2.74E-13
ENSG00000108312	UBTF	2884.101655	-0.298028586	2.76E-13
ENSG00000272078		10.39713019	-3.701997317	2.77E-13
ENSG00000115762	PLEKHB2	4224.849387	0.683103368	2.81E-13
ENSG00000196455	PIK3R4	1113.083125	0.357118567	2.82E-13
ENSG00000244560		138.933931	-1.183348236	2.83E-13
ENSG00000162069	BICDL2	19.71266227	-3.186914297	2.83E-13
ENSG00000114331	ACAP2	5449.868455	-0.669710979	2.86E-13
ENSG00000168461	RAB31	2609.063742	-0.982042725	2.88E-13
ENSG00000164867	NOS3	42.98992382	-1.403873314	2.88E-13
ENSG00000116005	PCYOX1	523.0044111	-0.425920337	2.88E-13
ENSG00000054967	RELT	4452.765762	-0.81566839	2.88E-13
ENSG00000128309	MPST	319.0111354	-1.051062969	2.90E-13
ENSG00000168216	LMBRD1	1490.732567	-0.677466072	2.92E-13

ENSG00000067191	CACNB1	292.8741047	-0.595411909	2.97E-13
ENSG00000214756	CSKMT	229.9150147	1.413674896	2.98E-13
ENSG00000258890	CEP95	1537.343531	-0.688215265	3.00E-13
ENSG00000143190	POU2F1	1560.216941	-0.60049121	3.02E-13
ENSG00000127452	FBXL12	631.8788783	-0.502965287	3.04E-13
ENSG00000131686	CA6	49.96734893	1.551456267	3.07E-13
ENSG00000204406	MBD5	1906.869291	-0.540429926	3.10E-13
ENSG00000076003	MCM6	1279.514695	0.646486927	3.14E-13
ENSG00000142233	NTN5	37.30473481	-1.322767701	3.15E-13
ENSG00000168824	NSG1	230.2877508	-0.857834806	3.16E-13
ENSG00000272894	MIOS-DT	22.65255873	-1.573852848	3.19E-13
ENSG00000095002	MSH2	818.404193	0.37786177	3.22E-13
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ENSG00000163576	EFHB	32.69283672	1.108158072	3.29E-13
ENSG00000137331	IER3	9978.868221	2.439958769	3.30E-13
ENSG00000101104	PABPC1L	766.2053517	-0.494405004	3.31E-13
ENSG00000256427		42.38174053	-2.110683626	3.37E-13
ENSG00000146285	SCML4	2148.139205	-0.481043172	3.37E-13
ENSG00000149403	GRIK4	25.08074291	-2.735975771	3.45E-13
ENSG00000214063	TSPAN4	142.9932054	-1.477199972	3.49E-13
ENSG00000205085	GARIN1A	39.04854127	-1.48866157	3.50E-13
ENSG00000100321	SYNGR1	244.616551	-0.844041939	3.51E-13
ENSG00000253669	GASAL1	88.92125432	1.025602284	3.65E-13
ENSG00000110583	NAA40	708.4952382	-0.404567931	3.68E-13
ENSG00000164708	PGAM2	30.64485413	-1.448525592	3.70E-13
ENSG00000137075	RNF38	2018.4922	-0.458967624	3.70E-13
ENSG00000174130	TLR6	1884.496357	-1.047226008	3.75E-13
ENSG00000268734		573.1238993	1.466687514	3.76E-13
ENSG00000137054	POLR1E	592.1075228	0.462397789	3.77E-13
ENSG00000037897	METTL1	157.6454264	1.517021866	3.78E-13
ENSG00000115271	GCA	3329.851622	-1.712638127	4.02E-13
ENSG00000225830	ERCC6	1206.806647	-0.350035063	4.07E-13
ENSG00000163517	HDAC11	117.6673237	-1.15458573	4.08E-13
ENSG00000147526	TACC1	5812.485861	-0.445487715	4.13E-13
ENSG00000143452	HORMAD1	61.01303553	-1.362284021	4.18E-13
ENSG00000197961	ZNF121	1842.441638	0.377193322	4.18E-13
ENSG00000176049	JAKMIP2	677.8210537	1.422733439	4.18E-13
ENSG00000130755	GMFG	4514.38124	-0.718661536	4.22E-13
ENSG00000204397	CARD16	1061.370059	0.988157396	4.23E-13
ENSG00000102755	FLT1	772.0328127	2.879065076	4.25E-13
ENSG00000047644	WWC3	2288.785302	-0.61846827	4.27E-13
ENSG00000238231		24.90940029	1.368211863	4.27E-13
ENSG00000279954		29.12591164	-2.362932687	4.34E-13
ENSG00000105662	CRTC1	905.5849183	-0.649575811	4.34E-13
ENSG00000086061	DNAJA1	3250.140545	0.79942169	4.35E-13
ENSG00000178226	PRSS36	40.54182027	-1.371550813	4.35E-13
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ENSG00000268088		9.77386407	2.207448159	4.40E-13
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ENSG00000158467	AHCYL2	475.100313	-0.368302569	4.67E-13
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ENSG00000077147	TM9SF3	3824.519184	0.582973464	4.95E-13
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ENSG00000135093	USP30	300.7925289	-0.801009342	5.02E-13
ENSG00000136193	SCRN1	529.4155789	-0.903031226	5.04E-13
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ENSG00000108671	PSMD11	1462.192023	0.427582211	5.25E-13
ENSG00000224470	ATXN1L	2140.120689	-0.603970568	5.29E-13
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ENSG00000272269	NUP153-AS1	70.47096357	0.819260485	5.40E-13
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ENSG00000138613	APH1B	604.1753477	-0.521174435	6.27E-13
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ENSG00000131471	AOC3	120.6431945	-1.426024121	6.37E-13
ENSG00000166685	COG1	974.9281267	-0.439238753	6.41E-13
ENSG00000104859	CLASRP	1343.181855	-0.803864046	6.42E-13
ENSG00000196372	ASB13	210.7065464	-0.812843815	6.46E-13
ENSG00000135144	DTX1	150.6558496	-1.389416393	6.53E-13
ENSG00000064687	ABCA7	3955.594497	-0.848183883	6.56E-13
ENSG00000236519	LINC01424	25.24578461	1.273340374	6.58E-13
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ENSG000000011007	ELOA	1118.936071	0.504033257	6.67E-13
ENSG00000166484	MAPK7	549.5860657	-0.645941206	6.67E-13
ENSG00000259109		30.85566715	1.122583218	6.70E-13

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ENSG00000059377	TBXAS1	2693.035627	-1.22570469	6.74E-13
ENSG00000117298	ECE1	7011.338451	1.019314577	6.77E-13
ENSG00000254554	ADM-DT	152.5104613	1.444626402	6.83E-13
ENSG00000144115	THNSL2	98.37245141	-0.871254475	6.89E-13
ENSG00000272023	AFF4-DT	15.01545395	1.456713881	6.89E-13
ENSG00000130313	PGLS	980.2988308	-0.708312715	6.90E-13
ENSG00000177981	ASB8	1077.727558	-0.360614785	6.90E-13
ENSG00000142494	SLC47A1	16.01762303	-3.092885927	6.90E-13
ENSG00000090971	NAT14	89.54506978	-1.063173953	6.92E-13
ENSG00000260496		33.21663872	-1.448087918	6.94E-13
ENSG00000266698	MIR3945	54.08691526	2.454911204	6.95E-13
ENSG00000254087	LYN	15596.644	0.89344276	7.07E-13
ENSG00000259374	NDUFB4P11	42.4338869	2.113536962	7.21E-13
ENSG00000251369	ZNF550	640.4489709	0.545697452	7.21E-13
ENSG00000206199	ANKUB1	11.83587454	-3.216775434	7.26E-13
ENSG00000188419	CHM	808.0053873	0.50706568	7.34E-13
ENSG00000067840	PDZD4	457.4616505	-1.380682533	7.44E-13
ENSG00000159131	GART	1214.792698	0.67798469	7.48E-13
ENSG00000173212	MAB21L3	13.36024474	-2.130943763	7.54E-13
ENSG00000103043	VAC14	2200.10574	0.459825202	7.54E-13
ENSG00000100427	MLC1	111.386094	-1.5618622	7.57E-13
ENSG00000245869		36.5498751	-1.59635785	7.58E-13
ENSG00000106714	CNTNAP3	163.1014176	-3.336977923	7.58E-13
ENSG00000163357	DCST1	15.83447083	-3.015173487	7.65E-13
ENSG00000135373	EHF	14.73367085	2.167075768	7.69E-13
ENSG00000011275	RNF216	3049.476018	-0.253828487	7.75E-13
ENSG00000167996	FTH1	90377.62699	1.157414479	7.80E-13
ENSG00000260219	CD2BP2-DT	64.19001762	0.704685523	7.82E-13
ENSG00000220494	YAP1P1	14.61813721	-3.566053531	7.85E-13
ENSG00000180155	LYNX1	58.61293142	-1.869469212	7.92E-13
ENSG00000111602	TIMELESS	342.5451636	0.557158631	7.98E-13
ENSG00000099769	IGFALS	15.80276107	-2.928852249	8.02E-13
ENSG00000262877		43.90256531	-1.503016878	8.11E-13
ENSG00000159840	ZYX	5852.714526	-0.724970226	8.40E-13
ENSG00000159733	ZFYVE28	1580.412985	0.826859439	8.50E-13
ENSG00000139496	NUP58	2519.750913	0.738751928	8.52E-13
ENSG00000106367	AP1S1	185.0526478	-0.928187147	8.73E-13
ENSG00000065600	PACC1	473.2627613	0.769319986	8.76E-13
ENSG00000120262	CCDC170	96.31564709	-1.810296134	8.78E-13
ENSG00000103264	FBXO31	974.2834684	0.474637522	8.88E-13
ENSG00000170892	TSEN34	997.5890869	-1.358896737	8.89E-13
ENSG00000235066		9.695842133	3.172748541	8.99E-13
ENSG00000184992	BRI3BP	453.4651772	-0.66115342	9.04E-13
ENSG00000249859	PVT1	1028.347494	0.566339439	9.05E-13
ENSG00000225864		46.75639564	1.356086756	9.08E-13
ENSG00000170004	CHD3	6630.660029	-0.337595161	9.15E-13
ENSG00000163013	FBXO41	835.5463624	-0.589438059	9.17E-13
ENSG00000135931	ARMC9	104.5611903	1.134848479	9.28E-13
ENSG00000159674	SPON2	937.3933011	-1.130439841	9.52E-13

ENSG00000254827	SLC22A18AS	88.1737389	1.619299503	9.53E-13
ENSG00000278876		43.19997534	1.060318741	9.54E-13
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ENSG00000167094	TTC16	237.6021703	-1.350307139	9.68E-13
ENSG00000134152	KATNBL1	2345.830515	1.160552016	9.69E-13
ENSG00000174837	ADGRE1	1658.854264	1.384401241	9.80E-13
ENSG00000173208	ABCD2	609.6561199	-0.853038426	9.86E-13
ENSG00000040531	CTNS	539.2859713	0.792290145	9.88E-13
ENSG00000100364	KIAA0930	1780.472935	-0.993826913	9.88E-13
ENSG00000070444	MNT	1899.925411	-0.750983137	9.95E-13
ENSG00000037280	FLT4	297.307597	-0.667857612	9.95E-13
ENSG00000230438	SERPINB9P1	567.3066996	1.02692185	9.95E-13
ENSG00000168827	GFM1	1002.010884	0.374172355	9.95E-13
ENSG00000208028	MIR616	97.3677111	0.979109845	1.05E-12
ENSG00000278546		49.25239141	2.619545393	1.06E-12
ENSG00000138829	FBN2	70.1046148	-1.855653321	1.06E-12
ENSG00000266844		66.04077499	-0.973115203	1.06E-12
ENSG00000136875	PRPF4	793.0552097	0.681950188	1.06E-12
ENSG00000270393		16.42143449	-2.549631717	1.07E-12
ENSG00000183625	CCR3	443.5986173	-1.132443195	1.07E-12
ENSG00000279803		49.23156401	-1.034665529	1.08E-12
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ENSG00000261471		165.8092859	-1.165251146	1.09E-12
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ENSG00000167483	NIBAN3	883.6464977	-1.353568353	1.10E-12
ENSG00000162757	C1orf74	112.8280665	0.854838972	1.10E-12
ENSG00000206028		15.26367759	1.232800774	1.10E-12
ENSG00000154240	CEP112	81.68738654	1.396474779	1.10E-12
ENSG00000114650	SCAP	1952.887171	-0.490687439	1.11E-12
ENSG00000179958	DCTPP1	274.8776066	0.602724473	1.12E-12
ENSG00000171954	CYP4F22	20.20594778	-2.360513572	1.14E-12
ENSG00000151131	NOPCHAP1	471.3599112	0.790262801	1.15E-12
ENSG00000106524	ANKMY2	341.9470717	-0.506084728	1.15E-12
ENSG00000057294	PKP2	23.89438144	-1.753985916	1.16E-12
ENSG00000113532	ST8SIA4	3363.045079	-0.733923836	1.18E-12
ENSG00000171943	SRGAP2C	663.4842681	-0.51852943	1.19E-12
ENSG00000170619	COMMD5	968.5952642	0.458452092	1.19E-12
ENSG00000171097	KYAT1	227.3528716	-0.550134859	1.21E-12
ENSG00000165886	UBTD1	190.1204379	-1.143877786	1.23E-12
ENSG00000115998	C2orf42	472.8170874	0.506647406	1.25E-12
ENSG00000229882		5.780546107	3.880142962	1.26E-12
ENSG00000151835	SACS	2134.204198	0.463331799	1.28E-12
ENSG00000154822	PLCL2	2600.745064	-0.693038121	1.29E-12
ENSG00000083223	TUT7	5305.546327	-0.620255385	1.29E-12
ENSG00000185340	GAS2L1	144.131764	-1.783505273	1.29E-12
ENSG00000221739	MIR1203	27.32815286	-1.481617195	1.29E-12
ENSG00000163050	COQ8A	1069.514369	-0.898267629	1.30E-12
ENSG00000258919		39.87467639	1.454952909	1.30E-12
ENSG00000109270	LAMTOR3	1339.059812	0.732469571	1.31E-12
ENSG00000119900	OGFRL1	6457.233984	-0.973676596	1.32E-12
ENSG00000244232	RN7SL698P	55.03250041	1.326402532	1.33E-12

ENSG00000069943	PIGB	576.4585994	-0.81461964	1.33E-12
ENSG00000088876	ZNF343	245.6856095	0.794033875	1.34E-12
ENSG00000042493	CAPG	2126.362254	-0.844554606	1.34E-12
ENSG00000134107	BHLHE40	4714.065738	0.816224166	1.36E-12
ENSG00000259635		16.88525014	-2.145013869	1.36E-12
ENSG00000125149	PHAF1	515.158847	-0.397872998	1.38E-12
ENSG00000275714	H3C1	235.2616908	-1.423026428	1.38E-12
ENSG00000232811		29.90847577	-2.381042635	1.39E-12
ENSG00000154640	BTG3	591.7856851	0.73369664	1.39E-12
ENSG00000179715	PCED1B	1501.032556	0.559248972	1.39E-12
ENSG00000154229	PRKCA	1986.450648	-0.497641228	1.40E-12
ENSG00000178809	TRIM73	91.61104354	-1.086121911	1.41E-12
ENSG00000280161		60.55455471	0.890236004	1.41E-12
ENSG00000117859	OSBPL9	1439.805366	-0.583527328	1.41E-12
ENSG00000283078		52.5137171	1.131521142	1.41E-12
ENSG00000144357	UBR3	1981.915487	-0.427407409	1.42E-12
ENSG00000105397	TYK2	5710.066636	-0.486995825	1.45E-12
ENSG00000187189	TSPYL4	712.3926014	-0.425638649	1.46E-12
ENSG00000109113	RAB34	291.9144549	-0.893501268	1.47E-12
ENSG00000280587	LINC01348	41.04102917	2.414142618	1.47E-12
ENSG00000161328	LRRC56	105.1454227	-0.779018604	1.48E-12
ENSG00000182578	CSF1R	3104.862459	-1.309962716	1.49E-12
ENSG00000084110	HAL	667.4599493	-1.956914505	1.52E-12
ENSG00000260314	MRC1	257.8031805	2.092366581	1.52E-12
ENSG00000104324	CPQ	1293.020055	-0.943343186	1.53E-12
ENSG00000271699	SNX29P2	25.44987471	-1.465430985	1.58E-12
ENSG00000140259	MFAP1	563.5992001	0.859926947	1.60E-12
ENSG00000258056	CD63-AS1	112.0594615	0.832414894	1.61E-12
ENSG00000111640	GAPDH	12175.83458	-0.615882932	1.62E-12
ENSG00000180479	ZNF571	247.4148099	0.507735031	1.62E-12
ENSG00000177406	NINJ2-AS1	904.5283549	1.144123412	1.63E-12
ENSG00000001084	GCLC	968.2020942	0.565313997	1.66E-12
ENSG00000266256	LINC00683	6.466851523	-4.094159818	1.67E-12
ENSG00000113269	RNF130	3137.516614	-0.917652205	1.67E-12
ENSG00000214160	ALG3	375.9002609	0.4584186	1.67E-12
ENSG00000246548	LINC02288	22.01510614	-1.703459657	1.68E-12
ENSG00000146826	TRAPPC14	1487.107454	-0.48996916	1.68E-12
ENSG00000150540	HNMT	1115.989114	1.720860201	1.70E-12
ENSG00000165929	TC2N	5219.712098	0.389254222	1.71E-12
ENSG00000223573	TINCR	28.13353109	-1.842911787	1.73E-12
ENSG00000175137	SH3BP5L	1423.356564	-0.401356607	1.74E-12
ENSG00000234663	LINC01934	195.979241	-0.893566282	1.76E-12
ENSG00000131828	PDHA1	796.1759052	0.29146307	1.77E-12
ENSG00000079739	PGM1	499.6908236	-0.553188999	1.78E-12
ENSG00000185950	IRS2	3763.153856	-1.524750282	1.78E-12
ENSG00000106829	TLE4	3042.322684	-0.422357432	1.78E-12
ENSG00000102471	NDFIP2	177.5325163	1.322962959	1.80E-12
ENSG00000005812	FBXL3	2230.461515	-0.368570403	1.80E-12
ENSG00000159164	SV2A	84.99493867	-0.793988051	1.81E-12
ENSG00000266074	BAHCC1	90.84049471	-1.686899849	1.83E-12
ENSG00000118482	PHF3	5482.321421	-0.345591636	1.85E-12

ENSG00000111696	NT5DC3	275.2225727	0.834395693	1.86E-12
ENSG00000261286	ATP2C2-AS1	50.87235708	-1.341538415	1.90E-12
ENSG00000125648	SLC25A23	275.2664313	-0.874288499	1.96E-12
ENSG00000212719	LINC02693	128.2104718	0.936571104	1.98E-12
ENSG00000135452	TSPAN31	532.5305082	0.385511681	2.00E-12
ENSG00000111530	CAND1	2860.022893	0.347390538	2.00E-12
ENSG00000083444	PLOD1	550.5865723	-0.961021287	2.02E-12
ENSG00000184640	SEPTIN9	12760.32606	-0.319263086	2.03E-12
ENSG00000135090	TAOK3	2867.791786	-0.341230097	2.07E-12
ENSG00000180822	PSMG4	1280.398789	0.417248676	2.07E-12
ENSG00000156475	PPP2R2B	310.5378367	-1.356389675	2.09E-12
ENSG00000251450	RASGRF2-AS1	13.5524193	1.331195086	2.09E-12
ENSG00000259448	LINC02352	83.729028	-0.843759252	2.10E-12
ENSG00000122986	HVCN1	1022.044862	-0.653036758	2.11E-12
ENSG00000197165	SULT1A2	24.86346169	-1.698223546	2.14E-12
ENSG00000247092	SNHG10	178.1897714	0.562500366	2.15E-12
ENSG00000156697	UTP14A	515.4167419	0.650926188	2.15E-12
ENSG00000153250	RBMS1	3430.614444	-0.424340685	2.19E-12
ENSG00000119608	PROX2	16.65265473	-1.716222113	2.20E-12
ENSG00000196365	LONP1	1333.7923	0.388244016	2.21E-12
ENSG00000249667	LINC01259	97.52185684	-0.855538457	2.23E-12
ENSG00000101384	JAG1	877.7111176	1.473104332	2.23E-12
ENSG00000134910	STT3A	1281.310037	0.587685664	2.25E-12
ENSG00000132589	FLOT2	4721.134032	-0.814248553	2.27E-12
ENSG00000118690	ARMC2	166.4067656	-0.957963853	2.27E-12
ENSG00000149600	COMMD7	616.9428734	-0.539497879	2.30E-12
ENSG00000186193	SAPCD2	44.13994754	-1.767895639	2.31E-12
ENSG00000279853		19.05992176	-1.744372468	2.32E-12
ENSG00000163349	HIPK1	4859.140219	-0.49134491	2.34E-12
ENSG00000067829	IDH3G	862.4146174	-0.486122355	2.43E-12
ENSG00000013523	ANGEL1	1048.777716	0.326570965	2.49E-12
ENSG00000188313	PLSCR1	4203.921915	1.321638246	2.49E-12
ENSG00000090316	MAEA	3011.330673	0.562328521	2.50E-12
ENSG00000273387		22.27648779	1.154279923	2.53E-12
ENSG00000188649	CC2D2B	38.4256585	-1.561203058	2.55E-12
ENSG00000164556	FAM183BP	8.74007609	-3.44567896	2.57E-12
ENSG00000241769	EOLA1-DT	170.1572357	-0.692998958	2.58E-12
ENSG00000163462	TRIM46	103.4691238	-1.174445679	2.59E-12
ENSG00000125846	ZNF133	405.1506309	0.570772242	2.61E-12
ENSG00000076356	PLXNA2	303.1727728	-0.789782003	2.61E-12
ENSG00000172340	SUCLG2	1171.349709	-0.524588109	2.61E-12
ENSG00000169925	BRD3	1302.945884	-0.572659164	2.66E-12
ENSG00000141298	SSH2	8333.98437	-0.633709333	2.67E-12
ENSG00000244480		95.91940138	-0.71691225	2.71E-12
ENSG00000135127	BICDL1	1948.944605	1.187060429	2.74E-12
ENSG00000271303	SRXN1	262.1497677	1.062882075	2.75E-12
ENSG00000144120	TMEM177	182.349208	0.865371708	2.75E-12
ENSG00000172006	ZNF554	233.8256308	0.472577489	2.75E-12
ENSG00000185215	TNFAIP2	27802.81687	1.310894973	2.80E-12
ENSG00000272669		184.83579	0.899481335	2.83E-12
ENSG00000205885	C1RL-AS1	657.0261774	-0.604771297	2.84E-12

ENSG00000186376	ZNF75D	872.4142008	-0.298357126	2.84E-12
ENSG00000095015	MAP3K1	5537.053836	-0.782509919	2.85E-12
ENSG00000110987	BCL7A	284.9297437	-0.566492965	2.93E-12
ENSG00000213398	LCAT	120.9285474	-0.671256849	2.98E-12
ENSG00000069399	BCL3	3339.241027	0.860869626	3.00E-12
ENSG00000178338	ZNF354B	476.501091	0.637498632	3.02E-12
ENSG00000259151	CAP2P1	94.86942471	-1.001586247	3.03E-12
ENSG00000131236	CAP1	11815.15651	-0.534437036	3.06E-12
ENSG00000182472	CAPN12	86.11020151	-1.313817541	3.07E-12
ENSG00000140575	IQGAP1	11258.43289	-0.678418809	3.07E-12
ENSG00000188820	CALHM6	257.8507957	-1.881024589	3.10E-12
ENSG00000237436	CAMTA1-DT	27.2792032	1.278099769	3.15E-12
ENSG00000168806	LCMT2	419.6792846	0.543952329	3.18E-12
ENSG00000160999	SH2B2	939.1094598	0.938874609	3.19E-12
ENSG00000165704	HPRT1	388.9753303	0.485482098	3.21E-12
ENSG00000101079	NDRG3	738.1502299	-0.483716859	3.23E-12
ENSG00000249738		24.65047352	1.406350254	3.23E-12
ENSG00000242193	CRYZL2P	18.65963268	-2.828877793	3.26E-12
ENSG00000187122	SLIT1	58.13023514	-1.636355532	3.26E-12
ENSG00000132024	CC2D1A	678.9906567	-0.513294054	3.28E-12
ENSG00000167769	ACER1	17.08179176	-1.713738785	3.30E-12
ENSG00000152601	MBNL1	13649.18474	-0.505504284	3.32E-12
ENSG00000096968	JAK2	2618.159174	-0.855588975	3.33E-12
ENSG00000113657	DPYSL3	33.82182404	2.704912846	3.33E-12
ENSG00000105829	BET1	540.866857	0.645774139	3.34E-12
ENSG00000112406	HECA	6317.71304	-0.333090337	3.35E-12
ENSG00000152527	PLEKHH2	55.40151269	-1.326850262	3.37E-12
ENSG00000169756	LIMS1	4602.462011	1.094801437	3.41E-12
ENSG00000127903	ZNF835	71.36331853	0.958595661	3.41E-12
ENSG00000276255	LINC02809	292.2598687	1.124183905	3.42E-12
ENSG00000103257	SLC7A5	3588.742345	1.286077994	3.43E-12
ENSG00000181035	SLC25A42	561.9130035	-0.542820573	3.44E-12
ENSG00000214293	APTR	82.11398109	-0.724301754	3.44E-12
ENSG00000266507	MIR4479	27.07864471	1.109000803	3.47E-12
ENSG00000259097		23.31838699	-1.441966259	3.50E-12
ENSG00000164603	BMT2	829.5838015	0.622113571	3.56E-12
ENSG00000127528	KLF2	5265.208221	-0.785265366	3.57E-12
ENSG00000170089		241.3282155	-0.689368398	3.58E-12
ENSG00000213625	LEPROT	1515.03097	-0.47211387	3.61E-12
ENSG00000256937	KRT17P8	244.5095156	-1.493355867	3.61E-12
ENSG00000248727	LINC01948	36.10274611	-1.644032147	3.61E-12
ENSG00000169221	TBC1D10B	1815.243798	-0.390821742	3.65E-12
ENSG00000002586	CD99	2106.016948	-0.722834142	3.65E-12
ENSG00000225450		122.1604225	0.957761778	3.67E-12
ENSG00000174353	STAG3L3	686.820568	-0.447580583	3.68E-12
ENSG00000253552	HOXA-AS2	33.22066303	-1.478024018	3.68E-12
ENSG00000170873	MTSS1	2210.513061	-0.682874689	3.71E-12
ENSG00000240038	AMY2B	433.8286578	-0.601144558	3.73E-12
ENSG00000196511	TPK1	479.8079817	-0.631068404	3.73E-12
ENSG00000164951	PDP1	1055.140362	-0.615607403	3.74E-12
ENSG00000230562	FAM133DP	69.75317658	-1.579387066	3.75E-12

ENSG00000138698	RAP1GDS1	1033.479654	-0.313429191	3.76E-12
ENSG00000272079		53.4887256	-1.829664166	3.79E-12
ENSG00000007047	MARK4	866.419515	-0.365664322	3.80E-12
ENSG00000132436	FIGNL1	289.2962437	0.43773921	3.80E-12
ENSG00000163026	WDCP	284.875485	0.832726114	3.80E-12
ENSG00000227730	MTND6P5	34.16530436	-1.38169851	3.81E-12
ENSG00000059728	MXD1	16739.84696	1.071023575	3.85E-12
ENSG00000279982		29.37745329	-1.670486408	3.86E-12
ENSG00000138363	ATIC	726.2435174	0.473911534	3.86E-12
ENSG00000177337	DLGAP1-AS1	959.6933847	0.817492702	3.87E-12
ENSG00000187024	PTRH1	164.9628843	0.697515807	3.87E-12
ENSG00000185000	DGAT1	863.1338597	-0.665317294	3.93E-12
ENSG00000077549	CAPZB	5815.586672	-0.413250412	3.94E-12
ENSG00000158552	ZFAND2B	668.3786497	-0.466815495	4.03E-12
ENSG00000160223	ICOSLG	244.6624515	0.954737559	4.03E-12
ENSG00000135299	ANKRD6	242.4794001	-0.640664363	4.04E-12
ENSG00000167972	ABCA3	255.2646572	-0.843002422	4.08E-12
ENSG00000154174	TOMM70	1247.339643	0.460411082	4.11E-12
ENSG00000271806		9.315349966	-3.161231368	4.14E-12
ENSG00000105810	CDK6	1214.711283	-0.866525321	4.17E-12
ENSG00000116922	C1orf109	302.9354818	0.699677957	4.18E-12
ENSG00000163510	CWC22	1000.897955	0.682421863	4.25E-12
ENSG00000183484	GPR132	4432.035236	1.235606186	4.25E-12
ENSG00000168477	TNXB	194.457598	-0.7735415	4.28E-12
ENSG00000064547	LPAR2	1376.715651	-0.715597852	4.31E-12
ENSG00000159873	CCDC117	960.0536742	0.535947111	4.32E-12
ENSG00000228201		89.22716108	1.320289374	4.35E-12
ENSG00000175197	DDIT3	1315.755818	0.699795494	4.41E-12
ENSG00000124120	TTPAL	945.5708254	0.520187441	4.44E-12
ENSG00000186815	TPCN1	1626.822108	-0.640217825	4.45E-12
ENSG00000087008	ACOX3	690.0254081	0.472686221	4.46E-12
ENSG00000266993		48.11392448	-1.507344136	4.48E-12
ENSG00000275764		267.0135255	-0.640938495	4.48E-12
ENSG00000241106	HLA-DOB	174.4064696	-1.066964646	4.49E-12
ENSG00000134198	TSPAN2	329.8471276	-1.486127774	4.50E-12
ENSG00000101337	TM9SF4	2220.514672	0.653855348	4.58E-12
ENSG00000166965	RCCD1	180.9130712	0.524284499	4.58E-12
ENSG00000197992	CLEC9A	16.56870428	-2.787414916	4.60E-12
ENSG00000267508	ZNF285	72.28622982	0.81029849	4.64E-12
ENSG00000084676	NCOA1	3303.394254	-0.68682842	4.73E-12
ENSG00000280194		136.1101337	1.030732775	4.76E-12
ENSG00000176834	VSIG10	59.46726591	-1.384367671	4.79E-12
ENSG00000162929	SANBR	176.6864243	-0.60565554	4.98E-12
ENSG00000178498	DTX3	251.7428656	-1.017789263	5.01E-12
ENSG00000241525		138.4145264	1.123884325	5.03E-12
ENSG00000275437		181.6180532	-1.22730228	5.08E-12
ENSG00000232912	RERE-AS1	61.23872885	-1.167945405	5.08E-12
ENSG00000233369	GTF2IP4	670.0174926	-0.572817029	5.10E-12
ENSG00000206337	HCP5	5771.130125	0.871938125	5.11E-12
ENSG00000072736	NFATC3	3842.205594	-0.367077922	5.20E-12
ENSG00000104419	NDRG1	2631.792521	-0.503740287	5.25E-12

ENSG00000272505		42.75331449	-1.077961753	5.26E-12
ENSG00000233343	ATP6V1G1P4	30.8961989	1.444660203	5.26E-12
ENSG00000253368	TRNP1	13.2575899	-2.142925521	5.30E-12
ENSG00000150782	IL18	235.06586	1.157688249	5.31E-12
ENSG00000136717	BIN1	2584.261678	-0.379871836	5.32E-12
ENSG00000163346	PBXIP1	5810.685919	-0.414638522	5.49E-12
ENSG00000189164	ZNF527	271.5713841	0.531838196	5.51E-12
ENSG00000177666	PNPLA2	3198.765381	-0.73119894	5.54E-12
ENSG00000128268	MGAT3	91.99849442	-0.830735893	5.56E-12
ENSG00000215251	FASTKD5	721.6184897	-0.451479403	5.57E-12
ENSG00000135596	MICAL1	3217.261841	-0.467851806	5.60E-12
ENSG00000038210	PI4K2B	557.1465725	0.776397355	5.66E-12
ENSG00000125304	TM9SF2	3382.370862	-0.441362086	5.69E-12
ENSG00000196296	ATP2A1	33.36621947	-1.373938271	5.69E-12
ENSG00000225828	FAM229A	545.4212293	-0.466020458	5.73E-12
ENSG00000141622	RNF165	124.6149277	-1.727777216	5.73E-12
ENSG00000150403	TMCO3	1220.89221	-0.581456235	5.81E-12
ENSG00000207741	MIR590	136.4782707	-0.774543875	5.83E-12
ENSG00000104824	HNRNPL	4683.907924	-0.484869156	5.87E-12
ENSG00000160602	NEK8	199.3677334	0.457376352	5.91E-12
ENSG00000141378	PTRH2	363.9321919	0.579267489	5.95E-12
ENSG00000268170		15.71930582	-3.100560776	6.04E-12
ENSG00000272645	GTF2IP20	265.4853252	0.375654392	6.06E-12
ENSG00000204256	BRD2	9232.412893	0.258448219	6.09E-12
ENSG00000055483	USP36	3260.298807	0.584736816	6.09E-12
ENSG00000232022	FAAHP1	76.03067094	-1.049515574	6.11E-12
ENSG00000141027	NCOR1	5643.660959	-0.395592437	6.14E-12
ENSG00000267041	ZNF850	184.5559634	0.621244396	6.20E-12
ENSG00000204475	NCR3	102.4999908	-1.81868127	6.26E-12
ENSG00000136870	ZNF189	832.627877	0.6291451	6.30E-12
ENSG00000146232	NFKBIE	3441.494893	1.492688135	6.35E-12
ENSG00000163328	GPR155	1709.814264	0.642610769	6.44E-12
ENSG00000091732	ZC3HC1	313.3804352	0.502195868	6.50E-12
ENSG00000239636	TFAP2E-AS1	119.1681278	-1.055482771	6.50E-12
ENSG00000112655	PTK7	89.75172057	-0.769551677	6.51E-12
ENSG00000103423	DNAJA3	959.6621632	0.601206654	6.54E-12
ENSG00000236772		45.65274156	1.643672088	6.62E-12
ENSG00000099889	ARVCF	123.7670966	-1.352995631	6.64E-12
ENSG00000243244	STON1	85.57914705	-1.124356447	6.67E-12
ENSG00000188227	ZNF793	288.7521838	0.499822168	6.69E-12
ENSG00000165689	ENTR1	693.8337294	0.331809844	6.71E-12
ENSG00000155508	CNOT8	2378.186774	-0.39162918	6.71E-12
ENSG00000142784	WDTC1	3266.388089	-0.409874405	6.71E-12
ENSG00000085465	OVGP1	80.20437396	-1.675792509	6.72E-12
ENSG00000140470	ADAMTS17	194.0441246	1.137348632	6.82E-12
ENSG00000173715	C11orf80	191.8912997	-0.669740311	6.92E-12
ENSG00000197483	ZNF628	335.6073521	-0.996353776	6.98E-12
ENSG00000143226	FCGR2A	7999.102698	-1.166075415	7.04E-12
ENSG00000279633		15.9408395	1.484490034	7.08E-12
ENSG00000237950	LINC02918	32.26088232	1.018290698	7.10E-12
ENSG00000101224	CDC25B	2714.029947	-0.509573443	7.15E-12

ENSG00000130511	SSBP4	1088.133721	-0.805775143	7.17E-12
ENSG00000177963	RIC8A	1994.581228	-0.429073087	7.18E-12
ENSG00000199990	VTRNA1-1	10.90087514	1.972787623	7.28E-12
ENSG00000234043	NUDT9P1	43.7140484	1.165790923	7.28E-12
ENSG00000137996	RTCA	851.7571004	-0.307355545	7.30E-12
ENSG00000107937	GTPBP4	971.7927368	0.585651837	7.30E-12
ENSG00000065526	SPEN	5031.230384	-0.38074143	7.31E-12
ENSG00000177426	TGIF1	2043.427461	1.058649626	7.31E-12
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ENSG00000235531	MSC-AS1	167.4727579	1.22596345	7.36E-12
ENSG00000134369	NAV1	424.6673805	-0.769790476	7.36E-12
ENSG00000102781	KATNAL1	292.5195194	-0.67961804	7.41E-12
ENSG00000090621	PABPC4	3090.227483	0.311467025	7.41E-12
ENSG00000082516	GEMIN5	533.9554811	0.683511337	7.49E-12
ENSG00000205302	SNX2	1981.140783	-0.439436188	7.50E-12
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ENSG00000112029	FBXO5	244.3192279	0.586181593	7.71E-12
ENSG00000272646		22.11396551	1.495459477	7.71E-12
ENSG00000091640	SPAG7	565.6272369	0.458182379	7.79E-12
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ENSG00000198855	FICD	288.2921477	0.561688663	7.97E-12
ENSG00000259834		1311.497882	0.480228449	8.03E-12
ENSG00000070010	UFD1	1571.31656	-0.538730244	8.03E-12
ENSG00000151611	MMAA	228.3965865	0.468635427	8.03E-12
ENSG00000170322	NFRKB	1304.946471	-0.303598746	8.12E-12
ENSG00000102010	BMX	33.46855343	-2.965495548	8.14E-12
ENSG00000104814	MAP4K1	1295.535738	-0.724098457	8.39E-12
ENSG00000198440	ZNF583	196.6748927	1.031992264	8.49E-12
ENSG00000215769	AP27P1-BPTFP1-KP	346.728283	-0.502006648	8.54E-12
ENSG00000205022	PABPN1L	23.38005205	-2.80159665	8.66E-12
ENSG00000068650	ATP11A	3852.823754	-0.588168947	8.79E-12
ENSG00000163449	TMEM169	69.77850088	-0.777439167	8.92E-12
ENSG00000163933	RFT1	764.3585944	0.366607389	8.95E-12
ENSG00000235321		15.07962607	-2.84617441	9.00E-12
ENSG00000128524	ATP6V1F	1759.397205	0.789000965	9.01E-12
ENSG00000161265	U2AF1L4	168.2848325	-0.840672939	9.35E-12
ENSG00000105617	LENG1	235.8321079	-0.64298263	9.35E-12
ENSG00000085514	PILRA	4255.239679	1.043941053	9.46E-12
ENSG00000140612	SEC11A	1408.811859	-0.301357632	9.48E-12
ENSG00000177688	SUMO4	255.9813045	0.823991718	9.58E-12
ENSG00000122435	TRMT13	682.5104336	0.579157011	9.63E-12
ENSG00000115267	IFIH1	4395.345659	1.445784847	9.64E-12
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ENSG00000163687	DNASE1L3	26.71717985	1.482430951	1.01E-11
ENSG00000183011	NAA38	294.5830032	-0.615940531	1.01E-11
ENSG00000104973	MED25	2019.253704	-0.747631752	1.01E-11
ENSG00000104442	ARMC1	566.4548364	0.327592819	1.01E-11

ENSG00000119138	KLF9	1287.028986	-1.187186869	1.02E-11
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ENSG00000164111	ANXA5	5514.388659	1.373172424	1.02E-11
ENSG00000162946	DISC1	469.3434121	-1.58776043	1.03E-11
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ENSG00000154734	ADAMTS1	38.59484198	-2.139107003	1.05E-11
ENSG00000137575	SDCBP	14740.72389	0.866168839	1.06E-11
ENSG00000065883	CDK13	3518.100917	-0.250229287	1.08E-11
ENSG00000231327	LINC01816	24.45078424	1.335477041	1.08E-11
ENSG00000176142	TMEM39A	958.29752	0.399341316	1.08E-11
ENSG00000142549	IGLON5	13.51064688	3.042861236	1.09E-11
ENSG00000186272	ZNF17	343.3337985	0.649977087	1.09E-11
ENSG00000112773	TENT5A	989.2960487	-0.854333015	1.10E-11
ENSG00000177119	ANO6	1406.01683	-0.625071577	1.10E-11
ENSG00000182600	SNORC	67.37534337	-0.92641364	1.10E-11
ENSG00000183624	HMCES	803.9171606	-0.431556419	1.11E-11
ENSG00000258539		231.0879637	-0.723615463	1.11E-11
ENSG00000258297		301.0955645	-0.902960128	1.12E-11
ENSG00000113013	HSPA9	3170.307315	0.350317218	1.12E-11
ENSG00000036549	ZZZ3	1450.154572	0.308008814	1.12E-11
ENSG00000230724	LINC01001	301.2391617	-1.406708973	1.15E-11
ENSG00000165669	FAM204A	1241.583039	-0.299906842	1.15E-11
ENSG00000223949	ROR1-AS1	8.412841912	3.609133207	1.15E-11
ENSG00000281852	LINC00891	23.02771059	-1.322262372	1.16E-11
ENSG00000114491	UMPS	690.1491511	0.371124795	1.16E-11
ENSG00000272839		15.64162646	-2.341442845	1.17E-11
ENSG00000196576	PLXNB2	1929.889079	-0.878844866	1.17E-11
ENSG00000172725	CORO1B	1541.419236	-0.689535005	1.19E-11
ENSG00000163162	RNF149	9151.140355	-0.71392623	1.20E-11
ENSG00000166446	CDYL2	675.2522197	0.506188648	1.21E-11
ENSG00000068305	MEF2A	1664.077844	-0.490675694	1.22E-11
ENSG00000040341	STAU2	932.2532497	-0.37722076	1.22E-11
ENSG00000175073	VCPIP1	4045.073724	-0.511917433	1.23E-11
ENSG00000235183	SRP14P3	63.76656193	-1.011512933	1.23E-11
ENSG00000127824	TUBA4A	1828.202532	-0.803838921	1.23E-11
ENSG00000093183	SEC22C	1029.558089	-0.316066432	1.24E-11
ENSG00000237886	NALT1	57.35449645	-1.11905591	1.24E-11
ENSG00000078808	SDF4	2967.926053	0.475704033	1.24E-11
ENSG00000266677		60.41929044	-1.337711113	1.24E-11
ENSG00000108405	P2RX1	1435.244251	-0.975077425	1.26E-11
ENSG00000261236	BOP1	546.0932864	0.965370401	1.26E-11
ENSG00000149932	TMEM219	703.6010593	-0.755528536	1.28E-11
ENSG00000249471	ZNF324B	239.4186067	0.77506228	1.28E-11
ENSG00000164163	ABCE1	1693.680699	0.615893754	1.30E-11
ENSG00000167085	PHB1	1161.42773	0.600806088	1.31E-11
ENSG00000115568	ZNF142	1282.821557	0.33351161	1.32E-11
ENSG00000204345	CD300LD	9.537404043	-3.035974433	1.32E-11
ENSG00000229989	MIR181A1HG	196.4471577	-0.729417537	1.33E-11
ENSG00000134851	TMEM165	2617.693327	0.600399582	1.34E-11
ENSG00000171621	SPSB1	277.6196091	1.393942236	1.34E-11
ENSG00000112640	PPP2R5D	618.2610077	-0.358163234	1.35E-11

ENSG00000188739	RBM34	133.8910034	-0.999596878	1.35E-11
ENSG00000177728	TMEM94	1337.97611	-0.442691003	1.37E-11
ENSG00000128915	ICE2	1657.236151	0.324050059	1.39E-11
ENSG00000171992	SYNPO	136.4515627	-1.201716324	1.39E-11
ENSG00000076984	MAP2K7	1608.077145	-0.449060604	1.40E-11
ENSG00000256533		29.7576395	1.692450331	1.40E-11
ENSG00000277117		221.0695441	0.933992247	1.41E-11
ENSG00000186354		82.71224783	-1.640592103	1.41E-11
ENSG00000261971	MMP25-AS1	624.9263806	-0.784020005	1.41E-11
ENSG00000267765		35.98811055	-1.023769954	1.43E-11
ENSG00000104714	ERICH1	1667.481128	-0.558856108	1.45E-11
ENSG00000081692	JMJD4	917.887882	0.505761261	1.46E-11
ENSG00000215529	EFCAB8	104.8139616	-0.769994367	1.46E-11
ENSG00000066583	ISOC1	258.8470023	0.4139081	1.49E-11
ENSG00000185946	RNPC3	1317.87194	-0.420465577	1.50E-11
ENSG00000145990	GFOD1	805.1507812	-0.8910943	1.51E-11
ENSG00000108389	MTMR4	1545.332539	-0.402287775	1.52E-11
ENSG00000106004	HOXA5	15.42566221	-2.164527338	1.52E-11
ENSG00000171448	ZBTB26	449.3101165	0.402941743	1.52E-11
ENSG00000126016	AMOT	75.18087328	-0.879866786	1.54E-11
ENSG00000261131		32.75785661	-1.247139804	1.55E-11
ENSG00000141543	EIF4A3	1168.537681	0.42040522	1.57E-11
ENSG00000089169	RPH3A	30.15825469	-3.90536903	1.58E-11
ENSG00000170837	GPR27	123.3793861	-2.332138213	1.58E-11
ENSG00000137070	IL11RA	1002.292042	-0.77653458	1.60E-11
ENSG00000162241	SLC25A45	957.8569026	-0.62801839	1.60E-11
ENSG00000145012	LPP	2969.927606	-0.935399731	1.62E-11
ENSG00000126602	TRAP1	967.7077013	0.395055314	1.62E-11
ENSG00000272853	SUV39H2-DT	44.28563132	1.080322478	1.62E-11
ENSG00000145414	NAF1	613.6565865	0.30247479	1.62E-11
ENSG00000185880	TRIM69	1870.232832	0.93732028	1.63E-11
ENSG00000072818	ACAP1	3841.548206	-0.884289446	1.63E-11
ENSG00000088538	DOCK3	178.2913996	-0.936524944	1.63E-11
ENSG00000144736	SHQ1	481.9160855	0.447700048	1.65E-11
ENSG00000267002		494.3640628	0.69984865	1.65E-11
ENSG00000110203	FOLR3	151.5013171	-1.853414253	1.70E-11
ENSG00000011243	AKAP8L	1872.89746	-0.350059404	1.72E-11
ENSG00000047621	C12orf4	564.5509258	0.471597784	1.73E-11
ENSG00000165055	METTL2B	507.8728185	0.461179768	1.74E-11
ENSG00000182796	TMEM198B	372.027341	-0.722234878	1.75E-11
ENSG00000198771	RCS1	5826.378683	-0.495073663	1.77E-11
ENSG00000164086	DUSP7	769.4360504	-0.44957232	1.78E-11
ENSG00000147394	ZNF185	504.3034755	-1.601271268	1.79E-11
ENSG00000065559	MAP2K4	1210.566248	-0.431451703	1.79E-11
ENSG00000162676	GFI1	937.7787824	0.678201126	1.81E-11
ENSG00000072210	ALDH3A2	730.7279488	-0.55077275	1.82E-11
ENSG00000234617	SNRK-AS1	17.3539832	-1.907730994	1.85E-11
ENSG00000108788	MLX	1181.327191	-0.343831878	1.91E-11
ENSG00000273221		313.0207248	0.630030492	1.91E-11
ENSG00000108423	TUBD1	376.5124198	0.531706574	1.92E-11
ENSG00000272529		144.0499845	-0.878814119	1.92E-11

ENSG00000139718	SETD1B	4424.486193	-0.44331522	1.93E-11
ENSG00000162616	DNAJB4	322.819319	0.795160197	1.93E-11
ENSG00000100365	NCF4	2619.964687	-1.060661344	1.94E-11
ENSG00000160703	NLRX1	410.5511223	-0.787658439	1.94E-11
ENSG00000155367	PPM1J	16.04325289	-1.828750916	1.94E-11
ENSG00000280037		128.9266346	-0.687561643	1.95E-11
ENSG00000185347	TEDC1	328.8101939	-0.680031884	1.99E-11
ENSG00000246363	LINC02458	22.88321294	-1.478913263	1.99E-11
ENSG00000214067		58.16111914	-1.028711342	2.00E-11
ENSG00000240729		58.41784172	-1.134299862	2.03E-11
ENSG00000133063	CHIT1	349.3485842	1.004313591	2.04E-11
ENSG00000145740	SLC30A5	896.9609358	0.430026793	2.04E-11
ENSG00000235453	SMIM27	87.72616529	-0.864148584	2.04E-11
ENSG00000182831	C16orf72	5241.590011	-0.508103049	2.04E-11
ENSG00000196670	ZFP62	1044.200302	0.588148136	2.07E-11
ENSG00000249825	THBS4-AS1	217.2575133	-0.66019525	2.08E-11
ENSG00000164134	NAA15	1849.571395	0.39295087	2.13E-11
ENSG00000162543	UBXN10	34.04814785	-1.716060866	2.14E-11
ENSG00000100401	RANGAP1	2289.070239	0.617968506	2.15E-11
ENSG00000143924	EML4	8799.241688	0.891750979	2.16E-11
ENSG00000214135	SDHAP4	801.4810141	-0.287634301	2.16E-11
ENSG00000237772	LINC02631	28.55035253	-1.733713208	2.16E-11
ENSG0000022267	FHL1	237.7106533	-0.994465768	2.17E-11
ENSG00000280378		101.9741778	-0.652082289	2.18E-11
ENSG00000052749	RRP12	1310.868205	-0.948414119	2.19E-11
ENSG00000115204	MPV17	789.7781611	0.274631649	2.24E-11
ENSG00000185515	BRCC3	440.9676631	-0.432218323	2.24E-11
ENSG00000119121	TRPM6	355.8036132	-1.872734823	2.24E-11
ENSG00000000457	SCYL3	891.2154493	0.396655427	2.25E-11
ENSG00000107938	EDRF1	1327.2568	-0.281664828	2.26E-11
ENSG00000152147	GEMIN6	177.7940054	0.741943616	2.26E-11
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ENSG00000108465	CDK5RAP3	2098.24183	-0.610937688	2.29E-11
ENSG00000078269	SYNJ2	1351.952066	0.923191775	2.30E-11
ENSG00000238045	MVP-DT	143.4445566	0.797134591	2.32E-11
ENSG00000104885	DOT1L	3082.364251	1.222186964	2.33E-11
ENSG00000213906	LTB4R2	294.2445727	-0.616191663	2.35E-11
ENSG00000206561	COLQ	173.0466676	-1.400359713	2.37E-11
ENSG00000185442	FAM174B	185.7965368	0.858095222	2.38E-11
ENSG00000140993	TIGD7	378.1374811	0.774149165	2.40E-11
ENSG00000149294	NCAM1	207.8248933	-1.241535605	2.42E-11
ENSG00000196411	EPHB4	202.3077705	-1.324242569	2.43E-11
ENSG00000142102	PGGHG	5853.178025	-0.979737672	2.48E-11
ENSG000000004975	DVL2	941.7264839	0.341468857	2.53E-11
ENSG00000171617	ENC1	691.9434807	-1.09572816	2.55E-11
ENSG00000182541	LIMK2	9183.387709	1.144834268	2.55E-11
ENSG00000232653	GOLGA8N	165.3842352	-0.90893097	2.56E-11
ENSG00000260727	SLC7A5P1	182.0702029	0.635284015	2.59E-11
ENSG00000131480	AOC2	240.4953446	-0.901725798	2.59E-11
ENSG00000138621	PPCDC	2625.875659	0.777652953	2.61E-11
ENSG00000164032	H2AZ1	1303.741679	-0.658608672	2.62E-11

ENSG00000072310	SREBF1	2202.652025	0.401114506	2.62E-11
ENSG00000126804	ZBTB1	4072.169678	0.411950221	2.62E-11
ENSG00000157388	CACNA1D	49.72558222	-1.377166574	2.62E-11
ENSG00000279649		130.6914018	-0.738672321	2.63E-11
ENSG00000171101	SIGLEC17P	47.40240586	-1.6839757	2.65E-11
ENSG00000011132	APBA3	1288.214984	0.615794818	2.69E-11
ENSG00000268240		217.6056825	1.681052813	2.69E-11
ENSG00000055118	KCNH2	82.04579892	-0.906161392	2.69E-11
ENSG00000164506	STXBP5	2807.865638	-0.519064621	2.70E-11
ENSG00000186567	CEACAM19	33.43943434	-1.178632213	2.70E-11
ENSG00000281207	SLFN1-AS1	310.0842378	0.61741243	2.71E-11
ENSG00000099992	TBC1D10A	1219.395247	-0.336607039	2.73E-11
ENSG00000106305	AIMP2	256.8578388	0.757622365	2.74E-11
ENSG00000197498	RPF2	368.6480849	1.208862218	2.74E-11
ENSG00000139131	YARS2	457.5085655	0.408890867	2.85E-11
ENSG00000170191	NANP	114.3659388	0.600173941	2.86E-11
ENSG00000080546	SESN1	1106.296864	-0.45119165	2.86E-11
ENSG00000170035	UBE2E3	721.8465939	-0.395521129	2.86E-11
ENSG00000143061	IGSF3	36.33925561	2.009914189	2.86E-11
ENSG00000103056	SMPD3	305.0618086	-1.379896514	2.95E-11
ENSG00000161944	ASGR2	81.96206661	-3.046749839	2.95E-11
ENSG00000170456	DENND5B	229.6393183	-0.719842605	2.98E-11
ENSG00000155974	GRIP1	13.69993078	-1.848780651	2.99E-11
ENSG00000135205	CCDC146	392.0876385	-0.550691131	3.00E-11
ENSG00000129911	KLF16	756.855137	-0.728875602	3.01E-11
ENSG00000126561	STAT5A	4335.497701	0.671287689	3.01E-11
ENSG00000081189	MEF2C	1512.764154	-0.596097806	3.01E-11
ENSG00000110455	ACCS	797.4449096	-0.639748107	3.05E-11
ENSG00000102125	TAFAZZIN	1050.26572	-0.523734294	3.05E-11
ENSG00000051382	PIK3CB	1573.817571	-0.375591414	3.06E-11
ENSG00000198270	TMEM116	483.6328749	-0.40286548	3.07E-11
ENSG00000250687	NAIPP1	34.23047763	-1.894908216	3.08E-11
ENSG00000170632	ARMC10	536.5137903	0.345979012	3.08E-11
ENSG00000275438		18.27779683	-2.12376422	3.09E-11
ENSG00000116871	MAP7D1	5290.070057	-0.496560021	3.09E-11
ENSG00000112053	SLC26A8	58.85868162	-2.347042577	3.12E-11
ENSG00000168476	REEP4	505.2667626	-0.620541675	3.12E-11
ENSG00000276097		17.72095275	-1.517628382	3.17E-11
ENSG00000160007	ARHGAP35	2290.314252	-0.286515936	3.20E-11
ENSG00000167612	ANKRD33	16.64615024	3.0270507	3.28E-11
ENSG00000143067	ZNF697	476.2224496	1.621525481	3.29E-11
ENSG00000100106	TRIOBP	2154.486328	-0.456715711	3.30E-11
ENSG00000260997		183.9928264	-1.321385144	3.31E-11
ENSG00000180354	MTURN	1164.118971	-0.831185551	3.33E-11
ENSG00000135218	CD36	2870.619962	-1.217298897	3.33E-11
ENSG00000168066	SF1	8631.061271	-0.466227232	3.36E-11
ENSG00000272677	HNRNPD-DT	56.16105557	-0.858857493	3.36E-11
ENSG00000175841	FAM172BP	38.36700011	1.561277588	3.40E-11
ENSG00000090674	MCOLN1	1581.033809	0.916323819	3.42E-11
ENSG00000277161	PIGW	117.6857152	0.661500033	3.42E-11
ENSG00000254295		37.11799141	-1.234799484	3.47E-11

ENSG00000012660	ELOVL5	3499.639831	-0.464048353	3.47E-11
ENSG00000163444	TMEM183A	1360.150636	-0.510584517	3.47E-11
ENSG00000101439	CST3	2432.6579	-1.207514634	3.48E-11
ENSG00000063169	BICRA	697.0779802	-0.608864338	3.53E-11
ENSG00000278986		52.72568537	-0.853914452	3.53E-11
ENSG00000280205		114.4488865	-1.139932814	3.54E-11
ENSG00000072195	SPEG	267.1511739	-0.631179983	3.56E-11
ENSG00000131788	PIAS3	472.6224888	-0.508772882	3.58E-11
ENSG00000161048	NAPEPLD	406.0342236	0.600103022	3.58E-11
ENSG00000005884	ITGA3	181.7977133	0.637130243	3.61E-11
ENSG00000107554	DNMBP	631.3530679	-0.55247892	3.61E-11
ENSG00000235706	DICER1-AS1	91.17783684	-0.772247034	3.64E-11
ENSG00000105048	TNNT1	13.32067732	-3.426677971	3.66E-11
ENSG00000146281	PM20D2	491.7046407	0.398897868	3.67E-11
ENSG00000248049	UBA6-DT	299.8108892	0.460703991	3.70E-11
ENSG00000100994	PYGB	1555.666726	-0.331217811	3.74E-11
ENSG00000228768	MIR365BHG	45.8206759	2.64145837	3.78E-11
ENSG00000161791	FMNL3	7802.143325	1.65792751	3.80E-11
ENSG00000048828	FAM120A	4700.602137	-0.295999939	3.81E-11
ENSG00000252906	SCARNA3	74.09823615	-0.883471308	3.82E-11
ENSG00000255097		93.12518097	1.281510732	3.84E-11
ENSG00000271582		20.60265432	1.233448643	3.87E-11
ENSG00000198286	CARD11	2367.218189	-0.540295169	3.96E-11
ENSG00000162482	AKR7A3	21.28994225	-1.445118549	3.97E-11
ENSG00000165121		393.3640493	0.500989786	3.98E-11
ENSG00000147912	FBXO10	167.5611209	0.964153791	4.08E-11
ENSG00000090487	SPG21	2540.999978	0.770910167	4.16E-11
ENSG00000186660	ZFP91	1135.196847	-0.426963632	4.19E-11
ENSG00000115875	SRSF7	3528.278156	0.328165836	4.22E-11
ENSG00000237489	C10orf143	143.5149329	0.529378359	4.29E-11
ENSG00000114923	SLC4A3	10.52216335	-2.7229146	4.35E-11
ENSG00000231074	HCG18	3157.705999	0.701789386	4.36E-11
ENSG00000271964		265.8910942	-0.601265082	4.40E-11
ENSG00000091542	ALKBH5	2649.794105	-0.337104321	4.41E-11
ENSG00000115839	RAB3GAP1	1946.199106	0.516080568	4.42E-11
ENSG00000259703		9.208118147	-3.534131967	4.48E-11
ENSG00000263528	IKBKE	2276.665081	0.880711815	4.48E-11
ENSG00000155659	VSIG4	341.5501523	-2.905461311	4.48E-11
ENSG00000170364	SETMAR	211.5005583	0.41266794	4.49E-11
ENSG00000186765	FSCN2	21.66063272	-1.762374781	4.50E-11
ENSG00000080503	SMARCA2	6076.506607	-0.47968098	4.51E-11
ENSG00000166192	SENPA8	32.17349217	1.148658324	4.55E-11
ENSG00000257103	LSM14A	2707.673562	-0.312431148	4.56E-11
ENSG00000116830	TTF2	670.0053079	0.399223715	4.60E-11
ENSG00000100567	PSMA3	1199.98122	0.475715859	4.63E-11
ENSG00000134590	RTL8C	166.323592	-0.52145991	4.63E-11
ENSG00000135720	DYNC1L12	2231.617738	-0.261620622	4.63E-11
ENSG00000134986	NREP	141.219686	-0.698756296	4.63E-11
ENSG00000101407	TTI1	984.6091038	0.457810591	4.63E-11
ENSG00000259719	LINC02284	61.3425895	-1.432679902	4.68E-11
ENSG00000214176	PLEKHM1P1	4317.719384	-0.403815174	4.71E-11

ENSG00000161860	SYCE2	10.86815297	-2.577410744	4.72E-11
ENSG00000150787	PTS	407.9593147	-0.792044654	4.74E-11
ENSG00000253123		18.49920742	2.043423273	4.75E-11
ENSG00000226648	PLCG1-AS1	19.45186903	-1.352402794	4.80E-11
ENSG00000234160		94.22785406	0.811993405	4.86E-11
ENSG00000249709	ZNF564	221.123213	-0.469654936	4.87E-11
ENSG00000100276	RASL10A	20.83386973	1.088939639	4.87E-11
ENSG00000137831	UACA	56.62698494	-1.611319881	4.93E-11
ENSG00000259422		12.52730892	-2.096484405	5.06E-11
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ENSG00000284052		191.3444167	1.198187431	5.08E-11
ENSG00000147162	OGT	13999.49482	-0.41551949	5.10E-11
ENSG00000167925	GHDC	486.8893465	-0.737370627	5.17E-11
ENSG00000111261	MANSC1	189.8269145	-1.63198662	5.20E-11
ENSG00000143674	MAP3K21	89.10860419	-0.677425694	5.25E-11
ENSG00000172264	MACROD2	34.44799935	-1.914850976	5.30E-11
ENSG00000235834		16.5098951	-3.602562449	5.31E-11
ENSG00000108840	HDAC5	2373.347568	-0.581052049	5.32E-11
ENSG00000162390	ACOT11	70.56252231	-0.857686299	5.32E-11
ENSG00000166126	AMN	122.1319282	0.613015002	5.35E-11
ENSG00000253641	LINC03022	38.548734	-1.183044451	5.41E-11
ENSG00000186106	ANKRD46	537.9716041	0.393061346	5.45E-11
ENSG00000135636	DYSF	3607.564683	-1.634679322	5.50E-11
ENSG00000162664	ZNF326	1149.905018	-0.545054355	5.53E-11
ENSG00000063601	MTMR1	1249.542247	-0.665831466	5.54E-11
ENSG00000085231	AK6	148.6884667	0.901307492	5.82E-11
ENSG00000107882	SUFU	681.2388687	-0.311459908	5.90E-11
ENSG00000073910	FRY	1943.011888	-1.15948197	5.95E-11
ENSG00000138095	LRPPRC	2289.127317	0.3070409	5.98E-11
ENSG00000250548	LINC01303	344.9938588	1.026158143	5.99E-11
ENSG00000102547	CAB39L	221.8052246	0.591817895	6.12E-11
ENSG00000165905	LARGE2	111.1419379	-1.013627946	6.14E-11
ENSG00000136286	MYO1G	5673.392625	-1.021488094	6.16E-11
ENSG00000010165	METTL13	710.8757974	0.707426585	6.17E-11
ENSG00000269688		220.7040802	-0.996927268	6.25E-11
ENSG00000170522	ELOVL6	107.6354687	-1.375479117	6.25E-11
ENSG00000204277	LINC01993	13.92492104	1.752473108	6.28E-11
ENSG00000101350	KIF3B	1286.861757	0.874769638	6.35E-11
ENSG00000116138	DNAJC16	836.7645346	0.330411151	6.41E-11
ENSG00000159128	IFNGR2	6011.485259	1.345023786	6.51E-11
ENSG00000089041	P2RX7	2270.858687	1.464784395	6.52E-11
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ENSG00000130881	LRP3	73.52839796	-1.59640229	6.53E-11
ENSG00000167114	SLC27A4	407.4668441	0.442337924	6.55E-11
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ENSG00000130024	PHF10	2112.019573	0.292843723	6.65E-11
ENSG00000089048	ESF1	374.3069472	0.778631599	6.69E-11
ENSG00000137168	PPIL1	225.1304972	0.99213221	6.69E-11
ENSG00000177613	CSTF2T	1608.337925	0.434559323	6.70E-11
ENSG00000243179		72.64403928	0.95591748	6.74E-11
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ENSG00000267534	S1PR2	351.6710657	1.066984256	6.78E-11
ENSG00000189046	ALKBH2	108.8782896	0.629767302	6.84E-11
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ENSG00000218052	ADAMTS7P4	36.70429474	-0.969105782	7.05E-11
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ENSG00000187446	CHP1	1620.568358	-0.512808642	7.23E-11
ENSG00000167842	MIS12	772.2075605	0.48914653	7.24E-11
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ENSG00000091181	IL5RA	180.8496145	-1.17706069	7.50E-11
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ENSG00000274508		31.70481113	3.685924266	8.13E-11
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ENSG00000207550	MIR99B	45.32952299	1.827803203	8.30E-11
ENSG00000258376	PAPLN-AS1	20.78441842	-1.630713244	8.30E-11
ENSG00000254979		13.28781049	2.012409169	8.37E-11
ENSG00000028277	POU2F2	2630.809562	0.543641221	8.40E-11
ENSG00000183662	TAF1	23.21261561	-2.30740108	8.42E-11
ENSG00000206053	JPT2	665.87014	0.713619905	8.45E-11
ENSG00000172780	RAB43	370.8166917	-0.88792415	8.46E-11
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ENSG00000092208	GEMIN2	157.9248355	0.568366465	8.82E-11
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ENSG00000104695	PPP2CB	684.0358032	0.747305939	8.93E-11
ENSG00000276568		29.01230072	1.651478617	9.05E-11
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ENSG00000259431	THTPA	281.2481821	0.527742201	9.22E-11
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ENSG00000166750	SLFN5	9389.403074	0.619868617	9.25E-11
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ENSG00000090061	CCNK	2191.503121	-0.472715679	9.25E-11
ENSG00000112818	MEP1A	8.731654397	2.418715209	9.29E-11
ENSG00000143198	MGST3	735.8923735	-0.495946548	9.29E-11
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ENSG00000129518	EAPP	815.0723497	-0.736869083	9.41E-11
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ENSG00000231964		25.86794362	-1.262956371	1.05E-10
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ENSG00000225791	TRAM2-AS1	43.38557602	-0.966134156	1.09E-10
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ENSG00000104921	FCER2	249.002321	-1.408252633	1.11E-10
ENSG00000196150	ZNF250	687.8221126	0.452184963	1.12E-10
ENSG00000239732	TLR9	35.63925849	-1.602343841	1.13E-10
ENSG00000145431	PDGFC	96.63854213	-1.239958388	1.13E-10
ENSG00000137500	CCDC90B	965.2446387	0.372204391	1.16E-10
ENSG00000172602	RND1	31.25594866	1.090841231	1.17E-10
ENSG00000130779	CLIP1	2537.075291	-0.475979617	1.17E-10
ENSG00000140365	COMMD4	476.8025135	0.608122318	1.18E-10
ENSG00000182934	SRPRA	3347.041452	0.35945719	1.18E-10
ENSG00000252414	RNU6-100P	32.38493995	1.178487288	1.20E-10
ENSG00000128654	MTX2	196.0859621	0.492922227	1.20E-10
ENSG00000197989	SNHG12	637.6054374	0.588836402	1.20E-10
ENSG00000113448	PDE4D	3255.578459	0.636146056	1.21E-10
ENSG00000183208	GDPGP1	318.6219423	0.664644408	1.21E-10
ENSG00000064102	INTS13	432.6585704	0.401301363	1.22E-10
ENSG00000198053	SIRPA	10181.07312	1.266077608	1.22E-10
ENSG00000132623	ANKEF1	156.1898033	0.547357412	1.23E-10
ENSG00000267265	GP6-AS1	224.1803539	0.604353356	1.23E-10
ENSG00000258597	SERPINA2	13.68128839	2.373991769	1.25E-10
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ENSG00000235499		253.6253617	0.677218288	1.31E-10
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ENSG00000128242	GAL3ST1	15.17930901	1.367693285	1.39E-10
ENSG00000169016	E2F6	285.6409064	0.73217215	1.39E-10
ENSG00000232470		15.94074553	1.565795651	1.41E-10
ENSG00000112062	MAPK14	3555.251915	-0.636910974	1.42E-10
ENSG00000134313	KIDINS220	2942.929382	-0.350041012	1.43E-10
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ENSG00000167608	TMC4	39.78112528	-1.220245474	1.48E-10
ENSG00000124532	MRS2	604.2341759	0.435441049	1.49E-10
ENSG00000164077	MON1A	192.0398409	0.793419159	1.50E-10
ENSG00000165572	KBTBD6	359.6982725	0.939611025	1.54E-10
ENSG00000120306	CYSTM1	946.305886	0.916048893	1.55E-10
ENSG00000163746	PLSCR2	65.61880829	1.816252204	1.55E-10
ENSG00000090612	ZNF268	704.799837	0.464745683	1.57E-10
ENSG00000087470	DNM1L	1270.358024	0.368915112	1.58E-10
ENSG00000089916	GPATCH2L	4842.957392	0.303320832	1.58E-10
ENSG00000185482	STAC3	97.35559259	-1.2528383	1.61E-10
ENSG00000089050	RBBP9	382.7583963	0.746958923	1.61E-10
ENSG00000125245	GPR18	310.2002569	0.809873682	1.61E-10
ENSG00000170832	USP32	3441.676683	-0.75470727	1.61E-10
ENSG00000278987		67.23016946	1.109807267	1.61E-10
ENSG00000073060	SCARB1	294.4941686	-1.068904405	1.62E-10
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ENSG00000199788	RNY3P2	23.97200474	1.307482817	1.63E-10
ENSG00000216809		124.1114954	-0.952853166	1.63E-10
ENSG00000179115	FARSA	977.6867512	0.622887147	1.64E-10
ENSG00000204283	LINC01973	45.85340541	-1.852115919	1.68E-10
ENSG00000174945	AMZ1	163.1670477	1.50947964	1.70E-10
ENSG00000137522	RNF121	573.8216001	0.348782515	1.70E-10
ENSG00000151470	C4orf33	244.3022601	-0.875217642	1.72E-10
ENSG00000172409	CLP1	381.2939984	-0.49453664	1.73E-10
ENSG00000213903	LTB4R	1421.533989	-0.685584452	1.73E-10
ENSG00000154957	ZNF18	520.2538296	-0.438204884	1.74E-10

ENSG00000064607	SUGP2	2842.748716	-0.2132789	1.76E-10
ENSG00000131504	DIAPH1	5661.753447	-0.517304526	1.79E-10
ENSG00000167851	CD300A	2343.442495	-0.774384129	1.80E-10
ENSG00000138623	SEMA7A	743.9716213	0.67547102	1.80E-10
ENSG00000236754		27.58500707	1.86765626	1.80E-10
ENSG00000151532	VTI1A	1352.972222	-0.255993643	1.81E-10
ENSG00000215712	TMEM242	250.6807556	-0.614666795	1.82E-10
ENSG00000138069	RAB1A	3136.570904	0.529866181	1.82E-10
ENSG00000163812	ZDHHC3	1895.979331	-0.254843081	1.84E-10
ENSG00000095574	IKZF5	1323.391188	-0.59310921	1.84E-10
ENSG00000143621	ILF2	1963.553778	0.390951062	1.85E-10
ENSG00000169403	PTAFR	7084.3814	1.137634503	1.85E-10
ENSG00000158716	DUSP23	157.8075446	-0.752442966	1.86E-10
ENSG00000161643	SIGLEC16	71.50589087	-1.940734933	1.86E-10
ENSG00000162711	NLRP3	1542.766359	0.893876188	1.86E-10
ENSG00000260895		24.47615341	-1.265019508	1.88E-10
ENSG00000147789	ZNF7	810.3114082	0.321214104	1.90E-10
ENSG00000275413		55.03692482	-1.07377196	1.91E-10
ENSG00000170417	TMEM182	82.44930145	0.57057761	1.92E-10
ENSG00000180422	LINC00304	83.75181996	-1.554865718	1.92E-10
ENSG00000168765	GSTM4	227.1224429	-0.737609308	1.93E-10
ENSG00000136997	MYC	2165.946838	0.591107794	1.93E-10
ENSG00000174953	DHX36	2395.724023	0.290822941	1.94E-10
ENSG00000152700	SAR1B	1461.539668	0.2527096	1.97E-10
ENSG00000131323	TRAF3	4222.060553	1.135400546	1.97E-10
ENSG00000270990		57.97064457	1.047586402	1.99E-10
ENSG00000225808	DNAJC19P5	231.4284104	0.662483551	2.01E-10
ENSG00000067900	ROCK1	5550.688097	-0.375353907	2.02E-10
ENSG00000133706	LARS1	1929.789562	0.492280746	2.05E-10
ENSG00000252242	RNU7-115P	23.96489644	-1.337090531	2.06E-10
ENSG00000174776	WDR49	39.52189026	-1.140094499	2.07E-10
ENSG00000249673	NOP14-AS1	913.5555437	-0.549292285	2.07E-10
ENSG00000124107	SLPI	702.3673754	2.049449934	2.07E-10
ENSG00000159714	ZDHHC1	28.85635649	-1.731223625	2.08E-10
ENSG00000065268	WDR18	432.6914024	0.461621778	2.09E-10
ENSG00000279584		44.45238319	1.16667756	2.11E-10
ENSG00000224093	BCAR3-AS1	22.84356198	-1.358898067	2.11E-10
ENSG00000152377	SPOCK1	13.15362583	-3.602538053	2.12E-10
ENSG00000173638	SLC19A1	2083.989347	-0.911137128	2.13E-10
ENSG00000047634	SCML1	870.4683797	0.871784393	2.13E-10
ENSG00000104356	POP1	247.2111735	1.080390208	2.13E-10
ENSG00000196428	TSC22D2	2922.98712	0.307240281	2.15E-10
ENSG00000164104	HMGB2	1652.071421	-0.946184755	2.17E-10
ENSG00000103248	MTHFSD	711.8004511	0.475935754	2.19E-10
ENSG00000099940	SNAP29	932.6922357	-0.370019961	2.20E-10
ENSG00000131845	ZNF304	422.1543972	0.495032038	2.20E-10
ENSG00000120159	CAAP1	437.6986307	0.305951691	2.21E-10
ENSG00000134709	HOOK1	324.7207779	0.40454514	2.24E-10
ENSG00000134058	CDK7	500.732219	0.412587779	2.26E-10
ENSG00000204482	LST1	2019.613076	-0.992344663	2.26E-10
ENSG00000106144	CASP2	1450.454435	-0.457183932	2.27E-10

ENSG00000155428	TRIM74	49.91605517	-0.986719408	2.28E-10
ENSG00000182158	CREB3L2	1588.598427	-0.450182809	2.31E-10
ENSG00000158373	H2BC5	998.6847529	-0.887861951	2.32E-10
ENSG00000100068	LRP5L	664.9180136	0.559569481	2.33E-10
ENSG00000141580	WDR45B	1276.354149	-0.250719275	2.34E-10
ENSG00000251726	RNU7-41P	29.85960201	1.348677011	2.35E-10
ENSG00000234284	ZNF879	312.8258691	0.472540806	2.37E-10
ENSG00000109736	MFSD10	1055.898564	-0.433656975	2.39E-10
ENSG00000207087	RNU6-242P	48.28180884	-0.824983971	2.39E-10
ENSG00000214198	TTC41P	58.49953126	0.64259088	2.40E-10
ENSG00000267801		59.25565577	1.084661586	2.40E-10
ENSG00000173674	EIF1AX	1986.014923	0.343704383	2.41E-10
ENSG00000197128	ZNF772	327.0563954	0.74975818	2.42E-10
ENSG00000172661	WASHC2C	2461.248405	0.520527544	2.46E-10
ENSG00000254887	POU2F2-AS1	119.6071916	0.827139491	2.47E-10
ENSG00000172638	EFEMP2	132.1485415	-0.766856434	2.47E-10
ENSG00000145088	EAF2	280.0255236	-0.697039576	2.49E-10
ENSG00000149196	HIKESHI	415.3306911	0.400360317	2.51E-10
ENSG00000100055	CYTH4	9876.808199	-0.634650697	2.53E-10
ENSG00000165516	KLHDC2	1240.807528	-0.578155272	2.53E-10
ENSG00000184220	CMSS1	287.6473598	0.664029733	2.53E-10
ENSG00000173320	STOX2	21.61036783	2.287579861	2.56E-10
ENSG00000273445		165.9677732	0.832032993	2.60E-10
ENSG00000085265	FCN1	6163.630164	-1.507123912	2.62E-10
ENSG00000234432	LINC02983	26.39653885	-1.205624801	2.64E-10
ENSG00000205744	DENND1C	1952.670368	-0.388588136	2.65E-10
ENSG00000163681	SLMAP	2160.626223	-0.391201994	2.66E-10
ENSG00000088970	KIZ	775.7241054	-0.501498561	2.70E-10
ENSG00000081087	OSTM1	2643.573203	0.754729336	2.73E-10
ENSG00000271601	LIX1L	1368.088577	-0.288844873	2.73E-10
ENSG00000080200	CRYBG3	491.2601397	-0.504432834	2.76E-10
ENSG00000237596		14.90843456	2.535524983	2.77E-10
ENSG00000261251	EFCAB6-DT	37.42044554	1.018401685	2.77E-10
ENSG00000146834	MEPCE	1802.521971	0.261461786	2.82E-10
ENSG00000145349	CAMK2D	1672.76288	-0.436584818	2.83E-10
ENSG00000148842	CNNM2	708.2915938	-0.481167309	2.84E-10
ENSG00000196860	TOMM20L	17.24351859	-1.582897526	2.84E-10
ENSG00000264663	KRT8P34	76.49147915	0.718761091	2.84E-10
ENSG00000180720	CHRM4	15.25048176	-2.476165681	2.85E-10
ENSG00000261221	ZNF865	915.6998731	-0.42562558	2.89E-10
ENSG00000269044		177.1468168	-0.52936835	2.92E-10
ENSG00000159588	CCDC17	336.2115504	-0.574928952	2.93E-10
ENSG00000179593	ALOX15B	32.50482637	-3.063002247	2.95E-10
ENSG00000146215	CRIP3	42.85165708	-0.907516988	2.95E-10
ENSG00000243725	TTC4	58.21380881	0.68648453	2.96E-10
ENSG00000103502	CDIPT	1354.180673	-0.5223344	2.96E-10
ENSG00000171307	ZDHHC16	672.1259084	0.677237703	2.96E-10
ENSG00000125633	CCDC93	3772.678092	0.584938991	2.97E-10
ENSG00000279145		277.7735993	-0.751518002	2.97E-10
ENSG00000168282	MGAT2	1393.45568	0.514580524	2.99E-10
ENSG00000162836	ACP6	823.8808567	0.898173612	3.00E-10

ENSG00000034510	TMSB10	11827.39521	-0.87017234	3.00E-10
ENSG00000266236	NARF-IT1	61.61841878	-1.426845284	3.01E-10
ENSG00000279631		163.3866145	0.817678887	3.02E-10
ENSG00000146426	TIAM2	276.1592754	-0.539420354	3.02E-10
ENSG00000132286	TIMM10B	714.2131348	-0.341429506	3.05E-10
ENSG00000264364	DYNLL2	1653.011437	-0.390397341	3.10E-10
ENSG00000256581	NLRP9P1	42.14464851	-1.823530613	3.10E-10
ENSG00000188389	PDCD1	158.6430738	0.700457722	3.11E-10
ENSG00000232303	DFFBP1	82.85116608	-0.685054996	3.13E-10
ENSG00000155329	ZCCHC10	509.4312224	0.711350642	3.13E-10
ENSG00000233008	LINC01725	47.38263487	0.947173218	3.14E-10
ENSG00000115368	WDR75	1026.931296	0.317556606	3.15E-10
ENSG00000280195		93.59512547	0.682096185	3.18E-10
ENSG00000165271	NOL6	935.6937523	0.463373794	3.18E-10
ENSG00000233431	LINC02596	33.43349559	-3.470749501	3.19E-10
ENSG00000158270	COLEC12	18.69131698	-3.84171881	3.21E-10
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ENSG00000174373	RALGAPA1	3410.580782	0.68416829	3.23E-10
ENSG00000185619	PCGF3	1553.499861	-0.375694699	3.24E-10
ENSG00000160791	CCR5	918.2609014	1.395129211	3.25E-10
ENSG00000159208	CIART	15.71158155	1.77623224	3.26E-10
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ENSG00000135074	ADAM19	2832.097143	-0.80052431	3.30E-10
ENSG00000271959		48.41466571	-1.574124404	3.33E-10
ENSG00000183207	RUVBL2	609.8989704	0.487689779	3.37E-10
ENSG00000224429	LINC00539	44.95266766	-0.865843628	3.37E-10
ENSG00000160688	FLAD1	655.9799924	0.403740039	3.38E-10
ENSG00000233922	LINC01694	18.31554231	1.4778151	3.38E-10
ENSG00000130734	ATG4D	743.8072012	-0.592673755	3.39E-10
ENSG00000240770	C21orf91-OT1	53.57758485	1.168585895	3.42E-10
ENSG00000168209	DDIT4	3541.445643	0.641046485	3.42E-10
ENSG00000248734		78.70012483	-1.037902418	3.42E-10
ENSG00000169507	SLC38A11	26.83163817	-1.951234369	3.44E-10
ENSG00000117593	DARS2	349.4294638	0.616174117	3.46E-10
ENSG00000131446	MGAT1	11567.57996	0.562501011	3.46E-10
ENSG00000228695	CES1P1	9.045113489	3.028073958	3.47E-10
ENSG00000111850	SMIM8	340.2610553	-0.542051797	3.47E-10
ENSG00000101236	RNF24	3114.142615	-1.170924042	3.53E-10
ENSG00000160055	TMEM234	538.2033224	-0.44442097	3.56E-10
ENSG00000115761	NOL10	674.2434487	0.294100049	3.57E-10
ENSG00000204257	HLA-DMA	1328.855394	-0.734660183	3.59E-10
ENSG00000174851	YIF1A	507.7258223	0.642321788	3.59E-10
ENSG00000160404	TOR2A	436.6059452	-0.542587576	3.61E-10
ENSG00000238987	RNU7-133P	19.08506583	1.508751979	3.63E-10
ENSG00000101935	AMMECR1	509.0846196	-0.35554557	3.63E-10
ENSG00000261490		923.8178271	-0.472264829	3.63E-10
ENSG00000228526	MIR34AHG	44.5686486	1.495297973	3.63E-10
ENSG00000141510	TP53	1301.72556	0.351258768	3.65E-10
ENSG00000187801	ZFP69B	136.1402731	0.641674079	3.66E-10
ENSG00000106399	RPA3	261.3503054	0.524804255	3.68E-10
ENSG00000167315	ACAA2	706.7197649	-0.449165591	3.71E-10

ENSG00000154124	OTULIN	3282.193938	0.504097125	3.72E-10
ENSG00000101940	WDR13	906.3833522	-0.552338549	3.75E-10
ENSG00000252908	RNU6-1003P	35.36611839	1.303550668	3.75E-10
ENSG00000233806	LINC01237	95.80567392	-0.749209534	3.75E-10
ENSG00000074935	TUBE1	459.331793	0.547982302	3.75E-10
ENSG00000187621	TCL6	128.4605591	-0.869488831	3.78E-10
ENSG00000256660	CLEC12B	71.45769646	-1.819946149	3.79E-10
ENSG00000130810	PPAN	211.4290349	0.447700502	3.79E-10
ENSG00000174177	CTU2	330.3872872	0.631046728	3.80E-10
ENSG00000090581	GNPTG	1281.033759	0.431754722	3.80E-10
ENSG00000129295	DNAAF11	138.544115	-0.950821906	3.87E-10
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ENSG00000276107	THBS1-IT1	232.997864	1.634620517	3.98E-10
ENSG00000166897	ELFN2	26.70215523	-1.255913783	3.99E-10
ENSG00000172824	CES4A	151.2274689	-0.875427748	3.99E-10
ENSG00000134508	CABLES1	133.9388993	1.153517971	4.03E-10
ENSG00000172315	TP53RK	791.4539161	0.70907453	4.04E-10
ENSG00000153561	RMND5A	2778.067617	-0.450154059	4.06E-10
ENSG00000114648	KLHL18	989.2866602	-0.287869685	4.06E-10
ENSG00000151320	AKAP6	95.96722876	-1.304291505	4.07E-10
ENSG00000173338	KCNK7	89.53178185	-1.561605687	4.13E-10
ENSG00000179627	ZBTB42	334.8998094	0.453408196	4.16E-10
ENSG00000173611	SCAI	537.0669076	-0.403512173	4.19E-10
ENSG00000161640	SIGLEC11	58.3901883	-1.9515011	4.29E-10
ENSG00000138768	USO1	1920.369834	0.419717878	4.30E-10
ENSG00000081377	CDC14B	332.3161631	-0.620171746	4.31E-10
ENSG00000237892	KLF7-IT1	131.6462415	-0.887514513	4.31E-10
ENSG00000085377	PREP	998.3119494	0.338612211	4.34E-10
ENSG00000144645	OSBPL10	335.700763	-0.965962007	4.34E-10
ENSG00000184900	SUMO3	987.234096	-0.712003045	4.34E-10
ENSG00000213024	NUP62	2151.053879	0.796977748	4.35E-10
ENSG00000161249	DMKN	12.11749116	-2.147622163	4.36E-10
ENSG00000149798	CDC42EP2	913.2712915	1.484492491	4.37E-10
ENSG00000170385	SLC30A1	1786.406489	0.73002677	4.42E-10
ENSG00000123159	GIPC1	441.5374031	-0.58244945	4.42E-10
ENSG00000186517	ARHGAP30	9996.217509	-0.358215094	4.44E-10
ENSG00000181220	ZNF746	1760.720843	-0.535629102	4.47E-10
ENSG00000171916	LGALS9C	44.34267422	-1.615368518	4.47E-10
ENSG00000197119	SLC25A29	907.8687105	-1.10897117	4.48E-10
ENSG00000232208		72.15204695	0.831044515	4.50E-10
ENSG00000108506	INTS2	595.9577047	0.373139769	4.51E-10
ENSG00000131067	GGT7	574.0330341	-0.599867767	4.52E-10
ENSG00000245958	SEPTIN7P14	888.8812696	-0.626578306	4.58E-10
ENSG00000167522	ANKRD11	7224.586114	-0.27946999	4.58E-10
ENSG00000171720	HDAC3	981.3787127	-0.230361643	4.62E-10
ENSG00000153487	ING1	751.6435457	-0.721871124	4.62E-10
ENSG00000140416	TPM1	482.6229004	-0.490086979	4.62E-10
ENSG00000172367	PDZD3	11.81002834	-2.639988573	4.64E-10
ENSG00000140740	UQCRC2	2882.483332	0.316712908	4.64E-10
ENSG00000239823		21.8677176	-1.731735809	4.64E-10
ENSG00000110011	DNAJC4	599.9601548	-0.598466614	4.65E-10

ENSG00000196505	GDAP2	1399.284381	-0.349543978	4.65E-10
ENSG00000257365	FNTB	100.7062541	-0.722258165	4.66E-10
ENSG00000110925	CSRNP2	770.5338944	0.545664828	4.71E-10
ENSG00000228097	MTATP6P11	39.04202628	-1.298938346	4.73E-10
ENSG00000272927		40.78924682	-1.191109455	4.74E-10
ENSG00000143878	RHOB	2392.671632	-0.939645434	4.77E-10
ENSG00000177732	SOX12	364.1628839	-0.776047809	4.79E-10
ENSG00000164082	GRM2	73.79030391	-1.005241447	4.83E-10
ENSG00000177842	ZNF620	111.1613896	0.541327835	4.83E-10
ENSG00000141068	KSR1	1990.22653	-0.768732815	4.88E-10
ENSG00000145390	USP53	895.952115	-0.367992489	4.88E-10
ENSG00000168101	NUDT16L1	594.2586436	-0.573158722	4.90E-10
ENSG00000176595	KBTBD11	472.3862027	-0.733642848	4.91E-10
ENSG00000182621	PLCB1	501.767798	-0.792800732	4.95E-10
ENSG00000167100	SAMD14	71.49149543	1.871468128	4.95E-10
ENSG00000065833	ME1	98.37131644	1.400784972	4.96E-10
ENSG00000086712	TXLNG	595.2393701	0.356354085	4.96E-10
ENSG00000262413		41.93222789	1.070588771	5.00E-10
ENSG00000196177	ACADSB	647.0875019	-0.46262401	5.04E-10
ENSG00000180626	ZNF594	601.6624178	1.088889145	5.06E-10
ENSG00000135597	REPS1	1451.194056	-0.259969772	5.08E-10
ENSG00000205364	MT1M	11.03072562	3.701950391	5.13E-10
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ENSG00000106105	GARS1	1376.680194	0.367440292	5.16E-10
ENSG00000277075	H2AC8	807.2808945	-0.826148202	5.16E-10
ENSG00000269952		97.56515461	1.636912754	5.16E-10
ENSG00000278000		19.07823061	1.274792731	5.17E-10
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ENSG00000103489	XYLT1	2308.125905	-0.376604642	5.26E-10
ENSG00000261150	EPPK1	521.3027128	-0.768017616	5.27E-10
ENSG00000183308		18.63787019	-1.7537754	5.27E-10
ENSG00000250950		119.9520487	-1.058416183	5.28E-10
ENSG00000197885	NKIRAS1	144.5810549	0.571168006	5.31E-10
ENSG00000152464	RPP38	306.6422157	0.510086364	5.32E-10
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ENSG00000183690	EFHC2	71.06601316	-1.782226823	5.32E-10
ENSG00000124766	SOX4	318.4506684	-1.040201724	5.39E-10
ENSG0000025039	RRAGD	862.1957678	0.75033642	5.47E-10
ENSG00000170502	NUDT9	291.4030119	0.675777154	5.50E-10
ENSG00000149016	TUT1	261.6010885	0.630231938	5.54E-10
ENSG00000173113	TRMT112	1001.02408	0.468766479	5.64E-10
ENSG00000160172	FAM86C2P	58.32428128	0.690976394	5.74E-10
ENSG00000259398		69.39377219	0.790834354	5.81E-10
ENSG00000175857	GAPT	2445.37482	1.544559168	5.92E-10
ENSG00000134899	ERCC5	367.3373984	-0.392654754	5.98E-10
ENSG00000171812	COL8A2	66.84699117	-1.588006398	6.03E-10
ENSG00000173786	CNP	1592.729172	0.608812877	6.09E-10
ENSG00000171612	SLC25A33	280.8775923	0.614189933	6.12E-10
ENSG00000244459		37.9730746	-0.936617559	6.13E-10

ENSG00000083937	CHMP2B	1179.519686	0.511874349	6.13E-10
ENSG00000235863	B3GALT4	827.8894892	-0.420356331	6.14E-10
ENSG00000182175	RGMA	44.72199831	1.847187053	6.15E-10
ENSG00000205765	RIMOC1	936.3799591	0.595967236	6.24E-10
ENSG00000204055	IER5L-AS1	11.50642788	-1.495905301	6.26E-10
ENSG00000149809	TM7SF2	239.8496773	-0.621189805	6.26E-10
ENSG00000136810	TXN	1389.986602	0.772029523	6.26E-10
ENSG00000112992	NNT	1354.196337	-0.326559616	6.28E-10
ENSG00000141367	CLTC	6751.46885	0.569713605	6.30E-10
ENSG00000205664		490.6530606	0.314887483	6.36E-10
ENSG00000151718	WWC2	395.5749807	0.954158043	6.37E-10
ENSG00000155438	NIFK	649.5719602	0.583590006	6.41E-10
ENSG00000108352	RAPGEFL1	198.7634905	-0.607592186	6.41E-10
ENSG00000119689	DLST	2135.729259	-0.224946196	6.42E-10
ENSG00000176945	MUC20	98.76373695	-0.898804209	6.46E-10
ENSG00000160818	GPATCH4	338.232445	0.611958037	6.46E-10
ENSG00000133250	ZNF414	350.3381146	-0.707596193	6.50E-10
ENSG00000224638		42.05971219	-1.033801957	6.53E-10
ENSG00000235271		16.7971556	-1.624841825	6.54E-10
ENSG00000226266		53.45585516	-0.754118571	6.55E-10
ENSG00000125170	DOK4	71.22953914	-1.121391439	6.56E-10
ENSG00000105793	GTPBP10	838.4179123	0.414123156	6.66E-10
ENSG00000086200	IPO11	542.8575217	0.486261201	6.70E-10
ENSG00000133703	KRAS	2363.605073	0.638979419	6.73E-10
ENSG00000104783	KCNN4	880.3453325	0.999248888	6.76E-10
ENSG00000137312	FLOT1	9440.568042	1.248199994	6.77E-10
ENSG00000155366	RHOC	496.2524781	-0.775061206	6.81E-10
ENSG00000242852	ZNF709	38.32094944	-1.165342309	6.81E-10
ENSG00000149781	FERMT3	6830.339954	0.820455751	6.86E-10
ENSG00000179833	SERTAD2	1481.251108	-0.705825476	6.86E-10
ENSG00000105011	ASF1B	133.0038397	-0.951017055	6.87E-10
ENSG00000235072	ARNILA	73.91690321	-0.975520423	6.88E-10
ENSG00000186908	ZDHHC17	1910.558646	-0.39759956	6.89E-10
ENSG00000110200	ANAPC15	224.6142087	-0.931173116	6.94E-10
ENSG00000284048		696.5445407	0.414863266	6.94E-10
ENSG00000104635	SLC39A14	222.3575113	0.883713969	6.96E-10
ENSG00000069998	HDHD5	561.5745622	0.339438535	6.99E-10
ENSG00000169641	LUZP1	1533.015942	0.56824739	7.00E-10
ENSG00000214279	SCART1	274.6111107	-0.840784862	7.01E-10
ENSG00000146192	FGD2	1219.018026	-1.068395412	7.09E-10
ENSG00000011021	CLCN6	985.6487742	0.372585211	7.10E-10
ENSG00000183837	PNMA3	181.2139226	-0.677242123	7.13E-10
ENSG00000120910	PPP3CC	1192.135661	-0.476522011	7.18E-10
ENSG00000163811	WDR43	1333.552136	0.396110809	7.19E-10
ENSG00000186318	BACE1	62.18632336	-1.875858109	7.22E-10
ENSG00000206417	H1-10-AS1	73.62183613	-0.926691718	7.23E-10
ENSG00000181649	PHLDA2	157.3530866	1.915008518	7.26E-10
ENSG00000163590	PPM1L	390.7845026	-0.816359448	7.28E-10
ENSG00000277151		120.474155	-0.655940061	7.29E-10
ENSG00000182612	TSPAN10	27.36173323	1.184421616	7.36E-10
ENSG00000135605	TEC	222.6427036	-0.860034097	7.40E-10

ENSG00000171425	ZNF581	347.8636542	-0.690446404	7.42E-10
ENSG00000110436	SLC1A2	171.9030017	2.070330073	7.49E-10
ENSG00000204310	AGPAT1	865.7112461	-0.377549799	7.49E-10
ENSG00000010072	SPRTN	528.6800748	-0.462410943	7.50E-10
ENSG00000126814	TRMT5	269.8487757	1.143321422	7.63E-10
ENSG00000213221	DNLZ	75.63212454	0.650510572	7.64E-10
ENSG00000187555	USP7	3962.106457	-0.328817557	7.64E-10
ENSG00000167840	ZNF232	214.3308355	0.761114365	7.66E-10
ENSG00000086827	ZW10	349.2002316	0.603722399	7.69E-10
ENSG00000188428	BLOC1S5	393.943975	0.456801432	7.70E-10
ENSG00000164983	TMEM65	1175.591599	-0.601543929	7.76E-10
ENSG00000134444	RELCH	2672.344717	-0.278370728	7.84E-10
ENSG00000279805		216.78746	0.605155939	7.86E-10
ENSG00000267575	LINC02987	369.9095386	0.630154744	7.86E-10
ENSG00000157349	DDX19B	330.5276069	-0.41077385	7.96E-10
ENSG00000186446	ZNF501	95.01882296	0.649561765	8.03E-10
ENSG00000180509	KCNE1	496.9135912	0.983816634	8.10E-10
ENSG00000280143		30.53248573	-1.379961297	8.17E-10
ENSG00000185527	PDE6G	37.76397208	-1.099565581	8.29E-10
ENSG00000279179		42.0911847	-0.940320544	8.35E-10
ENSG00000211454	AKR7L	9.901644072	-2.123092352	8.37E-10
ENSG00000113273	ARSB	727.4225261	0.637634139	8.39E-10
ENSG00000234389		129.8872234	-1.709384466	8.43E-10
ENSG00000147155	EBP	273.0015731	-0.832353966	8.45E-10
ENSG00000248477	NAIPP3	25.48467581	-1.650048427	8.47E-10
ENSG00000248592	STIMATE-MUSTN1	70.41594696	-0.840913694	8.47E-10
ENSG00000100505	TRIM9	41.25807551	-1.570340295	8.60E-10
ENSG00000167210	LOXHD1	126.1678252	1.353891529	8.60E-10
ENSG00000183023	SLC8A1	1567.08893	-1.031387117	8.61E-10
ENSG00000262089		131.1946049	0.76767822	8.73E-10
ENSG00000250739	LINC01262	10.32554208	2.024684209	8.73E-10
ENSG00000176720	BOK	22.82646018	-1.838187396	8.88E-10
ENSG00000155189	AGPAT5	731.5948851	0.676062363	8.88E-10
ENSG00000189127	ANKRD34B	17.90261376	-3.008456813	8.93E-10
ENSG00000232882	PHKA1P1	49.5356956	-1.089027188	8.93E-10
ENSG00000267905	VSIG10L-AS1	13.86028203	1.375674725	8.95E-10
ENSG00000255545	B3GAT1-DT	36.71681107	-1.780438854	8.98E-10
ENSG00000180035	ZNF48	365.8985962	0.48018065	9.10E-10
ENSG00000187187	ZNF546	349.4249755	0.801729485	9.11E-10
ENSG00000185085	INTS5	811.6090043	0.573348112	9.17E-10
ENSG00000109083	IFT20	337.2585016	-0.621277303	9.18E-10
ENSG00000177383	MAGEF1	176.7611763	-0.707597422	9.23E-10
ENSG00000158201	ABHD3	1355.777373	-0.686292173	9.33E-10
ENSG00000235173	HGH1	346.6711082	0.60642309	9.43E-10
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ENSG00000274466	MIR1273H	19.99493229	-1.574885109	9.61E-10
ENSG00000154764	WNT7A	223.8092775	-0.63598082	9.62E-10
ENSG00000164056	SPRY1	213.1126895	1.09589037	9.63E-10
ENSG00000182871	COL18A1	2292.122287	-0.676782473	9.64E-10
ENSG00000100647	SUSD6	7763.129429	0.628649783	9.69E-10
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ENSG00000033327	GAB2	3814.694332	-0.722816325	9.79E-10
ENSG00000116819	TFAP2E	77.33374678	-0.934846148	9.80E-10
ENSG00000033011	ALG1	393.795906	0.393185773	9.82E-10
ENSG00000132561	MATN2	11.50645891	-2.143768299	9.83E-10
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ENSG00000171806	METTL18	220.2464878	0.528217058	9.95E-10
ENSG00000223768	LINC00205	154.0386261	0.561721485	9.98E-10
ENSG00000213782	DDX47	229.3880274	-0.766576836	1.00E-09
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ENSG00000163958	ZDHHC19	13.77015801	-1.966402333	1.06E-09
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ENSG00000109689	STIM2	1886.045825	-0.256186388	1.07E-09
ENSG00000168754	FAM178B	18.35030518	-1.231961086	1.07E-09
ENSG00000171105	INSR	288.144413	-1.083226758	1.08E-09
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ENSG00000198934	MAGEE1	166.5406885	-0.571055756	1.09E-09
ENSG00000089639	GMIP	6226.007733	-0.392667209	1.10E-09
ENSG00000267751	BSG-AS1	23.15691705	-1.184974939	1.11E-09
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ENSG00000241058	NSUN6	573.933852	0.281475812	1.11E-09
ENSG00000143570	SLC39A1	1697.054298	0.766746935	1.12E-09
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ENSG00000124145	SDC4	594.3155171	1.88255635	1.13E-09
ENSG00000118096	IFT46	221.9959135	0.461824741	1.13E-09
ENSG00000140006	WDR89	614.5295974	0.52275465	1.13E-09
ENSG00000152433	ZNF547	109.5749038	1.038978865	1.14E-09
ENSG00000157322	CLEC18A	71.96891858	-0.82771943	1.14E-09
ENSG00000198040	ZNF84	1075.282424	0.320578693	1.15E-09
ENSG00000137100	DCTN3	743.473697	-0.682812116	1.16E-09
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ENSG00000235078		40.24655982	1.034492456	1.17E-09
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ENSG00000213694	S1PR3	191.8681658	-1.513608695	1.22E-09
ENSG00000132141	CCT6B	81.09334918	-0.997561016	1.24E-09
ENSG00000198721	ECI2	553.9704559	-0.356607546	1.24E-09
ENSG00000233392	UICLM	61.42622465	-2.629852268	1.25E-09

ENSG00000160781	PAQR6	121.138914	-0.815180553	1.25E-09
ENSG00000277782		43.85823616	0.758343784	1.25E-09
ENSG00000186566	GPATCH8	2834.549988	-0.288983239	1.26E-09
ENSG00000171055	FEZ2	641.1637404	-0.344999682	1.26E-09
ENSG00000103187	COTL1	10113.21152	-0.477899483	1.26E-09
ENSG00000189159	JPT1	477.0266332	-0.86075571	1.27E-09
ENSG00000188056	TREML4	119.6163078	2.159982977	1.28E-09
ENSG00000123836	PFKFB2	509.3647319	-0.638712261	1.30E-09
ENSG00000135925	WNT10A	183.3844592	1.32938172	1.31E-09
ENSG00000111331	OAS3	8080.813397	1.824958619	1.32E-09
ENSG00000198818	SFT2D1	1085.869041	0.688318082	1.32E-09
ENSG00000180233	ZNRF2	1341.350234	0.451438553	1.32E-09
ENSG00000145817	YIPF5	874.9901466	0.644750148	1.32E-09
ENSG00000125741	OPA3	500.3408917	0.430937242	1.33E-09
ENSG00000224635		57.49488443	0.925111203	1.34E-09
ENSG00000100802	C14orf93	289.2248539	-0.418142555	1.36E-09
ENSG00000183960	KCNH8	48.13663249	-1.73442745	1.38E-09
ENSG00000123975	CKS2	111.0709295	1.078445963	1.38E-09
ENSG00000162384	CZIB	578.9195463	0.305026554	1.42E-09
ENSG00000279108		51.1936625	-0.878931099	1.42E-09
ENSG00000187609	EXD3	411.5651929	-0.611720457	1.42E-09
ENSG00000274386	TMEM269	37.26602225	-1.339006936	1.43E-09
ENSG00000274588	DGKK	30.69551291	-2.18373374	1.45E-09
ENSG00000011638	LDAF1	266.5610901	-0.416413707	1.45E-09
ENSG00000129473	BCL2L2	219.0498087	-0.418749771	1.45E-09
ENSG00000143458	GABPB2	906.986731	-0.464277976	1.45E-09
ENSG00000281205		39.41882311	-1.021872082	1.45E-09
ENSG00000079950	STX7	3557.04081	-0.45369612	1.45E-09
ENSG00000142544	CTU1	222.7113221	0.776289956	1.46E-09
ENSG00000125977	EIF2S2	1294.961555	0.456902201	1.46E-09
ENSG00000266094	RASSF5	12835.16359	0.490575142	1.47E-09
ENSG00000138386	NAB1	2164.432726	1.045468442	1.47E-09
ENSG00000153208	MERTK	773.5508741	-2.225136059	1.48E-09
ENSG00000099901	RANBP1	544.7119603	0.513437805	1.48E-09
ENSG00000217801		91.72659424	1.830900483	1.48E-09
ENSG00000164967	RPP25L	266.2613174	0.459169807	1.48E-09
ENSG00000024862	CCDC28A	424.9671466	-0.488492493	1.50E-09
ENSG00000050748	MAPK9	1007.702878	-0.229194906	1.50E-09
ENSG00000206848	RNU6-890P	43.12335516	-0.895825734	1.51E-09
ENSG00000226471		207.2331453	0.657155467	1.51E-09
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ENSG00000085832	EPS15	3747.476308	-0.316817597	1.52E-09
ENSG00000259926		86.89439357	-0.759676798	1.52E-09
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ENSG00000059691	GATB	340.7911679	0.315511456	1.54E-09
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ENSG00000112787	FBRSL1	2480.156506	-0.426562466	1.57E-09
ENSG00000114251	WNT5A	69.40138245	2.905279444	1.57E-09
ENSG00000160446	ZDHHC12	404.7565877	-0.795453343	1.57E-09
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ENSG00000134086	VHL	2359.776388	0.446782884	1.59E-09
ENSG00000140990	NDUFB10	432.0693574	-0.518485884	1.59E-09
ENSG00000280367		32.58799869	1.555824837	1.60E-09
ENSG00000135211	TMEM60	236.1633921	0.666664785	1.60E-09
ENSG00000132003	ZSWIM4	779.7362535	1.232252071	1.61E-09
ENSG00000133895	MEN1	678.6834962	0.268493961	1.62E-09
ENSG00000186952	TMEM232	35.27426076	0.719827264	1.62E-09
ENSG00000196975	ANXA4	572.8100391	-0.650076948	1.63E-09
ENSG00000243410	PSMD6-AS1	50.36320123	-0.76107243	1.63E-09
ENSG00000213096	ZNF254	540.931652	-0.59463797	1.66E-09
ENSG00000115816	CEBPZ	1553.504315	0.403144487	1.66E-09
ENSG00000179134	SAMD4B	2153.017054	0.366450279	1.66E-09
ENSG00000168096	ANKS3	366.2589948	0.369658555	1.69E-09
ENSG00000115825	PRKD3	1799.730544	0.328399056	1.72E-09
ENSG00000186088	GSAP	3946.828026	0.989645786	1.72E-09
ENSG00000140749	IGSF6	5040.831534	1.292996809	1.72E-09
ENSG00000276517		238.1345196	-0.576363514	1.72E-09
ENSG00000196678	ERI2	118.0049103	0.622589177	1.72E-09
ENSG00000104299	INTS9	562.5035033	0.392589449	1.73E-09
ENSG00000184432	COPB2	2215.364817	0.561114831	1.73E-09
ENSG00000105649	RAB3A	65.92877665	-1.357379695	1.74E-09
ENSG00000248124	RRN3P1	1224.928007	0.382080049	1.74E-09
ENSG00000142686	C1orf216	262.7681526	0.61411388	1.75E-09
ENSG00000140450	ARRDC4	757.1924709	0.815431928	1.75E-09
ENSG00000134013	LOXL2	180.9672317	-0.697305295	1.75E-09
ENSG00000142694	EVA1B	279.7146425	0.69976214	1.76E-09
ENSG00000176624	MEX3C	1942.047935	-0.459556048	1.77E-09
ENSG00000064115	TM7SF3	633.2608841	-0.323759384	1.77E-09
ENSG00000100379	KCTD17	444.2309549	0.4783453	1.79E-09
ENSG00000126903	SLC10A3	468.0636852	-0.470502149	1.79E-09
ENSG00000270872	SRGAP2D	41.15636623	-0.782396418	1.79E-09
ENSG00000259330	INAFM2	1624.771224	0.959818956	1.80E-09
ENSG00000162623	TYW3	407.4867929	0.361701929	1.81E-09
ENSG00000185433	LINC00158	32.69721583	1.866972886	1.81E-09
ENSG00000101974	ATP11C	1253.143332	0.235194997	1.81E-09
ENSG00000124406	ATP8A1	5804.760581	0.412021121	1.82E-09
ENSG00000109684	CLNK	26.02875476	-0.921664487	1.82E-09
ENSG00000230735		140.7506807	-0.725695315	1.82E-09
ENSG00000163104	SMARCAD1	1073.540807	0.381087129	1.82E-09
ENSG00000008513	ST3GAL1	7515.622906	0.393979197	1.82E-09
ENSG00000124602	UNC5CL	152.7817338	-0.776594566	1.83E-09
ENSG00000111906	HDDC2	492.1253459	0.410612249	1.83E-09
ENSG00000262001	DLGAP1-AS2	442.6901429	0.904971379	1.89E-09
ENSG00000233622	CYP2T1P	22.09794489	-1.473133809	1.89E-09
ENSG00000181938	GIN53	50.55379086	0.661482448	1.90E-09
ENSG00000147488	ST18	20.70373465	1.597306303	1.90E-09
ENSG00000087269	NOP14	994.8012248	0.418472773	1.90E-09
ENSG00000269609	C10orf95-AS1	967.2496869	0.558733937	1.94E-09
ENSG00000236200	KDM4A-AS1	19.11410302	1.129681583	1.97E-09
ENSG00000112304	ACOT13	271.9108686	0.630202361	1.97E-09

ENSG00000128284	APOL3	4202.952333	0.501073376	1.98E-09
ENSG00000158717	RNF166	5511.384345	-0.374518055	1.98E-09
ENSG00000257342		35.20543291	-1.195253086	1.99E-09
ENSG00000017797	RALBP1	1989.189738	-0.541147161	2.00E-09
ENSG00000101557	USP14	1184.03895	0.272542718	2.00E-09
ENSG00000177427	MIEF2	339.6528069	-0.662804039	2.00E-09
ENSG00000198042	MAK16	469.6720209	0.499672368	2.00E-09
ENSG00000166343	MSS51	171.8331889	-0.563155373	2.01E-09
ENSG00000105677	TMEM147	409.4021563	0.467972152	2.01E-09
ENSG00000187942	LDLRAD2	11.28655397	-1.898577315	2.02E-09
ENSG00000118418	HMGN3	438.0097644	-0.643228	2.03E-09
ENSG00000126524	SBDS	1014.376419	-0.700972278	2.03E-09
ENSG00000120709	FAM53C	2521.825448	-0.591907187	2.04E-09
ENSG00000151687	ANKAR	395.2805647	-0.364192922	2.05E-09
ENSG00000125821	DTD1	393.0319509	-0.593680962	2.08E-09
ENSG00000100902	PSMA6	589.1043276	0.474300145	2.08E-09
ENSG00000270781		16.66947442	1.19445622	2.08E-09
ENSG00000270878	GCATP1	145.615486	0.727955246	2.10E-09
ENSG00000164011	ZNF691	285.0747895	0.87203365	2.11E-09
ENSG00000272434		15.58451561	-1.984807523	2.12E-09
ENSG00000224083	MTCO1P11	88.60685955	-0.986130759	2.12E-09
ENSG00000237927		125.7065321	1.628798846	2.13E-09
ENSG00000117480	FAAH	190.432367	-0.700468323	2.15E-09
ENSG00000163734	CXCL3	4851.84362	3.240499943	2.16E-09
ENSG00000131876	SNRPA1	938.7857038	-0.612669915	2.19E-09
ENSG00000228589	SPCS2P4	25.34231465	1.43391421	2.19E-09
ENSG00000279838		555.8728621	0.696193194	2.19E-09
ENSG00000198121	LPAR1	241.2130476	0.956914305	2.20E-09
ENSG00000124074	ENKD1	127.4976552	-0.483682724	2.20E-09
ENSG00000086062	B4GALT1	6045.541396	0.49838993	2.20E-09
ENSG00000233895		15.00877171	-2.569630202	2.20E-09
ENSG00000123685	BATF3	147.8036857	1.472999109	2.20E-09
ENSG00000235162	C12orf75	342.0826301	-0.670338168	2.21E-09
ENSG00000254470	AP5B1	4377.764259	-0.814214645	2.21E-09
ENSG00000107960	STN1	543.4225418	-0.74131439	2.22E-09
ENSG00000227603		33.03304584	-0.890041343	2.22E-09
ENSG00000264675	MIR4285	31.51358636	1.015122427	2.22E-09
ENSG00000054277	OPN3	358.495358	0.549364878	2.23E-09
ENSG00000165169	DYNLT3	662.7517906	0.592990997	2.24E-09
ENSG00000240057	NEPRO-AS1	40.70242076	1.10622806	2.24E-09
ENSG00000092051	JPH4	8.530031682	-2.868063207	2.25E-09
ENSG00000167632	TRAPPC9	1961.168467	-0.410054236	2.26E-09
ENSG00000127419	TMEM175	627.8372553	-0.745836061	2.26E-09
ENSG00000180316	PNPLA1	613.5023704	2.266971506	2.27E-09
ENSG00000177854	TMEM187	142.2999492	0.566500131	2.29E-09
ENSG00000196628	TCF4	1427.203138	0.524937284	2.29E-09
ENSG00000235750	KIAA0040	1771.037475	-0.806459562	2.31E-09
ENSG00000085721	RRN3	1110.36423	0.392735747	2.32E-09
ENSG00000099994	SUSD2	47.28040997	-1.023377833	2.33E-09
ENSG00000163961	RNF168	1645.528023	-0.231283143	2.34E-09
ENSG00000274383		150.0796099	1.116116568	2.34E-09

ENSG00000182093	GET1	407.1322928	-0.363927768	2.35E-09
ENSG00000279641		33.2377394	1.008291761	2.35E-09
ENSG00000229590	MSX2P1	44.42095609	-1.051247015	2.37E-09
ENSG00000006451	RALA	901.8650398	0.462610247	2.40E-09
ENSG00000100154	TTC28	107.8882382	-0.790064974	2.40E-09
ENSG00000170100	ZNF778	598.1828692	0.620610582	2.40E-09
ENSG00000204427	ABHD16A	209.4742817	-0.475308979	2.41E-09
ENSG00000130309	COLGALT1	2669.739547	-0.434606963	2.42E-09
ENSG00000252060	RNA5SP464	18.87508413	1.223964957	2.42E-09
ENSG00000232187	FTH1P7	32.36681294	1.265263821	2.43E-09
ENSG00000183741	CBX6	4259.816446	-0.488617034	2.45E-09
ENSG00000269927		26.3391781	-2.38537663	2.45E-09
ENSG00000181631	P2RY13	1538.439814	-1.682613642	2.47E-09
ENSG00000272498		190.2319531	-0.705165236	2.47E-09
ENSG00000133030	MPRIP	6313.754084	-0.342781668	2.50E-09
ENSG00000218565		66.11603553	1.743854426	2.55E-09
ENSG00000182179	UBA7	2717.690589	-0.63612634	2.56E-09
ENSG00000226239		64.71185105	2.513681304	2.62E-09
ENSG00000231194	FARP1-AS1	7.493754597	-2.605885855	2.62E-09
ENSG00000196542	SPTSSB	9.400274979	-2.686241657	2.62E-09
ENSG00000233836		144.8535085	-0.531150707	2.63E-09
ENSG00000135624	CCT7	2427.150405	0.452417056	2.64E-09
ENSG00000172059	KLF11	591.2223155	-0.959402261	2.65E-09
ENSG00000125863	MKKS	558.354614	0.712023876	2.66E-09
ENSG00000259343	TMC3-AS1	48.57976223	-1.031642638	2.68E-09
ENSG00000178229	ZNF543	324.3289343	0.504012	2.69E-09
ENSG00000185808	PIGP	276.1912598	0.621682484	2.71E-09
ENSG00000186416	NKRF	437.1312798	0.416891207	2.72E-09
ENSG00000244462	RBM12	3428.926848	0.359925849	2.73E-09
ENSG00000141279	NPEPPS	2487.66378	-0.335505408	2.74E-09
ENSG00000205755	CRLF2	181.5286663	2.261586649	2.77E-09
ENSG00000261226		113.2815636	-0.976910397	2.79E-09
ENSG00000197847	SLC22A20P	20.33987108	-1.318481128	2.80E-09
ENSG00000148153	INIP	673.5502804	0.403334363	2.81E-09
ENSG00000146425	DYNLT1	1994.543496	-0.518058494	2.81E-09
ENSG00000247626	MARS2	380.2050265	0.351619044	2.82E-09
ENSG00000184990	SIVA1	995.9152407	-0.721458171	2.83E-09
ENSG00000225177	NHSL1-AS1	13.99613071	-2.027200544	2.83E-09
ENSG00000236255		216.4801356	0.760306845	2.83E-09
ENSG00000116874	WARS2	241.8993661	0.468600229	2.89E-09
ENSG00000138246	DNAJC13	2200.4837	-0.321655032	2.92E-09
ENSG00000117877	POLR1G	66.71178313	1.223704051	2.92E-09
ENSG00000117682	DHDDS	747.5264683	0.47308719	2.95E-09
ENSG00000117174	ZNHIT6	465.7957969	0.380687188	2.96E-09
ENSG00000014257	ACP3	175.7148119	-1.680116135	2.98E-09
ENSG00000105825	TFPI2	869.6763377	3.66635845	3.01E-09
ENSG00000217512		53.35643297	-0.911664748	3.03E-09
ENSG00000279434		78.53012616	1.388884335	3.03E-09
ENSG00000135643	KCNMB4	54.29742251	-0.649100483	3.04E-09
ENSG00000175792	RUVBL1	671.3640306	0.669397079	3.05E-09
ENSG00000171827	ZNF570	285.6587864	0.346221841	3.05E-09

ENSG00000104964	TLE5	9149.269645	-0.435831254	3.09E-09
ENSG00000143507	DUSP10	1051.849939	0.871670114	3.09E-09
ENSG00000205339	IPO7	2340.481136	0.745019946	3.10E-09
ENSG00000111727	HCFC2	550.887611	0.32932274	3.13E-09
ENSG00000270077		37.41848812	-1.548138777	3.17E-09
ENSG00000186166	CENATAC	1067.004084	-0.452804203	3.17E-09
ENSG00000102910	LONP2	2636.852932	-0.296603303	3.18E-09
ENSG00000238105	GOLGA2P5	749.041556	-0.456692445	3.18E-09
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ENSG00000196440	ARMCX4	225.4617709	-0.584111979	3.23E-09
ENSG00000275023	MLLT6	12778.82512	0.456099467	3.23E-09
ENSG00000267342		31.00712391	0.941485524	3.23E-09
ENSG00000182742	HOXB4	129.5465539	0.5981278	3.25E-09
ENSG00000271109		211.598976	-0.42925434	3.26E-09
ENSG00000116237	ICMT	654.1743982	0.328109453	3.27E-09
ENSG00000234383	CTBP2P8	13.60070712	-2.39556998	3.28E-09
ENSG00000085063	CD59	1541.746954	0.492001951	3.33E-09
ENSG00000123815	COQ8B	811.3226566	-0.303353961	3.34E-09
ENSG00000106261	ZKSCAN1	3039.347966	0.336510027	3.34E-09
ENSG00000124575	H1-3	4082.348522	-0.938972221	3.34E-09
ENSG00000149657	LSM14B	1173.480538	-0.226060426	3.34E-09
ENSG00000243678	NME2	49.6041665	0.704712558	3.34E-09
ENSG00000124222	STX16	2973.568618	-0.388438664	3.34E-09
ENSG00000242999	RN7SL239P	78.76082551	-0.603079446	3.35E-09
ENSG00000120438	TCP1	2421.54961	0.38052261	3.37E-09
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ENSG00000230149		126.4078127	0.804361111	3.38E-09
ENSG00000152193	OBI1	612.8164744	0.649573819	3.39E-09
ENSG00000162971	TYW5	639.9604544	-0.514007295	3.42E-09
ENSG00000260052		20.6568269	1.859690046	3.45E-09
ENSG00000136816	TOR1B	1487.782965	0.87146996	3.46E-09
ENSG00000104312	RIPK2	2135.156617	0.869904303	3.46E-09
ENSG00000104889	RNASEH2A	128.6600651	0.512846043	3.47E-09
ENSG00000166619	BLCAP	2101.608491	-0.207373685	3.48E-09
ENSG00000088280	ASAP3	20.43149087	-1.490990671	3.49E-09
ENSG00000113141	IK	1423.82523	-0.377239224	3.50E-09
ENSG00000275807		83.45751365	0.545550727	3.50E-09
ENSG00000168924	LETM1	1433.813195	0.573064672	3.52E-09
ENSG00000260917		329.6189483	-0.394710258	3.52E-09
ENSG00000166716	ZNF592	3038.89456	-0.334888841	3.52E-09
ENSG00000163739	CXCL1	6077.393272	2.407520522	3.58E-09
ENSG00000228863		280.992909	1.317263458	3.58E-09
ENSG00000142546	NOSIP	1536.432452	-0.531287768	3.59E-09
ENSG00000148344	PTGES	2578.567371	3.202339609	3.59E-09
ENSG00000165417	GTF2A1	1566.877788	0.606122908	3.59E-09
ENSG00000125484	GTF3C4	754.8472379	0.341373146	3.60E-09
ENSG00000182685	BRICD5	187.9755138	-0.578072515	3.60E-09

ENSG00000167123	CERCAM	58.09806392	-1.451911798	3.61E-09
ENSG00000136866	ZFP37	116.5444836	0.861993219	3.62E-09
ENSG00000196263	ZNF471	53.26842063	0.628680272	3.62E-09
ENSG00000275894		36.12423082	1.140609602	3.65E-09
ENSG00000269981		259.891407	-1.541976412	3.67E-09
ENSG00000155744	FAM126B	2583.824915	-0.72728959	3.67E-09
ENSG00000102312	PORCN	166.3404284	-0.586605429	3.68E-09
ENSG00000115484	CCT4	2089.402079	0.466921327	3.68E-09
ENSG00000108733	PEX12	142.790123	0.586787777	3.77E-09
ENSG00000237753	SLC20A1-DT	126.7872463	0.491793198	3.77E-09
ENSG00000143575	HAX1	856.4640082	0.345051887	3.79E-09
ENSG00000231830		19.18902913	1.027190505	3.82E-09
ENSG00000279122		73.34477327	0.683664613	3.84E-09
ENSG00000111802	TDP2	2686.116826	0.636933973	3.84E-09
ENSG00000101444	AHCY	759.8674304	0.524825345	3.84E-09
ENSG00000102893	PHKB	2273.903429	-0.289752991	3.86E-09
ENSG00000104897	SF3A2	1376.419352	-0.312381824	3.86E-09
ENSG00000159905	ZNF221	79.47647159	1.002382839	3.89E-09
ENSG00000115602	IL1RL1	545.2530407	1.252314884	3.89E-09
ENSG00000197182	MIRLET7BHG	548.9080343	-0.480882708	3.89E-09
ENSG00000177888	ZBTB41	881.7368361	0.469519783	3.91E-09
ENSG00000199218	RN7SKP184	32.11768065	1.073637491	3.92E-09
ENSG00000171574	ZNF584	167.6660186	0.881789818	3.92E-09
ENSG00000173200	PARP15	1342.868928	-0.643457097	3.95E-09
ENSG00000189410	SH2D5	14.35152159	-1.647535613	3.98E-09
ENSG00000177398	UMODL1	28.38516371	-1.039447604	3.99E-09
ENSG00000162032	SPSB3	1544.404391	-0.520521291	4.00E-09
ENSG00000085840	ORC1	55.97274245	-0.931478451	4.01E-09
ENSG00000268912		94.59455224	1.067431815	4.01E-09
ENSG00000054219	LY75	543.7492569	-0.539125297	4.02E-09
ENSG00000234788	HSPA8P3	24.19615115	0.916317604	4.02E-09
ENSG00000023909	GCLM	763.3586023	0.528438787	4.04E-09
ENSG00000152359	POC5	387.2264044	0.289824562	4.04E-09
ENSG00000213149	CNN2P9	26.16601499	-1.009395132	4.04E-09
ENSG00000248092	NNT-AS1	272.3689044	0.439429233	4.04E-09
ENSG00000130827	PLXNA3	1003.068538	-0.430622452	4.05E-09
ENSG00000184451	CCR10	23.90513209	-1.967390009	4.07E-09
ENSG00000100150	DEPDC5	1106.579606	-0.249510213	4.10E-09
ENSG00000267009		179.4262202	-0.644523019	4.15E-09
ENSG00000231412		13.65235379	-3.324943754	4.16E-09
ENSG00000124217	MOCS3	376.9758019	0.483172146	4.17E-09
ENSG00000122783	CYREN	884.6203406	0.383658109	4.17E-09
ENSG00000233822	H2BC15	429.4158633	-0.863633706	4.19E-09
ENSG00000233214		63.46563415	1.740019196	4.21E-09
ENSG00000156958	GALK2	629.8849926	-0.267224167	4.21E-09
ENSG00000115091	ACTR3	11140.20984	0.509775615	4.22E-09
ENSG00000125459	MSTO1	287.6820097	0.417484122	4.23E-09
ENSG00000184209	SNRNP35	587.0959082	-0.321238867	4.24E-09
ENSG00000231808	LINC01388	11.51389087	2.375417091	4.25E-09
ENSG00000172738	TMEM217	22.1035311	1.425721263	4.27E-09
ENSG00000101421	CHMP4B	2513.855661	0.678884307	4.27E-09

ENSG00000110169	HPX	17.33272104	-1.492489833	4.30E-09
ENSG00000175985	PLEKHD1	19.39477536	-1.53146961	4.30E-09
ENSG00000106804	C5	137.8979587	-0.863571942	4.32E-09
ENSG00000132341	RAN	2981.185371	0.639932788	4.32E-09
ENSG00000105576	TNPO2	1255.239902	0.243367623	4.33E-09
ENSG00000223547	ZNF844	750.2307882	-0.576086641	4.33E-09
ENSG00000111358	GTF2H3	426.9677702	0.330005951	4.37E-09
ENSG00000126749	EMG1	569.0367583	0.333461928	4.39E-09
ENSG00000103404	USP31	364.7501678	0.659952353	4.40E-09
ENSG00000112081	SRSF3	7082.880428	0.274500522	4.40E-09
ENSG00000167778	SPRYD3	1146.66689	-0.301417778	4.41E-09
ENSG00000146247	PHIP	5163.124637	-0.349997127	4.43E-09
ENSG00000100280	AP1B1	2626.003792	0.411905808	4.46E-09
ENSG00000100351	GRAP2	2823.771133	-0.378968667	4.47E-09
ENSG00000105371	ICAM4	133.9045034	0.94406915	4.48E-09
ENSG00000185090	MANEAL	65.21028141	0.854400715	4.49E-09
ENSG00000178996	SNX18	3279.791814	-0.89396125	4.51E-09
ENSG00000259820	MIR30DHG	277.1560432	0.75223251	4.53E-09
ENSG00000099330	OCEL1	211.2835074	-0.6831261	4.53E-09
ENSG00000142405	NLRP12	1233.873194	-1.120529695	4.61E-09
ENSG00000245849	RAD51-AS1	525.5451601	-0.502904179	4.62E-09
ENSG00000249592	PCGF3-AS1	903.0608734	0.383628492	4.62E-09
ENSG00000152217	SETBP1	480.7165224	-0.533010886	4.62E-09
ENSG00000181322	NME9	29.21657528	1.241142686	4.63E-09
ENSG00000170545	SMAGP	88.42913774	-0.523584946	4.65E-09
ENSG00000249258		33.76105644	-0.876520137	4.68E-09
ENSG00000163110	PDLIM5	1662.362906	0.64393852	4.70E-09
ENSG00000168060	NAALADL1	137.2193844	-0.642771865	4.70E-09
ENSG00000214765	SEPTIN7P2	584.6789466	-0.488618428	4.70E-09
ENSG00000171631	P2RY6	194.0599279	1.561560522	4.71E-09
ENSG00000279082	LINC01727	59.24904076	0.985378503	4.73E-09
ENSG00000226564	FTH1P20	51.70233753	1.17281951	4.74E-09
ENSG00000169129	AFAP1L2	69.80070222	-0.651874598	4.78E-09
ENSG00000273245		112.4066268	-0.639614189	4.84E-09
ENSG00000172728	FUT10	189.6471736	-0.515996063	4.89E-09
ENSG00000156990	RPUSD3	625.9435041	0.496535506	4.90E-09
ENSG00000132128	LRRC41	1326.588682	0.283384744	4.91E-09
ENSG00000151116	UEVLD	511.2247196	0.455488422	4.95E-09
ENSG00000004059	ARF5	1595.665805	-0.426351205	4.98E-09
ENSG00000254004	ZNF260	519.12344	0.631578052	5.03E-09
ENSG00000115904	SOS1	2565.445212	0.468847465	5.03E-09
ENSG00000215305	VPS16	1068.982235	-0.357213348	5.06E-09
ENSG00000149231	CCDC82	1430.240235	0.361964356	5.07E-09
ENSG00000255031		400.6434732	-0.565617531	5.07E-09
ENSG00000261512		173.111886	-0.616134735	5.08E-09
ENSG00000148019	CEP78	1183.681064	-0.574401787	5.12E-09
ENSG00000104881	PPP1R13L	149.635516	0.547399188	5.12E-09
ENSG00000168118	RAB4A	550.148504	-0.249091867	5.14E-09
ENSG00000137944	KYAT3	741.2850245	0.284181368	5.14E-09
ENSG00000157764	BRAF	2830.904312	0.367557701	5.14E-09
ENSG00000143319	ISG20L2	1723.820687	0.300818128	5.14E-09

ENSG00000163468	CCT3	2228.797138	0.610598007	5.15E-09
ENSG00000145041	DCAF1	1188.938936	0.324761867	5.15E-09
ENSG00000164296	TIGD6	119.5608247	0.517280287	5.16E-09
ENSG00000113658	SMAD5	934.0020383	-0.271105036	5.16E-09
ENSG00000197111	PCBP2	6025.915492	-0.322015572	5.18E-09
ENSG00000134247	PTGFRN	68.37812291	-1.472334028	5.19E-09
ENSG00000155463	OXA1L	2003.491639	-0.353751133	5.21E-09
ENSG00000238005	LNCATV	581.9314135	1.901232109	5.22E-09
ENSG00000169446	MMGT1	756.9194294	-0.346237454	5.29E-09
ENSG00000155313	USP25	3648.276308	-0.424744964	5.30E-09
ENSG00000242550	SERPINB10	23.39827997	-1.718981642	5.31E-09
ENSG00000099290	WASHC2A	1656.073088	0.408051431	5.33E-09
ENSG00000189409	MMP23B	16.23513587	-1.807853096	5.34E-09
ENSG00000172954	LCLAT1	539.2403934	-0.33180209	5.36E-09
ENSG00000223224	SNORD71	40.91037613	-1.027996788	5.40E-09
ENSG00000253943	KRT18P37	44.72839471	0.888700711	5.40E-09
ENSG00000153406	NMRAL1	497.9890066	-0.735321916	5.46E-09
ENSG00000223705	NSUN5P1	792.2207152	-0.459469606	5.48E-09
ENSG00000142186	SCYL1	1366.288583	-0.374535008	5.50E-09
ENSG00000110811	P3H3	59.41300734	-0.903176962	5.53E-09
ENSG00000166860	ZBTB39	670.3346127	0.292117412	5.58E-09
ENSG00000013810	TACC3	2811.677462	-0.44400041	5.60E-09
ENSG00000259994		48.10513369	0.705156773	5.61E-09
ENSG00000128513	POT1	583.202909	0.381343193	5.63E-09
ENSG00000105072	C19orf44	122.2231638	0.93272914	5.64E-09
ENSG00000151882	CCL28	196.5762712	-0.56791719	5.65E-09
ENSG00000131849	ZNF132	255.1639096	1.207368759	5.66E-09
ENSG00000151929	BAG3	533.2090501	0.548392406	5.74E-09
ENSG00000271795		45.75286732	-1.139394952	5.79E-09
ENSG00000117143	UAP1	693.0303015	0.463627359	5.79E-09
ENSG00000165943	MOAP1	1060.538221	-0.565261354	5.82E-09
ENSG00000196305	IARS1	1957.060237	0.46543367	5.85E-09
ENSG00000096654	ZNF184	493.888066	0.547117822	5.85E-09
ENSG00000138767	CNOT6L	9120.097403	0.609558827	5.88E-09
ENSG00000118894	EEF2KMT	202.0022609	0.749837319	5.94E-09
ENSG00000151576	QTRT2	793.5146083	0.34661648	5.96E-09
ENSG00000259066		18.51515146	1.125234008	6.01E-09
ENSG00000183018	SPNS2	45.5226624	-1.688352781	6.02E-09
ENSG00000082641	NFE2L1	2143.407039	0.459828594	6.05E-09
ENSG00000053372	MRT04	524.6642012	0.739894747	6.09E-09
ENSG00000169439	SDC2	2091.311331	2.076036017	6.11E-09
ENSG00000234684	SDCBP2-AS1	315.8747417	0.377749662	6.13E-09
ENSG00000164818	DNAAF5	440.7560233	0.466056102	6.17E-09
ENSG00000273366		16.81392878	1.049086457	6.17E-09
ENSG00000213654	GPSM3	4680.868905	-0.454284648	6.18E-09
ENSG00000132467	UTP3	489.7809249	0.428390087	6.22E-09
ENSG00000114841	DNAH1	2999.299035	-0.506365582	6.22E-09
ENSG00000164061	BSN	26.15666175	1.26349791	6.22E-09
ENSG00000158669	GPAT4	2320.728158	0.301622887	6.28E-09
ENSG00000156414	TDRD9	83.71212089	-0.938960159	6.32E-09
ENSG00000111664	GNB3	15.96270182	-1.466286682	6.32E-09

ENSG00000128699	ORMDL1	1309.396804	-0.340347244	6.35E-09
ENSG00000110442	COMMD9	673.8767524	-0.68676549	6.39E-09
ENSG00000258441	LINC00641	1578.798553	0.405966116	6.44E-09
ENSG00000185513	L3MBTL1	454.4160255	-0.536880488	6.46E-09
ENSG00000154252	GAL3ST2	31.62277604	1.591520008	6.46E-09
ENSG00000164144	ARFIP1	1412.380306	0.817741866	6.47E-09
ENSG00000067836	ROGDI	424.736264	-1.133567868	6.54E-09
ENSG00000099953	MMP11	45.12627498	-1.099838665	6.56E-09
ENSG00000100304	TTLL12	666.2462692	0.330115621	6.57E-09
ENSG00000171860	C3AR1	4238.043361	2.066583237	6.58E-09
ENSG00000138399	FASTKD1	524.7333214	0.48176132	6.61E-09
ENSG00000180957	PITPNB	1404.00578	0.447093709	6.61E-09
ENSG00000147576	ADHFE1	234.1503123	-0.586386358	6.65E-09
ENSG00000170486	KRT72	350.1376204	-0.63255304	6.66E-09
ENSG00000225889		719.858959	-1.074203493	6.68E-09
ENSG00000144566	RAB5A	2022.797593	0.559262883	6.68E-09
ENSG00000163406	SLC15A2	252.9515618	-0.569868822	6.68E-09
ENSG00000163608	NEPRO	1207.941219	0.253699144	6.78E-09
ENSG00000173281	PPP1R3B	1593.742001	-0.728270551	6.80E-09
ENSG00000232891		37.31196777	-1.413837857	6.82E-09
ENSG00000130175	PRKCSH	3237.569033	-0.35950344	6.82E-09
ENSG00000103647	CORO2B	34.42325528	-2.017507484	6.84E-09
ENSG00000172819	RARG	488.0434838	-0.425144476	6.87E-09
ENSG00000103994	ZNF106	4055.234817	-0.472735858	6.97E-09
ENSG00000156261	CCT8	1854.318195	0.39514123	6.98E-09
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ENSG00000092621	PHGDH	82.39184289	-0.989008315	7.18E-09
ENSG00000261359	PYCARD-AS1	41.36780549	-0.984549833	7.22E-09
ENSG00000197083	ZNF300P1	14.45664609	2.465263344	7.27E-09
ENSG00000219507	FTH1P8	48.0674281	1.183194225	7.28E-09
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ENSG00000184857	TMEM186	179.4729984	0.624973918	7.32E-09
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ENSG00000277440		24.80538764	0.955242502	7.37E-09
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ENSG00000187607	ZNF286A	245.3185909	0.489011391	7.44E-09
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ENSG00000146856	AGBL3	187.6002634	0.389307303	7.53E-09
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ENSG00000280953	LINC01163	15.54786069	-1.849818126	7.56E-09
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ENSG00000268154		76.79717711	-0.636416399	7.66E-09
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ENSG00000258181		145.6391812	0.557632256	7.87E-09

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ENSG00000164219	PGGT1B	1583.922571	-0.25785158	7.93E-09
ENSG00000114126	TFDP2	1234.32663	-0.420597355	7.98E-09
ENSG00000223361	FTH1P10	54.12180538	1.234958185	7.98E-09
ENSG00000120129	DUSP1	17827.23673	-1.159160558	8.01E-09
ENSG00000167625	ZNF526	663.9943438	0.425376667	8.02E-09
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ENSG00000237854	LINC00674	393.5408777	-0.3387552	8.26E-09
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ENSG00000130414	NDUFA10	2111.851026	-0.172532033	8.27E-09
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ENSG00000101181	MTG2	1002.951486	0.584997889	8.32E-09
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ENSG00000160447	PKN3	70.46639318	-0.932100564	8.36E-09
ENSG00000260400		20.04451557	-1.022226146	8.36E-09
ENSG00000256372		31.32999344	1.090854951	8.37E-09
ENSG00000188976	NOC2L	1189.112178	0.40898965	8.37E-09
ENSG00000232931	LINC00342	455.934659	-0.611264042	8.38E-09
ENSG00000105438	KDELR1	721.2600541	-0.368599936	8.42E-09
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ENSG00000226763	SRRM5	26.38728843	-1.24752373	8.50E-09
ENSG00000125834	STK35	1434.454455	0.248379494	8.50E-09
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ENSG00000129680	MAP7D3	254.4072801	0.395213513	9.17E-09
ENSG00000130717	UCK1	549.2509793	-0.330959399	9.17E-09
ENSG00000225648	SBDSP1	655.3446186	-0.673164031	9.17E-09
ENSG00000212246	RNU6-360P	16.18672568	1.399513265	9.17E-09
ENSG00000224940	PRRT4	25.20613756	1.321258421	9.25E-09
ENSG00000272288	ILRUN-AS1	53.55438053	0.794978509	9.25E-09
ENSG00000118246	FASTKD2	715.8965186	0.338738385	9.25E-09
ENSG00000185477	GPRIN3	4381.740808	0.591450384	9.27E-09
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ENSG00000188026	RILPL1	138.6432508	-0.779630978	9.28E-09
ENSG00000120832	MTERF2	216.5351707	-0.522184012	9.31E-09
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ENSG00000137462	TLR2	8203.161594	1.099018857	9.53E-09
ENSG00000100029	PES1	1039.503619	0.740183381	9.54E-09
ENSG00000115977	AAK1	6160.368822	-0.348090073	9.56E-09
ENSG00000128596	CCDC136	277.6321691	-0.41448559	9.62E-09
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ENSG00000182195	LDOC1	69.66217882	-0.616727903	9.69E-09
ENSG00000166920	C15orf48	6590.839034	3.536387673	9.69E-09
ENSG00000141568	FOXK2	1663.308627	0.336682576	9.78E-09
ENSG00000168675	LDLRAD4	2958.413724	0.979614735	9.82E-09
ENSG00000228906		85.59229538	-0.591132018	9.87E-09
ENSG00000136044	APPL2	1704.022852	-0.383841391	9.87E-09
ENSG00000162771	GARIN4	14.87656161	1.94297956	9.89E-09
ENSG00000168374	ARF4	1841.57333	0.473390708	9.95E-09
ENSG00000170312	CDK1	58.15608014	1.035231392	9.99E-09
ENSG00000273432		19.11992947	-1.247312714	9.99E-09
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ENSG00000179041	RRS1	221.8476067	0.472701532	1.00E-08
ENSG00000136213	CHST12	2724.805585	0.600110413	1.01E-08
ENSG00000171148	TADA3	1511.76123	-0.388939592	1.01E-08
ENSG00000183813	CCR4	1505.018856	1.066654496	1.01E-08
ENSG00000132879	FBXO44	492.7570521	-0.764883855	1.01E-08
ENSG00000186666	BCDIN3D	285.1796338	0.594034167	1.01E-08
ENSG00000248773		26.96959092	-1.415831304	1.02E-08
ENSG00000167110	GOLGA2	934.0169098	-0.446223987	1.03E-08
ENSG00000000971	CFH	107.708008	-0.794675872	1.03E-08
ENSG00000156860	FBRS	5777.580896	0.377863853	1.04E-08
ENSG00000167034	NKX3-1	92.319514	-1.128139625	1.04E-08
ENSG00000172007	RAB33B	690.6445258	-0.560388951	1.04E-08
ENSG00000148606	POLR3A	835.7309742	0.323763188	1.05E-08
ENSG00000177932	ZNF354C	475.4327126	0.349375985	1.05E-08
ENSG00000165264	NDUFB6	275.1879532	-0.497935321	1.05E-08
ENSG00000280153		329.6874105	-0.73175618	1.05E-08
ENSG00000105497	ZNF175	407.5308638	0.830343366	1.06E-08
ENSG00000167635	ZNF146	1329.830582	0.583057217	1.06E-08
ENSG00000129315	CCNT1	2282.565105	0.277266488	1.06E-08
ENSG00000127948	POR	1844.393576	0.507553936	1.08E-08
ENSG00000185495	SEPTIN7P13	458.9198267	-0.417633517	1.08E-08
ENSG00000156170	NDUFAF6	415.1224123	0.337786739	1.08E-08
ENSG00000272886	DCP1A	1744.956139	0.286075973	1.08E-08
ENSG00000278356		37.39703481	-1.228521477	1.09E-08
ENSG00000270083		69.44962917	-0.890241747	1.09E-08
ENSG00000164933	SLC25A32	855.0562198	0.387236686	1.10E-08
ENSG00000264764	MIR4772	17.87777589	-1.943017303	1.10E-08
ENSG00000108439	PNPO	337.6757661	0.399118363	1.10E-08
ENSG00000102984	ZNF821	261.567465	-0.53602676	1.10E-08
ENSG00000153563	CD8A	4290.988631	0.529190961	1.10E-08
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ENSG00000167904	TMEM68	388.288312	0.498368059	1.10E-08
ENSG00000177173	NAP1L4P1	793.7933331	1.110434928	1.10E-08

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ENSG00000261656	BEAN1-AS1	10.1899492	-2.091887822	1.12E-08
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ENSG00000138686	BBS7	270.1566939	0.449275462	1.14E-08
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ENSG00000167566	NCKAP5L	1134.139246	-0.669028774	1.15E-08
ENSG00000148090	AUH	439.6268005	-0.510896973	1.16E-08
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ENSG00000172667	ZMAT3	892.6292018	-0.347193456	1.16E-08
ENSG00000178425	NT5DC1	760.2143564	-0.375489265	1.17E-08
ENSG00000274180	NATD1	1049.492969	-0.864286717	1.17E-08
ENSG00000275111	ZNF2	180.6741044	1.128523902	1.17E-08
ENSG00000144228	SPOPL	2243.963836	-0.521586753	1.18E-08
ENSG00000174206	KICS2	367.1388138	0.341859672	1.18E-08
ENSG00000237471		22.0158672	-1.241158442	1.19E-08
ENSG00000122386	ZNF205	18.17285013	-2.124864177	1.19E-08
ENSG00000107282	APBA1	38.15442375	-1.00573203	1.20E-08
ENSG00000255112	CHMP1B	2653.344497	-0.460324388	1.20E-08
ENSG00000171466	ZNF562	1162.066664	0.38871406	1.21E-08
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ENSG00000198538	ZNF28	509.2331631	0.592732407	1.22E-08
ENSG00000110844	PRPF40B	300.5917082	0.347396244	1.23E-08
ENSG00000138600	SPPL2A	2919.863216	0.808941824	1.23E-08
ENSG00000168137	SETD5	4529.243424	0.556276254	1.24E-08
ENSG00000278318	ZNF229	41.162895	0.623168914	1.24E-08
ENSG00000174032	SLC25A30	498.6801132	-0.3624932	1.25E-08
ENSG00000243649	CFB	14.17857422	2.413795611	1.25E-08
ENSG00000265393		39.82494475	0.714366163	1.25E-08
ENSG00000125505	MBOAT7	4766.678553	-0.825035042	1.26E-08
ENSG00000145911	N4BP3	492.2334895	1.29778943	1.26E-08
ENSG00000121671	CRY2	1367.987639	-0.360554955	1.26E-08
ENSG00000197798	FAM118B	281.949411	0.429190211	1.26E-08
ENSG00000101331	CCM2L	132.2566556	3.129885511	1.26E-08
ENSG00000108384	RAD51C	271.6021232	0.398197278	1.28E-08
ENSG00000196295	GARS1-DT	3554.380895	-0.247326656	1.28E-08
ENSG00000090104	RGS1	1416.374799	1.148712585	1.29E-08
ENSG00000196954	CASP4	4458.503609	0.581027553	1.29E-08
ENSG00000253008	MIR2355	31.13586037	-1.055030236	1.29E-08
ENSG00000221944	TIGD1	538.9447622	-0.607169134	1.29E-08
ENSG00000253797	UTP14C	581.982664	0.448761149	1.29E-08
ENSG00000258704	SRP54-AS1	212.7426836	0.500290861	1.29E-08
ENSG00000213199	ASIC3	59.48108496	-0.902838257	1.30E-08
ENSG00000111834	RSPH4A	18.52304246	-1.889564742	1.30E-08
ENSG00000108561	C1QBP	944.2561643	0.527598258	1.30E-08
ENSG00000110660	SLC35F2	180.3785701	0.555965708	1.30E-08

ENSG00000232859	LYRM9	250.4684673	-0.513369266	1.30E-08
ENSG00000179630	LACC1	755.6809083	1.97101388	1.30E-08
ENSG00000225313		11.06245277	-1.499887388	1.30E-08
ENSG00000164182	NDUFAF2	160.0630227	0.719342617	1.31E-08
ENSG00000097046	CDC7	282.6528527	0.407810891	1.31E-08
ENSG00000170558	CDH2	7.87490371	-2.633821372	1.33E-08
ENSG00000162585	FAAP20	594.8717888	-0.595347183	1.33E-08
ENSG00000067445	TRO	34.18122852	0.947663716	1.33E-08
ENSG00000166821	PEX11A	68.62288247	0.687631828	1.33E-08
ENSG00000279884		190.4349559	-0.605396836	1.34E-08
ENSG00000185222	TCEAL9	38.83703685	1.323348358	1.34E-08
ENSG00000187535	IFT140	232.3033754	-0.421250412	1.34E-08
ENSG00000230289		18.88787977	-1.221182351	1.34E-08
ENSG00000181284	TMEM102	303.3614564	0.640997285	1.35E-08
ENSG00000233903		24.12328829	0.856172817	1.35E-08
ENSG00000254635	WAC-AS1	630.0965731	-0.455275119	1.36E-08
ENSG00000270115		66.76298831	-0.944969531	1.37E-08
ENSG00000269939	PCF11-AS1	94.41013898	0.902198848	1.37E-08
ENSG00000162747	FCGR3B	13783.85093	-1.771993999	1.39E-08
ENSG00000236104	ZBTB22	726.7911008	-0.41713394	1.39E-08
ENSG00000134001	EIF2S1	1361.326447	0.753148458	1.39E-08
ENSG00000274929		41.85456535	-0.942417344	1.39E-08
ENSG00000160683	CXCR5	778.5708961	0.397778534	1.40E-08
ENSG00000197566	ZNF624	255.2709706	0.4106352	1.40E-08
ENSG00000112578	BYSL	185.6340111	1.394812736	1.41E-08
ENSG00000284526		115.1278691	-1.097445182	1.42E-08
ENSG00000270419	CAHM	77.79132675	0.567291255	1.43E-08
ENSG00000250771		539.2871683	2.289391967	1.43E-08
ENSG00000078967	UBE2D4	260.6407889	0.362409376	1.44E-08
ENSG00000165655	ZNF503	131.211271	-1.510672584	1.44E-08
ENSG00000247373	TMED2-DT	238.7755778	0.539782638	1.44E-08
ENSG00000124193	SRSF6	5067.381582	0.185735044	1.44E-08
ENSG00000049768	FOXP3	205.3272218	0.729381154	1.44E-08
ENSG00000265967		40.70736064	-0.807353954	1.44E-08
ENSG00000232680		105.3107468	1.525242791	1.45E-08
ENSG00000151240	DIP2C	247.0917584	-0.533296181	1.46E-08
ENSG00000068354	TBC1D25	758.9528368	-0.369600844	1.47E-08
ENSG00000134905	CARS2	1949.900833	-0.595314849	1.48E-08
ENSG00000197635	DPP4	628.2744929	-0.611433535	1.48E-08
ENSG00000215271	HOMEZ	504.7411145	0.603960682	1.48E-08
ENSG00000171791	BCL2	2378.670242	-0.823280995	1.48E-08
ENSG00000259641		9.643266669	-2.356022046	1.49E-08
ENSG00000226530		27.22443111	-0.946244028	1.49E-08
ENSG00000255517	DPP3-DT	98.75105503	0.769955062	1.50E-08
ENSG00000078589	P2RY10	1591.064954	0.584128137	1.50E-08
ENSG00000131375	CAPN7	2135.782316	-0.282154684	1.51E-08
ENSG00000182985	CADM1	240.9671009	1.049726377	1.51E-08
ENSG00000254750	CASP1P2	56.45870939	0.933672066	1.51E-08
ENSG00000023892	DEF6	4261.754369	-0.297712695	1.52E-08
ENSG00000269125		13.3354346	1.671163572	1.52E-08
ENSG00000281649	EBLN3P	2187.933679	-0.336278849	1.52E-08

ENSG00000173890	GPR160	528.852991	-0.743218221	1.53E-08
ENSG00000183696	UPP1	3775.552567	0.520984782	1.56E-08
ENSG00000278709	NKILA	107.3864054	1.518107844	1.56E-08
ENSG00000206687	RNU1-109P	15.94324089	-1.471795429	1.57E-08
ENSG00000179583	CIITA	3999.682979	-0.606527726	1.57E-08
ENSG00000263366	ABHD17AP5	29.73793844	-1.224404857	1.58E-08
ENSG00000108395	TRIM37	682.8391325	0.248150237	1.58E-08
ENSG00000272335		192.023843	0.766869357	1.59E-08
ENSG00000110048	OSBP	1655.776255	0.232273642	1.59E-08
ENSG00000132514	CLEC10A	276.1104911	-1.940705414	1.60E-08
ENSG00000101608	MYL12A	4965.66786	-0.428375285	1.62E-08
ENSG00000275383		17.22105454	-1.346878572	1.62E-08
ENSG00000259577	CERNA1	60.53437111	-0.895310331	1.62E-08
ENSG00000088543	C3orf18	214.0657749	-0.819654831	1.63E-08
ENSG00000079257	LXN	112.5954505	-0.58534182	1.63E-08
ENSG00000068903	SIRT2	1130.907671	-0.342171574	1.64E-08
ENSG00000144935	TRPC1	170.7796831	-0.51941843	1.64E-08
ENSG00000197451	HNRNPAB	1472.735869	0.654297228	1.65E-08
ENSG00000124641	MED20	344.6090676	0.549091335	1.65E-08
ENSG00000146221	TCTE1	19.22591127	-1.587713749	1.65E-08
ENSG00000213639	PPP1CB	8833.500888	0.406453061	1.66E-08
ENSG00000275673		35.37065019	0.990630691	1.66E-08
ENSG00000129534	MIS18BP1	1713.901113	-0.602158844	1.66E-08
ENSG00000116350	SRSF4	2684.446799	-0.273743403	1.67E-08
ENSG00000102931	ARL2BP	922.4224271	-0.276979632	1.67E-08
ENSG00000153914	SREK1	2497.614843	-0.442534682	1.68E-08
ENSG00000077380	DYNC1I2	1174.93709	0.475737972	1.68E-08
ENSG00000240535		18.68014118	-1.369181104	1.69E-08
ENSG00000139546	TARBP2	325.313949	0.323426811	1.69E-08
ENSG00000125910	S1PR4	3282.861318	-0.498610164	1.71E-08
ENSG00000128815	WDFY4	4031.04093	-0.460958332	1.71E-08
ENSG00000279996		102.7653317	1.924909322	1.71E-08
ENSG00000240849	PEDS1	500.7216448	-0.271204815	1.71E-08
ENSG00000103415	HMOX2	947.5033632	-0.358148819	1.72E-08
ENSG00000155330	C16orf87	293.8380028	-0.52907795	1.72E-08
ENSG00000246067	RAB30-DT	760.4305734	0.674775062	1.72E-08
ENSG00000107819	SFXN3	1283.508423	-0.35851605	1.72E-08
ENSG00000279166		1257.727983	0.801143481	1.72E-08
ENSG00000104140	RHOV	53.51175965	3.44855737	1.73E-08
ENSG00000204396	VWA7	28.10915588	-1.311210097	1.73E-08
ENSG00000233184	DPH5-DT	356.688835	0.448254475	1.73E-08
ENSG00000070718	AP3M2	1252.811386	0.427121652	1.74E-08
ENSG00000174007	CEP19	213.5804475	-0.671373848	1.74E-08
ENSG00000171462	DLK2	9.742943989	1.342530488	1.76E-08
ENSG00000085788	DDHD2	853.9947935	-0.302067327	1.77E-08
ENSG00000168556	ING2	146.0771081	-0.794144636	1.77E-08
ENSG00000131115	ZNF227	731.2952047	0.309192698	1.77E-08
ENSG00000163463	KRTCAP2	163.5319432	0.62386875	1.77E-08
ENSG00000234231	ANAPC1P4	111.7878652	-0.779642796	1.78E-08
ENSG00000270069	MIR222HG	552.5671835	1.46547955	1.78E-08
ENSG00000214770		30.32574094	1.178999314	1.78E-08

ENSG00000215788	TNFRSF25	3846.333648	0.872845946	1.79E-08
ENSG00000167702	KIFC2	572.5698587	-1.008282573	1.79E-08
ENSG00000103275	UBE2I	2799.305147	-0.37274106	1.80E-08
ENSG00000215790	SLC35E2A	496.9775612	-0.303593178	1.80E-08
ENSG00000272768		84.85535648	0.801115889	1.81E-08
ENSG00000025156	HSF2	386.2993091	-0.461425221	1.82E-08
ENSG00000233365		7.48639996	2.007750766	1.82E-08
ENSG00000162522	KIAA1522	45.34627711	-1.101542543	1.82E-08
ENSG00000119408	NEK6	1350.298844	-0.665162104	1.82E-08
ENSG00000131037	EPS8L1	28.75975595	-1.427682515	1.84E-08
ENSG00000041802	LSG1	989.1023474	0.232883754	1.84E-08
ENSG00000066027	PPP2R5A	2557.994523	-0.501473253	1.85E-08
ENSG00000178015	GPR150	15.51265402	-1.802341364	1.86E-08
ENSG00000158882	TOMM40L	550.9569823	0.668114028	1.86E-08
ENSG00000204528	PSORS1C3	11.3289478	-1.445855955	1.86E-08
ENSG00000177879	AP3S1	690.0782812	-0.390821641	1.86E-08
ENSG00000101558	VAPA	3670.240319	-0.408002858	1.87E-08
ENSG00000276317		175.7327736	0.669011353	1.87E-08
ENSG00000207034		111.2243927	-0.784085066	1.87E-08
ENSG00000163597	SNHG16	1762.977205	0.335598355	1.88E-08
ENSG00000236700	LINC01010	48.71722621	2.305526866	1.88E-08
ENSG00000182240	BACE2	144.3380239	-0.825101473	1.88E-08
ENSG00000151065	DCP1B	508.4557918	0.440251291	1.89E-08
ENSG00000279416		60.14832275	-1.0889985	1.89E-08
ENSG00000091140	DLD	1536.014946	0.361479303	1.90E-08
ENSG00000242049	DNAJB8-AS1	5.81680903	-5.196042172	1.91E-08
ENSG00000227486		27.25529049	-1.048477156	1.92E-08
ENSG00000083817	ZNF416	274.5921187	0.513641631	1.93E-08
ENSG00000219626	FAM228B	411.4426695	-0.480716908	1.93E-08
ENSG00000184260	H2AC20	2763.15678	-0.800983031	1.93E-08
ENSG00000099338	CATSPERG	308.435804	-0.555098472	1.93E-08
ENSG00000160049	DFFA	819.3126153	0.378601773	1.95E-08
ENSG00000119125	GDA	6.774410118	3.085593907	1.95E-08
ENSG00000173598	NUDT4	1561.891094	-0.507744933	1.96E-08
ENSG00000197771	MCMBP	2071.580671	0.343583708	2.01E-08
ENSG00000213585	VDAC1	1123.978758	0.814178375	2.01E-08
ENSG00000214892	USP8P1	15.16796476	1.196964891	2.01E-08
ENSG00000101846	STS	141.4897661	-0.712650032	2.02E-08
ENSG00000100804	PSMB5	402.4698035	0.747481981	2.02E-08
ENSG00000075785	RAB7A	4103.559116	0.459936019	2.02E-08
ENSG00000139508	SLC46A3	465.1482105	-0.555788831	2.03E-08
ENSG00000154814	OXNAD1	3169.410681	-0.423119843	2.03E-08
ENSG00000100578	KIAA0586	1192.231187	0.258271662	2.04E-08
ENSG00000207808	MIR27A	39.03998173	1.133270433	2.04E-08
ENSG00000188596	CFAP54	45.8879356	-1.070252581	2.05E-08
ENSG00000269352	PTOV1-AS2	438.4399446	-0.490426732	2.06E-08
ENSG00000125144	MT1G	47.98132072	3.109125698	2.06E-08
ENSG00000095261	PSMD5	976.8901712	0.226336714	2.06E-08
ENSG00000164509	IL31RA	30.63571526	-2.646694585	2.06E-08
ENSG00000140830	TXNL4B	521.2017002	0.408265533	2.06E-08
ENSG00000283141	LINC02666	40.83597609	-1.149702967	2.06E-08

ENSG00000143498	TAF1A	217.1548878	0.739747279	2.07E-08
ENSG00000140043	PTGR2	94.7553877	0.563184172	2.07E-08
ENSG00000007944	MYLIP	2531.174782	-0.505338293	2.08E-08
ENSG00000270441	LAMB2P1	158.8098082	-0.531225676	2.08E-08
ENSG00000166741	NNMT	15.702906	-1.716551192	2.09E-08
ENSG00000261824	LINC00662	403.2652273	0.537336814	2.09E-08
ENSG00000119812	FAM98A	437.440081	0.747531201	2.10E-08
ENSG00000250673	REELD1	35.73030626	-1.420541618	2.11E-08
ENSG00000174485	DENND4A	6291.297208	0.582673228	2.12E-08
ENSG00000133422	MORC2	1004.688731	-0.327064234	2.13E-08
ENSG00000132424	PNISR	6616.836485	-0.291104729	2.15E-08
ENSG00000215424	MCM3AP-AS1	143.124342	0.707075847	2.15E-08
ENSG00000151093	OXSM	182.1366804	0.452399999	2.15E-08
ENSG00000246084	LINC02325	260.5023291	0.58735434	2.15E-08
ENSG00000010404	IDS	4315.698108	-0.406957475	2.16E-08
ENSG00000204287	HLA-DRA	16942.066	0.590560148	2.16E-08
ENSG00000248333	CDK11B	927.2318093	-0.511554073	2.17E-08
ENSG00000198972	MIRLET7E	15.73708976	1.584970919	2.18E-08
ENSG00000133574	GIMAP4	5055.876474	0.489072976	2.18E-08
ENSG00000139324	TMTC3	552.9637816	0.447209122	2.18E-08
ENSG00000114120	SLC25A36	1652.935743	-0.652390049	2.18E-08
ENSG00000170903	MSANTD4	506.2089107	0.51902219	2.18E-08
ENSG00000086967	MYBPC2	10.00297108	-2.11529987	2.19E-08
ENSG00000207370		61.79334465	-0.801488238	2.20E-08
ENSG00000144580	CNOT9	1616.242254	0.196488414	2.20E-08
ENSG00000184293	CLECL1	69.88582332	0.62322839	2.20E-08
ENSG00000002330	BAD	373.6899899	-0.38723027	2.22E-08
ENSG00000110881	ASIC1	22.79403971	-1.267871056	2.22E-08
ENSG00000121895	TMEM156	456.4714798	0.53319618	2.22E-08
ENSG00000196715	VKORC1L1	465.8408808	0.56020632	2.23E-08
ENSG00000185101	ANO9	774.0927592	-0.577404829	2.23E-08
ENSG00000182326	C1S	16.57391283	-1.501378114	2.26E-08
ENSG00000106701	FSD1L	307.4219357	0.776842618	2.27E-08
ENSG00000135951	TSGA10	340.546409	0.322317558	2.27E-08
ENSG00000262903	CTNS-AS1	20.96577303	-1.060023759	2.27E-08
ENSG00000236254	MTND4P14	47.91696528	-1.023654214	2.27E-08
ENSG00000072415	PALS1	466.2956541	-0.303064514	2.31E-08
ENSG00000272182		45.69340175	-0.629893628	2.31E-08
ENSG00000260473		110.7169761	0.703826874	2.31E-08
ENSG00000279447		41.32275852	-1.567988751	2.31E-08
ENSG00000235141	COX6CP17	16.85175073	1.060784972	2.32E-08
ENSG00000067177	PHKA1	25.01936424	-1.089055472	2.32E-08
ENSG00000174255	ZNF80	71.80640715	0.787197779	2.33E-08
ENSG00000129749	CHRNA10	132.0759207	0.886727989	2.34E-08
ENSG00000204389	HSPA1A	2118.444434	1.241590146	2.34E-08
ENSG00000213742	ZNF337-AS1	153.3754174	0.381639802	2.34E-08
ENSG00000117013	KCNQ4	16.08773127	-1.302441548	2.34E-08
ENSG00000262583	TMEM231P1	26.9738079	0.965597794	2.34E-08
ENSG00000173110	HSPA6	2162.994225	-1.07007186	2.35E-08
ENSG00000145194	ECE2	73.97204708	1.058786049	2.36E-08
ENSG00000108587	GOSR1	1560.047783	0.239594476	2.37E-08

ENSG00000245680	ZNF585B	523.3375157	0.436059493	2.39E-08
ENSG00000223692	DIP2A-IT1	94.62877289	-0.803097191	2.41E-08
ENSG00000144567	RETREG2	3070.450081	-0.374533973	2.41E-08
ENSG00000113966	ARL6	139.5244501	0.59205984	2.41E-08
ENSG00000089876	DHX32	312.4901986	0.292152906	2.42E-08
ENSG00000125945	ZNF436	351.83323	0.52495993	2.42E-08
ENSG00000226862		24.84417992	-1.10115241	2.44E-08
ENSG00000168036	CTNNB1	6015.154535	0.363547095	2.44E-08
ENSG00000250959	GLUD1P3	169.7013837	-0.372409769	2.45E-08
ENSG00000166278	C2	187.4639383	0.63521979	2.45E-08
ENSG00000101040	ZMYND8	2239.84989	-0.397303957	2.46E-08
ENSG00000179841	AKAP5	331.6691739	1.243961178	2.47E-08
ENSG00000112242	E2F3	1648.711364	0.760159695	2.48E-08
ENSG00000103064	SLC7A6	2913.255224	-0.307114681	2.48E-08
ENSG00000275342	PRAG1	890.8111579	0.553033154	2.48E-08
ENSG00000129226	CD68	29.2414161	1.118796595	2.48E-08
ENSG00000116649	SRM	570.2036123	0.690108669	2.50E-08
ENSG00000167461	RAB8A	2875.920819	-0.401101317	2.52E-08
ENSG00000189042	ZNF567	378.7032444	0.377127832	2.56E-08
ENSG00000186812	ZNF397	1706.867588	0.649920779	2.61E-08
ENSG00000234912	SNHG20	254.8692559	0.417849896	2.61E-08
ENSG00000163399	ATP1A1	7170.909788	0.552583371	2.62E-08
ENSG00000180917	CMTR2	974.8796046	0.526913205	2.63E-08
ENSG00000126953	TIMM8A	135.7804682	0.59878746	2.64E-08
ENSG00000168916	ZNF608	78.00521741	-0.870201443	2.65E-08
ENSG00000259436		68.15793266	-1.039661259	2.66E-08
ENSG00000157978	LDLRAP1	3429.114598	-0.364717421	2.68E-08
ENSG00000118640	VAMP8	1329.042507	-0.520735323	2.70E-08
ENSG00000073712	FERMT2	69.39281051	2.061732444	2.73E-08
ENSG00000110090	CPT1A	2394.642374	-0.539451266	2.74E-08
ENSG00000168802	CHTF8	2058.644204	0.337388602	2.74E-08
ENSG00000056736	IL17RB	18.63344874	1.170703269	2.78E-08
ENSG00000132773	TOE1	408.1988563	-0.572088798	2.79E-08
ENSG00000010361	FUZ	270.1010874	-0.5888631	2.80E-08
ENSG00000128563	PRKRIP1	748.50371	-0.275013633	2.85E-08
ENSG00000168528	SERINC2	72.72825778	-1.098177405	2.85E-08
ENSG00000129932	DOHH	197.6513956	0.752632532	2.85E-08
ENSG00000121481	RNF2	694.8251684	0.418555974	2.85E-08
ENSG00000159882	ZNF230	564.5544272	0.657094632	2.86E-08
ENSG00000280181		83.36090696	0.834833894	2.88E-08
ENSG00000175283	DOLK	206.4552118	0.405685635	2.89E-08
ENSG00000206140	TMEM191C	20.56753503	-1.213207687	2.89E-08
ENSG00000109667	SLC2A9	156.5564827	-0.91890179	2.89E-08
ENSG00000226450	CYP2D8P	117.3851051	-0.54577273	2.94E-08
ENSG00000121578	B4GALT4	692.0534314	0.339175339	2.95E-08
ENSG00000074603	DPP8	2343.67485	-0.171073396	2.96E-08
ENSG00000172775	PSME3IP1	2254.929436	-0.248480645	2.99E-08
ENSG00000157368	IL34	11.5782785	-1.632741958	2.99E-08
ENSG00000068489	PRR11	93.50677459	-0.844398953	2.99E-08
ENSG00000266877		22.81527501	2.595488627	3.01E-08
ENSG00000163362	INAVA	38.57677119	2.326488841	3.02E-08

ENSG00000106133	NSUN5P2	544.6467762	-0.456229491	3.02E-08
ENSG00000271858		167.3471463	-0.511406455	3.02E-08
ENSG00000170185	USP38	1722.713796	-0.438522278	3.03E-08
ENSG00000109065	NAT9	641.8876062	0.415804144	3.03E-08
ENSG00000255182		78.59629932	-1.152690449	3.04E-08
ENSG00000120008	WDR11	2537.009886	0.431858716	3.05E-08
ENSG00000149679	CABLES2	251.4582195	-0.614995011	3.05E-08
ENSG00000142156	COL6A1	89.73689728	-0.786314897	3.05E-08
ENSG00000204619	PPP1R11	1535.324319	0.406098519	3.08E-08
ENSG00000236577	SNRPGP14	25.56009773	0.814194098	3.08E-08
ENSG00000123395	ATG101	399.7495097	0.594448773	3.09E-08
ENSG00000122043	LINC00544	60.12756203	-0.836349481	3.09E-08
ENSG00000233901	LINC01503	76.25225037	-1.274226503	3.09E-08
ENSG00000171953	ATPAF2	508.6642595	-0.299187898	3.09E-08
ENSG00000172243	CLEC7A	3339.13069	-1.198790983	3.10E-08
ENSG00000153029	MR1	2154.273988	0.614321521	3.10E-08
ENSG00000126261	UBA2	1757.14616	0.259593931	3.11E-08
ENSG00000159648	TEPP	24.57982382	-1.232298005	3.12E-08
ENSG00000164976	MYORG	32.93614339	0.871341713	3.14E-08
ENSG00000175104	TRAF6	1066.131118	-0.293817262	3.15E-08
ENSG00000220349		16.13713775	1.645575073	3.15E-08
ENSG00000165714	BORCS5	981.5039844	0.376809196	3.15E-08
ENSG00000069329	VPS35	2598.086762	-0.296338825	3.16E-08
ENSG00000168329	CX3CR1	877.0764759	-1.242983368	3.18E-08
ENSG00000090238	YPEL3	4695.623885	-0.629749698	3.18E-08
ENSG00000198625	MDM4	7470.324991	-0.284998554	3.18E-08
ENSG00000133243	BTBD2	1086.632238	-0.562891104	3.26E-08
ENSG00000260236	PTPN23-DT	77.37153696	0.805228741	3.32E-08
ENSG00000138772	ANXA3	370.6642108	-1.595837662	3.32E-08
ENSG00000104918	RETN	160.6675366	-1.389379079	3.33E-08
ENSG00000155592	ZKSCAN2	237.4646392	-0.582282396	3.33E-08
ENSG00000279539		30.78960952	-1.101544531	3.33E-08
ENSG00000276234	TADA2A	522.35668	0.32859427	3.33E-08
ENSG00000136367	ZFHX2	123.5288707	1.343463142	3.34E-08
ENSG00000224769	MUC20P1	33.95365623	-1.015952227	3.34E-08
ENSG00000134684	YARS1	1617.867238	0.421402972	3.35E-08
ENSG00000273289		28.87911371	-0.914347735	3.35E-08
ENSG00000237984	PTENP1	19.97982246	-1.095372596	3.36E-08
ENSG00000115183	TANC1	18.85009887	-1.337239225	3.36E-08
ENSG00000116918	TSNAX	793.7804732	-0.447557397	3.37E-08
ENSG00000028203	VEZT	1050.946648	0.241800707	3.37E-08
ENSG00000115541	HSPE1	307.4410041	0.734469247	3.37E-08
ENSG00000010704	HFE	76.66715333	-1.44455364	3.38E-08
ENSG00000171700	RGS19	2447.159085	-0.579502441	3.41E-08
ENSG00000048162	NOP16	214.8399607	0.920092969	3.41E-08
ENSG00000008128	CDK11A	225.1192596	-0.637501654	3.41E-08
ENSG00000079785	DDX1	1210.601027	0.289964871	3.41E-08
ENSG00000174125	TLR1	3927.758653	-0.822992264	3.41E-08
ENSG00000180644	PRF1	4274.114118	-0.874469507	3.41E-08
ENSG00000162976	SLC66A3	465.2628927	-0.664509266	3.42E-08
ENSG00000162591	MEGF6	1852.906289	-0.636384649	3.44E-08

ENSG00000117305	HMGCL	769.8412936	0.291600425	3.47E-08
ENSG00000126767	ELK1	807.9198649	0.347234022	3.48E-08
ENSG00000145348	TBCK	1510.357619	0.317477826	3.50E-08
ENSG00000243836	WDR86-AS1	49.98759717	-1.016294725	3.52E-08
ENSG00000276704		25.94283964	-0.871611167	3.55E-08
ENSG00000154330	PGM5	29.64647942	-2.227311777	3.56E-08
ENSG00000134287	ARF3	2482.645113	-0.335485922	3.56E-08
ENSG00000207110	RNVU1-32	77.08919019	0.693914135	3.58E-08
ENSG00000040275	SPDL1	199.5734464	0.451506513	3.60E-08
ENSG00000131781	FMO5	83.42828645	-0.867095966	3.61E-08
ENSG00000272086	GOLPH3-DT	33.88860642	-0.970634231	3.65E-08
ENSG00000186298	PPP1CC	3043.108609	-0.263381508	3.66E-08
ENSG00000153767	GTF2E1	549.0685636	0.579955888	3.68E-08
ENSG00000139146	SINHCAF	1836.150534	0.238048062	3.71E-08
ENSG00000242574	HLA-DMB	1126.441653	-0.941388097	3.74E-08
ENSG00000271734		44.39812071	0.933667386	3.74E-08
ENSG00000276449		51.56856202	0.702392678	3.75E-08
ENSG00000080345	RIF1	5500.168572	0.522210736	3.75E-08
ENSG00000181007	ZFP82	268.9436812	0.416879833	3.77E-08
ENSG00000253882		211.4492037	0.492577662	3.80E-08
ENSG00000159352	PSMD4	2273.157639	0.4750971	3.81E-08
ENSG00000277072	STAG3L2	567.8637344	-0.35905712	3.81E-08
ENSG00000276867		26.88363707	-1.201069028	3.85E-08
ENSG00000260286	ARMH2	43.92091333	-0.784257943	3.86E-08
ENSG00000074964	ARHGEF10L	832.6769484	0.645255046	3.86E-08
ENSG00000138035	PNPT1	909.5875422	0.92564195	3.86E-08
ENSG00000235008		19.08509755	-1.207642448	3.86E-08
ENSG00000066735	KIF26A	8.956859176	-2.268364819	3.88E-08
ENSG00000185869	ZNF829	240.6285884	0.413070689	3.88E-08
ENSG00000150687	PRSS23	227.4565029	-1.257937921	3.91E-08
ENSG00000068912	ERLEC1	751.8431078	0.301715934	3.91E-08
ENSG00000260368		103.5525294	0.887465675	3.92E-08
ENSG00000139514	SLC7A1	1130.43905	0.716213621	3.94E-08
ENSG00000198453	ZNF568	344.8870308	0.448444038	3.96E-08
ENSG00000138642	HERC6	1389.234111	1.228275253	3.97E-08
ENSG00000196363	WDR5	671.4690706	0.301303453	3.99E-08
ENSG00000100258	LMF2	1706.910007	-0.439965799	4.02E-08
ENSG00000172469	MANEA	385.0248936	0.547667084	4.02E-08
ENSG00000108797	CNTNAP1	59.85757546	-1.208416947	4.02E-08
ENSG00000104976	SNAPC2	225.4823089	-0.444141383	4.03E-08
ENSG00000112514	CUTA	701.734449	-0.660135621	4.03E-08
ENSG00000125434	SLC25A35	147.8588768	-0.512995621	4.05E-08
ENSG00000082196	C1QTNF3	78.44339657	-0.615805133	4.05E-08
ENSG00000260267		768.705674	0.323170312	4.06E-08
ENSG00000184270	H2AC21	506.4454673	-0.701740157	4.07E-08
ENSG00000066135	KDM4A	1218.327313	-0.264148446	4.08E-08
ENSG00000099246	RAB18	2035.178631	-0.397993317	4.09E-08
ENSG00000132323	ILKAP	1314.48006	-0.361937717	4.13E-08
ENSG00000100815	TRIP11	1796.832583	0.469528814	4.13E-08
ENSG00000256040	PAPPA-AS1	23.12818794	-1.097971348	4.13E-08
ENSG00000135124	P2RX4	2698.538707	0.93134344	4.13E-08

ENSG00000273076		42.78418364	0.755092475	4.17E-08
ENSG00000263120		35.12254717	-1.148746065	4.17E-08
ENSG00000184441		161.1061983	-0.810274803	4.17E-08
ENSG00000188352	FOCAD	794.4725134	-0.423589474	4.18E-08
ENSG00000158417	EIF5B	1118.2752	0.42003515	4.20E-08
ENSG00000236969	GGT8P	58.00548919	1.865088127	4.20E-08
ENSG00000255864		28.20648816	1.461689991	4.22E-08
ENSG00000120049	KCNIP2	93.03647749	-0.733358492	4.24E-08
ENSG00000226380		2722.720713	0.489525777	4.24E-08
ENSG00000149658	YTHDF1	1298.607304	0.171475613	4.26E-08
ENSG00000243302		528.3917795	-0.512413183	4.26E-08
ENSG00000111786	SRSF9	2406.911939	-0.245353235	4.27E-08
ENSG00000143569	UBAP2L	3136.42148	0.276809839	4.28E-08
ENSG00000101544	ADNP2	1344.180371	0.490553479	4.30E-08
ENSG00000180787	ZFP3	424.3838887	0.622653785	4.32E-08
ENSG00000112531	QKI	7991.079351	0.561057649	4.33E-08
ENSG00000154188	ANGPT1	63.7750994	-1.526995226	4.34E-08
ENSG00000006282	SPATA20	340.4569866	-0.787655423	4.36E-08
ENSG00000189060	H1-0	907.764017	-1.349036539	4.36E-08
ENSG00000255723		36.37810213	-0.972194395	4.36E-08
ENSG00000162078	ZG16B	12.60648177	-1.917323973	4.42E-08
ENSG00000272572		28.70678213	0.802700404	4.45E-08
ENSG00000138050	THUMPD2	351.2302559	-0.521635737	4.45E-08
ENSG00000222346	RNA5SP237	35.72320027	1.87456704	4.49E-08
ENSG00000198715	GLMP	653.8310674	0.589568965	4.49E-08
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ENSG00000214046	SMIM7	1027.593332	-0.209792106	4.51E-08
ENSG00000232070	TMEM253	6.953631807	-2.920789278	4.55E-08
ENSG00000240767	RN7SL288P	312.3575792	0.615052463	4.57E-08
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ENSG00000144233	AMMECR1L	787.0466569	0.487937002	4.60E-08
ENSG00000185896	LAMP1	4470.952818	0.482200199	4.61E-08
ENSG00000128482	RNF112	16.60534877	-1.662166083	4.65E-08
ENSG00000178502	KLHL11	347.259647	-0.365181646	4.66E-08
ENSG00000181830	SLC35C1	459.9217461	-0.436917056	4.67E-08
ENSG00000200597	RNVU1-33	31.09556087	1.195556367	4.70E-08
ENSG00000117758	STX12	972.5489132	0.412647714	4.70E-08
ENSG00000254325		620.9531622	0.773434068	4.71E-08
ENSG00000273374		15.27584041	1.345117388	4.73E-08
ENSG00000011143	MKS1	208.7789151	0.403282227	4.75E-08
ENSG00000184979	USP18	270.9096469	1.88241172	4.75E-08
ENSG00000154262	ABCA6	63.58897437	1.003367076	4.77E-08
ENSG00000165694	FRMD7	9.288782635	2.665791372	4.81E-08
ENSG00000145725	PPIP5K2	2424.159988	-0.334854831	4.84E-08
ENSG00000278571	MIR7161	123.6196559	-0.624215012	4.85E-08
ENSG00000137757	CASP5	332.6876687	1.507305655	4.85E-08
ENSG00000197780	TAF13	441.6942246	0.656617794	4.86E-08
ENSG00000137411	VAR52	652.6767763	0.297024932	4.86E-08
ENSG00000275401		47.81191595	0.597884391	4.88E-08
ENSG00000182566	CLEC4G	9.820708969	-3.110954241	4.90E-08

ENSG00000272909		72.69441739	-0.642524504	4.90E-08
ENSG00000196236	XPNPEP3	616.6201529	-0.265611656	4.90E-08
ENSG00000107140	TESK1	695.8394789	0.410846535	4.96E-08
ENSG00000083838	ZNF446	300.1948772	-0.467869623	4.96E-08
ENSG00000221909	FAM200A	280.2917108	0.613331887	4.98E-08
ENSG00000257315	ZBED6	308.2778707	0.478358798	4.98E-08
ENSG00000276980		78.73323599	3.18516456	4.99E-08
ENSG00000080819	CPOX	495.2573731	0.349169057	5.02E-08
ENSG00000186399	GOLGA8R	42.85931366	-0.837968935	5.02E-08
ENSG00000198513	ATL1	69.95442104	-0.609379721	5.06E-08
ENSG00000108479	GALK1	287.2729699	-0.820836204	5.07E-08
ENSG00000214215		29.48358669	1.098507283	5.07E-08
ENSG00000256361		91.46748057	-0.802985937	5.07E-08
ENSG00000239291		85.54313181	-0.603447019	5.07E-08
ENSG00000107736	CDH23	1319.064469	-1.134885772	5.08E-08
ENSG00000015133	CCDC88C	5743.335248	-0.411400405	5.09E-08
ENSG00000181915	ADO	779.4927084	0.369170178	5.14E-08
ENSG00000067596	DHX8	2100.91754	-0.25965013	5.14E-08
ENSG00000184226	PCDH9	358.5793377	-0.651190706	5.14E-08
ENSG00000166166	TRMT61A	448.0309406	0.425204538	5.15E-08
ENSG00000266127	ZNF415P1	95.08146048	-0.787365807	5.20E-08
ENSG00000151414	NEK7	2815.931126	-0.362526816	5.21E-08
ENSG00000197622	CDC42SE1	15391.66166	-0.255296532	5.22E-08
ENSG00000198711	SSBP3-AS1	10.70821865	-2.064140797	5.25E-08
ENSG00000167733	HSD11B1L	36.75274965	-0.977011996	5.26E-08
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ENSG00000154582	ELOC	706.1981593	0.450398036	5.32E-08
ENSG00000113924	HGD	70.55502361	-0.950633981	5.33E-08
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ENSG00000270281		13.8204287	-1.194944071	5.35E-08
ENSG00000084207	GSTP1	1127.111281	-0.59935092	5.35E-08
ENSG00000226287	TMEM191A	91.96470652	-0.685502486	5.36E-08
ENSG00000169118	CSNK1G1	846.7009097	-0.23525919	5.38E-08
ENSG00000267757	EML2-AS1	53.45706827	0.777477675	5.38E-08
ENSG00000137962	ARHGAP29	7.846158591	-3.242998006	5.39E-08
ENSG00000273284		326.0910353	0.539829702	5.40E-08
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ENSG00000273340	MICE	134.4274597	-0.610215541	5.48E-08
ENSG00000143398	PIP5K1A	1165.447821	0.46831607	5.50E-08
ENSG00000009307	CSDE1	10567.85927	-0.257913852	5.57E-08
ENSG00000169554	ZEB2	13385.01369	0.726631233	5.58E-08
ENSG00000140398	NEIL1	318.0988728	-0.744682158	5.58E-08
ENSG00000169231	THBS3	502.6342439	-0.61494225	5.64E-08
ENSG00000142173	COL6A2	636.6393192	-0.721635092	5.65E-08
ENSG00000171314	PGAM1	1802.715696	-0.303161126	5.70E-08
ENSG00000113318	MSH3	690.8953196	-0.308265364	5.74E-08
ENSG00000144152	FBLN7	393.2478691	1.135601432	5.74E-08
ENSG00000169764	UGP2	2228.56723	0.410041982	5.76E-08
ENSG00000172687	ZNF738	212.6001778	-0.623277253	5.77E-08
ENSG00000233799		177.7896863	0.720537068	5.78E-08
ENSG00000163166	IWS1	1342.60609	0.434292737	5.78E-08

ENSG00000272888	CHASERR	4064.859257	-0.521753061	5.85E-08
ENSG00000254837	LIPT2-AS1	99.73246584	0.765703569	5.87E-08
ENSG00000207997	MIR644A	34.61399121	-0.901342443	5.87E-08
ENSG00000087206	UIMC1	1754.755341	-0.385287809	5.92E-08
ENSG00000197747	S100A10	1934.441461	-0.636235805	5.93E-08
ENSG00000095139	ARCN1	2598.666691	0.355115916	5.95E-08
ENSG00000249786	EAF1-AS1	38.15233033	-1.188656867	5.98E-08
ENSG00000224051	CPTP	486.3556995	-0.396098211	6.02E-08
ENSG00000167549	CORO6	84.27738266	-0.959575796	6.05E-08
ENSG00000113716	HMGXB3	1775.656886	0.360711514	6.06E-08
ENSG00000263482	ANTXRLP1	584.5447375	-0.473219036	6.06E-08
ENSG00000233757		83.86787412	0.880781641	6.08E-08
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ENSG00000228192	ZNF691-DT	49.26231545	1.187992577	6.11E-08
ENSG00000273568		49.95991901	0.670957515	6.13E-08
ENSG00000104381	GDAP1	161.9920985	0.403813746	6.21E-08
ENSG00000059122	FLYWCH1	1721.073624	-0.505646389	6.24E-08
ENSG00000257557	PPP1R12A-AS1	45.0298457	0.699572944	6.28E-08
ENSG00000049245	VAMP3	1373.10921	-0.388341427	6.30E-08
ENSG00000177410	ZFAS1	1537.615772	-0.437352109	6.35E-08
ENSG00000164266	SPINK1	93.21239362	3.589923658	6.38E-08
ENSG00000107651	SEC23IP	1262.398267	0.448630221	6.38E-08
ENSG00000179832	MROH1	1533.11797	-0.369756057	6.48E-08
ENSG00000248323	LUCAT1	2624.594609	1.379306465	6.48E-08
ENSG00000283646	LINC02009	71.31326626	1.305104019	6.50E-08
ENSG00000179988	PSTK	104.4597371	-0.80229998	6.52E-08
ENSG00000183520	UTP11	418.1521485	0.730277963	6.56E-08
ENSG00000073350	LLGL2	910.4897624	-0.366438619	6.60E-08
ENSG00000273893		58.52095835	0.961769335	6.60E-08
ENSG00000258057	BCDIN3D-AS1	26.88631987	0.879927759	6.60E-08
ENSG00000114544	SLC41A3	484.429193	-0.581639334	6.62E-08
ENSG00000283849		28.87423177	1.153913165	6.63E-08
ENSG00000150477	KIAA1328	390.7492721	-0.370500203	6.64E-08
ENSG00000253719	ATXN7L3B	2464.407176	-0.296136517	6.64E-08
ENSG00000068697	LAPTM4A	2083.414753	-0.437031121	6.68E-08
ENSG00000167395	ZNF646	3316.249875	0.649232553	6.70E-08
ENSG00000214190	RNF152P1	38.06567077	0.784102989	6.70E-08
ENSG00000152784	PRDM8	624.7060206	0.725220199	6.72E-08
ENSG00000118513	MYB	182.4488062	-0.619834261	6.72E-08
ENSG00000143811	PYCR2	759.5935053	0.334463444	6.73E-08
ENSG00000020181	ADGRA2	66.34873475	-2.188718042	6.81E-08
ENSG00000158748	HTR6	9.701657038	-2.452932936	6.85E-08
ENSG00000162396	PARS2	84.38809441	1.181342701	6.86E-08
ENSG00000145416	MARCHF1	1280.769721	-0.940920065	6.90E-08
ENSG00000161904	LEMD2	2907.77537	-0.348128023	6.96E-08
ENSG00000256576	LINC02361	179.9799451	-0.495674671	6.96E-08
ENSG00000167074	TEF	186.8057576	-0.568232282	6.97E-08
ENSG00000165338	HECTD2	150.71574	0.640708856	6.99E-08
ENSG00000068137	PLEKHH3	21.04977867	-1.958311941	6.99E-08
ENSG00000101773	RBBP8	484.2092835	0.534616954	7.00E-08
ENSG00000162729	IGSF8	651.4276871	-0.48480909	7.05E-08

ENSG00000165948	IFI27L1	59.87893094	-0.699343812	7.06E-08
ENSG00000132591	ERAL1	347.6012888	0.299234609	7.06E-08
ENSG00000174886	NDUFA11	598.2151002	-0.423960183	7.11E-08
ENSG00000164576	SAP30L	1208.733301	-0.239670361	7.12E-08
ENSG00000137338	PGBD1	54.87204534	-0.821265005	7.15E-08
ENSG00000137106	GRHPR	1016.548935	-0.372090003	7.17E-08
ENSG00000235411	DRG1P1	10.19154528	-2.453874395	7.18E-08
ENSG00000255302	EID1	1198.725496	-0.614633362	7.19E-08
ENSG00000242689	CNTF	52.85889125	-0.777877366	7.28E-08
ENSG00000074319	TSG101	1416.781801	0.330087055	7.32E-08
ENSG00000268903		255.5525544	-1.329942663	7.35E-08
ENSG00000260296		66.70072547	-0.621120867	7.38E-08
ENSG00000133265	HSPBP1	309.2409623	0.44647606	7.40E-08
ENSG00000204584		253.5731246	-0.464278697	7.43E-08
ENSG00000101247	NDUFAF5	301.8761193	-0.346361102	7.44E-08
ENSG00000160201	U2AF1	572.8159201	-0.807050793	7.45E-08
ENSG00000052841	TTC17	2850.268019	-0.17595786	7.48E-08
ENSG00000125246	CLYBL	203.0463111	-0.568873263	7.59E-08
ENSG00000167550	RHEBL1	34.07465851	-0.996476664	7.61E-08
ENSG00000178623	GPR35	531.2001715	0.751293236	7.62E-08
ENSG00000178719	GRINA	7465.718328	0.891718925	7.62E-08
ENSG00000136205	TNS3	1342.04952	0.807785917	7.66E-08
ENSG00000166886	NAB2	805.840199	1.096239304	7.68E-08
ENSG00000008382	MPND	273.8862285	-0.580123605	7.68E-08
ENSG00000200257	RNU6-97P	17.18773561	1.186223712	7.69E-08
ENSG00000145685	LHFPL2	1654.955793	1.727051141	7.71E-08
ENSG00000133226	SRRM1	3281.734741	-0.267569621	7.74E-08
ENSG00000269069		126.8162599	-0.598110329	7.75E-08
ENSG00000158109	TPRG1L	1297.275571	-0.328582039	7.76E-08
ENSG00000113742	CPEB4	3576.733383	0.485159489	7.76E-08
ENSG00000084463	WBP11	1564.561516	-0.353637476	7.80E-08
ENSG00000116514	RNF19B	5659.776866	0.931477885	7.81E-08
ENSG00000122965	RBM19	2330.861302	0.283312634	7.81E-08
ENSG00000266320	MIR3909	97.12670711	0.861494794	7.84E-08
ENSG00000187837	H1-2	5916.396949	-0.710114488	7.86E-08
ENSG00000103037	SETD6	316.1329404	0.314066744	7.89E-08
ENSG00000128833	MYO5C	31.43402869	-0.99797939	7.94E-08
ENSG00000187193	MT1X	148.5584379	0.967982359	7.97E-08
ENSG00000158828	PINK1	1739.365951	-0.720372724	8.05E-08
ENSG00000137656	BUD13	485.432208	0.524466709	8.09E-08
ENSG00000163006	CCDC138	234.7156607	0.341068585	8.22E-08
ENSG00000187257	RSBN1L	1700.914121	-0.304861068	8.22E-08
ENSG00000260910	LINC00565	348.3207861	0.632888069	8.22E-08
ENSG00000213760	ATP6V1G2	53.2014082	-0.611511797	8.26E-08
ENSG00000123131	PRDX4	216.1259987	0.553518444	8.28E-08
ENSG00000223745	CCDC18-AS1	1026.179317	-0.492685475	8.28E-08
ENSG00000176018	LYSMD3	1305.077412	0.475645302	8.28E-08
ENSG00000205056	LINC02397	394.6531288	1.04655941	8.30E-08
ENSG00000279410		118.3433293	-0.47775688	8.31E-08
ENSG00000176597	B3GNT5	2696.401898	0.8586694	8.31E-08
ENSG00000271737		37.37475298	1.041501297	8.40E-08

ENSG00000252759		113.5707248	-0.784178201	8.41E-08
ENSG00000124459	ZNF45	559.5121165	0.461804081	8.50E-08
ENSG00000064490	RFXANK	650.80128	-0.413298573	8.53E-08
ENSG00000214106	PAXIP1-AS2	381.3840748	0.322630066	8.54E-08
ENSG00000136895	GARNL3	66.31005063	-0.818742911	8.58E-08
ENSG00000199933	RNY1P16	12.99525677	-1.147542466	8.58E-08
ENSG00000180596	H2BC4	1776.102063	-0.639858903	8.58E-08
ENSG00000177889	UBE2N	1565.224891	0.359930873	8.59E-08
ENSG00000182463	TSHZ2	911.5643775	0.500564899	8.63E-08
ENSG00000241990	PRR34-AS1	206.0522918	-0.428514365	8.66E-08
ENSG00000227698		39.13206904	0.77604837	8.70E-08
ENSG00000180257	ZNF816	282.1679325	0.612869837	8.82E-08
ENSG00000279513		46.15200852	-0.809483947	8.86E-08
ENSG00000121864	ZNF639	762.8867827	-0.505273987	8.89E-08
ENSG00000280035		306.3451842	0.863992582	8.90E-08
ENSG00000266289	LINC02933	24.35965333	1.365580551	8.94E-08
ENSG00000140400	MAN2C1	2760.00021	-0.458204008	8.94E-08
ENSG00000164548	TRA2A	3288.676458	0.174928373	9.06E-08
ENSG00000223750	SIRPB3P	36.18462218	-0.876640107	9.06E-08
ENSG00000148110	MFSD14B	1549.394188	-0.303774395	9.07E-08
ENSG00000162959	MEMO1	249.4576795	-0.363846537	9.11E-08
ENSG00000281538		19.45334438	-1.33483834	9.12E-08
ENSG00000169964	TMEM42	370.5092514	0.362004047	9.25E-08
ENSG00000106605	BLVRA	482.8358745	-0.82576406	9.32E-08
ENSG00000163820	FYCO1	2644.972114	0.266790112	9.37E-08
ENSG00000157601	MX1	8303.950728	1.467515194	9.43E-08
ENSG00000158623	COPG2	274.441429	-0.647900288	9.46E-08
ENSG00000185168	LINC00482	18.59229724	-1.237653996	9.47E-08
ENSG00000168899	VAMP5	495.6687196	-1.016417683	9.51E-08
ENSG00000005175	RPAP3	859.5567118	-0.399472714	9.57E-08
ENSG00000111412	SPRING1	1112.386408	0.419275464	9.60E-08
ENSG00000138073	PREB	1130.942592	0.357794331	9.60E-08
ENSG00000235513	L3MBTL2-AS1	10.67892912	-1.856984121	9.67E-08
ENSG00000139719	VPS33A	487.7826164	0.283915485	9.76E-08
ENSG00000272777		35.14897858	-0.903788979	9.79E-08
ENSG00000132704	FCRL2	398.5460282	-0.82374344	9.81E-08
ENSG00000158286	RNF207	217.2044745	0.665612863	9.83E-08
ENSG00000198301	SDAD1	934.4294569	0.277350708	9.91E-08
ENSG00000051523	CYBA	11811.02965	0.513244528	9.93E-08
ENSG00000189067	LITAF	19756.64354	0.686973777	9.97E-08
ENSG00000270210		57.56827679	1.384158846	1.00E-07
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ENSG00000260060		116.6481734	-0.607552728	1.00E-07
ENSG00000197283	SYNGAP1	1153.586224	-0.52475644	1.01E-07
ENSG00000112972	HMGCS1	923.5168943	0.486013346	1.01E-07
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ENSG00000125375	DMAC2L	854.277202	-0.29647828	1.03E-07
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ENSG00000196981	WDR5B	414.7153831	0.49750296	1.05E-07
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ENSG00000166529	ZSCAN21	157.7236804	0.45603095	1.07E-07
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ENSG00000100221	JOSD1	3178.682001	0.617276424	1.07E-07
ENSG00000232053		18.69048652	-1.438616853	1.07E-07
ENSG00000152518	ZFP36L2	15445.01443	-0.402585301	1.09E-07
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ENSG00000185507	IRF7	3332.940545	0.950285803	1.10E-07
ENSG00000140854	KATNB1	506.2649708	-0.48046253	1.10E-07
ENSG00000107902	LHPP	461.465581	-0.485856827	1.10E-07
ENSG00000167645	YIF1B	425.3772536	-0.618466316	1.10E-07
ENSG00000240230	COX19	1110.727029	-0.277135568	1.11E-07
ENSG00000260278	BMP2K-DT	24.75766217	1.184036086	1.11E-07
ENSG00000144837	PLA1A	11.92422286	1.278246994	1.11E-07
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ENSG00000179299	NSUN7	176.6215599	-1.013440948	1.12E-07
ENSG00000178449	COX14	443.2912286	-0.495783142	1.12E-07
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ENSG00000241127	YAE1	188.0919942	0.566423876	1.12E-07
ENSG00000232486	DEPDC1P2	102.3422116	0.656020064	1.12E-07
ENSG00000273139		59.74023715	1.0998692	1.13E-07
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ENSG00000166226	CCT2	2099.153123	0.649972918	1.13E-07
ENSG00000165917	RAPSN	83.9156413	-1.130848669	1.13E-07
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ENSG00000107175	CREB3	573.7516877	0.40220507	1.13E-07
ENSG00000104497	SNX16	462.9744414	0.477978965	1.13E-07
ENSG00000256683	ZNF350	955.5145612	-0.335142709	1.14E-07
ENSG00000169714	CNBP	7054.189004	-0.32492785	1.14E-07
ENSG00000106803	SEC61B	868.1039191	0.478793952	1.15E-07
ENSG00000184208	C22orf46	388.1598682	0.422379407	1.15E-07
ENSG00000212993	POU5F1B	50.3518651	-0.982256535	1.16E-07
ENSG00000142556	ZNF614	423.0740917	0.597614636	1.16E-07
ENSG00000139625	MAP3K12	374.1681772	-0.449145705	1.16E-07
ENSG00000276698		71.48859322	0.808754851	1.17E-07
ENSG00000263535	AK4P1	35.71563959	1.159116657	1.17E-07
ENSG00000179029	TMEM107	207.9145398	-0.595362916	1.17E-07
ENSG00000100941	PNN	1858.687937	-0.493915871	1.17E-07
ENSG00000115423	DNAH6	54.97707803	-1.033861743	1.17E-07
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ENSG00000172273	HINFP	666.025316	0.334322873	1.17E-07

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ENSG00000105323	HNRNPUL1	6779.26948	-0.225978602	1.18E-07
ENSG00000088305	DNMT3B	26.61384724	-0.835869633	1.19E-07
ENSG00000087589	CASS4	1448.853415	-0.843689073	1.19E-07
ENSG00000230084	ZBTB47-AS1	28.60242762	-1.665627769	1.19E-07
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ENSG00000085382	HACE1	528.8515156	0.30251327	1.22E-07
ENSG00000256271	CACNA1C-AS2	37.46549216	-0.935045435	1.23E-07
ENSG00000224358	TMCO1-AS1	71.25583983	0.927677734	1.23E-07
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ENSG00000140263	SORD	239.0944365	-0.528436297	1.23E-07
ENSG00000106799	TGFBR1	2485.396428	-0.466593919	1.24E-07
ENSG00000173848	NET1	256.5246959	-0.424521053	1.24E-07
ENSG00000149262	INTS4	1300.100389	-0.157137512	1.24E-07
ENSG00000159322	ADPGK	5593.386301	0.369482032	1.26E-07
ENSG00000165806	CASP7	595.9783305	0.435623654	1.26E-07
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ENSG00000054116	TRAPPC3	869.329171	0.298871262	1.26E-07
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ENSG00000185339	TCN2	173.6016036	-1.505646288	1.27E-07
ENSG00000013375	PGM3	651.2948883	0.312359411	1.27E-07
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ENSG00000117281	CD160	75.22597385	-1.642317667	1.28E-07
ENSG00000257275		34.79065766	-0.907003902	1.29E-07
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ENSG00000084733	RAB10	4376.702347	0.644912294	1.29E-07
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ENSG00000262429		41.01389621	1.19834562	1.29E-07
ENSG00000089163	SIRT4	34.50316814	0.857631902	1.30E-07
ENSG00000105136	ZNF419	412.1857862	0.490805969	1.30E-07
ENSG00000123453	SARDH	452.7034958	1.068890958	1.30E-07
ENSG00000173692	PSMD1	1357.536556	0.431625774	1.31E-07
ENSG00000125247	TMTC4	421.6068691	0.329140274	1.31E-07
ENSG00000124664	SPDEF	6.83049871	-2.824645563	1.31E-07
ENSG00000169188	APEX2	497.4382414	0.482479443	1.32E-07
ENSG00000137806	NDUFAF1	251.0835989	0.558918293	1.32E-07
ENSG00000019144	PHLDB1	281.5192367	1.839240513	1.32E-07
ENSG00000166033	HTRA1	66.19592811	-1.999264012	1.32E-07
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ENSG00000197863	ZNF790	229.7880816	0.382454718	1.35E-07
ENSG00000102054	RBBP7	1169.217952	-0.337651673	1.35E-07
ENSG00000198794	SCAMP5	52.4004308	-0.865337535	1.35E-07
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ENSG00000145241	CENPC	1924.997548	-0.326906903	1.36E-07

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ENSG00000215154		196.3596203	0.391151372	1.36E-07
ENSG00000048052	HDAC9	438.1733675	-1.377107752	1.37E-07
ENSG00000114948	ADAM23	165.8810394	-0.539489397	1.37E-07
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ENSG00000170629	DPY19L2P2	183.438574	0.354826978	1.39E-07
ENSG00000137628	DDX60	3280.267198	1.0710369	1.40E-07
ENSG00000116213	WRAP73	642.7352898	-0.266818086	1.40E-07
ENSG00000103351	CLUAP1	344.6200298	0.449665743	1.40E-07
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ENSG00000178096	BOLA1	145.9515742	0.478252136	1.41E-07
ENSG00000168495	POLR3D	746.3740617	0.271643071	1.42E-07
ENSG00000238035		51.90191831	-0.886447132	1.42E-07
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ENSG00000280382		29.24545527	1.665345571	1.44E-07
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ENSG00000229484	LINC02766	15.5791744	-1.604944786	1.45E-07
ENSG00000272077		26.62113666	-0.8023152	1.46E-07
ENSG00000130772	MED18	421.5729193	0.631442245	1.46E-07
ENSG00000084093	REST	2723.078584	-0.27507512	1.46E-07
ENSG00000136514	RTP4	418.9401634	1.07460345	1.46E-07
ENSG00000169116	PARM1	48.89102123	-0.795881456	1.46E-07
ENSG00000141577	CEP131	215.6854769	-0.593336198	1.47E-07
ENSG00000185837	HDHD5-AS1	19.0880034	1.150150647	1.47E-07
ENSG00000196639	HRH1	174.8169534	2.755535012	1.48E-07
ENSG00000256223	ZNF10	282.1166032	0.415109516	1.49E-07
ENSG00000257336	PRELID2P1	10.59068204	1.853052047	1.49E-07
ENSG00000243696		75.59498108	-0.75259632	1.49E-07
ENSG00000154856	APCDD1	10.72644718	-2.169179853	1.50E-07
ENSG00000164830	OXR1	1419.698354	-0.378724766	1.51E-07
ENSG00000020922	MRE11	1105.661451	-0.255331387	1.51E-07
ENSG00000224183	SDHDP6	36.01448524	-0.792923763	1.53E-07
ENSG00000185201	IFITM2	8213.726579	-0.808665452	1.53E-07
ENSG00000171295	ZNF440	457.7138255	-0.308871019	1.53E-07
ENSG00000270681		31.42072762	-1.244392113	1.53E-07
ENSG00000088298	EDEM2	1121.74812	-0.406023964	1.53E-07
ENSG00000132405	TBC1D14	3111.290987	-0.663773047	1.54E-07
ENSG00000225051	HMGB3P22	35.29174522	0.85923778	1.54E-07
ENSG00000274765		30.55032583	-0.907157567	1.55E-07
ENSG00000186994	KANK3	62.98906859	-0.672764068	1.55E-07
ENSG00000284543	LINC01226	13.12079373	-1.649084908	1.55E-07
ENSG00000196083	IL1RAP	1651.375107	-0.771667679	1.55E-07
ENSG00000269867		31.98510243	0.789303211	1.56E-07
ENSG00000132530	XAF1	6707.248546	1.284417084	1.56E-07
ENSG00000175445	LPL	319.5080386	2.556330927	1.56E-07
ENSG00000119714	GPR68	267.0707912	0.62842193	1.57E-07
ENSG00000251149	MTND5P5	21.88073742	-1.100438674	1.57E-07
ENSG00000186818	LILRB4	1532.768683	0.863817269	1.57E-07
ENSG00000262412		19.71667419	0.860686722	1.57E-07

ENSG00000130684	ZNF337	990.5690713	0.242400749	1.57E-07
ENSG00000160741	CRTC2	2357.749385	0.357047796	1.57E-07
ENSG00000143106	PSMA5	1355.088319	0.382826716	1.57E-07
ENSG00000155093	PTPRN2	100.8046467	-0.906866641	1.57E-07
ENSG00000096717	SIRT1	1392.581992	0.273738477	1.58E-07
ENSG00000136874	STX17	1013.382659	0.242639998	1.58E-07
ENSG00000224707	E2F3-IT1	62.11747787	0.995374427	1.58E-07
ENSG00000265871	MIR3174	107.5890821	1.365822763	1.58E-07
ENSG00000147852	VLDLR	47.60822916	-0.879908913	1.58E-07
ENSG00000270170	NCBP2AS2	320.5990519	-0.709217944	1.58E-07
ENSG00000137815	RTF1	1202.618685	-0.266360958	1.59E-07
ENSG00000231875		25.58143137	-0.999714555	1.60E-07
ENSG00000281097	LINC01395	73.55335858	-0.720230639	1.60E-07
ENSG00000275895		415.7067639	-0.745554816	1.60E-07
ENSG00000175356	SCUBE2	39.83647394	1.065544006	1.61E-07
ENSG00000075336	TIMM21	192.9339533	0.436238602	1.61E-07
ENSG00000234608	MAPKAPK5-AS1	404.4884915	-0.444145821	1.62E-07
ENSG00000214706	IFRD2	713.4995674	0.719567784	1.63E-07
ENSG00000185716	MOSMO	427.4611003	0.569929883	1.63E-07
ENSG00000249087	ZNF436-AS1	77.85663544	0.822630553	1.64E-07
ENSG00000272540		51.70188459	1.562284493	1.64E-07
ENSG00000154370	TRIM11	1967.09732	-0.291342022	1.65E-07
ENSG00000180611	MB21D2	268.8629921	0.684406126	1.67E-07
ENSG00000183044	ABAT	630.2336718	-0.473184203	1.67E-07
ENSG00000161981	SNRNP25	153.0641851	-0.536197345	1.68E-07
ENSG00000225513		27.57217613	-0.978129403	1.68E-07
ENSG00000186235	LINC02610	50.80635157	0.726863399	1.69E-07
ENSG00000094880	CDC23	452.9297701	0.307570513	1.69E-07
ENSG00000170515	PA2G4	1416.746472	0.454067756	1.69E-07
ENSG00000139567	ACVRL1	110.5019239	-1.295526989	1.71E-07
ENSG00000138036	DYNC2LI1	96.41031101	0.563245672	1.71E-07
ENSG00000146731	CCT6A	1642.315514	0.628469176	1.71E-07
ENSG00000156395	SORCS3	16.21067378	-3.430023053	1.72E-07
ENSG00000151773	CCDC122	88.97674064	0.571806295	1.72E-07
ENSG00000240859	LINC03014	118.7350889	-0.753708538	1.74E-07
ENSG00000152223	EPG5	3996.081068	0.40458821	1.74E-07
ENSG00000232098	ZNF584-DT	374.9938523	0.534429132	1.75E-07
ENSG00000267882		28.00048688	2.471897888	1.75E-07
ENSG00000186583	SPATC1	458.5842313	2.421400903	1.75E-07
ENSG00000131051	RBM39	12841.28536	-0.314902706	1.75E-07
ENSG00000284387	MIR24-2	29.15602976	1.330851229	1.77E-07
ENSG00000081148	IMPG2	156.0161508	-0.466334426	1.77E-07
ENSG00000141506	PIK3R5	13414.5564	0.742249994	1.77E-07
ENSG00000166188	ZNF319	1042.851398	-0.483162682	1.78E-07
ENSG00000206113	CFAP99	11.34748613	1.291306436	1.79E-07
ENSG00000008300	CELSR3	199.1686002	-0.634339965	1.81E-07
ENSG00000004468	CD38	1050.741103	0.612147111	1.81E-07
ENSG00000269386	RAB11B-AS1	61.45270754	-0.640130366	1.81E-07
ENSG00000211787	TRAV8-3	114.0242224	-0.471349143	1.82E-07
ENSG00000159202	UBE2Z	3159.79363	0.405176919	1.82E-07
ENSG00000203668	CHML	1132.279723	0.38337448	1.83E-07

ENSG00000232815	DUX4L50	14.29533365	-1.661047605	1.84E-07
ENSG00000106070	GRB10	254.9303887	-0.559680976	1.85E-07
ENSG00000136147	PHF11	2020.03882	0.489323597	1.85E-07
ENSG00000238090		15.89080893	-1.132145421	1.87E-07
ENSG00000170606	HSPA4	2173.956644	0.474858453	1.87E-07
ENSG00000197815		4.94082726	-5.646332913	1.88E-07
ENSG00000204444	APOM	38.16823019	-0.944924057	1.90E-07
ENSG00000186448	ZNF197	499.0653227	0.320764332	1.90E-07
ENSG00000200170		74.91735259	1.243814607	1.90E-07
ENSG00000075407	ZNF37A	1036.025717	0.391134867	1.91E-07
ENSG00000128000	ZNF780B	1752.069207	0.576497218	1.91E-07
ENSG00000196976	LAGE3	221.7550077	0.439579514	1.91E-07
ENSG00000165219	GAPVD1	2696.603654	-0.246599142	1.92E-07
ENSG00000102897	LYRM1	761.540534	0.412739135	1.92E-07
ENSG00000100109	TFIP11	1352.054441	0.25006669	1.93E-07
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ENSG00000164808	SPIDR	1588.520676	-0.268548286	1.94E-07
ENSG00000149499	EML3	3167.01288	0.402108678	1.94E-07
ENSG00000257156		13.64514629	-1.321920459	1.95E-07
ENSG00000221176	MIR1207	25.02308678	0.81889755	1.96E-07
ENSG00000129255	MPDU1	636.8650478	0.421017075	1.96E-07
ENSG00000103888	CEMIP	884.3070717	2.806882399	1.97E-07
ENSG00000125730	C3	1631.735543	2.45763703	1.97E-07
ENSG00000116209	TMEM59	3229.851337	-0.359357889	1.98E-07
ENSG00000126456	IRF3	2420.738393	-0.306843175	1.99E-07
ENSG00000265008		21.80130136	-1.069746327	1.99E-07
ENSG00000112249	ASCC3	2228.706612	0.300175294	2.00E-07
ENSG00000260859		18.50887558	-1.427794241	2.01E-07
ENSG00000007202	KIAA0100	4183.573939	-0.241029017	2.02E-07
ENSG00000122257	RBBP6	3427.624848	-0.451661566	2.02E-07
ENSG00000177683	THAP5	1025.95142	0.351083415	2.02E-07
ENSG00000140694	PARN	1119.587011	-0.251969845	2.02E-07
ENSG00000114013	CD86	864.7163807	-0.766094027	2.02E-07
ENSG00000219665	ZNF433-AS1	594.4199791	0.520666768	2.03E-07
ENSG00000144354	CDCA7	70.26746757	-0.714623671	2.03E-07
ENSG00000159461	AMFR	2385.694064	-0.369895464	2.03E-07
ENSG00000111344	RASAL1	105.8549914	1.49061456	2.04E-07
ENSG00000129493	HEATR5A	380.8740784	-0.441018423	2.06E-07
ENSG00000175334	BANF1	888.4963406	0.367922186	2.06E-07
ENSG00000115718	PROC	10.55127964	-1.868538585	2.07E-07
ENSG00000130649	CYP2E1	17.53723284	-1.384831166	2.08E-07
ENSG00000112130	RNF8	362.7784687	0.329499621	2.08E-07
ENSG00000159086	PAXBP1	1799.837696	0.203409031	2.08E-07
ENSG00000167674	HDGFL2	562.7628175	-0.500360069	2.09E-07
ENSG00000152455	SUV39H2	106.1977783	0.600220084	2.09E-07
ENSG00000176809	LRRC37A3	299.4756241	-0.397225834	2.10E-07
ENSG00000235651	G3BP1P1	19.36215778	0.956270972	2.10E-07
ENSG00000275560		680.911903	-0.467187454	2.11E-07
ENSG00000204923	FBXO48	253.6526624	0.638486602	2.12E-07
ENSG00000186049	KRT73	312.1405496	-0.564659633	2.13E-07
ENSG00000075131	TIPIN	78.09979765	0.448076184	2.13E-07

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ENSG00000184163	C1QTNF12	24.8396892	-1.121885879	2.14E-07
ENSG00000140743	CDR2	925.3244915	-0.331098211	2.15E-07
ENSG00000112877	CEP72	423.1022835	0.340353561	2.16E-07
ENSG00000162913	OBSCN-AS1	83.85675456	-0.717702646	2.16E-07
ENSG00000104691	UBXN8	82.2601443	0.507990573	2.16E-07
ENSG00000246596		474.8725899	-0.276438922	2.16E-07
ENSG00000196646	ZNF136	830.2348163	-0.297462831	2.17E-07
ENSG00000198520	ARMH1	297.2074847	-0.67988918	2.17E-07
ENSG00000087088	BAX	1140.550772	0.346356347	2.18E-07
ENSG00000177951	BET1L	1753.052853	-0.287458759	2.18E-07
ENSG00000133056	PIK3C2B	1157.004708	0.437911387	2.20E-07
ENSG00000136807	CDK9	2027.537282	-0.212136504	2.20E-07
ENSG00000141699	RETREG3	2514.059466	-0.168976719	2.21E-07
ENSG00000130775	THEMIS2	8316.121176	-0.633381576	2.21E-07
ENSG00000197162	ZNF785	478.7116124	0.576527111	2.21E-07
ENSG00000130518	IQCIN	1405.700417	-0.588035469	2.22E-07
ENSG00000279020	C18orf15	60.85377671	1.118602784	2.22E-07
ENSG00000055044	NOP58	1948.935899	0.340282167	2.24E-07
ENSG00000140987	ZSCAN32	667.3138948	0.389016202	2.24E-07
ENSG00000048392	RRM2B	1465.695815	-0.556002327	2.24E-07
ENSG00000278434		101.8737376	0.443371382	2.25E-07
ENSG00000067369	TP53BP1	1832.241344	0.397916978	2.26E-07
ENSG00000076924	XAB2	1508.440433	-0.347330594	2.27E-07
ENSG00000161036	LRWD1	836.3498221	-0.45409989	2.28E-07
ENSG00000213563	C8orf82	295.7893711	-0.489231254	2.29E-07
ENSG00000076554	TPD52	401.8730596	-0.54475835	2.30E-07
ENSG00000257053		16.94910248	2.249943497	2.31E-07
ENSG00000114503	NCBP2	939.0273345	0.419954785	2.31E-07
ENSG00000233098	CCDC144NL-AS1	8.859951671	-1.888013204	2.32E-07
ENSG00000227500	SCAMP4	693.8616656	-0.485280789	2.32E-07
ENSG00000231680	LINC02723	7.724152096	-6.095647845	2.33E-07
ENSG00000104907	TRMT1	942.4383958	0.405761405	2.33E-07
ENSG00000107954	NEURL1	101.1946341	-1.267868024	2.33E-07
ENSG00000150337	FCGR1A	553.588028	-1.917201038	2.35E-07
ENSG00000110713	NUP98	6004.469409	0.38813768	2.39E-07
ENSG00000272391	POM121C	2110.269322	-0.286991451	2.41E-07
ENSG00000163249	CCNYL1	580.4489064	0.327576173	2.41E-07
ENSG00000029639	TFB1M	401.413705	0.391497078	2.43E-07
ENSG00000167077	MEI1	972.6823634	0.409677238	2.44E-07
ENSG00000243679		821.0545625	-0.461409666	2.45E-07
ENSG00000146414	SHPRH	1966.769715	0.311263483	2.46E-07
ENSG00000145723	GIN1	330.2327049	0.545274189	2.47E-07
ENSG00000224272		8.419509011	2.569448481	2.47E-07
ENSG00000135709	KIAA0513	3667.670264	-0.596485453	2.48E-07
ENSG00000166228	PCBD1	165.591251	0.59933208	2.50E-07
ENSG00000172322	CLEC12A	1083.760593	-1.239323526	2.51E-07
ENSG00000100084	HIRA	222.1648009	-0.36951035	2.52E-07
ENSG00000231249	ITPR1-DT	32.5406723	0.980381337	2.54E-07
ENSG00000172432	GTPBP2	2617.504116	0.560155122	2.56E-07
ENSG00000111335	OAS2	4954.935097	1.173025558	2.56E-07

ENSG00000054523	KIF1B	1708.329209	-0.547755364	2.58E-07
ENSG00000181754	AMIGO1	554.3392434	-0.361490246	2.61E-07
ENSG00000111058	ACSS3	44.57215527	-1.576313347	2.61E-07
ENSG00000005700	IBTK	1453.953977	0.354620251	2.62E-07
ENSG00000279796		106.9186941	-0.656259959	2.63E-07
ENSG00000276645		35.75405769	0.729110198	2.65E-07
ENSG00000055208	TAB2	5574.280114	0.335283297	2.65E-07
ENSG00000198218	QRICH1	2143.019276	-0.248668794	2.66E-07
ENSG00000275162		48.64063604	0.961451179	2.69E-07
ENSG00000123268	ATF1	672.9698464	0.332345687	2.70E-07
ENSG00000235316	DUSP8P5	226.2375629	-0.373424605	2.70E-07
ENSG00000149534	MS4A2	67.32908182	-1.415774706	2.72E-07
ENSG00000189339	SLC35E2B	3263.328083	-0.232829008	2.73E-07
ENSG00000144381	HSPD1	2791.011695	0.888741229	2.74E-07
ENSG00000079263	SP140	2811.367224	0.508426241	2.74E-07
ENSG00000116815	CD58	2442.981406	1.226682935	2.74E-07
ENSG00000268049		35.87054652	-0.946440124	2.75E-07
ENSG00000229692	SOS1-IT1	226.1630816	1.285968107	2.76E-07
ENSG00000072071	ADGRL1	693.2092881	-0.441503403	2.76E-07
ENSG00000204920	ZNF155	268.91749	0.491956643	2.78E-07
ENSG00000015479	MATR3	1432.921608	-0.373924282	2.78E-07
ENSG00000283031		18.44093606	-1.380169894	2.78E-07
ENSG00000177239	MAN1B1	1555.350075	-0.367200071	2.79E-07
ENSG00000233654	NEMP2-DT	34.03399721	0.671709601	2.79E-07
ENSG00000141425	RPRD1A	1038.775585	-0.207750269	2.79E-07
ENSG00000263002	ZNF234	470.2634805	0.816798949	2.79E-07
ENSG00000163701	IL17RE	24.34244048	-1.047108288	2.79E-07
ENSG00000120708	TGFB1	5489.404851	-1.220829816	2.80E-07
ENSG00000278535	DHRS11	96.50576384	0.448330626	2.80E-07
ENSG00000283378	CNTNAP3C	35.03631062	-3.283123323	2.80E-07
ENSG00000170265	ZNF282	775.1486368	-0.283109918	2.81E-07
ENSG00000118600	RXYLT1	239.008667	0.297593698	2.81E-07
ENSG00000148943	LIN7C	1475.569661	0.327204224	2.83E-07
ENSG00000168273	SMIM4	105.5279937	1.021151161	2.83E-07
ENSG00000203797	DDO	13.7388767	-2.081649191	2.86E-07
ENSG00000158169	FANCC	189.9347674	-0.473130721	2.86E-07
ENSG00000106526	ACTR3C	291.7821495	0.35590089	2.87E-07
ENSG00000185787	MORF4L1	5174.88905	-0.24619357	2.88E-07
ENSG00000173706	HEG1	1249.902756	0.377607294	2.89E-07
ENSG00000100628	ASB2	354.3666229	1.052731371	2.89E-07
ENSG00000140992	PDPK1	2409.009473	-0.295743908	2.89E-07
ENSG00000272916		66.46617111	-0.787424342	2.90E-07
ENSG00000049167	ERCC8	271.7217562	0.320524442	2.91E-07
ENSG00000145730	PAM	689.0541641	-0.47617723	2.92E-07
ENSG00000083812	ZNF324	761.2865083	-0.39877521	2.92E-07
ENSG00000198265	HELZ	4192.20537	-0.296933166	2.95E-07
ENSG00000223117	RN7SKP296	52.43350927	-0.885099804	2.95E-07
ENSG00000234457		13.15205676	-1.444538238	2.96E-07
ENSG00000198848	CES1	297.066234	1.165424002	2.98E-07
ENSG00000154945	ANKRD40	867.0887524	0.325825026	2.98E-07
ENSG00000275569		21.01477405	-1.338088078	2.98E-07

ENSG00000145649	GZMA	530.5057433	-1.078849676	2.99E-07
ENSG00000235505	CASP4LP	154.1897794	0.538498643	2.99E-07
ENSG00000152520	PAN3	3419.118337	-0.272902945	2.99E-07
ENSG00000165861	ZFYVE1	941.9198542	0.311032994	2.99E-07
ENSG00000157379	DHRS1	369.9415963	-0.431736967	3.00E-07
ENSG00000164896	FASTK	1426.358134	0.269993244	3.00E-07
ENSG00000167548	KMT2D	8432.919581	-0.433258782	3.00E-07
ENSG00000182481	KPNA2	447.2688113	0.646850373	3.02E-07
ENSG00000153443	UBALD1	720.7434897	-0.423042371	3.03E-07
ENSG00000198856	OSTC	842.4447882	0.421929854	3.03E-07
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ENSG00000136867	SLC31A2	1236.45511	-0.754996993	3.04E-07
ENSG00000179933	C14orf119	797.5010779	0.572265281	3.05E-07
ENSG00000149970	CNKS2	214.5464921	-0.419455648	3.08E-07
ENSG00000169105	CHST14	211.5173263	-0.476502493	3.08E-07
ENSG00000159917	ZNF235	389.1001627	0.419380218	3.09E-07
ENSG00000117266	CDK18	75.40610028	-0.990762444	3.10E-07
ENSG00000260630	SNAI3-AS1	354.5791259	0.631884268	3.10E-07
ENSG00000273271		30.80143572	-1.091247892	3.10E-07
ENSG00000117543	DPH5	537.1290948	0.349817803	3.12E-07
ENSG00000175606	TMEM70	448.48549	0.366013732	3.15E-07
ENSG00000100852	ARHGAP5	2165.272575	-0.28137693	3.16E-07
ENSG00000126934	MAP2K2	2911.891429	-0.285511074	3.16E-07
ENSG00000251348	HSPD1P11	24.6626522	0.966026772	3.19E-07
ENSG00000156232	WHAMM	1724.949806	-0.325723122	3.19E-07
ENSG00000110172	CHORDC1	2109.628914	0.48020824	3.20E-07
ENSG00000119878	CRIP1	375.276468	-0.468585547	3.22E-07
ENSG00000133138	TBC1D8B	57.64405151	0.672500824	3.24E-07
ENSG00000104427	ZC2HC1A	132.0550644	-0.722048094	3.24E-07
ENSG00000165389	SPTSSA	169.9954867	-0.5483843	3.25E-07
ENSG00000237604		62.6477171	1.337349528	3.25E-07
ENSG00000167920	KRT10-AS1	63.57795775	0.754555766	3.25E-07
ENSG00000233695	GAS6-AS1	359.0385186	-0.77089789	3.25E-07
ENSG00000133818	RRAS2	407.5661818	-0.560008112	3.25E-07
ENSG00000169122	FAM110B	71.06378238	-1.149142557	3.27E-07
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ENSG00000115738	ID2	2391.687811	0.552548169	3.28E-07
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ENSG00000155858	LSM11	206.5250932	0.47533062	3.32E-07
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ENSG00000103121	CMC2	665.433967	0.372862301	3.35E-07
ENSG00000143850	PLEKHA6	38.83101554	0.709836118	3.35E-07
ENSG00000147231	RADX	205.0957562	0.335897536	3.36E-07
ENSG00000266405	CBX3P2	136.3432413	-0.701050904	3.36E-07
ENSG00000275846		51.47564538	0.701069161	3.37E-07
ENSG00000265254		17.35685195	-1.581765593	3.37E-07
ENSG00000247516	MIR445HG	29.55951458	0.784342305	3.38E-07
ENSG00000176024	ZNF613	244.2556604	0.886613355	3.38E-07
ENSG00000165244	ZNF367	145.5974294	-0.605606571	3.38E-07
ENSG00000259207	ITGB3	265.7793274	-1.807755454	3.38E-07
ENSG00000169385	RNASE2	131.1693959	-1.519534905	3.40E-07

ENSG00000159753	CARMIL2	1293.633528	-0.387366535	3.40E-07
ENSG00000122417	ODF2L	1746.627852	-0.275633396	3.41E-07
ENSG00000203799	CCDC162P	21.96244739	-1.084368892	3.41E-07
ENSG00000115970	THADA	2043.319812	0.228780403	3.43E-07
ENSG00000130826	DKC1	945.7882365	0.51359407	3.43E-07
ENSG00000188542	DUSP28	382.6297093	-0.355183119	3.43E-07
ENSG00000125877	ITPA	518.9902519	0.290454968	3.43E-07
ENSG00000185909	KLHDC8B	471.4106253	1.006577844	3.44E-07
ENSG00000240474	RN7SL116P	161.6236198	0.861873244	3.45E-07
ENSG00000158411	MITD1	870.3644201	0.72243481	3.47E-07
ENSG00000109323	MANBA	1706.493532	-0.537693338	3.48E-07
ENSG00000105479	ODAD1	23.65416685	-1.155956929	3.48E-07
ENSG00000167470	MIDN	5435.629285	-0.54549736	3.51E-07
ENSG00000237094		52.65917655	-1.072398623	3.53E-07
ENSG00000160117	ANKLE1	63.82411282	0.722580868	3.53E-07
ENSG00000222503		10.25458971	-1.779606715	3.54E-07
ENSG00000109079	TNFAIP1	619.350363	0.486943867	3.55E-07
ENSG00000117984	CTSD	6585.443161	0.815090171	3.55E-07
ENSG00000204149	AGAP6	626.8077862	0.349263029	3.55E-07
ENSG00000132535	DLG4	365.6417429	-0.373003592	3.55E-07
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ENSG00000250075		31.20061364	-0.825222231	3.57E-07
ENSG00000261449		46.05159308	-1.40884517	3.59E-07
ENSG00000135521	LTV1	174.1063429	0.422091744	3.59E-07
ENSG00000125841	NRSN2	34.23213948	-0.994401026	3.60E-07
ENSG00000062524	LTK	163.5661775	-0.761753447	3.61E-07
ENSG00000259845	HERC2P10	129.2421139	-0.527878947	3.63E-07
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ENSG00000118156	ZNF541	80.12895097	0.952254571	3.68E-07
ENSG00000122477	LRRC39	22.97140559	-1.174327542	3.68E-07
ENSG00000275056		122.052198	-0.554920507	3.70E-07
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ENSG00000174123	TLR10	312.9042402	-0.747550614	3.71E-07
ENSG00000249309		118.2204649	1.333881113	3.71E-07
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ENSG00000158079	PTPDC1	202.268547	-0.317616649	3.73E-07
ENSG00000254288		13.6658757	-1.271693718	3.74E-07
ENSG00000066455	GOLGA5	910.4994773	0.267016178	3.77E-07
ENSG00000206969	RNU6-1316P	23.24604771	1.147934764	3.77E-07
ENSG00000247970		24.45814527	-1.183670394	3.77E-07
ENSG00000196850	PPTC7	2184.671574	-0.29193638	3.79E-07
ENSG00000174469	CNTNAP2	39.33049133	-1.749101256	3.80E-07
ENSG00000100075	SLC25A1	574.6994141	-0.33689669	3.80E-07
ENSG00000214826	DDX12P	190.4019603	-0.487388777	3.80E-07
ENSG00000268543		22.59029844	1.050510074	3.82E-07
ENSG00000248275	TRIM52-AS1	156.5640698	-0.761173127	3.83E-07
ENSG00000256294	ZNF225	308.6897259	0.705624626	3.84E-07

ENSG00000163481	RNF25	419.1737401	0.485052568	3.85E-07
ENSG00000167685	ZNF444	739.5410301	0.277894971	3.85E-07
ENSG00000224967		71.14307788	0.643446344	3.86E-07
ENSG00000117226	GBP3	1684.561164	0.746231611	3.90E-07
ENSG00000128512	DOCK4	6182.774334	1.576581892	3.90E-07
ENSG00000272721	EIF2B5-DT	20.58062837	1.078914065	3.90E-07
ENSG00000103335	PIEZO1	3663.512928	-0.3227335	3.91E-07
ENSG00000198830	HMG2	4370.339757	-0.390328553	3.92E-07
ENSG00000113368	LMNB1	1750.889352	0.605885419	3.92E-07
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ENSG00000181381	DDX60L	10271.14186	0.903699988	3.94E-07
ENSG00000179397	CATSPERE	52.74393677	-0.687449456	3.94E-07
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ENSG00000115339	GALNT3	615.6709731	-0.560356178	4.06E-07
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ENSG00000103549	RNF40	2752.83077	-0.26161998	4.07E-07
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ENSG00000232969		13.51709012	1.108103568	4.10E-07
ENSG00000130193	THEM6	363.8519725	0.422238494	4.10E-07
ENSG00000182310	SPACA6	463.7502111	0.745896129	4.10E-07
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ENSG00000198498	TMA16	256.2904784	0.467219231	4.15E-07
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ENSG00000164877	MICALL2	118.4971764	-0.607904961	4.26E-07
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ENSG00000077312	SNRPA	721.4251248	-0.35838724	4.65E-07
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ENSG00000222937	SNORD63B	32.15209776	-1.049045691	4.78E-07
ENSG00000228203	GRASLND	34.34804375	0.8091843	4.82E-07
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ENSG00000145708	CRHBP	13.71855496	-1.862276406	4.95E-07
ENSG00000138172	CALHM2	839.2246039	-0.69303114	5.00E-07

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ENSG00000136541	ERMN	255.3309669	-0.764644412	5.19E-07
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ENSG00000130589	HELZ2	7931.639563	0.852182908	5.28E-07
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ENSG00000254017	IGHEP2	82.01455784	-0.761625848	5.58E-07
ENSG00000113845	TIMMDC1	858.1763541	0.293987922	5.58E-07
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ENSG00000155729	KCTD18	605.9528473	-0.302295501	5.79E-07
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ENSG00000104368	PLAT	10.11427301	1.826598201	5.86E-07
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ENSG00000273002	ARHGEF2-AS2	190.6955359	1.126754766	5.89E-07
ENSG00000256712		178.7472463	-0.434243723	5.89E-07
ENSG00000071575	TRIB2	1986.274209	0.65208122	5.90E-07
ENSG00000104951	IL4I1	839.6915412	2.042207301	5.91E-07
ENSG00000106692	FKTN	363.5828891	0.310962111	5.92E-07
ENSG00000088451	TGDS	279.6949131	0.43714545	5.92E-07
ENSG00000102878	HSF4	84.75517789	-0.811220928	5.94E-07
ENSG00000232807		24.74868049	-1.207058882	5.96E-07
ENSG00000255495		29.70763206	-1.113711794	5.98E-07
ENSG00000221241	SNORD88A	11.62353646	-1.614345805	5.99E-07
ENSG00000182986	ZNF320	351.8318627	0.306271835	6.05E-07
ENSG00000230587	LINC02580	123.4592817	-0.550618927	6.08E-07
ENSG00000065054	SLC9A3R2	43.31198593	-0.660296271	6.13E-07
ENSG00000182117	NOP10	1274.448117	0.705727866	6.16E-07
ENSG00000122484	RPAP2	1703.849112	0.314644115	6.20E-07
ENSG00000043591	ADRB1	10.57732158	-1.895081044	6.22E-07
ENSG00000112701	SENP6	3809.704533	-0.293013756	6.22E-07
ENSG00000132256	TRIM5	1127.571982	0.671115549	6.23E-07
ENSG00000254842	LINC02551	61.324945	-0.707851217	6.26E-07
ENSG00000183479	TREX2	59.68054214	0.528192221	6.26E-07
ENSG00000260977		29.62703242	-0.792057824	6.29E-07
ENSG00000063245	EPN1	2512.294644	-0.270493991	6.30E-07
ENSG00000160305	DIP2A	5148.282384	0.308516683	6.30E-07
ENSG00000266965		73.63341795	-0.661072573	6.31E-07
ENSG00000091536	MYO15A	52.24673423	-0.89806202	6.32E-07
ENSG00000102858	MGRN1	3190.649774	-0.349922973	6.32E-07
ENSG00000267658	RAB5C-AS1	20.38862631	1.684935351	6.36E-07
ENSG00000198792	TMEM184B	2304.111315	0.506913165	6.39E-07
ENSG00000175414	ARL10	723.6479899	0.29329967	6.42E-07
ENSG00000166170	BAG5	1421.230377	-0.193216835	6.50E-07
ENSG00000156239	N6AMT1	318.5879691	0.636310151	6.51E-07
ENSG00000167202	TBC1D2B	4751.821084	0.465490583	6.51E-07
ENSG00000187626	ZKSCAN4	287.4547995	0.668316526	6.53E-07
ENSG00000104325	DECR1	1556.442048	-0.307391112	6.55E-07
ENSG00000248643	RBM14-RBM4	213.9306204	-0.441522174	6.55E-07
ENSG00000168334	XIRP1	5.093558261	2.686178362	6.55E-07
ENSG00000177030	DEAF1	1038.778517	0.393833307	6.55E-07
ENSG00000091527	CDV3	5407.198943	-0.236116105	6.57E-07

ENSG00000172086	KRCC1	842.293791	0.513062619	6.57E-07
ENSG00000249096	LINC02362	320.8691407	-0.600421742	6.60E-07
ENSG00000278962		198.5301792	1.074174262	6.61E-07
ENSG00000205078	SYCE1L	66.2120003	-0.615170347	6.62E-07
ENSG00000121486	TRMT1L	996.9628721	0.443786246	6.67E-07
ENSG00000188321	ZNF559	630.2819361	0.296381718	6.71E-07
ENSG00000116857	TMEM9	424.0836326	-0.603988882	6.72E-07
ENSG00000273148	LINC00653	112.1074437	-0.693276209	6.72E-07
ENSG00000273768	RNVU1-29	71.74034184	0.778616335	6.79E-07
ENSG00000126858	RHOT1	1401.83371	-0.400681589	6.85E-07
ENSG00000126351	THRA	1064.535645	-0.606793016	6.87E-07
ENSG00000261341		20.74472897	-1.207173432	6.92E-07
ENSG00000259030	FPGT-TNNI3K	15.15897799	-1.279733191	6.99E-07
ENSG00000228594	FNDC10	53.09497878	-1.019563944	7.01E-07
ENSG00000157833	GAREM2	127.9859772	-0.686344761	7.07E-07
ENSG00000226721	EEF1DP2	83.3187719	0.502207865	7.09E-07
ENSG00000164953	TMEM67	130.3068102	0.407473767	7.09E-07
ENSG00000140382	HMG20A	952.7825488	0.193627082	7.12E-07
ENSG00000173013	CCDC96	34.84256764	-1.054988714	7.16E-07
ENSG00000255857	PXN-AS1	54.34629251	-0.698484423	7.17E-07
ENSG00000247796	MOC52-DT	51.62073463	0.646356726	7.18E-07
ENSG00000170584	NUDCD2	408.1181462	0.297719095	7.23E-07
ENSG00000079385	CEACAM1	1409.885834	0.976171129	7.24E-07
ENSG00000170734	POLH	436.7545736	0.409822832	7.24E-07
ENSG00000276672		66.56620778	-0.713274208	7.27E-07
ENSG00000136710	CCDC115	668.6181447	-0.444405773	7.29E-07
ENSG00000236572		32.92665538	1.789581727	7.29E-07
ENSG00000151690	MFSD6	1234.162072	-0.249853378	7.30E-07
ENSG00000101220	C20orf27	291.3014472	-0.937521598	7.30E-07
ENSG00000237429		30.15552322	-0.71257181	7.33E-07
ENSG00000135316	SYNCRIP	3167.565869	0.255337798	7.34E-07
ENSG00000196557	CACNA1H	77.59953848	-0.708594877	7.35E-07
ENSG00000027644	INSRR	24.48778306	1.246497097	7.35E-07
ENSG00000235917	MTCO2P11	45.24150548	-0.997553819	7.40E-07
ENSG00000269877		10.25356249	-1.634575459	7.42E-07
ENSG00000152782	PANK1	83.56560526	0.705299538	7.47E-07
ENSG00000159200	RCAN1	478.3398519	0.675994085	7.47E-07
ENSG00000179698	WDR97	195.7454003	-0.483789952	7.48E-07
ENSG00000102786	INTS6	3622.817851	0.381202485	7.48E-07
ENSG00000197249	SERPINA1	18330.34082	0.926382616	7.49E-07
ENSG00000119616	FCF1	961.1315442	0.335733138	7.50E-07
ENSG00000185158	LRRC37B	1136.513568	-0.241823362	7.51E-07
ENSG00000177311	ZBTB38	2124.364619	-0.204173365	7.53E-07
ENSG00000182534	MXRA7	533.9394945	0.759648157	7.54E-07
ENSG00000151148	UBE3B	1969.452434	0.248612238	7.59E-07
ENSG00000176915	ANKLE2	3544.328399	0.211952168	7.60E-07
ENSG00000243477	NAA80	232.1902123	-0.355078998	7.63E-07
ENSG00000276728		145.1003547	-0.599027525	7.68E-07
ENSG00000126861	OMG	57.97791211	-0.756685154	7.69E-07
ENSG00000280088		117.3947736	-0.499158281	7.70E-07
ENSG00000163312	HELQ	849.5376105	0.190877771	7.76E-07

ENSG00000154134	ROBO3	141.1586164	-0.756217882	7.77E-07
ENSG00000110092	CCND1	67.98592093	0.765521855	7.78E-07
ENSG00000234199	LINC01191	53.76136929	0.861450447	7.79E-07
ENSG00000279765		423.2668209	0.540597372	7.79E-07
ENSG00000206732	RNU6-936P	20.6582381	-0.930903131	7.80E-07
ENSG00000234028	EIF2AK3-DT	105.1121555	-0.962500433	7.83E-07
ENSG00000119421	NDUFA8	250.8069771	0.382081355	7.87E-07
ENSG00000110075	PPP6R3	5412.359674	0.137762118	7.93E-07
ENSG00000280383		334.7820555	0.332335854	7.95E-07
ENSG00000084444	FAM234B	187.2626087	0.362939371	7.95E-07
ENSG00000250254	PTTG2	50.41842619	-0.793520679	7.97E-07
ENSG00000213722	DDAH2	830.356918	-0.569396848	7.98E-07
ENSG00000256235	SMIM3	377.6119349	0.543523307	7.98E-07
ENSG00000250081		14.73772672	-1.192806071	7.99E-07
ENSG00000173757	STAT5B	6256.899045	-0.51633125	8.01E-07
ENSG00000280007		81.08841935	1.143872633	8.04E-07
ENSG00000092068	SLC7A8	316.7024403	-0.981365269	8.06E-07
ENSG00000114439	BBX	3014.923146	-0.256538523	8.07E-07
ENSG00000215447		276.2809976	0.469293537	8.08E-07
ENSG00000143882	ATP6V1C2	12.11745169	1.78004259	8.08E-07
ENSG00000183579	ZNRF3	56.45406305	0.56695652	8.09E-07
ENSG00000131171	SH3BGRL	2713.473729	-0.516405892	8.12E-07
ENSG00000247746	USP51	69.15464764	-0.494778429	8.12E-07
ENSG00000004455	AK2	2184.172173	0.404591716	8.13E-07
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ENSG00000181163	NPM1	8436.688592	0.303428661	8.20E-07
ENSG00000196284	SUPT3H	286.4656348	-0.418417743	8.20E-07
ENSG00000132635	PCED1A	979.830466	-0.502248092	8.22E-07
ENSG00000178295	GEN1	427.4786029	0.284643269	8.25E-07
ENSG00000271871		36.63542504	-0.654307365	8.30E-07
ENSG00000121680	PEX16	968.1592569	-0.375122824	8.32E-07
ENSG00000150753	CCT5	2789.101006	0.632464329	8.38E-07
ENSG00000170291	ELP5	518.1409719	0.364150406	8.38E-07
ENSG00000153976	HS3ST3A1	16.91355089	1.24890632	8.39E-07
ENSG00000096070	BRPF3	2013.91867	0.698194859	8.41E-07
ENSG00000136636	KCTD3	113.3454777	-0.580673188	8.41E-07
ENSG00000029725	RABEP1	2520.964359	0.251666899	8.42E-07
ENSG00000254665		41.09251981	-0.981147647	8.53E-07
ENSG00000115507	OTX1	7.616632017	-2.708457922	8.58E-07
ENSG00000105223	PLD3	1628.544489	-0.7861555	8.61E-07
ENSG00000272754		69.89530962	-0.654732482	8.63E-07
ENSG00000107951	MTPAP	642.2225997	0.221921706	8.71E-07
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ENSG00000151465	CDC123	950.4473407	-0.274336022	8.75E-07
ENSG00000142396	ERVK3-1	1018.361981	-0.455871376	8.75E-07
ENSG00000225062	CATIP-AS1	133.6898041	-1.413513202	8.75E-07
ENSG00000083799	CYLD	9514.116491	0.232906004	8.76E-07
ENSG00000112367	FIG4	834.4541388	-0.354738859	8.78E-07
ENSG00000162496	DHRS3	1886.914814	-0.412078431	8.78E-07
ENSG00000130643	CALY	12.88540731	-1.432787168	8.78E-07
ENSG00000196172	ZNF681	209.9321722	0.578590158	8.86E-07

ENSG00000011454	RABGAP1	1437.244879	0.212205067	8.87E-07
ENSG00000124243	BCAS4	954.8354002	-0.354757286	8.90E-07
ENSG00000188878	FBF1	255.7558833	0.47629633	8.91E-07
ENSG00000081985	IL12RB2	216.9137189	0.561644325	8.92E-07
ENSG00000182584		88.29058861	0.630165974	8.94E-07
ENSG00000125652	ALKBH7	548.0651123	-0.615450685	9.02E-07
ENSG00000160183	TMPRSS3	82.00385023	0.544307192	9.11E-07
ENSG00000265800		23.86881246	-1.09626089	9.11E-07
ENSG00000117151	CTBS	2000.151545	-0.52006017	9.12E-07
ENSG00000137714	FDX1	553.6514169	0.332136975	9.15E-07
ENSG00000171444	MCC	105.610455	-0.56737645	9.18E-07
ENSG00000166578	IQCD	29.24267328	-1.28249375	9.26E-07
ENSG00000261326	LINC01355	384.3226953	1.222501908	9.26E-07
ENSG00000106404	CLDN15	724.0200349	0.247827515	9.27E-07
ENSG00000155657	TTN	3083.40304	-0.605613767	9.28E-07
ENSG00000106328	FSCN3	58.07753931	-0.635912879	9.28E-07
ENSG00000187556	NANOS3	18.355715	1.44802146	9.30E-07
ENSG00000197653	DNAH10	24.74217078	-0.858912248	9.31E-07
ENSG00000145912	NHP2	691.5471162	0.482928471	9.35E-07
ENSG00000117560	FASLG	258.13272	1.372809149	9.37E-07
ENSG00000003147	ICA1	66.32176019	-0.772195692	9.39E-07
ENSG00000168710	AHCYL1	1514.625047	0.258015702	9.42E-07
ENSG00000122223	CD244	572.7494156	-0.678085158	9.44E-07
ENSG00000206651		116.9728305	-0.639881988	9.44E-07
ENSG00000224875	EML4-AS1	31.71931478	1.012679526	9.47E-07
ENSG00000105519	CAPS	754.6349991	-0.378248996	9.48E-07
ENSG00000254639		22.48488568	-1.221939004	9.52E-07
ENSG00000006625	GGCT	87.7678151	0.419975438	9.53E-07
ENSG00000134571	MYBPC3	397.3469254	0.754872357	9.55E-07
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ENSG00000178700	DHFR2	307.3884233	0.541582411	9.64E-07
ENSG00000154736	ADAMTS5	6.931358538	-5.318236484	9.70E-07
ENSG00000272914		85.67339762	0.833398318	9.72E-07
ENSG00000145882	PCYOX1L	828.0289094	0.254512047	9.72E-07
ENSG00000130935	NOL11	983.1112895	0.296318282	9.74E-07
ENSG00000115850	LCT	17.37938906	0.951872176	9.77E-07
ENSG00000271840		263.3500777	0.473164168	9.81E-07
ENSG00000076382	SPAG5	136.0983878	0.512028179	9.82E-07
ENSG00000138161	CUZD1	112.0830559	0.654604952	9.94E-07
ENSG00000141376	BCAS3	1194.554086	-0.393948137	9.94E-07
ENSG00000137413	TAF8	1327.073732	-0.292578732	9.95E-07
ENSG00000226742	HSBP1L1	161.0150028	-0.580276455	1.00E-06
ENSG00000162572	SCNN1D	113.084375	-0.778479698	1.00E-06
ENSG00000163558	PRKCI	768.6973138	0.413154083	1.01E-06
ENSG00000188997	KCTD21	583.1614452	0.998498591	1.01E-06
ENSG00000268439		27.01515421	0.74903508	1.01E-06
ENSG00000136603	SKIL	10440.54214	1.522586545	1.01E-06
ENSG00000064651	SLC12A2	645.1335856	0.27337357	1.01E-06
ENSG00000143756	FBXO28	1201.449806	0.31699567	1.01E-06
ENSG00000221821	C6orf226	60.9065313	-0.84981471	1.02E-06

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ENSG00000175198	PCCA	331.8285629	-0.334371477	1.02E-06
ENSG00000271870		71.21541014	0.646874937	1.03E-06
ENSG00000198089	SFI1	3239.896405	-0.297011109	1.03E-06
ENSG00000276603		162.3611502	-0.329503345	1.03E-06
ENSG00000272142		16.99462338	0.822665703	1.03E-06
ENSG00000176715	ACSF3	3039.86893	0.241362068	1.04E-06
ENSG00000249222	ATP5MGL	34.43955599	-0.901249084	1.04E-06
ENSG00000121552	CSTA	589.9848674	-0.891020247	1.05E-06
ENSG00000255449		52.25835501	-0.740096951	1.05E-06
ENSG00000113638	TTC33	493.4751437	0.349845857	1.05E-06
ENSG00000126775	ATG14	785.2453997	-0.27510407	1.06E-06
ENSG00000196335	STK31	17.01351043	-1.112837243	1.06E-06
ENSG00000232587	EEF1A1P3	224.986837	-0.441951356	1.06E-06
ENSG00000163703	CRELD1	646.286578	0.449067232	1.06E-06
ENSG00000168591	TMUB2	1242.322625	-0.363062765	1.06E-06
ENSG00000263045		12.05204029	1.177540586	1.07E-06
ENSG00000062822	POLD1	572.2613698	0.339536354	1.07E-06
ENSG00000137842	TMEM62	564.1273344	-0.547268336	1.07E-06
ENSG00000264419	MIR548AC	55.17174585	1.138785289	1.08E-06
ENSG00000248476	BACH1-IT1	230.1454712	0.565362025	1.08E-06
ENSG00000186260	MRTFB	659.0399782	-0.303442979	1.08E-06
ENSG00000248866	USP46-DT	60.97052467	0.736862609	1.08E-06
ENSG00000136436	CALCOCO2	2574.279142	-0.366890954	1.08E-06
ENSG00000260698		53.5629454	-0.693878484	1.08E-06
ENSG00000018189	RUFY3	985.2010312	0.213314767	1.09E-06
ENSG00000131748	STARD3	2501.59443	0.366843762	1.09E-06
ENSG00000172840	PDP2	390.5642292	0.486695828	1.09E-06
ENSG00000124102	PI3	6888.863647	2.465768416	1.09E-06
ENSG00000165507	DEPP1	18.99547743	1.373489401	1.09E-06
ENSG00000275759		29.11183243	-0.731252305	1.09E-06
ENSG00000204623	ZNRD1ASP	1114.92128	0.512289428	1.10E-06
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ENSG00000162600	OMA1	818.1801192	0.211924952	1.10E-06
ENSG00000138758	SEPTIN11	716.544867	-0.348450009	1.10E-06
ENSG00000186130	ZBTB6	622.2331829	0.507392574	1.10E-06
ENSG00000279900		108.0186672	1.291980382	1.10E-06
ENSG00000207357	RNU6-2	55.17676843	1.18752754	1.11E-06
ENSG00000158428	CATIP	17.17598561	-1.402358439	1.11E-06
ENSG00000105327	BBC3	472.0234995	-0.506466735	1.11E-06
ENSG00000091490	SEL1L3	2152.736304	-0.319051957	1.11E-06
ENSG00000260386	LDC1P	10.00781826	-1.663342073	1.11E-06
ENSG00000175105	ZNF654	1361.797575	0.344308916	1.12E-06
ENSG00000196312	MFS14C	872.2462224	-0.260952218	1.12E-06
ENSG00000165724	ZMYND19	292.5549921	0.477504174	1.12E-06
ENSG00000148154	UGCG	1464.477043	0.353110766	1.12E-06
ENSG00000089335	ZNF302	998.5654933	0.281981156	1.13E-06
ENSG00000101193	GID8	1639.320677	-0.229221374	1.13E-06
ENSG00000163605	PPP4R2	2677.99779	0.373220461	1.13E-06
ENSG00000173559	NABP1	11748.30569	0.590308569	1.14E-06
ENSG00000005381	MPO	106.4659577	-1.308382219	1.14E-06

ENSG00000146729	NIPSNAP2	913.1402757	-0.380062886	1.14E-06
ENSG00000100209	HSCB	187.8953341	0.446035656	1.14E-06
ENSG00000188522	FAM83G	534.3842699	0.778674617	1.15E-06
ENSG00000159399	HK2	1664.605387	-0.606138718	1.15E-06
ENSG00000282100	HSP90AB4P	154.5898013	0.698085835	1.15E-06
ENSG00000121769	FABP3	6.734191551	2.839718895	1.16E-06
ENSG00000273129	PACERR	43.71685578	0.99325284	1.17E-06
ENSG00000173171	MTX1	327.5953211	-0.509772713	1.17E-06
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ENSG00000263412	NFE2L1-DT	63.78859983	0.801890565	1.18E-06
ENSG00000177272	KCNA3	2109.038895	0.30075324	1.18E-06
ENSG00000257218	GATC	645.0080252	0.344714809	1.18E-06
ENSG00000240972	MIF	239.704951	0.45888272	1.18E-06
ENSG00000103429	BFAR	1187.870431	0.255983696	1.19E-06
ENSG00000106263	EIF3B	2617.778289	0.354324088	1.19E-06
ENSG00000100979	PLTP	111.7301223	0.827196937	1.19E-06
ENSG00000260723		34.40135921	-0.690653318	1.19E-06
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ENSG00000197614	MFAP5	8.202212924	2.208139261	1.20E-06
ENSG00000273841	TAF9	886.7114037	0.358642088	1.20E-06
ENSG00000133104	SPART	1538.010023	0.379190715	1.20E-06
ENSG00000135245	HILPDA	70.31919757	0.54018635	1.20E-06
ENSG00000128917	DLL4	45.51414443	-1.636865298	1.20E-06
ENSG00000088727	KIF9	51.23110063	-0.609209719	1.22E-06
ENSG00000118369	USP35	693.5711134	0.798984642	1.22E-06
ENSG00000261208		137.5717381	-0.827964605	1.22E-06
ENSG00000162702	ZNF281	1640.040289	-0.393645736	1.22E-06
ENSG00000149313	AASDHPPT	772.0074725	0.417548338	1.22E-06
ENSG00000225850		9.976760358	-1.608870752	1.22E-06
ENSG00000255423	EBLN2	260.1624996	0.334199664	1.22E-06
ENSG00000142065	ZFP14	545.5884462	0.335618431	1.23E-06
ENSG00000116001	TIA1	2797.090724	0.371010134	1.23E-06
ENSG00000241163	LINC00877	816.9610604	0.991233782	1.23E-06
ENSG00000233885	YEATS2-AS1	24.54204014	-1.075718684	1.23E-06
ENSG00000117419	ERI3	620.8024248	0.231029911	1.23E-06
ENSG00000049130	KITLG	82.70438583	1.96207187	1.24E-06
ENSG00000188305	PEAK3	333.0174364	-0.806107019	1.24E-06
ENSG00000005801	ZNF195	777.5293566	0.262348453	1.24E-06
ENSG00000215421	ZNF407	1780.031945	-0.215718822	1.24E-06
ENSG00000120254	MTHFD1L	487.4927812	1.304137957	1.24E-06
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ENSG00000228606	DCAF8-DT	56.09384263	0.558676468	1.24E-06
ENSG00000283341		91.89325105	0.881402102	1.24E-06
ENSG00000090470	PDCD7	708.2503891	0.347389056	1.24E-06
ENSG00000170653	ATF7	762.6308346	-0.293633091	1.25E-06
ENSG00000165322	ARHGAP12	1487.236351	-0.436808505	1.25E-06
ENSG00000149925	ALDOA	9124.610733	-0.33111526	1.26E-06
ENSG00000201217		147.816157	-0.526837754	1.26E-06
ENSG00000141627	DYM	1676.835177	-0.171292344	1.27E-06
ENSG00000279463		48.37344683	-0.711051572	1.27E-06
ENSG00000243759	ST13P15	23.65706915	-0.817891012	1.27E-06

ENSG00000146433	TMEM181	1806.33696	-0.224928272	1.27E-06
ENSG00000143321	HDGF	5252.679046	0.662798901	1.28E-06
ENSG00000103126	AXIN1	1967.765503	-0.250948434	1.29E-06
ENSG00000251408		17.5451841	1.162535744	1.29E-06
ENSG00000171084	FAM86JP	33.30588421	0.615968812	1.29E-06
ENSG00000144554	FANCD2	574.7564645	0.241174764	1.29E-06
ENSG00000198182	ZNF607	206.3680371	0.430898531	1.29E-06
ENSG00000244026	FAM86DP	280.0500225	0.417080731	1.29E-06
ENSG00000148737	TCF7L2	774.4897017	0.594522681	1.29E-06
ENSG00000244879	GABPB1-AS1	2399.343922	-0.425299718	1.29E-06
ENSG00000114784	EIF1B	1297.535161	0.558879054	1.29E-06
ENSG00000004961	HCCS	347.0284646	0.490338436	1.30E-06
ENSG00000196865	NHLRC2	1443.010941	0.22949352	1.30E-06
ENSG00000148450	MSRB2	184.5283763	-0.547090137	1.30E-06
ENSG00000176928	GCNT4	823.9039373	0.717855572	1.31E-06
ENSG00000102390	PBDC1	243.3844775	0.383462607	1.31E-06
ENSG00000131759	RARA	3763.444437	-0.45309534	1.33E-06
ENSG00000263831	MIR378E	32.67559902	-0.673989834	1.33E-06
ENSG00000267321	SNHG30	190.6177637	-0.407600888	1.33E-06
ENSG00000228274		12.73665552	-1.199202446	1.33E-06
ENSG00000066379	POLR1H	404.1720222	0.516747133	1.34E-06
ENSG00000262049		205.0102684	-0.456009778	1.35E-06
ENSG00000147416	ATP6V1B2	11270.36926	0.876727418	1.35E-06
ENSG00000115233	PSMD14	721.7258629	0.488307434	1.35E-06
ENSG00000160785	SLC25A44	1541.05415	-0.28407741	1.36E-06
ENSG00000211692	TRGJP1	26.63286456	1.155857152	1.36E-06
ENSG00000147202	DIAPH2	1081.652469	0.413764134	1.36E-06
ENSG00000260816		43.78306895	-0.965813882	1.36E-06
ENSG00000058453	CROCC	965.4801939	-0.488076601	1.37E-06
ENSG00000279744		189.6760738	-0.736140231	1.37E-06
ENSG00000166925	TSC22D4	4313.647169	-0.373102777	1.37E-06
ENSG00000120875	DUSP4	1443.40544	1.301981642	1.38E-06
ENSG00000002016	RAD52	359.0257926	0.485825513	1.38E-06
ENSG00000184634	MED12	2392.06739	0.45054573	1.39E-06
ENSG00000238057	ZEB2-AS1	64.18476687	0.79767979	1.41E-06
ENSG00000168350	DEGS2	19.40937454	-1.172110885	1.41E-06
ENSG00000168439	STIP1	1597.676546	0.803686748	1.41E-06
ENSG00000177302	TOP3A	1352.249998	-0.300533633	1.41E-06
ENSG00000214626	POLR3DP1	29.27140075	-0.833450429	1.41E-06
ENSG00000036530	CYP46A1	13.4043741	-1.35720098	1.41E-06
ENSG00000124275	MTRR	1184.583714	0.232551416	1.42E-06
ENSG00000166682	TMPRSS5	46.10089564	-0.745784238	1.43E-06
ENSG00000156504	PABIR2	805.9163884	-0.319319524	1.44E-06
ENSG00000178234	GALNT11	964.8976018	0.308975619	1.44E-06
ENSG00000163913	IFT122	487.3929042	-0.313519507	1.45E-06
ENSG00000175262	C1orf127	7.084758773	-2.878839451	1.45E-06
ENSG00000178971	CTC1	3483.46779	-0.208535903	1.45E-06
ENSG00000130584	ZBTB46	232.3368494	0.895660343	1.46E-06
ENSG00000155957	TMBIM4	961.2958211	0.364601146	1.46E-06
ENSG00000279794		57.29991445	0.601831792	1.47E-06
ENSG00000123575	FAM199X	1524.032145	-0.210122328	1.48E-06

ENSG00000160539	PLPP7	14.77592545	-1.284202521	1.48E-06
ENSG00000120948	TARDBP	1903.47514	-0.194259807	1.48E-06
ENSG00000180573	H2AC6	4678.580475	-0.637877026	1.49E-06
ENSG00000224415		26.38047915	0.945335367	1.49E-06
ENSG00000221639		27.97801497	0.80027368	1.49E-06
ENSG00000103494	RPGRIP1L	135.0606199	0.461771139	1.50E-06
ENSG00000100601	ALKBH1	362.2901281	0.319097856	1.50E-06
ENSG00000108091	CCDC6	1119.733989	-0.34954246	1.51E-06
ENSG00000108953	YWHAE	3492.287053	0.533424651	1.51E-06
ENSG00000112303	VNN2	4003.912348	-1.289927058	1.51E-06
ENSG00000251023		135.7818437	0.44270017	1.52E-06
ENSG00000112308	C6orf62	10996.72578	0.294447657	1.54E-06
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ENSG00000198106		121.7291532	-0.581751507	1.56E-06
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ENSG00000183309	ZNF623	889.3996144	0.36671543	1.57E-06
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ENSG00000120093	HOXB3	191.3333624	0.386636645	1.57E-06
ENSG00000226200	SGMS1-AS1	417.3322178	-0.490525461	1.57E-06
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ENSG00000270060		85.77109014	-0.581385003	1.58E-06
ENSG00000086065	CHMP5	1475.472242	0.59467653	1.59E-06
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ENSG00000198723	TEX45	22.4409149	-2.381627792	1.59E-06
ENSG00000241889		23.2193368	-1.129992597	1.59E-06
ENSG00000218996	ARL4AP5	14.01843556	1.296400733	1.60E-06
ENSG00000169252	ADRB2	460.460259	-0.581420455	1.61E-06
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ENSG00000211688	TRGJP2	64.25050385	0.930424955	1.61E-06
ENSG00000197872	CYRIA	1911.807599	-0.647435243	1.62E-06
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ENSG00000270067		42.34144092	0.791705439	1.62E-06
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ENSG00000258430		27.57638766	-1.028132129	1.66E-06
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ENSG00000124279	FASTKD3	196.7096334	0.401386073	1.67E-06
ENSG00000179954	SSC5D	17.22017562	-1.135309783	1.67E-06
ENSG00000267543		13.92995592	1.442634823	1.67E-06
ENSG00000015153	YAF2	1347.250987	-0.247418416	1.68E-06
ENSG00000279901		163.5426944	-0.394352512	1.68E-06

ENSG00000232104	RFX3-DT	186.9959141	-0.58906962	1.69E-06
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ENSG00000266235	MIR3176	35.49531238	1.055898162	1.70E-06
ENSG00000241860		127.7052351	-1.098667722	1.70E-06
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ENSG00000135269	TES	2290.734541	-0.24401844	1.72E-06
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ENSG00000100372	SLC25A17	274.9269696	0.333684692	1.74E-06
ENSG00000099377	HSD3B7	260.3520837	1.093438	1.75E-06
ENSG00000066855	MTFR1	266.5945145	0.336821916	1.75E-06
ENSG00000163466	ARPC2	12033.3653	-0.253016599	1.76E-06
ENSG00000117322	CR2	129.5382925	-0.75880269	1.76E-06
ENSG00000231528	FAM225A	11.15566627	-2.464711046	1.76E-06
ENSG00000101000	PROCR	57.47004079	-1.005235727	1.76E-06
ENSG00000173039	RELA	3120.978124	0.312480721	1.76E-06
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ENSG00000260101	AFTPH-DT	34.64570439	0.700535231	1.76E-06
ENSG00000257702	LBX2-AS1	115.8233891	0.54537603	1.76E-06
ENSG00000119574	ZBTB45	470.2113442	0.364393379	1.76E-06
ENSG00000184470	TXNRD2	754.2752954	-0.277188272	1.77E-06
ENSG00000163683	SMIM14	993.3323432	-0.292963078	1.77E-06
ENSG00000105173	CCNE1	40.06372625	-0.617791567	1.78E-06
ENSG00000240219		191.9136675	-0.517077559	1.80E-06
ENSG00000151491	EPS8	110.1591034	-0.714857019	1.80E-06
ENSG00000120051	CFAP58	108.0994094	1.21682887	1.80E-06
ENSG00000165029	ABCA1	6671.647974	0.677878878	1.81E-06
ENSG00000214552	COPS8P2	10.78702837	-1.645187033	1.82E-06
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ENSG00000183833	CFAP91	45.5670369	1.7226261	1.82E-06
ENSG00000250938	MAD2L1-DT	42.39927168	0.546865262	1.82E-06
ENSG00000232533	FAM131B-AS2	163.8339555	-0.476552243	1.83E-06
ENSG00000276710	CSPG4P10	24.58746934	-0.840190375	1.84E-06
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ENSG00000269951		48.24271084	-0.599900906	1.84E-06
ENSG00000077063	CTTNBP2	8.183722946	-3.290489221	1.84E-06
ENSG00000181004	BBS12	115.2412935	0.789060654	1.84E-06
ENSG00000151461	UPF2	1744.002924	-0.238283794	1.85E-06
ENSG00000265241	RBM8A	2363.083107	0.248656806	1.87E-06
ENSG00000184047	DIABLO	431.2577336	-0.504964232	1.87E-06
ENSG00000186352	ANKRD37	128.1441224	0.409359962	1.89E-06
ENSG00000280003		42.13333285	-0.983633948	1.89E-06
ENSG00000143842	SOX13	192.2083526	-0.588140406	1.89E-06
ENSG00000090861	AARS1	1068.776645	0.562678492	1.89E-06
ENSG00000163257	DCAF16	1668.380634	-0.308955179	1.89E-06
ENSG00000141161	UNC45B	17.78906692	-1.237187416	1.90E-06
ENSG00000132718	SYT11	782.2921523	-0.374086077	1.92E-06
ENSG00000148358	GPR107	2595.875824	0.330809294	1.92E-06

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ENSG00000089006	SNX5	2092.248289	0.343434102	1.92E-06
ENSG00000178163	ZNF518B	1737.735846	-0.187793815	1.94E-06
ENSG00000137948	BRDT	12.08024142	1.448680276	1.94E-06
ENSG00000274173	LINC02967	18.68744064	-2.139545016	1.95E-06
ENSG00000140548	ZNF710	2570.684488	0.957544145	1.95E-06
ENSG00000143127	ITGA10	159.3713772	0.674690238	1.95E-06
ENSG00000273329		687.9140529	0.498903361	1.95E-06
ENSG00000183506	PI4KAP2	553.6306757	-0.244167136	1.95E-06
ENSG00000074621	SLC24A1	205.5249783	0.31402566	1.96E-06
ENSG00000267275	KLF2-DT	53.88546631	0.732853108	1.96E-06
ENSG00000244256	RN7SL130P	19.74700777	-0.813006914	1.97E-06
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ENSG00000125991	ERGIC3	1600.65091	-0.234394691	1.97E-06
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ENSG00000111328	CDK2AP1	162.1802193	-0.629357714	1.99E-06
ENSG00000201785	SNORD117	23.30438723	-0.823260131	2.00E-06
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ENSG00000113249	HAVCR1	113.1594748	-0.563015357	2.01E-06
ENSG00000143851	PTPN7	2530.907161	0.586683204	2.02E-06
ENSG00000163607	GTPBP8	445.2141104	0.30168377	2.03E-06
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ENSG00000172757	CFL1	7715.685623	-0.351727486	2.04E-06
ENSG00000236723		61.4738288	0.648315007	2.04E-06
ENSG00000138303	ASCC1	524.0846698	0.22978517	2.05E-06
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ENSG00000267064	UXT-AS1	22.9330592	0.678139892	2.08E-06
ENSG00000272264		28.47973094	-0.939510984	2.09E-06
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ENSG00000013016	EHD3	325.2123919	-0.5131364	2.11E-06
ENSG00000163512	AZI2	1354.29985	0.397016264	2.11E-06
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ENSG00000143195	ILDR2	40.23382492	0.963375231	2.18E-06
ENSG00000006652	IFRD1	3573.597139	-0.776145294	2.19E-06
ENSG00000166477	LEO1	280.566014	0.488633953	2.19E-06
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ENSG00000121310	ECHDC2	1173.92035	-0.433111556	2.21E-06
ENSG00000137770	CTDSPL2	1822.556394	-0.270601996	2.21E-06
ENSG00000127946	HIP1	3527.541755	1.17987683	2.21E-06
ENSG00000169683	LRRC45	256.151996	-0.436627706	2.22E-06
ENSG00000174173	TRMT10C	544.8546053	0.372969412	2.22E-06
ENSG00000183978	COA3	280.2665081	0.383790719	2.23E-06

ENSG00000141456	PELP1	987.739854	0.294792595	2.23E-06
ENSG00000185504	FAAP100	1264.827651	0.252136973	2.23E-06
ENSG00000170017	ALCAM	2348.462512	1.251603249	2.24E-06
ENSG00000197785	ATAD3A	413.0832684	0.678945161	2.24E-06
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ENSG00000269514		410.937741	0.434244828	2.24E-06
ENSG00000174151	CYB561D1	1298.405033	-0.216543076	2.24E-06
ENSG00000123096	SSPN	64.38284665	0.664658275	2.26E-06
ENSG00000146872	TLK2	1628.445124	-0.206708062	2.26E-06
ENSG00000198939	ZFP2	36.7373965	0.642573943	2.26E-06
ENSG00000276291	FRG1HP	817.3357371	-0.17066669	2.26E-06
ENSG00000232940	HCG25	90.84692838	0.749287358	2.26E-06
ENSG00000254231	WWP1-AS1	25.15542194	0.677269365	2.26E-06
ENSG00000182057	OGFRP1	44.40459323	0.566717892	2.27E-06
ENSG00000137078	SIT1	540.6100149	-0.413450995	2.27E-06
ENSG00000262265		48.85513297	-0.582942263	2.27E-06
ENSG00000069974	RAB27A	1876.579536	-0.368169222	2.27E-06
ENSG00000162813	BPNT1	362.0719687	0.291284295	2.28E-06
ENSG00000264384	RN7SL431P	120.1724394	-0.599532874	2.28E-06
ENSG00000162300	ZFPL1	546.2545578	-0.378068707	2.29E-06
ENSG00000100614	PPM1A	4889.642411	-0.487473013	2.29E-06
ENSG00000117242	PINK1-AS	333.4098782	-0.382559892	2.30E-06
ENSG00000101966	XIAP	2131.592896	0.418555022	2.30E-06
ENSG00000102753	KPNA3	1146.836997	0.24789939	2.30E-06
ENSG00000185522	LMNTD2	114.2826858	-0.522692194	2.30E-06
ENSG00000177034	MTX3	657.824509	-0.424354273	2.31E-06
ENSG00000248445	SEMA6A-AS1	131.2361747	-0.414350323	2.32E-06
ENSG00000196544	BORCS6	506.3941315	-0.34486935	2.34E-06
ENSG00000115947	ORC4	1114.842498	-0.284247564	2.34E-06
ENSG00000105607	GCDH	686.2939905	0.290086224	2.35E-06
ENSG00000189430	NCR1	507.2214024	0.647237064	2.35E-06
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ENSG00000279319		36.31989762	-0.745628091	2.37E-06
ENSG00000171150	SOCS5	677.5530976	-0.209355588	2.38E-06
ENSG00000254799	SLC25A47P1	18.42613019	1.171580493	2.38E-06
ENSG00000198730	CTR9	1493.44751	0.332662341	2.38E-06
ENSG00000118420	UBE3D	237.0074802	0.296208535	2.39E-06
ENSG00000135775	COG2	874.6199402	0.181579833	2.40E-06
ENSG00000213445	SIPA1	7424.651576	-0.30709219	2.41E-06
ENSG00000160229	ZNF66	184.668642	-0.422932342	2.42E-06
ENSG00000138190	EXOC6	758.4904909	-0.443264125	2.42E-06
ENSG00000169184	MN1	230.2938367	1.175365694	2.43E-06
ENSG00000240399		43.45327027	0.560682677	2.44E-06
ENSG00000185803	SLC52A2	489.9536371	0.45417856	2.45E-06
ENSG00000058673	ZC3H11A	105.5004808	0.544744365	2.45E-06
ENSG00000139687	RB1	2254.843553	0.340154838	2.46E-06
ENSG00000100034	PPM1F	3716.607092	-0.548026208	2.48E-06
ENSG00000138279	ANXA7	2312.360738	0.218435198	2.50E-06
ENSG00000036054	TBC1D23	1521.363048	0.308624461	2.50E-06
ENSG00000213988	ZNF90	92.51797949	-0.41859422	2.51E-06

ENSG00000181026	AEN	1031.483806	0.3616186	2.51E-06
ENSG00000029993	HMGB3	39.81574006	-1.173484401	2.51E-06
ENSG00000166670	MMP10	51.40212386	2.903944181	2.52E-06
ENSG00000179331	RAB39A	131.4510071	1.025670911	2.52E-06
ENSG00000126945	HNRNPH2	2055.319375	0.416571146	2.54E-06
ENSG00000178803	ADORA2A-AS1	49.5026818	1.491527966	2.55E-06
ENSG00000139908	TSSK4	43.05375194	0.845188634	2.57E-06
ENSG00000267212		53.04075423	0.662606044	2.57E-06
ENSG00000166797	CIAO2A	630.798418	-0.384166042	2.59E-06
ENSG00000168661	ZNF30	113.967046	0.475397598	2.59E-06
ENSG00000108474	PIGL	660.6414766	-0.317752471	2.59E-06
ENSG00000279191		83.4194737	-0.779332461	2.59E-06
ENSG00000269902		98.736562	1.32102606	2.61E-06
ENSG00000274475	RN7SL650P	36.72045129	-0.632762649	2.61E-06
ENSG00000127947	PTPN12	4850.049717	0.65356197	2.62E-06
ENSG00000179922	ZNF784	150.961195	-0.427481634	2.62E-06
ENSG00000068323	TFE3	3228.318587	0.567883293	2.62E-06
ENSG00000268403		127.4209403	0.509260077	2.66E-06
ENSG00000153551	CMTM7	1107.001051	0.299402585	2.66E-06
ENSG00000129480	DTD2	190.9365484	0.328404787	2.67E-06
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ENSG00000164574	GALNT10	2441.347275	-0.215431123	2.68E-06
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ENSG00000249993	BFSP2-AS1	17.26819006	-0.987710338	2.68E-06
ENSG00000152749	GPR180	365.6705856	0.346250187	2.69E-06
ENSG00000184203	PPP1R2	3136.172028	-0.224877129	2.70E-06
ENSG00000236567	TCF3P1	140.6331057	-0.655975777	2.72E-06
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ENSG00000142961	MOB3C	2103.312524	0.636850958	2.72E-06
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ENSG00000169071	ROR2	9.815323125	-1.454100703	2.74E-06
ENSG00000224137	LINC01857	51.32851816	1.09282103	2.74E-06
ENSG00000279738		417.0446805	0.366887702	2.74E-06
ENSG00000136485	DCAF7	2780.557815	0.419904005	2.75E-06
ENSG00000279349		120.5555855	1.177443909	2.75E-06
ENSG00000152558	TMEM123	11927.46314	0.503646361	2.77E-06
ENSG00000137752	CASP1	3616.010168	0.524273654	2.77E-06
ENSG00000131401	NAPSB	460.7379909	-0.550676096	2.78E-06
ENSG00000220517	ASS1P1	101.0274323	0.530460874	2.79E-06
ENSG00000170949	ZNF160	1236.667732	-0.189630687	2.79E-06
ENSG00000261061		25.81747707	0.929959606	2.80E-06
ENSG00000132801	ZSWIM3	148.7277016	0.933935705	2.80E-06
ENSG00000269925		54.57813677	-0.574989628	2.81E-06
ENSG00000235106	BRD3OS	311.3467519	0.303581907	2.81E-06
ENSG00000180346	TIGD2	204.61687	0.320426192	2.82E-06
ENSG00000156273	BACH1	9113.475841	0.492407883	2.82E-06
ENSG00000100697	DICER1	4057.517336	-0.374392011	2.82E-06
ENSG00000176092	CRYBG2	40.49716928	-0.783905446	2.84E-06
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ENSG00000279355		336.8766324	0.702262483	2.84E-06
ENSG00000134265	NAPG	883.730219	-0.254425482	2.84E-06

ENSG00000123130	ACOT9	1704.212256	0.534424606	2.84E-06
ENSG00000130956	HABP4	453.6902587	-0.343381258	2.86E-06
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ENSG00000134030	CTIF	353.791689	-0.345469328	2.87E-06
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ENSG00000246339	EXTL3-AS1	35.32397671	-0.806137768	3.00E-06
ENSG00000178921	PFAS	485.9766162	0.333046903	3.02E-06
ENSG00000278601		102.8209773	0.631291763	3.03E-06
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ENSG00000134461	ANKRD16	162.1468268	0.354372237	3.06E-06
ENSG00000185728	YTHDF3	3597.174751	0.307894094	3.07E-06
ENSG00000276337		180.313653	0.502556505	3.07E-06
ENSG00000267568		107.3407954	1.36711415	3.07E-06
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ENSG00000261270		107.5302855	-0.608179164	3.21E-06
ENSG00000113721	PDGFRB	76.73534287	-0.783166038	3.23E-06
ENSG00000228223	HCG11	105.3898558	-0.427291461	3.24E-06
ENSG00000280387		147.2205624	0.459534249	3.25E-06
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ENSG00000135637	CCDC142	855.8840905	0.515528838	3.46E-06
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ENSG00000169020	ATP5ME	196.2933412	-0.469115906	3.49E-06
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ENSG00000115840	SLC25A12	500.1354983	0.273088815	3.51E-06
ENSG00000169884	WNT10B	184.8894109	-0.763267314	3.51E-06
ENSG00000242324		40.44241957	-1.035934861	3.52E-06
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ENSG00000113070	HBEGF	764.4522439	0.909257201	3.55E-06
ENSG00000225205	PDK1-AS1	261.4415484	0.373349069	3.55E-06
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ENSG00000198756	COLGALT2	177.7719433	0.788753624	3.77E-06
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ENSG00000184154	LRRC51	80.76282791	0.881879951	4.27E-06
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ENSG00000225978	HAR1A	56.80150764	-0.823240671	4.31E-06
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ENSG00000148335	NTMT1	648.5172332	0.34220935	4.33E-06
ENSG00000131848	ZSCAN5A	189.0307126	0.375500154	4.33E-06
ENSG00000133119	RFC3	166.9837037	-0.563582881	4.33E-06
ENSG00000279361		209.8761287	0.457722982	4.33E-06
ENSG00000140839	CLEC18B	51.23582454	-0.760485975	4.34E-06
ENSG00000103855	CD276	247.1500229	2.739287841	4.38E-06
ENSG00000253663	NPM1P52	11.02714837	2.853911976	4.38E-06
ENSG00000144712	CAND2	68.60174245	-0.58891837	4.38E-06
ENSG00000235989	MORC2-AS1	35.74104777	0.803111313	4.39E-06
ENSG00000089486	CDIP1	613.9196203	0.249451213	4.41E-06
ENSG00000163840	DTX3L	4481.429087	0.67095788	4.41E-06
ENSG00000262222		117.6436125	-0.963883906	4.42E-06
ENSG00000260152		71.97483683	1.047139503	4.45E-06
ENSG00000165716	DIPK1B	89.06097125	-0.647417697	4.48E-06
ENSG00000173548	SNX33	258.5028032	-0.523973585	4.48E-06
ENSG00000224479		29.43330251	0.630014443	4.48E-06
ENSG00000138079	SLC3A1	19.78667359	-1.159873209	4.49E-06
ENSG00000261334		65.42522961	1.128714256	4.49E-06
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ENSG00000117519	CNN3	120.4488755	0.638321087	4.51E-06
ENSG00000163795	ZNF513	568.9896158	0.355251669	4.52E-06
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ENSG00000198963	RORB	22.29217756	1.451104264	4.53E-06
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ENSG00000089154	GCN1	3589.573739	0.319640087	4.54E-06
ENSG00000277548		34.48298198	-0.705814267	4.55E-06
ENSG00000261996		106.5816777	0.459648563	4.56E-06
ENSG00000230715		365.4919808	-0.461976236	4.56E-06
ENSG00000237651	C2orf74	50.72788985	0.724811704	4.57E-06
ENSG00000279917		133.2274495	0.734007129	4.57E-06
ENSG00000272825		60.75014224	1.197218944	4.57E-06
ENSG00000196357	ZNF565	105.2070049	0.328470874	4.58E-06
ENSG00000163947	ARHGEF3	2615.793508	-0.303485491	4.58E-06
ENSG00000145103	ILDR1	12.82353912	-1.204358961	4.58E-06
ENSG00000117054	ACADM	663.7037583	0.285687562	4.58E-06
ENSG00000167986	DDB1	3255.830637	0.229997314	4.59E-06
ENSG00000067533	RRP15	332.8463424	0.344975479	4.62E-06
ENSG00000100532	CGRRF1	326.3127278	-0.404405117	4.62E-06
ENSG00000101194	SLC17A9	293.9529235	-0.430328252	4.64E-06
ENSG00000215533	LINC00189	45.77457625	1.002949588	4.64E-06
ENSG00000171476	HOPX	236.4625837	-0.865270337	4.66E-06
ENSG00000155380	SLC16A1	369.8794	0.705792887	4.66E-06

ENSG00000146904	EPHA1	328.0698212	-0.538060597	4.66E-06
ENSG00000151332	MBIP	334.0401893	-0.481280202	4.67E-06
ENSG00000109111	SUPT6H	3215.869307	0.291291157	4.67E-06
ENSG00000228327		429.1095148	-0.53147518	4.69E-06
ENSG00000173273	TNKS	2096.709558	-0.191766688	4.71E-06
ENSG00000237065	NANOGP4	29.50686391	-1.058247025	4.71E-06
ENSG00000136933	RABEPK	283.4761582	-0.280220864	4.72E-06
ENSG00000187608	ISG15	3730.642689	1.500225086	4.74E-06
ENSG00000214029	ZNF891	700.4961801	0.29434472	4.75E-06
ENSG00000145495	MARCHF6	5416.620537	-0.227763268	4.77E-06
ENSG00000105366	SIGLEC8	141.9951869	0.799825305	4.77E-06
ENSG00000132185	FCRLA	188.0324189	-0.598401585	4.79E-06
ENSG00000271862		113.4391571	-0.417725477	4.79E-06
ENSG00000096093	EFHC1	202.4604617	-0.409907108	4.79E-06
ENSG00000091317	CMTM6	6990.43568	0.591613672	4.80E-06
ENSG00000170412	GPRC5C	15.55392617	-1.626729556	4.81E-06
ENSG00000276961	MIR7848	289.6294495	0.678145111	4.85E-06
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ENSG00000099800	TIMM13	484.2588018	0.452983319	4.87E-06
ENSG00000122779	TRIM24	903.0613046	-0.275799191	4.87E-06
ENSG00000274525		14.31960221	-1.09248528	4.89E-06
ENSG00000179886	TIGD5	446.5056479	0.35492346	4.91E-06
ENSG00000117751	PPP1R8	828.3510433	0.274307725	4.93E-06
ENSG00000227161		38.55251758	-0.792467546	4.97E-06
ENSG00000102158	MAGT1	1859.130632	0.297967598	4.99E-06
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ENSG00000166348	USP54	177.3572272	0.4365235	5.01E-06
ENSG00000187098	MITF	482.4102411	1.415224657	5.02E-06
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ENSG00000149136	SSRP1	1319.61326	0.237336963	5.06E-06
ENSG00000277218		27.68833895	0.912018038	5.08E-06
ENSG00000140563	MCTP2	3137.824977	-0.555189806	5.10E-06
ENSG00000156795	NTAQ1	130.3434553	0.480862674	5.10E-06
ENSG00000004139	SARM1	1382.511204	-0.333340199	5.12E-06
ENSG00000252498	RNU6-1016P	98.30440692	-0.504124197	5.14E-06
ENSG00000080802	CNOT4	1295.153357	0.258815804	5.16E-06
ENSG00000114867	EIF4G1	4884.178484	0.352693134	5.17E-06
ENSG00000204524	ZNF805	543.6929074	-0.388122256	5.18E-06
ENSG00000172269	DPAGT1	332.0637896	0.330658899	5.18E-06
ENSG00000089248	ERP29	1674.555587	-0.392728107	5.18E-06
ENSG00000137731	FXYD2	43.92919797	0.690845179	5.20E-06
ENSG00000091409	ITGA6	1920.669371	0.773150666	5.20E-06
ENSG00000092529	CAPN3	135.7562574	-0.517708925	5.21E-06
ENSG00000272982		69.9671845	0.473935991	5.23E-06
ENSG00000124588	NQO2	993.3554754	-0.373636458	5.23E-06
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ENSG00000155926	SLA	13524.36033	0.633110134	5.31E-06
ENSG00000111671	SPSB2	310.9880564	0.391475203	5.32E-06
ENSG00000165046	LETM2	134.579096	-0.417572805	5.33E-06

ENSG00000163539	CLASP2	2287.996709	0.215352705	5.34E-06
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ENSG00000275638		104.203046	0.57985256	5.36E-06
ENSG00000215252	GOLGA8B	1481.482693	-0.288473134	5.36E-06
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ENSG00000149131	SERPING1	412.8966525	-1.961549908	5.39E-06
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ENSG00000229931	ATXN1-AS1	92.1476584	0.657596805	5.46E-06
ENSG00000259326		55.17427849	-0.675564807	5.46E-06
ENSG00000261079		19.17750998	0.889998464	5.50E-06
ENSG00000168803	ADAL	156.5825394	0.346210695	5.54E-06
ENSG00000106400	ZNHIT1	990.8956576	-0.260689027	5.54E-06
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ENSG00000267416	HEATR6-DT	53.12069609	1.072867487	5.63E-06
ENSG00000223478	ZDHHC12-DT	35.50905726	-0.779296955	5.63E-06
ENSG00000213801	ZNF321P	104.3882224	-0.370251143	5.64E-06
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ENSG00000100207	TCF20	3231.228234	-0.213740248	5.67E-06
ENSG00000204220	PFDN6	143.76323	0.346869209	5.68E-06
ENSG00000105643	ARRDC2	5883.981603	0.812072725	5.68E-06
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ENSG00000180263	FGD6	217.0886978	-0.81284723	5.87E-06
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ENSG00000249476		403.308534	-0.387304457	5.88E-06
ENSG00000227053	MUC12-AS1	19.34782749	-0.907760387	5.88E-06
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ENSG00000276278		21.06702248	-0.852504852	6.49E-06
ENSG00000109047	RCVRN	18.54403573	-1.309542677	6.50E-06
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ENSG00000249129	SUDS3P1	18.29525846	-0.911194677	6.52E-06
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ENSG00000188199	NUTM2B	17.66350939	-1.023831264	6.60E-06
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ENSG00000139163	ETNK1	3811.445103	0.441374839	6.85E-06
ENSG00000184221	OLIG1	224.2442991	0.948118851	6.89E-06
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ENSG00000155287	SLC25A28	1141.278007	-0.521097602	7.40E-06
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ENSG00000229474	PATL2	1191.074135	-0.5234865	7.40E-06
ENSG00000268581	SIGLEC18P	50.69366348	0.952928851	7.42E-06
ENSG00000146453	PNLDC1	47.8741659	1.150744183	7.43E-06
ENSG00000184702	SEPTIN5	126.0001947	-1.278780733	7.44E-06
ENSG00000248794		15.65768356	0.84940358	7.48E-06
ENSG00000115841	RMDN2	181.5648878	-0.362581454	7.49E-06
ENSG00000196967	ZNF585A	372.9448269	0.591922002	7.51E-06
ENSG00000274214		14.92203577	-1.024612547	7.51E-06
ENSG00000165487	MICU2	1105.725425	-0.210405895	7.55E-06
ENSG00000182272	B4GALNT4	30.14238968	-1.249580127	7.58E-06
ENSG00000104936	DMPK	317.4298579	-0.464345912	7.59E-06
ENSG00000281883		12.63383658	2.011177802	7.60E-06
ENSG00000279155		12.5502089	1.276740717	7.60E-06
ENSG00000138669	PRKG2	46.33573403	-0.56463242	7.61E-06
ENSG00000261546		51.74233121	0.540619404	7.62E-06
ENSG00000166532	RIMKLB	528.0517057	0.342422324	7.63E-06
ENSG00000135297	MTO1	1079.792688	0.225281584	7.63E-06
ENSG00000269444		35.15541374	-0.761836243	7.67E-06
ENSG00000109471	IL2	11.30568638	1.606075368	7.67E-06
ENSG00000116903	EXOC8	1816.007585	-0.249813355	7.71E-06
ENSG00000187630	DHRS4L2	209.6092268	-0.609755946	7.73E-06
ENSG00000124357	NAGK	5405.404267	0.521137697	7.74E-06
ENSG00000175967	LINC02880	21.07364518	2.366816371	7.74E-06
ENSG00000176868		34.72507688	0.767985349	7.76E-06
ENSG00000161013	MGAT4B	2037.052384	0.292186531	7.80E-06
ENSG00000175054	ATR	1900.949486	0.209640974	7.83E-06
ENSG00000113303	BTNL8	383.2263788	1.09296241	7.85E-06
ENSG00000276182		222.9516471	0.554535743	7.85E-06
ENSG00000279799		39.97119396	-0.588763723	7.88E-06
ENSG00000276116	FUT8-AS1	57.69126394	0.489954002	7.90E-06
ENSG00000072062	PRKACA	1753.537431	-0.449363412	7.94E-06
ENSG00000228314	CYP4F29P	56.7157456	-1.025457952	7.94E-06
ENSG00000267364		93.4569686	-0.477494044	7.98E-06
ENSG00000260078	MPHOSPH10P1	383.1885269	-0.982594173	7.98E-06
ENSG00000196151	WDSUB1	218.3246979	-0.413801527	7.99E-06
ENSG00000239713	APOBEC3G	2477.159436	0.557527337	8.00E-06
ENSG00000240344	PPIL3	343.9915889	-0.36859702	8.02E-06
ENSG00000067057	PFKP	1578.740469	0.271468446	8.07E-06
ENSG00000109606	DHX15	3852.26613	0.183383612	8.10E-06
ENSG00000120802	TMPO	4025.132897	-0.249413969	8.12E-06
ENSG00000145214	DGKQ	1493.906155	-0.372466394	8.17E-06
ENSG00000259473	LINC02205	14.42753708	-1.308874154	8.20E-06
ENSG00000139437	TCHP	590.1587678	-0.293831905	8.20E-06

ENSG00000183010	PYCR1	35.77559489	1.031027632	8.23E-06
ENSG00000166664	CHRFAM7A	20.85225462	-1.110828693	8.25E-06
ENSG00000091972	CD200	197.2112204	0.497319051	8.27E-06
ENSG00000250602		15.6212342	-1.002656756	8.29E-06
ENSG00000239672	NME1	251.5976414	0.985384551	8.32E-06
ENSG00000115286	NDUFS7	759.6648877	-0.361138743	8.35E-06
ENSG00000180185	FAHD1	332.697294	0.387994344	8.40E-06
ENSG00000172731	LRRC20	51.37864852	-0.665187467	8.48E-06
ENSG00000171988	JMJD1C	8375.50473	-0.441804885	8.48E-06
ENSG00000137571	SLCO5A1	59.38061863	0.660572541	8.50E-06
ENSG00000177106	EPS8L2	92.11998276	-0.56556666	8.51E-06
ENSG00000265112	MIR3153	18.68707997	1.125585441	8.51E-06
ENSG00000121577	POPDC2	138.113092	0.387503548	8.54E-06
ENSG00000090520	DNAJB11	735.7600321	0.504424627	8.54E-06
ENSG00000223959	AFG3L1P	904.3011374	0.266319568	8.54E-06
ENSG00000196262	PPIA	8756.59416	0.318507482	8.58E-06
ENSG00000246174	KCTD21-AS1	77.85783325	0.682255548	8.65E-06
ENSG00000115239	ASB3	185.7312285	-0.303553894	8.72E-06
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ENSG00000134186	PRPF38B	2768.857584	-0.252987811	8.79E-06
ENSG00000225793	TMEM30A-DT	61.38849954	0.53428265	8.80E-06
ENSG00000231050	GNB1-DT	68.97853552	0.562378731	8.81E-06
ENSG00000120805	ARL1	754.75632	0.200428944	8.85E-06
ENSG00000154319	FAM167A	165.9989432	1.123672226	8.89E-06
ENSG00000009335	UBE3C	2616.136642	0.239230598	8.98E-06
ENSG00000183935	HTR7P1	138.4762431	-0.680667666	8.98E-06
ENSG00000166444	DENND2B	31.67141446	-0.913374106	8.99E-06
ENSG00000226674	TEX41	16.37341001	1.158601472	9.06E-06
ENSG00000119559	C19orf25	1151.552242	0.369185351	9.07E-06
ENSG00000110321	EIF4G2	16033.38955	0.342788762	9.10E-06
ENSG00000168411	RFWD3	996.9516611	0.197733175	9.12E-06
ENSG00000165637	VDAC2	1244.062336	-0.206497748	9.14E-06
ENSG00000271869	DCTN6-DT	80.82436271	-0.769879194	9.14E-06
ENSG00000274828		105.0769569	0.46283446	9.16E-06
ENSG00000115165	CYTIP	8866.423561	-0.326582294	9.16E-06
ENSG00000150776	NKAPD1	759.941534	0.27583709	9.21E-06
ENSG00000136932	TRMO	1024.622991	-0.227302523	9.21E-06
ENSG00000226950	DANCR	320.2421237	0.308111168	9.25E-06
ENSG00000228830		14.84218168	1.09498058	9.28E-06
ENSG00000131061	ZNF341	237.5832702	-0.336711886	9.30E-06
ENSG00000124783	SSR1	3578.810626	-0.206540845	9.31E-06
ENSG00000146556	WASH2P	439.1039337	-0.30335921	9.35E-06
ENSG00000273428		7.214584633	-2.002063941	9.36E-06
ENSG00000280997	CCAT2	16.19418794	-1.118121572	9.37E-06
ENSG00000100629	CEP128	392.7941774	-0.287901537	9.38E-06
ENSG00000176102	CSTF3	589.3391818	0.298438557	9.39E-06
ENSG00000256128	LINC00944	231.088971	0.385890199	9.41E-06
ENSG00000144824	PHLDB2	402.7590117	0.434800158	9.42E-06
ENSG00000172845	SP3	6720.126322	-0.253494885	9.42E-06
ENSG00000231416		29.22294718	0.699047884	9.48E-06
ENSG00000198833	UBE2J1	2208.748114	-0.549065871	9.51E-06

ENSG00000264324		28.11367662	-0.822452394	9.52E-06
ENSG00000261315	LARP4P	16.39400949	0.960436803	9.52E-06
ENSG00000261441	POLG-DT	10.8610593	1.243174218	9.54E-06
ENSG00000171049	FPR2	3521.147571	0.900271811	9.57E-06
ENSG00000147121	KRBOX4	431.1265278	0.228637308	9.59E-06
ENSG00000168303	MPLKIP	788.4395957	0.280402974	9.59E-06
ENSG00000231887	PRH1	29.63285336	-0.900068083	9.59E-06
ENSG00000206675	RNU6-32P	13.36061051	-0.983790677	9.59E-06
ENSG00000256325		54.96665781	0.641173969	9.61E-06
ENSG00000197467	COL13A1	728.0710632	2.201224672	9.62E-06
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ENSG00000107263	RAPGEF1	12323.54169	0.509465025	9.69E-06
ENSG00000230069	LRRC37A15P	194.4516309	-0.50114837	9.69E-06
ENSG00000168243	GNG4	19.65666272	1.430159726	9.70E-06
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ENSG00000131944	FAAP24	55.20325868	-0.613256842	9.76E-06
ENSG00000184307	ZDHHC23	271.0555613	0.368473739	9.77E-06
ENSG00000005020	SKAP2	2220.431383	-0.504030119	9.77E-06
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ENSG00000111605	CPSF6	3552.589168	-0.236001684	9.80E-06
ENSG00000155903	RASA2	3087.885917	-0.266196251	9.87E-06
ENSG00000132507	EIF5A	5298.095253	0.392489304	9.95E-06
ENSG00000131203	IDO1	1571.900645	1.246370292	9.96E-06
ENSG00000239305	RNF103	1463.487163	-0.298506569	9.98E-06
ENSG00000008869	HEATR5B	1779.489666	-0.275164949	9.98E-06
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ENSG00000093010	COMT	835.6155021	-0.264991515	1.00E-05
ENSG00000238446	RNU7-38P	35.04733217	0.96591225	1.00E-05
ENSG00000267138		31.43708183	0.825148734	1.00E-05
ENSG00000004766	VPS50	1139.849453	0.302653944	1.00E-05
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ENSG00000114302	PRKAR2A	1469.178198	-0.1502393	1.02E-05
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ENSG00000260942	CAPN10-DT	310.3459402	0.503130427	1.03E-05
ENSG00000196366	C9orf163	21.04541479	0.84660381	1.04E-05
ENSG00000196476	C20orf96	56.50662705	-0.66605845	1.05E-05
ENSG00000184182	UBE2F	533.3767321	-0.23404985	1.05E-05
ENSG00000243438	LARP1BP2	13.76674943	1.192932525	1.05E-05
ENSG00000006453	BAIAP2L1	37.69340295	0.796057391	1.05E-05
ENSG00000167716	WDR81	2164.135981	0.269918026	1.06E-05
ENSG00000132466	ANKRD17	4335.51725	0.266340445	1.06E-05
ENSG00000138593	SECISBP2L	2016.453398	-0.214498311	1.06E-05
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ENSG00000137310	TCF19	219.8524371	-0.464285127	1.07E-05
ENSG00000177706	FAM20C	1028.49156	-0.880626521	1.07E-05
ENSG00000273559	CWC25	1311.538707	0.323964096	1.07E-05
ENSG00000116747	RO60	2507.833721	-0.260293769	1.07E-05
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ENSG00000278979		54.21794839	-0.545375405	1.08E-05
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ENSG00000182325	FBXL6	358.0224295	0.3081356	1.08E-05
ENSG00000127445	PIN1	1001.63393	-0.226200672	1.08E-05
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ENSG00000279344		50.27788367	-0.538836665	1.10E-05
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ENSG00000141556	TBCD	3999.956596	0.713474096	1.11E-05
ENSG00000243323	PTPRVP	45.99619621	-0.719870579	1.11E-05
ENSG00000126464	PRR12	1912.667098	-0.34036914	1.11E-05
ENSG00000067798	NAV3	69.25626693	1.495717948	1.12E-05
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ENSG00000207320		20.74937501	0.813069729	1.12E-05
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ENSG00000172113	NME6	533.4626788	0.241479297	1.13E-05
ENSG00000078018	MAP2	15.10103314	-1.019531432	1.13E-05
ENSG00000073605	GSDMB	1147.955879	-0.324136162	1.14E-05
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ENSG00000272908		204.4042754	0.70369736	1.16E-05
ENSG00000269275		13.85015352	0.99486028	1.16E-05
ENSG00000272221		98.74618421	-0.427338903	1.16E-05
ENSG00000182973	CNOT10	914.44822	-0.155133262	1.17E-05
ENSG00000133805	AMPD3	4409.954802	0.94928945	1.17E-05
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ENSG00000204186	ZDBF2	724.0321361	0.384186366	1.17E-05
ENSG00000085415	SEH1L	753.2552144	0.386475823	1.18E-05
ENSG00000143315	PIGM	389.8372457	0.378586031	1.18E-05
ENSG00000119514	GALNT12	152.7841892	-0.479184063	1.19E-05
ENSG00000010219	DYRK4	179.3533362	0.390100871	1.19E-05
ENSG00000147408	CSGALNACT1	2118.689299	0.435787528	1.19E-05
ENSG00000252549	RNU6-759P	54.71807962	0.873425534	1.19E-05
ENSG00000129351	ILF3	7439.538113	0.173924557	1.19E-05
ENSG00000108848	LUC7L3	4129.434476	-0.26723126	1.19E-05
ENSG00000133106	EPSTI1	2612.652032	0.923498531	1.20E-05
ENSG00000230492		6.076748913	-2.108848811	1.20E-05
ENSG00000230457	PA2G4P4	129.0935643	0.591552238	1.21E-05
ENSG00000148219	ASTN2	88.61189275	-0.450060776	1.21E-05
ENSG00000283045		64.02869402	-0.639722545	1.22E-05
ENSG00000182318	ZSCAN22	248.5099578	0.716679328	1.22E-05
ENSG00000256229	ZNF486	278.4832593	-0.416848057	1.22E-05
ENSG00000133687	TMTC1	84.01794885	-1.106394456	1.22E-05
ENSG00000146830	GIGYF1	3464.592836	-0.214753518	1.22E-05
ENSG00000146067	FAM193B	3008.276668	-0.221025123	1.22E-05
ENSG00000131797	CLUHP3	1564.024434	-0.524654766	1.23E-05
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ENSG00000214456	PLIN5	442.5801764	-0.971484298	1.26E-05
ENSG00000259318	HMG1N1P	48.94054917	-0.58354889	1.27E-05
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ENSG00000264635		24.21238665	-0.82040435	1.27E-05
ENSG00000103202	NME4	318.7445284	-0.465548737	1.28E-05
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ENSG00000065621	GSTO2	97.73580463	0.439145978	1.28E-05
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ENSG00000172650	AGAP5	36.74459804	0.782698387	1.31E-05
ENSG00000242525	OR7E100P	45.24258815	1.297406191	1.31E-05
ENSG00000279962		19.18372178	0.783804978	1.31E-05
ENSG00000265195	MIR4312	125.1149232	0.608789599	1.31E-05
ENSG00000196139	AKR1C3	116.185059	-0.588111209	1.32E-05
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ENSG00000226849		68.95342876	0.560293886	1.33E-05
ENSG00000111224	PARP11	1028.117339	0.360749769	1.34E-05
ENSG00000235532	LINC00402	356.192049	-0.662180857	1.35E-05
ENSG00000250820		29.69541719	-0.690304268	1.35E-05
ENSG00000279086		54.31838221	-0.573118955	1.35E-05
ENSG00000136404	TM6SF1	568.7302819	-0.794162666	1.36E-05
ENSG00000260693		16.3081462	-1.101119965	1.36E-05
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ENSG00000242170	RN7SL329P	25.6040434	0.79927895	1.37E-05
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ENSG00000267546		72.41975199	0.688894695	1.38E-05
ENSG00000134815	DHX34	2084.903121	-0.346999755	1.40E-05
ENSG00000203684	IBA57-DT	35.24968858	0.526865681	1.40E-05
ENSG00000233785		32.28961485	1.030875469	1.40E-05
ENSG00000106733	NMRK1	1239.534917	0.26032257	1.41E-05

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ENSG00000147684	NDUFB9	869.1437129	-0.257511114	1.42E-05
ENSG00000162377	COA7	226.4371202	0.94711507	1.42E-05
ENSG00000136371	MTHFS	235.1474093	0.687093996	1.43E-05
ENSG00000055070	SZRD1	3143.178813	-0.218711012	1.44E-05
ENSG00000146094	DOK3	3449.795985	-0.591155523	1.44E-05
ENSG00000149418	ST14	952.060625	-0.76038008	1.45E-05
ENSG00000236453		36.564583	2.599317813	1.45E-05
ENSG00000155636	RBM45	377.9093466	0.298525639	1.45E-05
ENSG00000163565	IFI16	5432.339835	0.44700765	1.45E-05
ENSG00000178409	BEND3	114.4798674	0.783316093	1.46E-05
ENSG00000178802	MPI	781.9072558	0.223757071	1.46E-05
ENSG00000136247	ZDHHC4	400.4974391	0.224985886	1.46E-05
ENSG00000150456	EEF1AKMT1	80.59237393	0.401537642	1.46E-05
ENSG00000128989	ARPP19	2962.507341	-0.235163742	1.47E-05
ENSG00000279632		99.63005199	-0.513146806	1.47E-05
ENSG00000108950	FAM20A	163.23293	1.029006246	1.47E-05
ENSG00000141562	NARF	1825.247222	-0.494049295	1.48E-05
ENSG00000196345	ZKSCAN7	151.727487	0.368952537	1.48E-05
ENSG00000226644		17.91939068	1.374948614	1.49E-05
ENSG00000161057	PSMC2	1215.782517	0.324196159	1.49E-05
ENSG00000198707	CEP290	800.2174167	0.276814516	1.49E-05
ENSG00000235262	KDM5C-IT1	23.34438649	-0.74784094	1.50E-05
ENSG00000183283	DAZAP2	7951.403317	-0.313855421	1.50E-05
ENSG00000160803	UBQLN4	908.9927336	0.411536372	1.50E-05
ENSG00000178381	ZFAND2A	615.8984866	-0.530588458	1.50E-05
ENSG00000085978	ATG16L1	1712.287614	-0.166151648	1.51E-05
ENSG00000267296	CEBPA-DT	13.57396676	-1.416009633	1.51E-05
ENSG00000141002	TCF25	3614.936132	-0.234083431	1.52E-05
ENSG00000257176		140.2971319	-0.492654126	1.52E-05
ENSG00000041988	THAP3	369.9210397	0.422685293	1.52E-05
ENSG00000079337	RAPGEF3	33.20289267	-1.036948109	1.52E-05
ENSG00000129521	EGLN3	59.44492917	-0.702478818	1.53E-05
ENSG00000093217	XYLB	64.55069166	-0.472131799	1.53E-05
ENSG00000232677	LINC00665	128.3039804	0.320561089	1.53E-05
ENSG00000258458	OXA1L-DT	19.58592973	1.031039932	1.54E-05
ENSG00000184719	RNLS	45.40287061	-0.742716169	1.54E-05
ENSG00000055955	ITIH4	48.9603495	-0.762497615	1.55E-05
ENSG00000126883	NUP214	2668.832098	-0.227103978	1.55E-05
ENSG00000081386	ZNF510	917.3568583	0.261219036	1.55E-05
ENSG00000135046	ANXA1	6894.959225	-0.46917891	1.55E-05
ENSG00000278250		16.11370109	1.211398356	1.55E-05
ENSG00000183569	SERHL2	10.63627928	-1.287690275	1.56E-05
ENSG00000137040	RANBP6	1201.04678	-0.391824478	1.56E-05
ENSG00000197323	TRIM33	3229.156987	-0.220958945	1.56E-05
ENSG00000069493	CLEC2D	7489.047454	0.318550566	1.56E-05
ENSG00000177830	CHID1	778.7414589	0.242378748	1.57E-05
ENSG00000239040		41.97634959	0.660758216	1.58E-05
ENSG00000112039	FANCE	220.7900241	0.34236447	1.58E-05

ENSG00000109944	JHY	104.6921339	-0.37038667	1.58E-05
ENSG00000152234	ATP5F1A	4005.95018	-0.212443579	1.59E-05
ENSG00000172244	C5orf34	77.81503324	0.63906292	1.59E-05
ENSG00000177868	SVBP	217.727414	-0.51976393	1.59E-05
ENSG00000005379	TSPOAP1	1636.837089	-0.430963721	1.59E-05
ENSG00000196466	ZNF799	209.5731463	0.355872039	1.59E-05
ENSG00000275210		146.2927582	-1.117635252	1.59E-05
ENSG00000198169	ZNF251	431.3749874	-0.273584458	1.60E-05
ENSG00000157303	SUSD3	665.5300994	-0.311803552	1.60E-05
ENSG00000059588	TARBP1	1046.177416	-0.437300186	1.60E-05
ENSG00000276141	WHAMMP3	309.2563332	-0.369072154	1.60E-05
ENSG00000167985	SDHAF2	591.0408801	0.215158815	1.60E-05
ENSG00000147601	TERF1	798.3399378	-0.263977997	1.61E-05
ENSG00000074842	MYDGF	820.7416423	0.388887328	1.62E-05
ENSG00000234771	SLC25A25-AS1	544.7911803	-0.36088925	1.63E-05
ENSG00000108010	GLRX3	1079.949874	0.32611539	1.63E-05
ENSG00000163093	BBS5	51.28781036	0.604454293	1.64E-05
ENSG00000140474	ULK3	871.5299487	-0.273988334	1.65E-05
ENSG00000133739	LRRCC1	174.8153313	0.413493203	1.66E-05
ENSG00000247572	CKMT2-AS1	146.1321494	0.332426931	1.66E-05
ENSG00000269653		39.96604108	-0.595261961	1.66E-05
ENSG00000105737	GRIK5	17.90654185	-0.927746057	1.67E-05
ENSG00000273345		69.38206996	-0.557114402	1.67E-05
ENSG00000187536	TPM3P7	31.59965018	1.132770851	1.67E-05
ENSG00000282780	TRBJ1-6	229.4835907	0.743851627	1.67E-05
ENSG00000171747	LGALS4	54.7189247	-0.485408125	1.68E-05
ENSG00000134532	SOX5	47.98093646	-1.340057005	1.68E-05
ENSG00000179241	LDLRAD3	145.570535	0.891483196	1.68E-05
ENSG00000152939	MARVELD2	21.51301417	0.712951266	1.68E-05
ENSG00000167641	PPP1R14A	18.8540908	-1.135416714	1.68E-05
ENSG00000167280	ENGASE	2195.809633	-0.33442394	1.69E-05
ENSG00000188822	CNR2	334.4888712	-0.516505819	1.69E-05
ENSG00000120053	GOT1	199.9127825	0.386768804	1.70E-05
ENSG00000258944		173.4380277	-0.479959895	1.70E-05
ENSG00000240857	RDH14	289.762447	0.322174197	1.70E-05
ENSG00000254418	SPON1-AS1	24.37930295	-0.850440394	1.71E-05
ENSG00000240233	RN7SL587P	40.3838892	-0.688536243	1.71E-05
ENSG00000129538	RNASE1	649.1515953	-2.48267546	1.71E-05
ENSG00000111361	EIF2B1	841.1130674	-0.201406783	1.71E-05
ENSG00000225614	ZNF469	397.4626971	0.431868703	1.72E-05
ENSG00000080823	MOK	42.23326108	-0.626195907	1.72E-05
ENSG00000263307	RSL1D1-DT	46.2521798	0.525832117	1.72E-05
ENSG00000138459	SLC35A5	678.4830207	0.300177415	1.72E-05
ENSG00000149633	KIAA1755	13.63679736	2.037995891	1.72E-05
ENSG00000101365	IDH3B	877.2536128	-0.247489547	1.72E-05
ENSG00000117394	SLC2A1	1254.054928	-0.354714292	1.72E-05
ENSG00000268205		744.4163829	0.25686501	1.72E-05
ENSG00000111540	RAB5B	3025.422948	-0.217686862	1.73E-05
ENSG00000119906	SLF2	1559.620525	0.196561404	1.73E-05
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ENSG00000274104		31.29388486	-1.060641563	1.75E-05

ENSG00000185129	PURA	2124.462839	0.263868172	1.75E-05
ENSG00000279670		52.46283159	-0.661997707	1.75E-05
ENSG00000266146	MIR5190	14.83610208	1.145589865	1.76E-05
ENSG00000261064	LINC02256	57.09092949	-0.718808684	1.76E-05
ENSG00000198642	KLHL9	1631.789337	0.328971404	1.76E-05
ENSG00000065320	NTN1	22.54078637	1.196298338	1.76E-05
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ENSG00000164406	LEAP2	80.92622405	0.543215974	1.81E-05
ENSG00000160408	ST6GALNAC6	3880.865534	0.579893653	1.81E-05
ENSG00000169062	UPF3A	900.0870208	-0.180249409	1.81E-05
ENSG00000106351	AGFG2	689.9093143	-0.203561681	1.82E-05
ENSG00000197363	ZNF517	302.6007197	0.247276416	1.82E-05
ENSG00000266957		22.31300519	-0.765548796	1.82E-05
ENSG00000107611	CUBN	569.2881333	-0.395927855	1.82E-05
ENSG00000064545	TMEM161A	286.5093979	0.29276681	1.83E-05
ENSG00000204248	COL11A2	47.33857414	-0.688937492	1.83E-05
ENSG00000205683	DPF3	37.04690831	-0.821452221	1.83E-05
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ENSG00000212283	SNORD89	24.68839386	-0.784154971	1.85E-05
ENSG00000159363	ATP13A2	1163.577051	0.335233942	1.86E-05
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ENSG00000198832	SELENOM	222.7089955	-0.583540918	1.87E-05
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ENSG00000196735	HLA-DQA1	1641.114118	0.421757899	1.89E-05
ENSG00000103495	MAZ	3465.993726	-0.200937942	1.91E-05
ENSG00000035115	SH3YL1	1179.332589	0.21020701	1.91E-05
ENSG00000234506	LINC01506	99.01988828	-0.998596103	1.91E-05
ENSG00000251988	RNU4ATAC18P	28.16959785	0.755016795	1.92E-05
ENSG00000180008	SOCS4	1229.40826	0.298857333	1.93E-05
ENSG00000225855	RUSC1-AS1	200.136396	0.552986118	1.94E-05
ENSG00000100142	POLR2F	15.84741416	-1.025161169	1.96E-05
ENSG00000153130	SCOC	518.1748979	0.294851338	1.96E-05
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ENSG00000167770	OTUB1	1345.876368	-0.221535065	1.97E-05
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ENSG00000122224	LY9	1874.230511	-0.292196053	1.98E-05
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ENSG00000010319	SEMA3G	19.57916849	-1.498121743	2.00E-05
ENSG00000100281	HMGXB4	735.1453579	0.174089209	2.01E-05
ENSG00000156599	ZDHHC5	2912.759911	0.325633324	2.02E-05
ENSG00000172057	ORMDL3	2056.997744	-0.361630944	2.02E-05
ENSG00000139197	PEX5	583.4971916	0.246370854	2.02E-05
ENSG00000140009	ESR2	116.0679779	1.215283388	2.03E-05
ENSG00000146676	PURB	3449.912631	0.226278288	2.03E-05
ENSG00000108784	NAGLU	453.6191833	-0.377729827	2.03E-05
ENSG00000166025	AMOTL1	61.8854542	-0.544879245	2.03E-05
ENSG00000147044	CASK	1277.812615	-0.20797029	2.04E-05
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ENSG00000272256		211.3199755	-0.666081283	2.04E-05
ENSG00000152582	SPEF2	365.8083325	-0.283511018	2.05E-05
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ENSG00000136143	SUCLA2	499.6668346	0.225071913	2.05E-05
ENSG00000266770	RN7SL619P	10.4312954	1.870965931	2.06E-05
ENSG00000113761	ZNF346	547.3160292	-0.246692128	2.06E-05
ENSG00000278467		134.4376796	-0.342151233	2.06E-05
ENSG00000038382	TRIO	2628.550041	0.450726011	2.08E-05
ENSG00000250479	CHCHD10	248.87585	-0.527871804	2.09E-05
ENSG00000108349	CASC3	3306.03186	-0.24519616	2.09E-05
ENSG00000146555	SDK1	83.72631411	0.892041028	2.12E-05
ENSG00000270154		18.74179431	-0.93960657	2.12E-05
ENSG00000261026		469.4824303	1.302348268	2.14E-05
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ENSG00000212542	RNA5SP496	18.57821999	-0.895609396	2.18E-05
ENSG00000031823	RANBP3	2194.126196	-0.14891847	2.19E-05
ENSG00000134278	SPIRE1	210.661656	0.604639961	2.19E-05
ENSG00000109771	LRP2BP	57.83972249	-0.714083979	2.20E-05
ENSG00000134490	TMEM241	96.30613797	-0.598196175	2.20E-05
ENSG00000140455	USP3	4957.485011	-0.241124491	2.20E-05
ENSG00000171503	ETFDH	402.8802922	-0.244849368	2.21E-05
ENSG00000105254	TBCB	832.1043469	-0.481520975	2.22E-05
ENSG00000198046	ZNF667	61.70688371	0.474104343	2.23E-05
ENSG00000050165	DKK3	215.7048703	1.160777555	2.23E-05

ENSG00000110031	LPXN	2731.871239	0.542005612	2.23E-05
ENSG00000267246		57.33817983	-0.530344713	2.24E-05
ENSG00000257818	C1GALT1P1	47.92035583	0.503082913	2.24E-05
ENSG00000204991	SPIRE2	129.9774214	1.007397805	2.24E-05
ENSG00000151092	NGLY1	1358.200928	-0.195341688	2.25E-05
ENSG00000154380	ENAH	12.55760735	-1.152972363	2.26E-05
ENSG00000167220	HDHD2	382.9664761	0.220770664	2.26E-05
ENSG00000095303	PTGS1	690.8926545	-0.686808708	2.26E-05
ENSG00000159079	CFAP298	237.9524036	0.344580193	2.26E-05
ENSG00000257497	GLIPR1-AS1	70.79957648	-0.515915122	2.27E-05
ENSG00000205531	NAP1L4	5439.661597	-0.179800934	2.27E-05
ENSG00000143337	TOR1AIP1	2309.481274	-0.22742372	2.27E-05
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ENSG00000125686	MED1	1785.1652	0.293671301	2.28E-05
ENSG00000141644	MBD1	2491.736135	0.195203529	2.29E-05
ENSG00000215845	TSTD1	414.0161467	-0.296194564	2.29E-05
ENSG00000172578	KLHL6	3450.666729	0.459899239	2.29E-05
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ENSG00000255455		390.475103	-0.276962673	2.30E-05
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ENSG00000145780	FEM1C	1401.922993	-0.304347074	2.31E-05
ENSG00000169499	PLEKHA2	6409.66335	0.435342002	2.32E-05
ENSG00000004478	FKBP4	1391.452722	0.819509374	2.33E-05
ENSG00000226091	LINC00937	800.2696095	1.037184392	2.34E-05
ENSG00000211777	TRAV3	54.41700451	-0.494410312	2.34E-05
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ENSG00000162923	WDR26	6428.649295	-0.314611138	2.34E-05
ENSG00000225938	S1PR1-DT	136.7282103	0.813247771	2.35E-05
ENSG00000182551	ADI1	594.3035536	-0.454483678	2.35E-05
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ENSG00000056586	RC3H2	3083.959139	0.222456575	2.35E-05
ENSG00000257815	PRANCR	189.7434063	-0.369196425	2.36E-05
ENSG00000234540		10.18216955	1.367355928	2.36E-05
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ENSG00000132434	LANCL2	246.033272	-0.409898177	2.37E-05
ENSG00000135838	NPL	2774.296377	0.645784691	2.37E-05
ENSG00000242588		384.6477053	-0.297426586	2.38E-05
ENSG00000160584	SIK3	4299.744732	0.345138938	2.38E-05
ENSG00000170270	GON7	168.9515594	0.43374414	2.40E-05
ENSG00000103044	HAS3	66.21537208	-0.698206024	2.40E-05
ENSG00000165275	TRMT10B	372.2045283	0.281398649	2.41E-05
ENSG00000103018	CYB5B	859.2652823	0.233277075	2.41E-05
ENSG00000266750	MIR4645	19.26372268	0.947920898	2.41E-05
ENSG00000239557	PPP2R5CP	25.9313029	-0.751704908	2.41E-05
ENSG00000108651	UTP6	1059.990774	0.325805551	2.41E-05
ENSG00000279789		254.7200733	0.539842157	2.42E-05
ENSG00000181409	AATK	2999.125387	0.789826385	2.42E-05

ENSG00000207181	SNORA14B	29.59893572	-0.687422739	2.42E-05
ENSG00000122958	VPS26A	1196.344632	0.311563923	2.43E-05
ENSG00000087086	FTL	59691.80032	0.571008278	2.43E-05
ENSG00000277476		481.7876745	-0.259108757	2.43E-05
ENSG00000276633		15.47193297	1.068050794	2.44E-05
ENSG00000092203	TOX4	2399.647179	-0.205497585	2.44E-05
ENSG00000182993	C12orf60	29.53611143	0.652365951	2.44E-05
ENSG00000280122		89.20153064	1.007301241	2.45E-05
ENSG00000070423	RNF126	1284.7316	-0.401865527	2.45E-05
ENSG00000182378	PLCXD1	470.6305922	-0.34491221	2.45E-05
ENSG00000204677	FAM153CP	63.61559224	-0.584396337	2.45E-05
ENSG00000133835	HSD17B4	1481.718406	0.334357718	2.45E-05
ENSG00000263465	SRSF8	1399.732613	-0.236585549	2.46E-05
ENSG00000272140		81.21046084	0.443824978	2.46E-05
ENSG00000119431	HDHD3	357.0967891	0.28364682	2.46E-05
ENSG00000139651	ZNF740	2095.017513	0.191130217	2.46E-05
ENSG00000267178	PHF5CP	34.99810179	0.67279549	2.47E-05
ENSG00000162413	KLHL21	3590.58711	0.394400349	2.47E-05
ENSG00000136167	LCP1	40844.43291	0.412279281	2.48E-05
ENSG00000179915	NRXN1	24.51454046	-1.110588581	2.48E-05
ENSG00000198887	SMC5	1988.493593	-0.183929638	2.49E-05
ENSG00000232031		30.46407844	-0.929700537	2.50E-05
ENSG00000112486	CCR6	91.32435738	0.539713436	2.50E-05
ENSG00000234616	JRK	1716.778696	0.214039325	2.50E-05
ENSG00000183604	SMG1P5	824.0624779	-0.229825403	2.50E-05
ENSG00000034053	APBA2	2741.467808	0.342678673	2.50E-05
ENSG00000161653	NAGS	44.58806439	-0.55214041	2.50E-05
ENSG00000267221	C17orf113	34.22072565	-0.727889291	2.51E-05
ENSG00000105058	FAM32A	1117.348998	-0.204560495	2.51E-05
ENSG00000198960	ARMCX6	283.1286846	0.314436717	2.51E-05
ENSG00000240303	ACAD11	158.6206541	-0.388446892	2.52E-05
ENSG00000013364	MVP	4775.603788	-0.480376612	2.52E-05
ENSG00000118496	FBXO30	1011.160315	0.453509487	2.52E-05
ENSG00000279691		56.34064377	0.630335908	2.52E-05
ENSG00000119383	PTPA	1464.588459	-0.277489411	2.53E-05
ENSG00000161533	ACOX1	1930.424984	-0.481212302	2.53E-05
ENSG00000244346		82.81195466	-0.434735125	2.53E-05
ENSG00000162714	ZNF496	1297.344231	0.369172615	2.54E-05
ENSG00000143155	TIPRL	738.0672176	0.255021771	2.54E-05
ENSG00000213809	KLRK1	305.951077	0.664736492	2.55E-05
ENSG00000087076	HSD17B14	41.46079472	1.034457153	2.55E-05
ENSG00000165695	AK8	11.47368946	-1.414418199	2.55E-05
ENSG00000075239	ACAT1	308.3009838	-0.346527472	2.55E-05
ENSG00000275180		67.25077736	0.623098343	2.56E-05
ENSG00000223776	LGALS8-AS1	19.49976537	0.719278253	2.57E-05
ENSG00000134717	BTF3L4	1265.792917	0.252913776	2.57E-05
ENSG00000196550	FAM72A	34.64228327	-0.828654879	2.58E-05
ENSG00000100056	ESS2	572.8015351	-0.223771657	2.59E-05
ENSG00000101152	DNAJC5	4734.076149	0.430206257	2.59E-05
ENSG00000136758	YME1L1	4153.989424	0.139061362	2.59E-05
ENSG00000237036	ZEB1-AS1	176.967323	0.371383326	2.60E-05

ENSG00000261360	OTULIN-DT	51.01549782	0.811307603	2.60E-05
ENSG00000229689		61.93457013	1.444978198	2.61E-05
ENSG00000165660	ABRAXAS2	514.123259	0.226387929	2.61E-05
ENSG00000271816		47.47873574	0.704272206	2.61E-05
ENSG00000077684	JADE1	1911.755735	-0.279860787	2.62E-05
ENSG00000137409	MTCH1	4270.587855	-0.250580727	2.62E-05
ENSG00000144848	ATG3	2206.25106	0.368817004	2.62E-05
ENSG00000125657	TNFSF9	120.0495774	0.853166278	2.62E-05
ENSG00000243566	UPK3B	119.0072155	-0.592519002	2.62E-05
ENSG00000143224	PPOX	392.3601139	-0.301302251	2.63E-05
ENSG00000049246	PER3	197.9328933	-0.707370919	2.63E-05
ENSG00000276376		51.32687583	0.972810445	2.64E-05
ENSG00000279742		47.20440238	0.868610168	2.64E-05
ENSG00000268262		34.12285535	-0.639884091	2.66E-05
ENSG00000006015	REX1BD	757.3431952	-0.407415813	2.67E-05
ENSG00000175416	CLTB	1038.821673	-0.261443241	2.67E-05
ENSG00000152492	CCDC50	1114.202078	-0.315361925	2.68E-05
ENSG00000117691	NENF	234.6859981	0.325825047	2.68E-05
ENSG00000277715		43.86699544	0.558781318	2.68E-05
ENSG00000165092	ALDH1A1	117.81182	-1.386559213	2.69E-05
ENSG00000227766		33.817717	0.781990086	2.69E-05
ENSG00000064601	CTSA	2994.355398	0.460211076	2.70E-05
ENSG00000258461		91.3820236	-0.583895917	2.70E-05
ENSG00000172922	RNASEH2C	1064.624313	0.285835294	2.71E-05
ENSG00000248810	LINC02432	79.74225691	0.693923449	2.73E-05
ENSG00000250057		39.82612687	1.12603371	2.73E-05
ENSG00000152904	GGPS1	678.8275631	0.280578723	2.73E-05
ENSG00000240449	REPIN1-AS1	17.96025532	0.719957288	2.73E-05
ENSG00000221025	MIR1250	45.4224069	0.962185361	2.74E-05
ENSG00000100425	BRD1	3010.376744	-0.205909362	2.76E-05
ENSG00000226117		20.83116473	0.751194358	2.76E-05
ENSG00000237989	LINC01679	61.61117443	0.626695108	2.77E-05
ENSG00000125354	SEPTIN6	5441.669395	-0.174800834	2.78E-05
ENSG00000260774		93.64240621	0.427960893	2.78E-05
ENSG00000121653	MAPK8IP1	35.72032763	-0.69805901	2.80E-05
ENSG00000137501	SYTL2	2428.040348	0.386204383	2.80E-05
ENSG00000188981	MSANTD1	95.23974349	-0.429138627	2.80E-05
ENSG00000172965	MIR4435-2HG	762.2048768	-0.445689337	2.82E-05
ENSG00000272367		296.8209298	0.434992321	2.82E-05
ENSG00000233010	RPEP4	29.56569922	-0.636008477	2.83E-05
ENSG00000152684	PELO	371.6032054	0.525949771	2.84E-05
ENSG00000259895	TEDC2-AS1	24.58420558	0.985970568	2.85E-05
ENSG00000163817	SLC6A20	9.468102522	-1.429121532	2.85E-05
ENSG00000111859	NEDD9	4613.85898	0.573847058	2.86E-05
ENSG00000256588		79.00911694	-0.591223057	2.87E-05
ENSG00000254910		75.18662256	-0.658144004	2.87E-05
ENSG00000152242	C18orf25	2102.480379	-0.349355546	2.89E-05
ENSG00000252391	RNU6-638P	173.6677654	-0.483337921	2.89E-05
ENSG00000171241	SHCBP1	49.16839988	-0.80237953	2.89E-05
ENSG00000187554	TLR5	216.7353764	-1.066397209	2.91E-05
ENSG00000162419	GMEB1	801.0072047	0.262188151	2.91E-05

ENSG00000266208	GJD3-AS1	29.4004119	-0.960214736	2.92E-05
ENSG00000085719	CPNE3	1441.16319	-0.355929324	2.94E-05
ENSG00000235092	ID2-AS1	16.28422548	-1.085399612	2.96E-05
ENSG00000163644	PPM1K	2797.851098	0.42018451	2.96E-05
ENSG00000170448	NFXL1	675.1072576	-0.513225339	2.97E-05
ENSG00000131508	UBE2D2	1933.751007	-0.141975852	2.97E-05
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ENSG00000257800	FNBP1P1	129.9668036	-0.596598318	2.97E-05
ENSG00000103051	COG4	1134.780639	-0.179993815	2.98E-05
ENSG00000121989	ACVR2A	591.293489	0.66933129	2.98E-05
ENSG00000168404	MLKL	1378.432614	-0.401832646	2.99E-05
ENSG00000138434	ITPRID2	2705.173506	-0.311003133	2.99E-05
ENSG00000198380	GFPT1	1202.961856	0.286025306	2.99E-05
ENSG00000149357	LAMTOR1	1378.727224	-0.265150083	3.00E-05
ENSG00000103154	NECAB2	55.10826998	-1.290326377	3.00E-05
ENSG00000260810		22.82100421	-0.844237167	3.00E-05
ENSG00000118971	CCND2	5224.582791	0.330044286	3.01E-05
ENSG00000141542	RAB40B	45.7081256	-0.740563336	3.02E-05
ENSG00000198862	LTN1	2134.351388	0.23320468	3.03E-05
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ENSG00000164961	WASHC5	1500.087295	0.288010664	3.05E-05
ENSG00000163138	PACRGL	247.5985115	0.293643546	3.05E-05
ENSG00000138741	TRPC3	34.3118814	1.13624375	3.05E-05
ENSG00000228010		23.93615981	0.807036591	3.06E-05
ENSG00000277634		35.9827318	-0.675683164	3.06E-05
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ENSG00000124613	ZNF391	64.02069103	0.422453041	3.08E-05
ENSG00000116711	PLA2G4A	144.2871236	-0.582999317	3.08E-05
ENSG00000175087	PDIK1L	465.2565532	0.265156614	3.08E-05
ENSG00000228801	PCMTD1-DT	104.8338377	-0.514814508	3.10E-05
ENSG00000282977	PCBP2-OT1	57.94671862	-0.530602355	3.11E-05
ENSG00000157796	WDR19	579.6311393	0.248378114	3.11E-05
ENSG00000120253	NUP43	1077.376798	0.230412814	3.11E-05
ENSG00000111142	METAP2	837.8606154	0.275469482	3.12E-05
ENSG00000082258	CCNT2	3338.051406	0.22981866	3.12E-05
ENSG00000121406	ZNF549	600.0907101	0.222423378	3.12E-05
ENSG00000124882	EREG	2413.132231	1.69430868	3.12E-05
ENSG00000214078	CPNE1	2964.762987	-0.156436367	3.13E-05
ENSG00000113520	IL4	28.330799	1.01878383	3.14E-05
ENSG00000049089	COL9A2	346.3625475	-0.716567908	3.15E-05
ENSG00000182162	P2RY8	4522.955466	-0.226699304	3.17E-05
ENSG00000132963	POMP	919.7901561	0.379285093	3.17E-05
ENSG00000091073	DTX2	1370.465299	0.437071853	3.18E-05
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ENSG00000172260	NEGR1	12.52532639	-1.343290442	3.18E-05
ENSG00000260796		53.96801034	0.50978092	3.19E-05
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ENSG00000143870	PDIA6	2700.061951	0.440180469	3.22E-05
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ENSG00000148290	SURF1	660.6730432	-0.257257022	3.23E-05
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ENSG00000161921	CXCL16	4011.194037	0.724686981	3.23E-05
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ENSG00000117395	EBNA1BP2	430.0996029	0.601122104	3.26E-05
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ENSG00000267197		27.81405502	0.61594438	3.26E-05
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ENSG00000135537	AFG1L	171.8030165	0.299965571	3.27E-05
ENSG00000132549	VPS13B	5740.284699	-0.22918713	3.27E-05
ENSG00000118620	ZNF430	820.7339715	-0.182581374	3.29E-05
ENSG00000181350	LRRC75A	384.9873539	-0.907166077	3.29E-05
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ENSG00000225190	PLEKHM1	3357.486265	-0.261471863	3.56E-05
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ENSG00000243661	WBP1LP1	41.41076334	0.849318285	3.74E-05
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ENSG00000163121	NEURL3	50.30764074	1.503769122	3.96E-05
ENSG00000275092		75.63571789	-0.406843033	3.96E-05
ENSG00000125869	LAMP5	22.78143536	-1.0492047	3.97E-05
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ENSG00000198815	FOXJ3	1979.614634	-0.163917321	4.09E-05
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ENSG00000112245	PTP4A1	2732.334494	-0.375602636	4.13E-05
ENSG00000272953		46.51388735	-1.021779731	4.13E-05
ENSG00000173581	CCDC106	76.42685448	-0.613241191	4.16E-05
ENSG00000273424		46.44279742	1.221860536	4.17E-05
ENSG00000237280		26.55463303	-0.805658693	4.17E-05
ENSG00000180938	ZNF572	113.3434962	0.441720821	4.17E-05
ENSG00000175040	CHST2	1268.101808	0.382640693	4.19E-05
ENSG00000261662		96.70085265	-0.510661738	4.19E-05
ENSG00000258472		122.5431274	-0.450615356	4.19E-05
ENSG00000132965	ALOX5AP	5971.68232	1.026216068	4.19E-05
ENSG00000150401	DCUN1D2	442.9697822	-0.193852003	4.20E-05
ENSG00000143119	CD53	15561.11625	0.411182017	4.21E-05
ENSG00000265354	TIMM23	591.9365884	0.270904217	4.21E-05
ENSG00000255435	TTC36-AS1	17.99300888	0.687943898	4.22E-05
ENSG00000272374		142.5169043	0.54297875	4.22E-05
ENSG00000170445	HARS1	1048.108185	0.192220305	4.22E-05
ENSG00000152778	IFIT5	2574.327187	0.752581322	4.23E-05
ENSG00000259687	LINC01220	50.98678141	-0.900534144	4.23E-05
ENSG00000130635	COL5A1	37.59186157	-0.827787177	4.23E-05
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ENSG00000007866	TEAD3	13.5225343	1.095517639	4.24E-05
ENSG00000273802	H2BC8	224.8932375	-0.602245613	4.25E-05
ENSG00000103227	LMF1	753.8956506	-0.328894531	4.25E-05
ENSG00000152348	ATG10	204.9938795	-0.302407946	4.26E-05
ENSG00000185825	BCAP31	2026.810992	-0.292854545	4.26E-05
ENSG00000279495		111.5164211	0.411801756	4.27E-05
ENSG00000260861		13.95696205	-1.301946932	4.31E-05
ENSG00000160439	RDH13	291.2156019	-0.262514345	4.34E-05
ENSG00000230769		21.45290568	0.751199318	4.34E-05
ENSG00000163882	POLR2H	476.5404211	0.26994015	4.35E-05
ENSG00000197405	C5AR1	6921.454551	-0.593144093	4.37E-05
ENSG00000258623		31.57786285	0.785408443	4.37E-05
ENSG00000069849	ATP1B3	1367.890944	0.550159779	4.38E-05
ENSG00000276744		85.00707567	-0.451867256	4.39E-05
ENSG00000170113	NIPA1	557.8909086	0.221392145	4.39E-05
ENSG00000060982	BCAT1	1773.631651	1.437327092	4.40E-05
ENSG00000124103	FAM209A	106.599931	0.382476493	4.40E-05
ENSG00000115966	ATF2	2134.058371	0.18558348	4.40E-05
ENSG00000221823	PPP3R1	2108.870162	-0.388071346	4.40E-05
ENSG00000108700	CCL8	176.8270848	2.761576088	4.43E-05
ENSG00000225528		202.7142219	-0.339647194	4.44E-05
ENSG00000136003	ISCU	2060.536391	-0.277435468	4.44E-05
ENSG00000260475	SLC25A28-DT	30.92433346	0.581753308	4.45E-05
ENSG00000198682	PAPSS2	305.5151144	0.768262697	4.45E-05
ENSG00000075292	ZNF638	5998.799075	0.253438095	4.46E-05
ENSG00000137877	SPTBN5	392.8812018	0.998511488	4.46E-05
ENSG00000118307	DNAI7	16.23278822	0.79015658	4.47E-05
ENSG00000169635	HIC2	632.4476191	-0.281914779	4.48E-05
ENSG00000072694	FCGR2B	458.7382115	-0.601671057	4.48E-05
ENSG00000242259	C22orf39	725.5396708	-0.193282246	4.48E-05
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ENSG00000249138		454.8595361	1.007755045	4.50E-05
ENSG00000283683	MYOCOS	18.32580971	0.83525658	4.50E-05
ENSG00000276523		18.75513283	0.785144022	4.52E-05
ENSG00000230732		141.8251158	-0.39088209	4.55E-05
ENSG00000214753	HNRNPUL2	793.9676959	-0.187230152	4.58E-05
ENSG00000272181		23.80710173	-0.788387792	4.58E-05
ENSG00000005483	KMT2E	7179.952475	0.259656132	4.59E-05
ENSG00000159592	GPBP1L1	4060.837346	-0.12623718	4.59E-05
ENSG00000135390	ATP5MC2	1618.103832	-0.288550776	4.60E-05
ENSG00000161395	PGAP3	493.4648256	-0.344061499	4.60E-05
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ENSG00000258824		72.21833001	-0.415197252	4.64E-05
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ENSG00000165792	METTL17	723.7170275	-0.228674647	4.77E-05
ENSG00000116604	MEF2D	4416.684011	-0.258085964	4.77E-05
ENSG00000146242	TPBG	17.33835782	-0.974393774	4.79E-05
ENSG00000276644	DACH1	111.7347625	-0.55407497	4.79E-05
ENSG00000199872	RNU6-942P	52.33856954	0.681343845	4.79E-05
ENSG00000169217	CD2BP2	1842.29273	0.211366921	4.81E-05
ENSG00000259071		16.3970896	-0.734488576	4.81E-05
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ENSG00000255669		43.47501496	-0.617781853	4.89E-05
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ENSG00000179295	PTPN11	2052.364458	0.205367761	4.91E-05
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ENSG00000173230	GOLGB1	3252.866626	-0.218471027	4.92E-05
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ENSG00000124164	VAPB	1387.327376	0.286795996	4.94E-05
ENSG00000075426	FOSL2	11788.83522	0.428839173	4.94E-05
ENSG00000257267	ZNF271P	771.7750914	0.275018092	4.96E-05
ENSG00000186300	ZNF555	348.6580292	0.426384859	4.96E-05
ENSG00000149260	CAPN5	202.2395804	-0.79610208	4.96E-05
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ENSG00000163348	PYGO2	1457.489254	0.249537163	5.19E-05
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ENSG00000108469	RECQL5	780.6084869	0.197489724	5.28E-05
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ENSG00000144550	CPNE9	22.70506691	0.637057329	5.51E-05
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ENSG0000021355	SERPINB1	4301.750592	0.418690565	5.80E-05
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ENSG00000234327	ZNF232-AS1	57.40004243	0.46352692	6.08E-05
ENSG00000175691	ZNF77	95.03834828	0.305205219	6.08E-05
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ENSG00000129083	COPB1	2768.257075	0.254305806	6.13E-05
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ENSG00000266643	MIR3677	29.49833966	0.702891025	6.15E-05
ENSG00000101624	CEP76	193.3466716	0.277324774	6.17E-05
ENSG00000240889	NDUFB2-AS1	29.76073898	-0.602472191	6.18E-05
ENSG00000272375		21.3229555	0.882298593	6.21E-05
ENSG00000259649		23.24990857	-0.833972904	6.22E-05
ENSG00000182359	KBTBD3	230.1324202	0.362762269	6.28E-05
ENSG00000132199	ENOSF1	1629.486232	0.261332083	6.33E-05
ENSG00000265791		62.43898842	-0.529724145	6.34E-05
ENSG00000048649	RSF1	3048.394288	-0.180269732	6.36E-05
ENSG00000116133	DHCR24	159.3555025	-0.461083806	6.38E-05

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ENSG00000186523	FAM86B1	26.86362906	0.569953273	6.40E-05
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ENSG00000152932	RAB3C	70.32061046	1.445949011	6.56E-05
ENSG00000267457		93.76979205	0.600291128	6.56E-05
ENSG00000144455	SUMF1	650.2409473	-0.263960525	6.58E-05
ENSG00000162738	VANGL2	28.87803552	-1.259996088	6.58E-05
ENSG00000126603	GLIS2	19.15909568	-1.130964034	6.58E-05
ENSG00000249978	TRGV7	101.8915782	0.727342377	6.65E-05
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ENSG00000163939	PBRM1	2507.910426	0.179370898	6.70E-05
ENSG00000211828	TRDJ3	21.83295963	0.827917673	6.70E-05
ENSG00000117362	APH1A	2356.784308	-0.225532497	6.71E-05
ENSG00000157212	PAXIP1	492.2459778	0.185858389	6.71E-05
ENSG00000011295	TTC19	894.6710746	0.16872643	6.71E-05
ENSG00000189241	TSPYL1	2790.364934	-0.150817323	6.71E-05
ENSG00000196419	XRCC6	3769.79612	0.229088981	6.72E-05
ENSG00000250326	USP38-DT	96.42279902	0.39068529	6.73E-05
ENSG00000263712	MIR4639	21.94855877	-0.820037317	6.76E-05
ENSG00000110063	DCPS	315.853926	0.237835352	6.77E-05
ENSG00000258102	MAP1LC3B2	34.38555451	-0.935224855	6.77E-05
ENSG00000273759		145.474886	-0.289684089	6.78E-05
ENSG00000246859	STARD4-AS1	21.57580197	-0.797154295	6.80E-05
ENSG00000172382	PRSS27	36.48805509	0.595861587	6.81E-05
ENSG00000118520	ARG1	90.06813143	-1.286599323	6.82E-05
ENSG00000103355	PRSS33	150.2551016	-0.819862385	6.85E-05
ENSG00000100395	L3MBTL2	845.2828997	0.20724854	6.87E-05
ENSG00000185324	CDK10	943.0138855	0.197154799	6.88E-05
ENSG00000225693	LAGE3P1	32.07468391	0.69564847	6.88E-05
ENSG00000131558	EXOC4	1872.130546	-0.225790268	6.89E-05
ENSG00000250240		15.20139728	0.898648517	6.89E-05
ENSG00000169230	PRELID1	2196.366218	-0.370150629	6.89E-05
ENSG00000269891	ARHGAP19-SLIT1	10.86585667	-1.089596156	6.89E-05
ENSG00000130921	MTRFR	736.9235	0.225328182	6.90E-05
ENSG00000155275	TRMT44	742.6553191	0.173850012	6.91E-05
ENSG00000144677	CTDSPL	167.069082	0.914867908	6.93E-05
ENSG00000145388	METTL14	861.3974761	0.215950173	6.95E-05
ENSG00000114861	FOXP1	6029.385364	-0.241902781	6.96E-05
ENSG00000221866	PLXNA4	239.8324354	0.574018279	7.04E-05
ENSG00000258429	PDF	69.89125505	0.513567969	7.07E-05
ENSG00000160161	CILP2	17.608347	0.845045232	7.08E-05
ENSG00000119397	CNTRL	2981.225074	-0.197879869	7.10E-05
ENSG00000055332	EIF2AK2	4023.445276	0.81055092	7.11E-05
ENSG00000228784	LINC00954	658.5257727	-0.229329665	7.12E-05
ENSG00000137414	FAM8A1	2467.901995	-0.560366368	7.18E-05
ENSG00000082438	COBLL1	508.0874737	-0.354195254	7.19E-05

ENSG00000276791		303.4297869	0.357764743	7.20E-05
ENSG00000167554	ZNF610	56.20030742	0.444286867	7.21E-05
ENSG00000102445	RUBCNL	1760.310285	0.571725513	7.21E-05
ENSG00000174165	ZDHC24	873.6679848	-0.21675651	7.21E-05
ENSG00000103966	EHD4	1594.482583	0.575505557	7.25E-05
ENSG00000279199		19.34217507	0.849742558	7.25E-05
ENSG00000182308	DCAF4L1	45.2827542	-0.523693005	7.28E-05
ENSG00000139629	GALNT6	788.5001577	0.515873651	7.28E-05
ENSG00000100298	APOBEC3H	77.70271427	0.693010235	7.28E-05
ENSG00000224531	SMIM13	287.3339292	0.432281418	7.30E-05
ENSG00000125618	PAX8	78.38259233	0.701420608	7.30E-05
ENSG00000182405	PGBD4	248.6859986	0.286334521	7.31E-05
ENSG00000156411	ATP5MJ	579.5893778	-0.262258534	7.31E-05
ENSG00000168275	COA6	202.0674769	0.48775168	7.34E-05
ENSG00000183161	FANCF	466.2132992	0.205260263	7.35E-05
ENSG00000254789		21.4524165	-1.638088756	7.35E-05
ENSG00000211667	IGLV3-12	26.42732762	-1.513039902	7.36E-05
ENSG00000243449	C4orf48	151.6435087	-0.411824673	7.37E-05
ENSG00000117118	SDHB	823.8936163	-0.238505595	7.38E-05
ENSG00000247315	ZCCHC3	834.0289005	0.208131119	7.40E-05
ENSG00000106052	TAX1BP1	4476.941983	-0.210901764	7.42E-05
ENSG00000182952	HMGNA4	1444.391348	-0.211230459	7.47E-05
ENSG00000115902	SLC1A4	647.5608425	0.700136638	7.49E-05
ENSG00000279529		335.3213734	-0.282796742	7.52E-05
ENSG00000114166	KAT2B	3421.007391	-0.436667233	7.55E-05
ENSG00000261840		40.45625349	0.515680933	7.59E-05
ENSG00000164626	KCNK5	141.3581894	1.021910349	7.60E-05
ENSG00000232119	MCTS1	362.3909026	0.293372644	7.61E-05
ENSG00000198673	TAFA2	401.7729902	-0.381384538	7.62E-05
ENSG00000174514	MFSD4A	27.94979402	-0.617773905	7.63E-05
ENSG00000279748		36.80631869	0.620975533	7.63E-05
ENSG00000200816	SNORA38	18.65898959	-0.798689643	7.64E-05
ENSG00000120334	CENPL	149.2450963	0.311169386	7.65E-05
ENSG00000278818		80.01211331	-0.609507115	7.65E-05
ENSG00000143819	EPHX1	48.54828679	-0.691898164	7.66E-05
ENSG00000165934	CPSF2	1828.070777	0.246942275	7.66E-05
ENSG00000124444	ZNF576	260.7031995	0.410192998	7.66E-05
ENSG00000103197	TSC2	1970.624791	-0.256769715	7.67E-05
ENSG00000102743	SLC25A15	131.8414202	0.298192393	7.70E-05
ENSG00000185262	UBALD2	3439.136549	-0.453482284	7.70E-05
ENSG00000265355	MIR3136	31.732758	-0.569295305	7.71E-05
ENSG00000170298	LGALS9B	27.32609834	-0.99405291	7.71E-05
ENSG00000232871	SEC1P	12.05712427	-0.910470411	7.74E-05
ENSG00000205220	PSMB10	1064.572151	-0.406457957	7.75E-05
ENSG00000145107	TM4SF19	54.81151601	1.221305374	7.77E-05
ENSG00000162129	CLPB	575.3727337	0.247904596	7.78E-05
ENSG00000261474		143.1873793	0.294024171	7.80E-05
ENSG00000267809	NDUFV2P1	23.16753947	0.680298792	7.80E-05
ENSG00000231925	TAPBP	11369.11989	0.313655534	7.80E-05
ENSG00000198178	CLEC4C	45.00215515	-0.846462621	7.84E-05
ENSG00000165061	ZMAT4	8.461262268	-1.515042209	7.84E-05

ENSG00000122376	SHLD2	672.0470839	-0.295880019	7.87E-05
ENSG00000162892	IL24	239.7607412	1.840735253	7.87E-05
ENSG00000127561	SYNGR3	80.34785572	0.470728446	7.88E-05
ENSG00000164284	GRPEL2	731.1556243	0.243630622	7.89E-05
ENSG00000125870	SNRPB2	617.9316486	0.267150424	7.89E-05
ENSG00000105767	CADM4	136.725143	1.175319753	7.89E-05
ENSG00000120899	PTK2B	12694.47875	0.362115159	7.90E-05
ENSG00000120337	TNFSF18	29.36573236	2.447579396	7.91E-05
ENSG00000233560	KRT8P39	60.04625066	0.456206996	7.91E-05
ENSG00000161956	SENP3	365.3694354	0.302421621	7.94E-05
ENSG00000231728	TMSB15B-AS1	27.76732339	-0.627527995	7.95E-05
ENSG00000197312	DDI2	2203.941592	0.432670465	7.95E-05
ENSG00000203709	MIR29B2CHG	7231.88482	-0.314052569	7.98E-05
ENSG00000158793	NIT1	751.9096658	0.260250552	8.03E-05
ENSG00000124334	IL9R	187.9150447	1.230050677	8.06E-05
ENSG00000131126	TEX101	6.742718333	-1.497950151	8.07E-05
ENSG00000120699	EXOSC8	529.0837625	0.219989801	8.07E-05
ENSG00000163508	EOMES	891.6832827	0.662009259	8.07E-05
ENSG00000167186	COQ7	270.0861576	-0.367468074	8.09E-05
ENSG00000231160	KLF3-AS1	387.5439772	-0.339213893	8.13E-05
ENSG00000203485	INF2	1294.972114	-0.308114625	8.17E-05
ENSG00000167208	SNX20	3191.765916	0.348222837	8.17E-05
ENSG00000120738	EGR1	1708.496477	-1.166014549	8.18E-05
ENSG00000178966	RMI1	262.4492909	-0.379055198	8.18E-05
ENSG00000260361		35.84998781	0.84620699	8.18E-05
ENSG00000247077	PGAM5	540.0770448	0.306221399	8.19E-05
ENSG00000130522	JUND	4455.205119	-0.424348782	8.20E-05
ENSG00000259637	DNM1P38	16.37517997	0.673593262	8.22E-05
ENSG00000185112	FAM43A	529.4400282	0.582401589	8.22E-05
ENSG00000254094		38.45431845	-0.752264996	8.23E-05
ENSG00000100926	TM9SF1	138.4829318	0.352112543	8.28E-05
ENSG00000164168	TMEM184C	738.7803955	0.327298443	8.29E-05
ENSG00000103150	MLYCD	1330.494037	-0.221628077	8.32E-05
ENSG00000210195	MT-TT	76.58352093	-0.615137154	8.32E-05
ENSG00000143553	SNAPIN	322.0999003	0.279005666	8.34E-05
ENSG00000111875	ASF1A	816.1605048	0.248527395	8.34E-05
ENSG00000171320	ESCO2	38.93896153	0.594622631	8.36E-05
ENSG00000184492	FOXD4L1	22.61865408	1.2783434	8.36E-05
ENSG00000253773	CFAP418-AS1	19.28815488	0.650162932	8.37E-05
ENSG00000136014	USP44	137.0042241	0.374917448	8.38E-05
ENSG00000275318		112.7250353	0.350995669	8.38E-05
ENSG00000279696		185.1715643	0.602426251	8.39E-05
ENSG00000181074	OR52N4	16.81520136	-1.319431231	8.39E-05
ENSG00000275329		18.31206967	0.809216283	8.39E-05
ENSG00000135677	GNS	4353.132555	0.428278262	8.39E-05
ENSG00000269997		129.4641115	0.562610815	8.40E-05
ENSG00000230590	FTX	2601.107659	-0.285936273	8.42E-05
ENSG00000196776	CD47	7475.400855	-0.150807639	8.44E-05
ENSG00000123600	METTL8	660.3638806	0.208201904	8.44E-05
ENSG00000175322	ZNF519	205.8587035	-0.330774597	8.45E-05
ENSG00000173928	SWSAP1	128.4153484	-0.43782755	8.49E-05

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ENSG00000122068	FYTTD1	2301.963017	0.276401002	8.50E-05
ENSG00000279491		296.7851078	0.588742979	8.52E-05
ENSG00000199082	MIR342	125.7433436	0.647388436	8.54E-05
ENSG00000231794		18.79006904	-1.298325732	8.55E-05
ENSG00000102890	ELMO3	245.7063131	0.537316066	8.56E-05
ENSG00000137700	SLC37A4	330.7647122	0.233602428	8.59E-05
ENSG00000138061	CYP1B1	2020.448979	-0.889012491	8.59E-05
ENSG00000204104	TRAF3IP1	192.3084537	0.329827401	8.63E-05
ENSG00000111817	DSE	5046.71161	1.341942883	8.64E-05
ENSG00000236397	DDX11L2	119.3685024	-0.310686578	8.67E-05
ENSG00000174099	MSRB3	67.91831317	-0.698166697	8.68E-05
ENSG00000278540	ACACA	842.0675742	0.248530336	8.69E-05
ENSG00000152117	SMPD4BP	968.6568012	-0.299133631	8.69E-05
ENSG00000229668		45.68624156	0.786049422	8.69E-05
ENSG00000234975	FTH1P2	46.06853004	1.07449678	8.69E-05
ENSG00000037757	MRI1	815.0518539	-0.250948707	8.72E-05
ENSG00000250170	RASA2-IT1	78.54920629	-0.524560896	8.74E-05
ENSG00000122873	CISD1	157.3541345	0.3229398	8.75E-05
ENSG00000165804	ZNF219	297.6828999	-0.433157912	8.75E-05
ENSG00000184557	SOCS3	8120.252284	1.068457532	8.78E-05
ENSG00000254459		19.35090589	-0.747233788	8.80E-05
ENSG00000187037	GPR141	399.1074182	0.666051075	8.82E-05
ENSG00000248719	PRDM8-AS1	20.85055657	0.737655672	8.84E-05
ENSG00000231841	FAM192BP	29.30589539	0.988046514	8.87E-05
ENSG00000278896		70.72885289	-0.500764667	8.87E-05
ENSG00000224023	EDRF1-DT	20.26162259	0.783596719	8.89E-05
ENSG00000173599	PC	302.5349896	-0.722989386	8.89E-05
ENSG00000207313	SNORA2B	23.45729277	-0.763245414	8.92E-05
ENSG00000125166	GOT2	581.80086	0.184297709	8.95E-05
ENSG00000120837	NFYB	524.1504241	0.260352586	8.95E-05
ENSG00000259293	LIPC-AS1	79.78132706	1.524063804	8.97E-05
ENSG00000126246	IGFLR1	224.7295866	-0.353261232	9.00E-05
ENSG00000272186	VPS11-DT	18.59497403	0.703336815	9.00E-05
ENSG00000226822	LINC02785	63.5438661	-0.712473945	9.01E-05
ENSG00000250318		62.81109632	-0.483160731	9.02E-05
ENSG00000171262	FAM98B	620.4994183	-0.301461826	9.07E-05
ENSG00000272156		40.0482184	-0.481769812	9.08E-05
ENSG00000240328		28.07339768	0.604452095	9.08E-05
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ENSG00000177710	SLC35G5	36.24433569	0.584911716	9.15E-05
ENSG00000168795	ZBTB5	618.9013244	0.247224922	9.17E-05
ENSG00000242707	RN7SL362P	14.58655737	0.836340812	9.22E-05
ENSG00000163932	PRKCD	4410.615478	0.507754094	9.23E-05
ENSG00000005471	ABCB4	186.7895365	0.474263934	9.24E-05
ENSG00000230709		9.716651275	1.011231074	9.24E-05
ENSG00000113810	SMC4	1815.139176	-0.237417482	9.24E-05
ENSG000000035141	FAM136A	579.0733811	-0.220695863	9.24E-05
ENSG00000229276	REV3L-IT1	17.57711887	0.81179109	9.27E-05
ENSG00000140836	ZFHX3	381.6755426	-0.512026706	9.27E-05

ENSG00000166451	CENPN	128.9591031	0.403170575	9.27E-05
ENSG00000184574	LPAR5	304.2221235	-0.255725059	9.27E-05
ENSG00000112335	SNX3	1859.08686	-0.384123972	9.30E-05
ENSG00000136783	NIPSNAP3A	292.9829131	-0.383391747	9.31E-05
ENSG00000198961	PJA2	5215.81886	-0.274636158	9.36E-05
ENSG00000071564	TCF3	1753.748911	-0.28488363	9.39E-05
ENSG00000280376		24.67516209	-0.736758546	9.39E-05
ENSG00000169955	ZNF747	281.5788474	0.253704434	9.41E-05
ENSG00000241839	PLEKHO2	6575.465149	0.70328201	9.42E-05
ENSG00000177733	HNRNPA0	2441.31781	-0.188523747	9.44E-05
ENSG00000242258	LINC00996	146.0998233	0.974680053	9.46E-05
ENSG00000122547	EEPD1	961.6544679	-0.547369637	9.47E-05
ENSG00000197813		98.76030478	0.335080111	9.54E-05
ENSG00000268987		47.04074895	-0.512709836	9.56E-05
ENSG00000108821	COL1A1	34.71029926	1.175007433	9.58E-05
ENSG00000118816	CCNI	9430.082968	-0.268743856	9.59E-05
ENSG00000237264	FTH1P11	33.37438467	0.99548379	9.59E-05
ENSG00000090776	EFNB1	167.3988235	-0.357435461	9.60E-05
ENSG00000108829	LRRC59	1401.653904	0.279885967	9.62E-05
ENSG00000138663	COPS4	590.0602609	0.23933752	9.64E-05
ENSG00000205358	MT1H	28.94037284	2.404130884	9.65E-05
ENSG00000135625	EGR4	16.07195256	1.362338128	9.65E-05
ENSG00000173193	PARP14	14566.8383	0.708697576	9.65E-05
ENSG00000130382	MLLT1	1380.096233	-0.236886394	9.68E-05
ENSG00000172354	GNB2	5507.324255	-0.326053013	9.69E-05
ENSG00000238033		16.22676172	0.916875179	9.71E-05
ENSG00000110651	CD81	2485.614123	0.2627	9.73E-05
ENSG00000176248	ANAPC2	1592.392172	-0.23993735	9.79E-05
ENSG00000105819	PMPCB	1316.438172	-0.216819823	9.82E-05
ENSG00000150873	C2orf50	12.35065053	0.904817747	9.82E-05
ENSG00000144535	DIS3L2	1220.949995	-0.207350301	9.85E-05
ENSG00000243704	RN7SL105P	28.11759205	0.792858497	9.85E-05
ENSG00000101844	ATG4A	267.5840085	0.225617007	9.91E-05
ENSG00000136960	ENPP2	60.48264415	0.641148996	9.92E-05
ENSG00000159496	RGL4	314.1078493	-0.557054395	9.92E-05
ENSG00000197006	METTL9	2278.39203	-0.335174343	9.96E-05
ENSG00000198846	TOX	339.5975721	-0.261055057	9.98E-05
ENSG00000146386	ABRACL	608.3123481	0.260940947	9.99E-05
ENSG00000102977	ACD	448.5404278	0.20186039	1.00E-04
ENSG00000130204	TOMM40	882.5643795	0.439197861	1.00E-04
ENSG00000158482	SNX29P1	35.55794331	-0.61116607	1.00E-04
ENSG00000140287	HDC	612.5293821	0.409579683	1.02E-04
ENSG00000186496	ZNF396	121.9515085	0.491773582	1.02E-04
ENSG00000211795	TRAV8-6	61.02322468	-0.436321687	1.02E-04
ENSG00000100307	CBX7	4081.928899	-0.276124294	1.02E-04
ENSG00000085274	MYNN	1007.836895	0.226585899	1.02E-04
ENSG00000272219		115.2708712	0.715603494	1.02E-04
ENSG00000154269	ENPP3	50.63763373	-0.791943867	1.02E-04
ENSG00000166105	GLB1L3	46.20024328	0.473171008	1.02E-04
ENSG00000113460	BRIX1	403.7806798	0.271728889	1.03E-04
ENSG00000202019		32.42533784	1.28076588	1.03E-04

ENSG00000140859	KIFC3	1329.698948	1.100739674	1.03E-04
ENSG00000273973		20.78264797	0.730289641	1.03E-04
ENSG00000078668	VDAC3	1181.253768	-0.241816761	1.03E-04
ENSG00000268379		12.35205625	0.767574172	1.04E-04
ENSG00000255801		243.2830608	0.931536747	1.04E-04
ENSG00000144909	OSBPL11	1707.475246	-0.360618276	1.04E-04
ENSG00000245534	RORA-AS1	78.15168933	0.425247547	1.04E-04
ENSG00000124225	PMEP1	1101.583553	1.487033861	1.04E-04
ENSG00000175595	ERCC4	411.2349144	0.184095702	1.04E-04
ENSG00000076685	NT5C2	3159.66833	-0.343029101	1.04E-04
ENSG00000122121	XPNPEP2	16.20693982	-1.006036813	1.04E-04
ENSG00000228775	WEE2-AS1	55.15731255	0.631116742	1.05E-04
ENSG00000164850	GP1R1	10.01061116	-1.621734647	1.05E-04
ENSG00000196470	SIAH1	803.8534112	-0.288414596	1.05E-04
ENSG00000275835	TUBGCP5	482.5014249	-0.313694807	1.05E-04
ENSG00000196132	MYT1	18.35053684	1.026253104	1.05E-04
ENSG00000100335	MIEF1	1220.187949	0.142798076	1.05E-04
ENSG00000104998	IL27RA	1529.044378	0.302103175	1.05E-04
ENSG00000196437	ZNF569	272.9337446	0.289424153	1.05E-04
ENSG00000131089	ARHGEF9	804.9710356	-0.258986129	1.05E-04
ENSG00000124177	CHD6	2792.700231	-0.201562674	1.05E-04
ENSG00000155719	OTOA	26.32388354	1.04997685	1.05E-04
ENSG00000100522	GNPNAT1	276.7456449	0.521093523	1.06E-04
ENSG00000214517	PPME1	495.5740981	0.237724365	1.06E-04
ENSG00000160113	NR2F6	81.63507486	-0.59117992	1.06E-04
ENSG00000188042	ARL4C	4944.821591	-0.283812091	1.06E-04
ENSG00000005075	POLR2J	392.411777	-0.259929522	1.07E-04
ENSG00000108468	CBX1	682.1353019	-0.274724028	1.07E-04
ENSG00000213901	SLC23A3	42.11673263	0.928132941	1.07E-04
ENSG00000136936	XPA	479.275698	-0.249799371	1.07E-04
ENSG00000263961	RHEX	195.9212085	0.471616502	1.07E-04
ENSG00000262380		141.530789	-0.415941494	1.07E-04
ENSG00000082213	C5orf22	514.943442	0.256530498	1.08E-04
ENSG00000142168	SOD1	1279.211487	0.317957129	1.08E-04
ENSG00000278842		21.8241384	1.003175075	1.08E-04
ENSG00000173369	C1QB	100.3348749	1.101296115	1.09E-04
ENSG00000188295	ZNF669	256.6063744	-0.338427664	1.09E-04
ENSG00000137094	DNAJB5	362.8955495	1.146852446	1.09E-04
ENSG00000111886	GABRR2	49.30219664	-0.558482637	1.09E-04
ENSG00000175564	UCP3	152.776388	-0.284252928	1.09E-04
ENSG00000240682	ISY1	527.5284798	-0.217646795	1.09E-04
ENSG00000268475		35.31113598	-0.579831889	1.09E-04
ENSG00000257167	TMPO-AS1	109.5706703	-0.412417273	1.09E-04
ENSG00000149646	CNBD2	61.05049093	-0.479916448	1.09E-04
ENSG00000118705	RPN2	2338.224837	0.214975367	1.10E-04
ENSG00000280739	EIF1B-AS1	206.4280876	0.386121062	1.10E-04
ENSG00000108387	SEPTIN4	41.29753017	-1.019814553	1.10E-04
ENSG00000177917	ARL6IP6	567.5367619	-0.24928515	1.10E-04
ENSG00000163219	ARHGAP25	5123.869917	-0.325774341	1.11E-04
ENSG00000260464		49.11393003	0.626196572	1.11E-04
ENSG00000188848	BEND4	145.6950485	0.376715997	1.11E-04

ENSG00000147454	SLC25A37	26332.80276	-0.642077186	1.11E-04
ENSG00000134954	ETS1	15101.47383	-0.281531286	1.12E-04
ENSG00000222057	RNU4-62P	107.5910134	0.403249341	1.12E-04
ENSG00000241973	PI4KA	4244.850068	-0.20593678	1.12E-04
ENSG00000259548		64.49896616	0.998327827	1.12E-04
ENSG00000136235	GPNMB	734.054558	1.815672216	1.12E-04
ENSG00000080493	SLC4A4	98.52867916	-0.381537736	1.12E-04
ENSG00000122692	SMU1	2185.771963	0.131929171	1.13E-04
ENSG00000154447	SH3RF1	134.5079563	-0.699846672	1.13E-04
ENSG00000165457	FOLR2	20.91622652	-1.53335595	1.13E-04
ENSG00000233461		54.40703634	-0.878759138	1.13E-04
ENSG00000112115	IL17A	15.17240723	3.071683523	1.13E-04
ENSG00000187862	TTC24	130.3417901	-0.385448623	1.14E-04
ENSG00000277246		32.34722781	-0.664791105	1.14E-04
ENSG00000065970	FOXJ2	1262.457306	-0.235342205	1.14E-04
ENSG00000279611		81.11112909	0.402676567	1.14E-04
ENSG00000263857	MIR4729	26.01699471	-0.609888448	1.14E-04
ENSG00000113580	NR3C1	8232.054791	0.360435681	1.14E-04
ENSG00000125746	EML2	950.0117977	0.393529827	1.15E-04
ENSG00000180385	EMC3-AS1	247.5058056	-0.30416977	1.15E-04
ENSG00000260647		33.90906922	-0.674146668	1.15E-04
ENSG00000147853	AK3	641.9423266	-0.197168643	1.15E-04
ENSG00000171246	NPTX1	45.63371471	1.45906636	1.15E-04
ENSG00000256039	LINC02446	297.1806015	-0.419354696	1.16E-04
ENSG00000272617		328.1697885	0.198832927	1.16E-04
ENSG00000197506	SLC28A3	19.64235501	-1.228200894	1.16E-04
ENSG00000101138	CSTF1	714.6896065	0.257242204	1.16E-04
ENSG00000241597		26.9439842	0.781861965	1.16E-04
ENSG00000215795		42.27309845	0.846115894	1.16E-04
ENSG00000196456	ZNF775	89.61509048	0.44839601	1.17E-04
ENSG00000200269	RNU6-838P	36.74511145	0.746387178	1.17E-04
ENSG00000169100	SLC25A6	5728.266089	-0.343525682	1.18E-04
ENSG00000158604	TMED4	1856.495736	-0.183417251	1.18E-04
ENSG00000142528	ZNF473	372.3601917	0.295148687	1.18E-04
ENSG00000227782		41.67944325	0.619482735	1.18E-04
ENSG00000101752	MIB1	2038.630465	-0.199227153	1.18E-04
ENSG00000112079	STK38	5155.33916	-0.158686633	1.18E-04
ENSG00000166260	COX11	518.4026459	0.30261685	1.18E-04
ENSG00000200397		96.21649399	-0.459071712	1.18E-04
ENSG00000254826		239.5861557	-1.025206861	1.18E-04
ENSG00000197928	ZNF677	222.5730734	0.23890576	1.18E-04
ENSG00000203950	RTL8A	86.67477036	-0.376695851	1.18E-04
ENSG00000271427		28.7483885	0.727497813	1.19E-04
ENSG00000163156	SCNM1	655.860293	-0.22885376	1.19E-04
ENSG00000277462	ZNF670	57.35293292	0.513365144	1.20E-04
ENSG00000196693	ZNF33B	982.9964831	0.259654079	1.20E-04
ENSG00000231587	SNORD62B	27.91942358	-0.643746825	1.20E-04
ENSG00000158321	AUTS2	1822.030525	0.7961128	1.20E-04
ENSG00000169583	CLIC3	446.5393913	0.798573491	1.21E-04
ENSG00000261229		72.20584955	1.089255566	1.21E-04
ENSG00000199335	RNU6-204P	10.79230867	-1.14315062	1.21E-04

ENSG00000094916	CBX5	2088.501156	-0.236640592	1.21E-04
ENSG00000267080	ASB16-AS1	536.6151637	-0.210542882	1.21E-04
ENSG00000143420	ENSA	2531.29766	-0.216569446	1.21E-04
ENSG00000114735	HEMK1	1881.681718	-0.292345005	1.21E-04
ENSG00000232953	HSPA8P18	19.51291212	0.824860598	1.21E-04
ENSG00000224430	MKRN5P	20.38467665	-0.973656368	1.21E-04
ENSG00000253485	PCDHGA5	34.02461967	0.698086542	1.21E-04
ENSG00000183475	ASB7	785.4879941	-0.145144604	1.21E-04
ENSG00000170581	STAT2	6244.889088	0.542818692	1.22E-04
ENSG00000008710	PKD1	2264.276267	-0.319865225	1.22E-04
ENSG00000176490	DIRAS1	28.19254717	-0.667717791	1.22E-04
ENSG00000231551	PDE4DIPP6	138.2968526	0.853951276	1.22E-04
ENSG00000143457	GOLPH3L	462.532414	0.283562635	1.23E-04
ENSG00000074410	CA12	90.9902218	-1.511511417	1.23E-04
ENSG00000284194	SCO2	11.03437881	-1.69782927	1.23E-04
ENSG00000136240	KDEL2	1174.693671	0.390461489	1.23E-04
ENSG00000265137	MIR3192	16.73714109	-0.728329072	1.23E-04
ENSG00000176974	SHMT1	298.7837521	-0.376017583	1.23E-04
ENSG00000196700	ZNF512B	639.9298296	-0.373697471	1.23E-04
ENSG00000279923		20.52927712	0.701466115	1.24E-04
ENSG00000189180	ZNF33A	2628.005808	-0.208987212	1.24E-04
ENSG00000198369	SPRED2	296.9148198	1.07957597	1.24E-04
ENSG00000253251	SHLD3	157.2517352	-0.441190529	1.24E-04
ENSG00000253953	PCDHGB4	22.24158292	0.605467467	1.25E-04
ENSG00000162398	LEXM	36.45556411	-0.725476706	1.25E-04
ENSG00000141404	GNAL	110.0261312	0.590016879	1.25E-04
ENSG00000179862	CITED4	141.932343	-0.867112214	1.26E-04
ENSG00000155846	PPARGC1B	367.1609445	-0.733863146	1.26E-04
ENSG00000151466	SCLT1	2107.102351	-0.473771017	1.26E-04
ENSG00000143256	PFDN2	267.5838772	0.465292715	1.27E-04
ENSG00000092758	COL9A3	180.9008188	0.59371665	1.27E-04
ENSG00000128253	RFPL2	15.05911914	-1.00103772	1.27E-04
ENSG00000259321		87.5062876	0.477155458	1.27E-04
ENSG00000232454		31.62590089	0.709940514	1.28E-04
ENSG00000007350	TKTL1	343.5605417	1.12054934	1.28E-04
ENSG00000154898	CCDC144CP	89.0443555	-0.747879899	1.28E-04
ENSG00000012048	BRCA1	439.1358392	0.372638201	1.29E-04
ENSG00000274038		24.55307686	-0.685977186	1.29E-04
ENSG00000189144	ZNF573	349.4713134	0.232044202	1.29E-04
ENSG00000148331	ASB6	1095.526876	-0.204400851	1.30E-04
ENSG00000120318	ARAP3	1716.11441	-0.679238297	1.30E-04
ENSG00000107669	ATE1	828.0526775	-0.186249127	1.30E-04
ENSG00000261202	TNRC6B-DT	10.69927103	-1.18564518	1.31E-04
ENSG00000135077	HAVCR2	1448.024267	0.895966777	1.31E-04
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ENSG00000100429	HDAC10	92.58050101	-0.343853535	1.32E-04
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ENSG00000078902	TOLLIP	1963.365487	0.287254661	1.33E-04
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ENSG00000186577	SMIM29	533.6187796	0.328537972	1.33E-04
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ENSG00000196932	TMEM26	33.61873688	2.089745168	1.33E-04
ENSG00000204946	ZNF783	968.8842057	0.19246994	1.33E-04
ENSG00000185052	SLC24A3	98.79843985	-0.538773965	1.33E-04
ENSG00000237773		40.41023388	-0.558332013	1.33E-04
ENSG00000050555	LAMC3	37.82770871	-0.779768531	1.33E-04
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ENSG00000134897	BIVM	128.8089208	-0.298936976	1.34E-04
ENSG00000147421	HMBBOX1	1953.582866	0.170305417	1.34E-04
ENSG00000105369	CD79A	1731.866476	0.337677394	1.34E-04
ENSG00000058091	CDK14	993.6954327	0.477374956	1.34E-04
ENSG00000156171	DRAM2	1276.014135	-0.232008722	1.34E-04
ENSG00000101182	PSMA7	2507.439227	0.30151498	1.34E-04
ENSG00000166471	TMEM41B	862.2641353	0.3531662	1.34E-04
ENSG00000144744	UBA3	1591.119423	-0.208768215	1.35E-04
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ENSG00000066923	STAG3	163.6406839	0.708886944	1.35E-04
ENSG00000227403	LINC01806	164.539168	-0.493889662	1.35E-04
ENSG00000179918	SEPHS2	1584.086466	0.277551563	1.36E-04
ENSG00000145781	COMMD10	554.7377058	-0.214850673	1.36E-04
ENSG00000130005	GAMT	109.5685224	-0.443170271	1.38E-04
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ENSG00000200648	RNU6-226P	17.22745391	-1.254133669	1.38E-04
ENSG00000123080	CDKN2C	122.0107843	-0.494517324	1.38E-04
ENSG00000260852	FBXL19-AS1	96.76127024	0.390451041	1.38E-04
ENSG00000260285	TRMT61A-DT	120.1490713	0.5091125	1.38E-04
ENSG00000188566	NDOR1	686.3986691	-0.253541067	1.38E-04
ENSG00000178685	PARP10	4468.733156	0.473863972	1.38E-04
ENSG00000168874	ATOH8	133.3833459	1.317934477	1.39E-04
ENSG00000172543	CTSW	928.6330936	-0.624848933	1.39E-04
ENSG00000137460	FHDC1	288.5866068	0.977225217	1.39E-04
ENSG00000070759	TESK2	433.3907301	-0.343472609	1.39E-04
ENSG00000161681	SHANK1	7.720087738	-1.567239756	1.40E-04
ENSG00000197013	ZNF429	542.979553	0.323977156	1.41E-04
ENSG00000260766		67.62951834	0.4890547	1.41E-04
ENSG00000153774	CFDP1	359.7823201	0.237525949	1.41E-04
ENSG00000259418		14.27673215	-1.264015766	1.41E-04
ENSG00000115687	PASK	2970.66368	0.482453262	1.42E-04
ENSG00000145244	CORIN	28.33355258	-0.984995116	1.42E-04
ENSG00000019995	ZRANB1	1477.18284	-0.234672028	1.42E-04
ENSG00000280106		136.4533138	0.496238156	1.43E-04
ENSG00000175003	SLC22A1	184.5311063	-0.649665917	1.44E-04
ENSG00000180879	SSR4	1917.226031	0.243199154	1.44E-04

ENSG00000229980	TOB1-AS1	68.46001505	-0.466474248	1.44E-04
ENSG00000279069		16.67490722	0.867738746	1.44E-04
ENSG00000117222	RBBP5	1142.492981	0.320568322	1.44E-04
ENSG00000111666	CHPT1	1258.157461	-0.359251681	1.45E-04
ENSG00000254777		93.29534411	-0.510558914	1.45E-04
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ENSG00000213540	TXN2P1	21.75220042	0.667805937	1.45E-04
ENSG00000070501	POLB	828.0085924	-0.450458018	1.45E-04
ENSG00000142459	EVI5L	368.77678	-0.315916635	1.46E-04
ENSG00000197530	MIB2	1116.2851	-0.286715486	1.46E-04
ENSG00000125843	AP5S1	304.3623786	0.20878092	1.46E-04
ENSG00000145002	FAM86B2	11.32007029	0.91393683	1.47E-04
ENSG00000242114	MTFP1	27.13357568	-0.823111022	1.47E-04
ENSG00000162746	FCRLB	31.30503796	-0.767451442	1.47E-04
ENSG00000197372	ZNF675	536.7716593	0.244195117	1.47E-04
ENSG00000113851	CRBN	2288.875332	-0.277309301	1.47E-04
ENSG00000197329	PELI1	5637.884598	-0.538654909	1.48E-04
ENSG00000232995		103.9741127	0.324550571	1.48E-04
ENSG00000125650	PSPN	116.4526464	0.49117977	1.48E-04
ENSG00000101150	TPD52L2	4476.318033	0.399738518	1.48E-04
ENSG00000118514	ALDH8A1	72.46613533	-0.399278429	1.49E-04
ENSG00000138092	CENPO	210.6262962	0.263359053	1.49E-04
ENSG00000273729		298.5970143	-0.373747114	1.49E-04
ENSG00000104643	MTMR9	1202.626713	0.168056432	1.49E-04
ENSG00000160293	VAV2	660.2755063	-0.487823065	1.49E-04
ENSG00000146833	TRIM4	1526.967358	0.199865892	1.49E-04
ENSG00000279354		20.43909075	-0.600598857	1.49E-04
ENSG00000148481	MINDY3	1096.502078	0.181277288	1.49E-04
ENSG00000102098	SCML2	55.84127385	0.604411615	1.50E-04
ENSG00000185220	PGBD2	320.7434132	0.445079018	1.50E-04
ENSG00000197045	GMFB	1715.948395	0.298784141	1.50E-04
ENSG00000163659	TIPARP	1575.524307	-0.351351029	1.50E-04
ENSG00000283604	MIR338	13.64520293	1.164348509	1.51E-04
ENSG00000145916	RMND5B	721.1907328	-0.162913902	1.51E-04
ENSG00000036257	CUL3	2948.79939	-0.178605133	1.51E-04
ENSG00000265787	CYP4F35P	19.53762371	-0.868605628	1.51E-04
ENSG00000196110	ZNF699	309.2207572	-0.23588569	1.51E-04
ENSG00000272604		29.61474962	0.663374642	1.51E-04
ENSG00000144043	TEX261	1081.661187	0.196292327	1.51E-04
ENSG00000154265	ABCA5	1254.750896	-0.242249195	1.51E-04
ENSG00000189350	TOGARAM2	398.7095875	0.468927865	1.51E-04
ENSG00000149474	KAT14	447.1971818	0.197871628	1.52E-04
ENSG00000242372	EIF6	814.4440162	0.353392976	1.52E-04
ENSG00000275236		40.3024006	0.672996678	1.52E-04
ENSG00000140939	NOL3	55.30522267	-0.637149696	1.52E-04
ENSG00000163513	TGFBR2	9934.445255	-0.174845737	1.52E-04
ENSG00000197774	EME2	948.4776543	-0.19943535	1.53E-04
ENSG00000173868	PHOSPHO1	3243.319656	-0.908459073	1.53E-04
ENSG00000125835	SNRPB	1975.038356	0.264630248	1.54E-04
ENSG00000162928	PEX13	632.6462381	0.198052822	1.55E-04
ENSG00000172460	PRSS30P	51.35170132	-0.748292439	1.55E-04

ENSG00000244041	LINC01011	161.8455636	0.383689397	1.55E-04
ENSG00000198563	DDX39B	6266.154257	0.137581451	1.56E-04
ENSG00000089289	IGBP1	1274.928981	-0.25891806	1.56E-04
ENSG00000174669	SLC29A2	188.8781224	-0.323024256	1.57E-04
ENSG00000152484	USP12	2298.372116	0.458021287	1.57E-04
ENSG00000283515		25.5542615	-0.604910466	1.57E-04
ENSG00000269929	MIRLET7A1HG	410.6479003	-0.328176104	1.57E-04
ENSG00000207605	MIR191	18.4790646	0.766568716	1.57E-04
ENSG00000130724	CHMP2A	1166.908402	0.376331273	1.58E-04
ENSG00000122490	SLC66A2	1750.310328	-0.335543615	1.58E-04
ENSG00000138385	SSB	1280.616098	0.354149851	1.58E-04
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ENSG00000232973	CYP1B1-AS1	53.2585379	-0.712818859	1.59E-04
ENSG00000253175		14.73796835	0.851012797	1.60E-04
ENSG00000064270	ATP2C2	81.021865	1.336146077	1.60E-04
ENSG00000196313	POM121	2101.847682	-0.206415363	1.60E-04
ENSG00000268069		23.10414592	-0.646600557	1.60E-04
ENSG00000172183	ISG20	6063.679996	0.398199523	1.61E-04
ENSG00000238015		24.92107787	1.344256626	1.61E-04
ENSG00000163848	ZNF148	2782.840833	-0.189077299	1.61E-04
ENSG00000255987	TOMM20P2	314.6823425	0.473135313	1.61E-04
ENSG00000166135	HIF1AN	2919.554641	0.201685878	1.62E-04
ENSG00000231663	COA6-AS1	38.89789204	-0.673290725	1.62E-04
ENSG00000135114	OASL	2498.036742	0.997454669	1.62E-04
ENSG00000145191	EIF2B5	1243.441417	0.171602424	1.64E-04
ENSG00000183087	GAS6	125.9345847	-0.679334257	1.64E-04
ENSG00000211460	TSN	1205.718377	-0.179347286	1.64E-04
ENSG00000196642	RABL6	1498.189655	-0.214595869	1.65E-04
ENSG00000258230		46.18146139	-0.517078828	1.65E-04
ENSG00000095539	SEMA4G	16.08003938	-0.745579326	1.65E-04
ENSG00000205763	RP9P	49.44370884	-0.46917324	1.66E-04
ENSG00000182873	PRKCZ-AS1	28.32302563	-0.70235041	1.66E-04
ENSG00000163694	RBM47	3453.825104	0.433741561	1.67E-04
ENSG00000261754		76.41690779	-0.396861002	1.67E-04
ENSG00000277224	H2BC7	673.9762991	-0.497225779	1.68E-04
ENSG00000111011	RSRC2	2575.389372	-0.230993942	1.68E-04
ENSG00000214140	PRCD	119.4751761	0.786426175	1.68E-04
ENSG00000213139	CRYGS	130.9048534	0.335072047	1.68E-04
ENSG00000135829	DHX9	4384.772979	0.147247017	1.68E-04
ENSG00000225479	PLCB1-IT1	26.37241267	-0.757154032	1.69E-04
ENSG00000173597	SULT1B1	678.5659898	-0.998135762	1.69E-04
ENSG00000196912	ANKRD36B	936.6088313	-0.213623389	1.69E-04
ENSG00000173207	CKS1B	110.4661767	0.385226462	1.69E-04
ENSG00000231711	LINC00899	83.74760209	-0.444539358	1.69E-04
ENSG00000260940		223.4750235	0.499445573	1.70E-04
ENSG00000020426	MNAT1	262.3190519	0.230230138	1.70E-04
ENSG00000158850	B4GALT3	909.8654956	-0.235195197	1.71E-04
ENSG00000133641	C12orf29	401.0312247	0.244473606	1.71E-04
ENSG00000028528	SNX1	3574.560093	-0.111275677	1.71E-04
ENSG00000264357	MIR4648	22.07109806	-0.675397947	1.72E-04
ENSG00000235426		11.20482867	-1.516033577	1.72E-04

ENSG00000186529	CYP4F3	2074.317226	-0.847191616	1.72E-04
ENSG00000197520	FAM177B	105.9144104	0.636570527	1.72E-04
ENSG00000164023	SGMS2	280.3424356	-0.553592988	1.72E-04
ENSG00000108375	RNF43	59.20049707	-0.492850084	1.73E-04
ENSG00000168026	TTC21A	283.8812934	-0.59201321	1.73E-04
ENSG00000213762	ZNF134	877.6608906	-0.205363259	1.73E-04
ENSG00000267078		19.56038509	0.689448228	1.73E-04
ENSG00000200428		28.98370996	-0.569797587	1.74E-04
ENSG00000166681	BEX3	166.5752005	-0.50153618	1.74E-04
ENSG00000227076		35.3942981	-0.898357006	1.74E-04
ENSG00000226964	RHEBP2	16.97281008	0.625698987	1.74E-04
ENSG00000212526	RNU6-466P	14.85621628	-0.810834047	1.74E-04
ENSG00000268615		8.245888743	-1.453807864	1.74E-04
ENSG00000196381	ZNF781	103.6209388	0.429143966	1.74E-04
ENSG00000164751	PEX2	1031.299038	-0.170824783	1.75E-04
ENSG0000026652	AGPAT4	1314.089453	0.394231435	1.75E-04
ENSG00000269892		17.05262028	-0.718319352	1.75E-04
ENSG00000183615	FAM167B	17.83616626	-0.868304339	1.75E-04
ENSG00000199377	RNU5F-1	31.89309975	-1.229090912	1.75E-04
ENSG00000215126	CBWD6	244.2225172	-0.380673634	1.75E-04
ENSG00000199133	MIRLET7D	80.7820205	-0.436618848	1.75E-04
ENSG00000109971	HSPA8	14213.36083	0.523070541	1.75E-04
ENSG00000265148	TSPOAP1-AS1	1900.816275	0.250627377	1.76E-04
ENSG00000146733	PSPH	98.94288687	0.336388583	1.76E-04
ENSG00000125089	SH3TC1	2552.584902	-0.266682302	1.76E-04
ENSG00000070814	TCOF1	1525.433944	0.220593558	1.76E-04
ENSG00000134049	IER3IP1	288.8642729	0.289872853	1.76E-04
ENSG00000236859	NIFK-AS1	239.9871651	0.399768014	1.77E-04
ENSG00000008394	MGST1	158.012796	-0.531763412	1.77E-04
ENSG00000109171	SLAIN2	2079.47998	-0.181342066	1.77E-04
ENSG00000208023	MIR185	18.08411219	-0.700014224	1.77E-04
ENSG00000105251	SHD	13.02089211	1.058088694	1.78E-04
ENSG00000136448	NMT1	2031.786735	0.23819499	1.78E-04
ENSG00000149636	DSN1	259.8896257	-0.304702836	1.78E-04
ENSG00000230679	ENO1-AS1	20.7200956	0.632008613	1.78E-04
ENSG00000272070		21.02697527	0.653937552	1.78E-04
ENSG00000215039	CD27-AS1	186.6659563	-0.353224682	1.79E-04
ENSG00000281958	TRBJ1-4	106.6759908	0.697774437	1.79E-04
ENSG00000013725	CD6	7304.916609	0.314659111	1.79E-04
ENSG00000259704		24.29389875	0.974262724	1.79E-04
ENSG00000162980	ARL5A	1033.471183	-0.25224888	1.79E-04
ENSG00000186197	EDARADD	66.2816234	0.332761742	1.79E-04
ENSG00000068383	INPP5A	996.9333145	0.24399628	1.79E-04
ENSG00000233586		29.79915876	1.041218921	1.80E-04
ENSG00000112365	ZBTB24	1070.233686	0.174381855	1.81E-04
ENSG00000152422	XRCC4	217.6425817	-0.352678784	1.81E-04
ENSG00000255115		20.47326324	0.698758109	1.81E-04
ENSG00000113643	RARS1	1493.190146	0.297040873	1.82E-04
ENSG00000140386	SCAPER	1137.92567	-0.292930849	1.82E-04
ENSG00000119707	RBM25	4110.331848	-0.181568337	1.82E-04
ENSG00000105270	CLIP3	31.66440955	-0.530691403	1.83E-04

ENSG00000213593	TMX2	752.0347602	0.473895011	1.83E-04
ENSG00000185621	LMLN	217.4338683	0.27193842	1.83E-04
ENSG00000119929	CUTC	460.0932035	-0.194850328	1.84E-04
ENSG00000231365	WARS2-AS1	329.151257	0.257677232	1.84E-04
ENSG00000223188		34.75977887	0.608914627	1.84E-04
ENSG00000051825	MPHOSPH9	1448.842822	-0.174136127	1.85E-04
ENSG00000224397	PELATON	3429.015879	0.751994241	1.86E-04
ENSG00000135362	PRR5L	3262.935396	0.87621599	1.86E-04
ENSG00000274070	CASTOR2	149.4740513	-0.38239282	1.86E-04
ENSG00000234493	RHOXF1P1	23.31061706	-0.793569522	1.87E-04
ENSG00000116641	DOCK7	508.1850741	0.417731523	1.88E-04
ENSG00000266931		23.84754626	-0.627375729	1.88E-04
ENSG00000154767	XPC	1942.860903	-0.211431121	1.89E-04
ENSG00000182010	RTKN2	463.7875975	0.271465243	1.90E-04
ENSG00000105676	ARMC6	424.8513053	0.244658256	1.91E-04
ENSG00000218739	CEBPZOS	806.8266933	-0.245027539	1.91E-04
ENSG00000107537	PHYH	162.5067912	-0.358616	1.92E-04
ENSG00000107949	BCCIP	695.476316	0.307106491	1.93E-04
ENSG00000272871		24.41618498	-0.589664744	1.93E-04
ENSG00000272463		39.23263279	0.504800649	1.93E-04
ENSG00000145022	TCTA	710.9335386	-0.265070581	1.93E-04
ENSG00000135740	SLC9A5	68.30417702	-0.438469616	1.93E-04
ENSG00000138821	SLC39A8	7554.143709	1.68294196	1.94E-04
ENSG00000225720		25.00830773	0.654870292	1.94E-04
ENSG00000145247	OCIAD2	827.5153325	0.561006533	1.94E-04
ENSG00000262837		64.66458998	-0.470656521	1.94E-04
ENSG00000116774	OLFML3	20.42565886	0.776390477	1.95E-04
ENSG00000135821	GLUL	22067.90086	-0.64338769	1.95E-04
ENSG00000274943		53.49781671	-0.536611753	1.95E-04
ENSG00000013275	PSMC4	1140.232126	0.352280981	1.95E-04
ENSG00000127774	EMC6	295.2375498	0.325223334	1.96E-04
ENSG00000214944	ARHGEF28	44.99601952	0.753289199	1.96E-04
ENSG00000258116	PPIAP45	14.83972953	0.873622669	1.96E-04
ENSG00000181513	ACBD4	437.0668739	-0.256464798	1.97E-04
ENSG00000279330		280.845829	-0.331764017	1.97E-04
ENSG00000252690		107.236292	0.436168405	1.97E-04
ENSG00000124702	KLHDC3	1232.717295	-0.177119748	1.98E-04
ENSG00000231187	SYT15-AS1	8.680165717	-1.405475259	1.98E-04
ENSG00000161996	WDR90	311.3167248	0.391034222	1.98E-04
ENSG00000179051	RCC2	2930.856872	0.258599299	1.99E-04
ENSG00000188766	SPRED3	62.37107124	-0.456291056	1.99E-04
ENSG00000131148	EMC8	467.9667976	0.223102884	2.00E-04
ENSG00000099625	CBARP	11.97040396	1.520078062	2.01E-04
ENSG00000145545	SRD5A1	314.4479208	-0.237683688	2.01E-04
ENSG00000110367	DDX6	9944.734594	-0.175188304	2.01E-04
ENSG00000251034		54.68427208	1.061143385	2.01E-04
ENSG00000143797	MBOAT2	1231.596042	-0.761691311	2.01E-04
ENSG00000258301	VASH1-AS1	168.4394815	0.283017502	2.01E-04
ENSG00000128908	INO80	1628.201813	0.160176042	2.02E-04
ENSG00000182095	TNRC18	5583.716037	-0.361047096	2.02E-04
ENSG00000151136	BTBD11	1741.199065	0.554082867	2.02E-04

ENSG00000063046	EIF4B	14535.63657	-0.232195134	2.03E-04
ENSG00000270194	GOLGA4-AS1	24.62850113	-0.744036625	2.03E-04
ENSG00000279608		357.7512229	-0.338716302	2.04E-04
ENSG00000260517		312.6186181	-0.323979224	2.04E-04
ENSG00000160131	VMA21	936.1333507	0.246731778	2.04E-04
ENSG00000279656		29.05182336	0.588776924	2.05E-04
ENSG00000262039		23.10610461	-0.614910935	2.05E-04
ENSG00000049192	ADAMTS6	188.6175266	0.371875178	2.05E-04
ENSG00000134318	ROCK2	1329.62019	-0.203584528	2.06E-04
ENSG00000231672	DIRC3	95.69347497	-0.398504118	2.06E-04
ENSG00000174446	SNAPC5	398.4717256	0.210958901	2.06E-04
ENSG00000203286		30.72080118	-0.468099481	2.07E-04
ENSG00000257605	MYG1-AS1	50.24532642	1.140055853	2.07E-04
ENSG00000109534	GAR1	117.1884443	0.502676491	2.08E-04
ENSG00000211691	TRGJP	19.84684948	0.883036054	2.08E-04
ENSG00000171777	RASGRP4	1595.298994	-0.669259782	2.08E-04
ENSG00000136315	RNASE2CP	7.012718401	-1.82275218	2.08E-04
ENSG00000148484	RSU1	1391.123773	-0.408580258	2.09E-04
ENSG00000122778	KIAA1549	16.73540489	0.878498061	2.10E-04
ENSG00000125450	NUP85	955.2698234	0.156002504	2.11E-04
ENSG00000132846	ZBED3	88.58260507	-0.484496102	2.11E-04
ENSG00000270157		271.1253196	-0.254721046	2.11E-04
ENSG00000164329	TENT2	2765.860231	-0.220692615	2.11E-04
ENSG00000249763		10.53259179	1.118231902	2.11E-04
ENSG00000226321	CROCC2	8.395726236	-2.242546289	2.12E-04
ENSG00000089094	KDM2B	2810.940517	0.349262772	2.12E-04
ENSG00000133247	KMT5C	347.1952364	-0.299907503	2.12E-04
ENSG00000152620	NADK2	465.6569227	0.18712937	2.13E-04
ENSG00000258284	POLR2KP1	26.29420627	0.662199954	2.13E-04
ENSG00000265462	MIR3680-1	50.40828954	0.480915499	2.14E-04
ENSG00000272666	KLHDC7B-DT	64.23209309	0.731697995	2.14E-04
ENSG00000143384	MCL1	27981.22089	-0.343356093	2.16E-04
ENSG00000152102	FAM168B	2206.131389	-0.193072317	2.17E-04
ENSG00000187566	NHLRC1	31.11656578	0.553162079	2.17E-04
ENSG00000240288	GHRLOS	369.5603341	0.327643069	2.19E-04
ENSG00000230847	OCLNP1	42.40646964	-0.53418295	2.19E-04
ENSG00000111801	BTN3A3	2949.852003	0.306495902	2.19E-04
ENSG00000157823	AP3S2	522.6932464	0.214746657	2.20E-04
ENSG00000128791	TWSG1	250.8511355	0.287372829	2.20E-04
ENSG00000147687	TATDN1	362.1839126	0.203656747	2.20E-04
ENSG00000134716	CYP2J2	15.72542443	0.823592873	2.21E-04
ENSG00000243629	LINC00880	36.85376838	0.620931624	2.21E-04
ENSG00000228043	SPOPL-DT	84.17850449	0.680542029	2.21E-04
ENSG00000270426		198.375291	0.560541608	2.22E-04
ENSG00000146802	TMEM168	1165.916877	0.141386812	2.22E-04
ENSG00000230063		78.73315623	-0.419865473	2.22E-04
ENSG00000100934	SEC23A	1403.851779	-0.150160464	2.23E-04
ENSG00000186407	CD300E	3177.048408	-1.113544707	2.24E-04
ENSG00000272341		152.2469469	0.559072087	2.24E-04
ENSG00000270137		48.62320574	0.575328014	2.24E-04
ENSG00000174370	KCNJ5-AS1	19.69255083	-1.465747209	2.25E-04

ENSG00000159596	TMEM69	376.5556532	0.233020724	2.25E-04
ENSG00000112343	TRIM38	5529.381114	0.270015974	2.25E-04
ENSG00000273189		27.81016806	0.707210511	2.25E-04
ENSG00000274092		24.62442532	-1.33629646	2.25E-04
ENSG00000198105	ZNF248	387.226623	0.336737206	2.25E-04
ENSG00000182853	VMO1	623.8923618	1.174719263	2.26E-04
ENSG00000249931	GOLGA8K	13.31389963	-0.974879288	2.27E-04
ENSG00000110395	CBL	4437.708044	-0.421472502	2.27E-04
ENSG00000244607	CCDC13	72.45596744	-0.510086808	2.27E-04
ENSG00000136271	DDX56	1312.913118	0.189082839	2.27E-04
ENSG00000267838		128.258181	0.415982474	2.27E-04
ENSG00000277938		38.53145785	0.494581119	2.28E-04
ENSG00000271646	IRF2-DT	540.0172047	0.419905692	2.28E-04
ENSG00000250569	NTAN1P2	61.5917698	0.700928644	2.29E-04
ENSG00000164989	CCDC171	101.8482841	-0.320945511	2.30E-04
ENSG00000283514	MIR3975	17.50811271	-0.599462553	2.30E-04
ENSG00000159593	NAE1	720.4168711	-0.242201355	2.30E-04
ENSG00000164118	CEP44	627.246415	-0.196229205	2.30E-04
ENSG00000102181	CD99L2	582.2455005	-0.355953201	2.31E-04
ENSG00000278133		260.6686596	-0.244743558	2.31E-04
ENSG00000163606	CD200R1	365.1581998	0.365206334	2.31E-04
ENSG00000236287	ZBED5	2487.17526	0.22528259	2.34E-04
ENSG00000187605	TET3	4948.938246	0.34993001	2.34E-04
ENSG00000271122	HERPUD2-AS1	162.946966	0.274468075	2.34E-04
ENSG00000147180	ZNF711	68.43113132	-0.471016202	2.34E-04
ENSG00000255575		13.80655681	1.080577847	2.35E-04
ENSG00000261433		23.33138447	0.555961625	2.36E-04
ENSG00000067601	PMS2P4	63.88462536	-0.445867477	2.36E-04
ENSG00000270339	PPIAL4H	41.43658427	1.029998553	2.36E-04
ENSG00000173258	ZNF483	320.0979394	-0.27391504	2.37E-04
ENSG00000102763	VWA8	1045.112738	-0.22141869	2.37E-04
ENSG00000125864	BFSP1	13.0846925	-1.096371504	2.38E-04
ENSG00000221886	ZBED8	35.22166096	0.751350967	2.38E-04
ENSG00000197019	SERTAD1	619.9076472	0.475276212	2.38E-04
ENSG00000205476	CCDC85C	290.0148884	-0.360205496	2.38E-04
ENSG00000182979	MTA1	1344.576679	-0.205972306	2.39E-04
ENSG00000147164	SNX12	787.895405	0.267339711	2.39E-04
ENSG00000099797	TECR	1474.060891	-0.211846542	2.39E-04
ENSG00000186918	ZNF395	840.2627033	-0.284871877	2.39E-04
ENSG00000133731	IMPA1	712.851583	0.216288207	2.40E-04
ENSG00000162222	TTC9C	429.0260966	0.360105459	2.40E-04
ENSG00000206127	GOLGA8O	25.10445945	-0.694354127	2.41E-04
ENSG00000250151	ARPC4-TTLL3	22.755959	-0.954496165	2.41E-04
ENSG00000083720	OXCT1	843.920625	0.190373016	2.42E-04
ENSG00000274245		22.81296239	0.704039964	2.43E-04
ENSG00000257681		17.55414517	0.796086008	2.43E-04
ENSG00000213995	NAXD	901.3473176	0.200790869	2.44E-04
ENSG00000111325	OGFOD2	96.02678436	-0.313767299	2.45E-04
ENSG00000042753	AP2S1	813.4251823	-0.346162369	2.45E-04
ENSG00000155506	LARP1	4149.309057	0.202554899	2.45E-04
ENSG00000166224	SGPL1	1814.329934	0.253192981	2.45E-04

ENSG00000130348	QRSL1	468.8791243	0.211185788	2.48E-04
ENSG00000219481	NBPF1	554.4922532	0.358463071	2.48E-04
ENSG00000260260	SNHG19	103.0594421	0.456594714	2.50E-04
ENSG00000070081	NUCB2	964.2683556	-0.296051551	2.51E-04
ENSG00000235770	LINC00607	14.01883828	-1.953814329	2.52E-04
ENSG00000167103	PIP5KL1	37.22037015	-0.597084306	2.52E-04
ENSG00000070087	PFN2	129.5225891	-0.430131475	2.52E-04
ENSG00000124688	MAD2L1BP	552.7380579	0.301865284	2.53E-04
ENSG00000103472	RRN3P2	583.7162695	-0.183935394	2.53E-04
ENSG00000106635	BCL7B	1081.925487	-0.224895261	2.54E-04
ENSG00000141682	PMAIP1	849.0268354	0.415270512	2.54E-04
ENSG00000169203	NPIPB12	194.6618226	-0.380898848	2.54E-04
ENSG00000282851	BISPR	454.30505	0.474038139	2.54E-04
ENSG00000153495	TEX29	45.85902819	-0.477414119	2.56E-04
ENSG00000117228	GBP1	6393.815603	0.99752618	2.56E-04
ENSG00000170430	MGMT	411.8367696	-0.31098441	2.57E-04
ENSG00000204514	ZNF814	805.277957	0.206250214	2.57E-04
ENSG00000156042	CFAP70	258.6612415	0.483471116	2.57E-04
ENSG00000135249	RINT1	572.4385436	0.139293673	2.57E-04
ENSG00000283064		49.83303501	-0.548614641	2.57E-04
ENSG00000151247	EIF4E	1254.231715	0.337974649	2.59E-04
ENSG00000270344	POC1B-AS1	488.131397	-0.240272694	2.60E-04
ENSG00000241782		28.89019717	-0.629887763	2.61E-04
ENSG00000274259	SYNGAP1-AS1	42.49289889	0.915698935	2.61E-04
ENSG00000267521		105.8734722	1.186315337	2.62E-04
ENSG00000277558		70.40537758	-0.411001825	2.63E-04
ENSG00000257017	HP	50.6262713	-1.113585851	2.66E-04
ENSG00000251364	SYT9-AS1	244.2229981	-0.371299849	2.67E-04
ENSG00000078061	ARAF	1533.795784	-0.180062876	2.67E-04
ENSG00000101417	PXMP4	265.17509	0.23898606	2.68E-04
ENSG00000133997	MED6	570.1487743	-0.17258355	2.69E-04
ENSG00000181873	IBA57	651.4070931	-0.280188664	2.70E-04
ENSG00000125900	SIRPD	69.70639783	-0.777747398	2.70E-04
ENSG00000215301	DDX3X	16097.69234	0.228355836	2.70E-04
ENSG00000086570	FAT2	4.855758994	2.048396652	2.71E-04
ENSG00000164631	ZNF12	1502.70106	0.207401528	2.72E-04
ENSG00000171204	TMEM126B	561.5845958	0.240469843	2.72E-04
ENSG00000197632	SERPINB2	11513.54149	2.479431917	2.72E-04
ENSG00000167397	VKORC1	66.69605746	0.353111953	2.73E-04
ENSG00000125753	VASP	12703.29634	0.546030279	2.73E-04
ENSG00000167747	C19orf48	483.4585268	-0.411695635	2.74E-04
ENSG00000185436	IFNLR1	328.2666312	0.464645536	2.74E-04
ENSG00000165175	MID1IP1	1861.702084	0.305992246	2.76E-04
ENSG00000178562	CD28	2599.804505	0.233687498	2.77E-04
ENSG00000260388	LINC00562	32.58574873	-0.672727179	2.77E-04
ENSG00000248632		32.771184	0.684119022	2.77E-04
ENSG00000271538	LINC02427	13.6952906	0.779775301	2.77E-04
ENSG00000105379	ETFB	373.2155506	-0.225102896	2.78E-04
ENSG00000241983	RN7SL566P	31.95308826	0.556080976	2.78E-04
ENSG00000166928	MS4A14	382.2521312	0.69475566	2.79E-04
ENSG00000141956	PRDM15	728.7497774	0.201043546	2.79E-04

ENSG00000272334		29.09900355	0.505833327	2.79E-04
ENSG00000185745	IFIT1	4582.509774	1.420990121	2.80E-04
ENSG00000229539	PANK2-AS1	76.01704317	0.476529961	2.80E-04
ENSG00000248334	WHAMMP2	531.7736273	-0.246874881	2.80E-04
ENSG00000232036		53.89126851	0.746976929	2.81E-04
ENSG00000084623	EIF3I	1765.069997	0.222722319	2.81E-04
ENSG00000163155	LYSMD1	68.20051302	0.736997106	2.81E-04
ENSG00000048405	ZNF800	2705.860685	-0.158126873	2.83E-04
ENSG00000106153	CHCHD2	2624.458828	0.245794921	2.84E-04
ENSG00000232850		17.45725874	0.732137679	2.85E-04
ENSG00000206875	RNU6-761P	47.31940889	-0.680854557	2.85E-04
ENSG00000174574	AKIRIN1	2318.796923	0.179178284	2.85E-04
ENSG00000159860	TCAF2P1	51.20081086	0.438381732	2.85E-04
ENSG00000110435	PDHX	667.3978195	0.199623555	2.85E-04
ENSG00000101049	SGK2	21.13957014	-0.654811022	2.85E-04
ENSG00000278864		477.0226127	0.285042928	2.87E-04
ENSG00000266469		26.95956439	-0.60902948	2.87E-04
ENSG00000264895		231.3432559	-0.29580331	2.88E-04
ENSG00000244731	C4A	38.82940737	0.462006387	2.90E-04
ENSG00000137171	KLC4	535.583499	-0.193416933	2.90E-04
ENSG00000198924	DCLRE1A	216.8331912	0.302282487	2.90E-04
ENSG00000113732	ATP6V0E1	2717.878565	0.289278228	2.90E-04
ENSG00000177556	ATOX1	780.8505531	-0.222690076	2.90E-04
ENSG00000196961	AP2A1	3526.229664	-0.477748182	2.90E-04
ENSG00000101191	DIDO1	5324.868876	-0.104619826	2.90E-04
ENSG00000205300		8.464854169	1.865225772	2.91E-04
ENSG00000214018	RRM2P3	14.69067478	-1.086570222	2.91E-04
ENSG00000261114		74.96801709	-0.476813723	2.91E-04
ENSG00000232645	LINC01431	20.2962638	-0.65102052	2.92E-04
ENSG00000255559	ZNF252P-AS1	90.76823636	0.450737906	2.92E-04
ENSG00000135164	DMTF1	3672.613455	-0.112065909	2.93E-04
ENSG00000231793	DOC2GP	71.66834342	-0.744908791	2.93E-04
ENSG00000103978	TMEM87A	1454.971124	-0.167705069	2.94E-04
ENSG00000140682	TGFB1I1	18.05094444	-0.985708681	2.95E-04
ENSG00000255441	SIGLEC10-AS1	64.32433792	-0.619906967	2.95E-04
ENSG00000108622	ICAM2	1334.729828	0.257705865	2.96E-04
ENSG00000204152	TIMM23B	522.1803598	0.191622852	2.96E-04
ENSG00000186862	PDZD7	24.48750451	-0.707986426	2.97E-04
ENSG00000140284	SLC27A2	52.18463627	0.51868411	2.99E-04
ENSG00000270048		48.47629868	0.628093187	2.99E-04
ENSG00000175730	BAK1P1	28.56573761	-0.595479683	3.00E-04
ENSG00000126012	KDM5C	4497.405156	-0.138494831	3.00E-04
ENSG00000170049	KCNAB3	146.4667633	-0.33135083	3.01E-04
ENSG00000111364	DDX55	722.141444	0.166919318	3.01E-04
ENSG00000177692	DNAJC28	27.53768816	0.810320621	3.02E-04
ENSG00000097096	SYDE2	152.8463563	-0.484521895	3.03E-04
ENSG00000125885	MCM8	352.5181072	0.224723404	3.03E-04
ENSG00000259660	DNM1P47	143.1855463	-0.440824811	3.03E-04
ENSG00000130818	ZNF426	679.5623145	0.179096113	3.04E-04
ENSG00000261532		15.61471066	-0.820945303	3.04E-04
ENSG00000146278	PNRC1	13880.18933	0.345487763	3.04E-04

ENSG00000175170	FAM182B	36.09047994	0.601275552	3.05E-04
ENSG00000281005	LINC00921	945.0393827	-0.274464766	3.05E-04
ENSG00000169621	APLF	494.5980073	0.327195233	3.05E-04
ENSG00000204410	MSH5	49.76944376	-0.547173974	3.05E-04
ENSG00000157191	NECAP2	3408.998144	0.178849604	3.05E-04
ENSG00000224152	BAZ2B-AS1	152.7466163	-0.644207067	3.05E-04
ENSG00000279276		39.48203419	-0.714403395	3.05E-04
ENSG00000196235	SUPT5H	2959.147359	-0.221324312	3.06E-04
ENSG00000183762	KREMEN1	903.0097033	-0.850704848	3.06E-04
ENSG00000121879	PIK3CA	2189.04874	-0.183251396	3.06E-04
ENSG00000162692	VCAM1	24.75843727	1.032306604	3.07E-04
ENSG00000175868	CALCB	61.85412594	0.510809009	3.09E-04
ENSG00000174327	SLC16A13	182.7387231	0.436524927	3.10E-04
ENSG00000158887	MPZ	308.1771541	0.428527293	3.10E-04
ENSG00000058335	RASGRF1	31.21046064	0.749940425	3.11E-04
ENSG00000088340	FER1L4	18.99529395	-0.954939423	3.12E-04
ENSG00000169045	HNRNPH1	9669.902051	-0.206005592	3.12E-04
ENSG00000149948	HMGA2	18.38312596	1.186923343	3.12E-04
ENSG00000253210	DENND3-AS1	154.9373243	0.585474238	3.13E-04
ENSG00000141570	CBX8	122.1239873	-0.349859129	3.13E-04
ENSG00000125534	PPDPF	1146.936973	-0.42085375	3.14E-04
ENSG00000260063		53.29475476	0.365793032	3.14E-04
ENSG00000136045	PWP1	696.5903729	0.163839442	3.14E-04
ENSG00000242578		21.25785073	1.494216568	3.14E-04
ENSG00000235888	LINC02940	21.5755743	1.064160288	3.14E-04
ENSG00000109929	SC5D	883.5581747	0.6717364	3.14E-04
ENSG00000267397		20.74489181	-0.634355259	3.14E-04
ENSG00000160710	ADAR	17791.09704	0.34935819	3.15E-04
ENSG00000204253	HNRNPCP2	41.28550823	0.407525525	3.15E-04
ENSG00000158526	TSR2	422.8274419	-0.249396701	3.16E-04
ENSG00000139970	RTN1	260.8467771	-0.618832607	3.17E-04
ENSG00000233060		21.94065243	0.715166529	3.17E-04
ENSG00000152894	PTPRK	116.1131849	-0.516945584	3.17E-04
ENSG00000136986	DERL1	1939.155752	-0.160443525	3.18E-04
ENSG00000151849	CENPJ	228.73499	0.302850249	3.18E-04
ENSG00000136379	ABHD17C	167.7781635	0.568246213	3.19E-04
ENSG00000141646	SMAD4	2335.25331	-0.130764921	3.19E-04
ENSG00000102908	NFAT5	6353.342881	0.428686981	3.20E-04
ENSG00000110711	AIP	1334.924652	-0.230507653	3.22E-04
ENSG00000224078	SNHG14	1962.995123	-0.216386336	3.22E-04
ENSG00000136450	SRSF1	3909.272148	0.235017096	3.22E-04
ENSG00000175575	PAAF1	291.38075	0.204005601	3.22E-04
ENSG00000185246	PRPF39	891.8966897	0.182873607	3.23E-04
ENSG00000150045	KLRF1	451.1388801	-0.585757033	3.23E-04
ENSG00000168393	DTYMK	313.2429181	0.248296755	3.24E-04
ENSG00000254703	SENCR	31.7987999	-0.713075227	3.24E-04
ENSG00000072803	FBXW11	1534.616235	0.220688326	3.25E-04
ENSG00000200882	RNU6-681P	42.1766425	0.628281504	3.25E-04
ENSG00000203865	ATP1A1-AS1	147.2191585	0.601722577	3.25E-04
ENSG00000103485	QPRT	38.46727399	-0.544616522	3.25E-04
ENSG00000270130		93.38440552	0.543040115	3.26E-04

ENSG00000164048	ZNF589	908.5386833	-0.198444017	3.26E-04
ENSG00000263345	SGSM2-AS1	64.27317071	-0.422169368	3.26E-04
ENSG00000258315	C17orf49	163.6314131	0.313978068	3.26E-04
ENSG00000198932	GPRASP1	954.5206534	-0.319973679	3.26E-04
ENSG00000165406	MARCHF8	5202.616006	-0.581320028	3.27E-04
ENSG00000165506	DNAAF2	231.5961371	0.302073649	3.29E-04
ENSG00000142669	SH3BGR13	2933.640816	-0.367866576	3.29E-04
ENSG00000143156	NME7	212.9282434	0.312765464	3.29E-04
ENSG00000134255	CEPT1	1658.840001	0.3595178	3.29E-04
ENSG00000142002	DPP9	2330.43933	-0.128428672	3.29E-04
ENSG00000263707		24.28409329	0.677973878	3.29E-04
ENSG00000260425		30.25229661	-0.551136472	3.29E-04
ENSG00000052126	PLEKHA5	278.6071514	0.361404887	3.31E-04
ENSG00000152439	ZNF773	292.594966	0.261954533	3.31E-04
ENSG00000132581	SDF2	1143.459823	0.252715982	3.32E-04
ENSG00000160284	SPATC1L	85.22754608	-0.423327928	3.32E-04
ENSG00000196946	ZNF705A	11.08884516	1.532321698	3.32E-04
ENSG00000079393	DUSP13	42.28801188	1.144578547	3.33E-04
ENSG00000173991	TCAP	132.271492	0.458463832	3.34E-04
ENSG00000100403	ZC3H7B	1993.299157	0.175420764	3.35E-04
ENSG00000141258	SGSM2	2280.256986	-0.190338402	3.35E-04
ENSG00000134882	UBAC2	1999.040662	-0.135893836	3.35E-04
ENSG00000277539		203.6877158	-0.416674229	3.35E-04
ENSG00000254614	CAPN1-AS1	123.5624494	-0.634949665	3.35E-04
ENSG00000064961	HMG20B	997.9284	-0.424581213	3.35E-04
ENSG00000261732		66.17521882	0.541126824	3.35E-04
ENSG00000257727	CNPY2	226.7454844	0.215890489	3.36E-04
ENSG00000049247	UTS2	9.883618619	-1.127231383	3.38E-04
ENSG00000185630	PBX1	223.0212985	-0.693621744	3.39E-04
ENSG00000123342	MMP19	1404.441758	2.024736544	3.40E-04
ENSG00000106785	TRIM14	2663.396183	0.319592625	3.41E-04
ENSG00000135045	C9orf40	194.3873749	0.326871202	3.41E-04
ENSG00000269106		31.21240163	-0.561177481	3.41E-04
ENSG00000150764	DIXDC1	102.2393549	-0.619085559	3.41E-04
ENSG00000166012	TAF1D	2923.211692	0.290320652	3.42E-04
ENSG00000004700	RECQL	1558.120027	0.211293378	3.42E-04
ENSG00000254681	PKD1P5	297.5192387	-0.342290284	3.42E-04
ENSG00000269893	SNHG8	643.5826273	0.324942462	3.43E-04
ENSG00000114770	ABCC5	1207.230275	-0.312748686	3.44E-04
ENSG00000274286	ADRA2B	13.20750096	1.028033878	3.44E-04
ENSG00000138029	HADHB	1629.496684	-0.221288861	3.44E-04
ENSG00000277039		23.27299622	0.760518377	3.45E-04
ENSG00000256073	URB1-AS1	31.35758729	-0.665680661	3.45E-04
ENSG00000264608		22.61941578	-0.690519825	3.47E-04
ENSG00000158158	CNNM4	532.6584199	-0.210735969	3.47E-04
ENSG00000182004	SNRPE	469.644633	0.251160971	3.47E-04
ENSG00000213614	HEXA	2079.774335	0.330783436	3.48E-04
ENSG00000105204	DYRK1B	447.045749	-0.253622329	3.48E-04
ENSG00000156463	SH3RF2	8.86763008	-1.15153292	3.48E-04
ENSG00000250764		77.6195536	0.450215136	3.49E-04
ENSG00000257122	RRN3P3	432.3101939	0.185555663	3.49E-04

ENSG00000124383	MPHOSPH10	710.7747058	0.219871203	3.50E-04
ENSG00000211834	TRAJ57	16.94026794	0.654804025	3.51E-04
ENSG00000255186		86.95464638	0.825049204	3.51E-04
ENSG00000204147	ASAH2B	85.49827941	0.495898342	3.52E-04
ENSG00000184730	APOBR	2181.928337	-0.439598246	3.52E-04
ENSG00000213859	KCTD11	241.258212	0.468600553	3.53E-04
ENSG00000103047	TANGO6	1018.557561	0.155806413	3.54E-04
ENSG00000178053	MLF1	14.96885399	-0.847698641	3.54E-04
ENSG00000160445	ZER1	2221.336872	-0.402778957	3.54E-04
ENSG00000072778	ACADVL	4485.896137	-0.24755708	3.54E-04
ENSG00000232373	MTCYBP3	60.85598029	0.489530104	3.55E-04
ENSG00000204231	RXRB	1604.120896	-0.1148778	3.55E-04
ENSG00000110318	CEP126	209.532026	0.272867516	3.56E-04
ENSG00000259363		88.3735857	-0.33138835	3.57E-04
ENSG00000121742	GJB6	58.14724354	-1.132130165	3.57E-04
ENSG00000205726	ITSN1	318.3563095	-0.454010689	3.59E-04
ENSG00000264853		488.9963017	0.463603613	3.59E-04
ENSG00000220267	ACTBP8	22.67540606	-1.453726349	3.60E-04
ENSG00000170776	AKAP13	12954.8529	-0.240801777	3.60E-04
ENSG00000174917	MICOS13	294.4593515	0.264059648	3.60E-04
ENSG00000142192	APP	1404.166607	-0.353823309	3.60E-04
ENSG00000247774	PCED1B-AS1	3131.055982	0.285554574	3.61E-04
ENSG00000112419	PHACTR2	1608.132636	0.241912538	3.63E-04
ENSG00000239577	RN7SL388P	22.36090753	0.680354297	3.64E-04
ENSG00000145703	IQGAP2	3816.670144	-0.369022713	3.64E-04
ENSG00000185483	ROR1	32.12546875	0.681760779	3.64E-04
ENSG00000149516	MS4A3	139.1270813	-0.914944901	3.65E-04
ENSG00000237883	DGUOK-AS1	30.87605034	0.795860525	3.65E-04
ENSG00000260366		21.61084851	-0.699988328	3.66E-04
ENSG00000196371	FUT4	767.4538603	0.330407189	3.67E-04
ENSG00000270689	BUD13P1	18.75364905	0.83947617	3.68E-04
ENSG00000159247	TUBBP5	14.23364492	-1.122964503	3.68E-04
ENSG00000062725	APPBP2	1416.821804	0.183026035	3.69E-04
ENSG00000134109	EDEM1	5429.704303	0.182412456	3.70E-04
ENSG00000135185	TMEM243	1122.945154	-0.272513189	3.72E-04
ENSG00000151553	FHIP2A	1411.787156	-0.291143504	3.73E-04
ENSG00000139505	MTMR6	1999.018422	0.271523647	3.73E-04
ENSG00000112473	SLC39A7	866.9737281	0.272562013	3.73E-04
ENSG00000148341	SH3GLB2	1963.389372	-0.223984898	3.74E-04
ENSG00000238039		37.24695558	-0.496993433	3.76E-04
ENSG00000185236	RAB11B	1512.46062	-0.251780739	3.76E-04
ENSG00000101082	SLA2	2621.28186	0.593527942	3.77E-04
ENSG00000136114	THSD1	31.66773082	-0.598881609	3.78E-04
ENSG00000130653	PNPLA7	285.0717412	-0.414873063	3.78E-04
ENSG00000135424	ITGA7	103.5179175	0.667422754	3.79E-04
ENSG00000254233	LINC02365	21.95077575	0.729624331	3.80E-04
ENSG00000279930		20.26265819	-0.780449829	3.81E-04
ENSG00000164169	PRMT9	443.2402264	0.191369089	3.81E-04
ENSG00000154217	PITPNC1	2958.503297	0.189222637	3.83E-04
ENSG00000157224	CLDN12	100.3123236	0.58866337	3.85E-04
ENSG00000094914	AAAS	530.8715894	0.164330516	3.85E-04

ENSG00000101898	MCTS2	73.47275875	0.364959568	3.85E-04
ENSG00000244165	P2RY11	382.3531012	0.235452383	3.85E-04
ENSG00000100211	CBY1	186.3019975	0.326139126	3.86E-04
ENSG00000268670		293.8949225	-0.287791614	3.86E-04
ENSG00000169410	PTPN9	784.7564121	-0.168621177	3.86E-04
ENSG00000279106		90.39123648	-0.497369402	3.86E-04
ENSG00000185104	FAF1	1037.606215	-0.171044619	3.86E-04
ENSG00000197619	ZNF615	468.1093445	0.27386638	3.87E-04
ENSG00000175894	TSPEAR	14.20191351	-1.550233676	3.88E-04
ENSG00000169085	VXN	26.0759936	-0.613236656	3.88E-04
ENSG00000228323	MYADM-AS1	32.6571943	-0.570634858	3.89E-04
ENSG00000179222	MAGED1	447.0229324	-0.327798842	3.92E-04
ENSG00000114446	IFT57	500.3338171	0.284875471	3.92E-04
ENSG00000279599		18.28461394	-0.619883539	3.96E-04
ENSG00000123374	CDK2	426.2145569	0.25830761	3.96E-04
ENSG00000250067	YJEFN3	98.4801057	0.420346393	3.99E-04
ENSG00000104472	CHRA1	398.2161836	-0.217234636	3.99E-04
ENSG00000171865	RNASEH1	424.9736487	-0.25061006	4.00E-04
ENSG00000162227	TAF6L	281.0667365	0.222752985	4.00E-04
ENSG00000198382	UVRAG	1895.80463	0.309206408	4.00E-04
ENSG00000122390	NAA60	1521.520646	-0.130075522	4.01E-04
ENSG00000104081	BMF	1325.453659	0.488091468	4.02E-04
ENSG00000163235	TGFA	525.9459371	-0.580371327	4.02E-04
ENSG00000184988	TMEM106A	1189.904231	0.687982164	4.02E-04
ENSG00000114023	FAM162A	274.5487857	-0.33278116	4.03E-04
ENSG00000139180	NDUFA9	572.2115425	0.185621353	4.03E-04
ENSG00000280434		320.7079513	0.470244456	4.03E-04
ENSG00000253399		34.05250632	-0.724211106	4.04E-04
ENSG00000049656	CLPTM1L	1752.296898	0.177549688	4.04E-04
ENSG00000260470		25.70916151	-0.696594639	4.05E-04
ENSG00000183918	SH2D1A	842.6169163	-0.257824784	4.05E-04
ENSG00000284292		56.61642221	-0.481062645	4.07E-04
ENSG00000219085	NPM1P37	128.7549141	-0.328389354	4.08E-04
ENSG00000221978	CCNL2	4301.908353	-0.123357382	4.08E-04
ENSG00000180481	GLIPR1L2	35.69732243	0.686696889	4.11E-04
ENSG00000163930	BAP1	2089.265967	-0.194657684	4.12E-04
ENSG00000224003	YES1P1	166.2686995	0.568739857	4.13E-04
ENSG00000205018		13.8782874	-0.969593606	4.13E-04
ENSG00000168159	RNF187	1556.076325	-0.270482177	4.13E-04
ENSG00000127125	PPCS	763.7245033	-0.171211742	4.14E-04
ENSG00000254273		24.70226829	-0.629779621	4.15E-04
ENSG00000182173	TSEN54	1122.083489	0.300564016	4.16E-04
ENSG00000100147	CCDC134	414.4653979	-0.24659045	4.17E-04
ENSG00000135698	MPHOSPH6	357.0301238	0.272795466	4.17E-04
ENSG00000248008	NRAV	42.81146563	0.774129547	4.19E-04
ENSG00000243746	EEF1A1P10	46.2193723	-0.467990314	4.20E-04
ENSG00000215187	FAM166B	17.14317358	0.787567709	4.20E-04
ENSG00000186111	PIP5K1C	1319.320485	-0.187668567	4.20E-04
ENSG00000118007	STAG1	2498.864773	-0.144476661	4.21E-04
ENSG00000099810	MTAP	634.2721165	-0.201775687	4.21E-04
ENSG00000176714	CCDC121	34.28124167	-0.59686252	4.22E-04

ENSG00000088682	COQ9	449.3162147	0.208705478	4.22E-04
ENSG00000069424	KCNAB2	6550.506138	-0.293191672	4.23E-04
ENSG00000143318	CASQ1	6.229961677	1.882172202	4.23E-04
ENSG00000116863	ADPRS	614.6568069	0.256289697	4.24E-04
ENSG00000123353	ORMDL2	669.7011099	0.321068395	4.24E-04
ENSG00000103260	METRN	137.3898514	-0.341482041	4.26E-04
ENSG00000090565	RAB11FIP3	913.8043765	0.262577563	4.26E-04
ENSG00000256006		50.4814838	0.460401422	4.26E-04
ENSG00000161847	RAVER1	729.6254269	-0.252122337	4.26E-04
ENSG00000235449		18.23090452	-0.762474194	4.27E-04
ENSG00000113312	TTC1	811.6546093	0.186914358	4.28E-04
ENSG00000282420	TRBJ1-2	95.13214943	0.634803426	4.28E-04
ENSG00000179981	TSHZ1	1031.656308	-0.213084349	4.29E-04
ENSG00000279989		20.12465517	0.805500204	4.29E-04
ENSG00000160058	BSDC1	2593.079535	-0.106847676	4.29E-04
ENSG00000100575	TIMM9	239.5712917	0.248891429	4.29E-04
ENSG00000104043	ATP8B4	983.3343345	-0.526289952	4.30E-04
ENSG00000254427	LINC02696	21.89737201	0.681833351	4.31E-04
ENSG00000096401	CDC5L	1750.336315	0.162042259	4.31E-04
ENSG00000108219	TSPAN14	8056.766707	-0.182045298	4.32E-04
ENSG00000270923	TAS2R6P	29.67541939	0.711302137	4.33E-04
ENSG00000264429	MIR3183	34.0472889	0.66304573	4.34E-04
ENSG00000108639	SYNGR2	2851.138895	0.244418218	4.35E-04
ENSG00000135253	KCP	23.81473651	0.723268261	4.35E-04
ENSG00000159231	CBR3	53.94465367	-0.566977819	4.36E-04
ENSG00000168792	ABHD15	1023.642107	0.321061178	4.37E-04
ENSG00000275332		16.24749532	0.832627259	4.39E-04
ENSG00000164292	RHOBTB3	726.248252	0.50062469	4.40E-04
ENSG00000108578	BLMH	805.3370198	0.303113146	4.40E-04
ENSG00000279394		150.613739	0.600301412	4.40E-04
ENSG00000114030	KPNA1	2229.580753	0.255178014	4.40E-04
ENSG00000279764		39.2383035	1.000641934	4.41E-04
ENSG00000260261		211.6913661	0.401019597	4.41E-04
ENSG00000178761	FAM219B	1015.457094	-0.151891625	4.41E-04
ENSG00000225527		32.65502887	0.479144771	4.42E-04
ENSG00000037749	MFAP3	743.9905382	0.279422817	4.42E-04
ENSG00000261801	LOXL1-AS1	171.5136827	-0.30262621	4.43E-04
ENSG00000083814	ZNF671	651.7525889	0.258335841	4.45E-04
ENSG00000136158	SPRY2	152.5774305	-0.780543704	4.49E-04
ENSG00000259959		155.1164619	-0.413369589	4.49E-04
ENSG00000259479	SORD2P	21.71579055	-0.598101732	4.52E-04
ENSG00000260955		26.21312977	0.522344646	4.52E-04
ENSG00000165512	ZNF22	674.4176074	0.255994226	4.52E-04
ENSG00000204172	AGAP9	178.3326525	-0.305048247	4.52E-04
ENSG00000204564	C6orf136	215.5171346	-0.234657168	4.52E-04
ENSG00000272606	PPP4R3B-DT	154.6932492	-0.303915706	4.53E-04
ENSG00000225783	MIAT	6866.568694	0.421681803	4.53E-04
ENSG00000161298	ZNF382	265.4457567	0.203859819	4.53E-04
ENSG00000179082	LINC02913	139.6059987	-0.692030494	4.53E-04
ENSG00000141971	MVB12A	462.0487456	-0.195534153	4.54E-04
ENSG00000224451	ATP5PBP1	67.81097151	-0.342512486	4.56E-04

ENSG00000156709	AIFM1	330.100299	0.24718876	4.58E-04
ENSG00000169710	FASN	1515.811954	0.395462213	4.59E-04
ENSG00000228808	HMGB3P4	114.9650674	-0.307722812	4.60E-04
ENSG00000110880	CORO1C	2745.934007	-0.431579664	4.60E-04
ENSG00000121966	CXCR4	28903.651	0.547235067	4.60E-04
ENSG00000143297	FCRL5	367.2829526	-0.756026866	4.60E-04
ENSG00000167772	ANGPTL4	39.66716309	1.656921299	4.60E-04
ENSG00000166147	FBN1	95.89358641	0.563327045	4.60E-04
ENSG00000188868	ZNF563	178.885726	0.404948058	4.61E-04
ENSG00000141526	SLC16A3	10574.10972	0.408115386	4.62E-04
ENSG00000066044	ELAVL1	1454.564517	0.158960303	4.64E-04
ENSG00000119946	CNNM1	13.03621865	0.733475423	4.65E-04
ENSG00000211685	IGLC7	13.64316019	-1.104905508	4.65E-04
ENSG00000138413	IDH1	810.305019	-0.465178056	4.66E-04
ENSG00000173914	RBM4B	301.7693918	0.266859672	4.66E-04
ENSG00000196890	H2BU1	275.374092	-0.503984872	4.67E-04
ENSG00000185561	TLCD2	52.56329922	-0.69501085	4.67E-04
ENSG00000129354	AP1M2	17.22940088	-1.444977071	4.70E-04
ENSG00000131652	THOC6	344.1355965	0.241950906	4.70E-04
ENSG00000076650	GPATCH1	412.4353071	0.18077294	4.73E-04
ENSG00000068097	HEATR6	529.6920302	0.195066179	4.73E-04
ENSG00000269938		93.05897903	0.479102809	4.74E-04
ENSG00000263642	MIR4802	19.38123788	0.846526668	4.75E-04
ENSG00000164125	GASK1B	928.781539	-0.728816219	4.75E-04
ENSG00000277692		17.07806673	0.75607108	4.76E-04
ENSG00000108175	ZMIZ1	4379.295912	0.510682843	4.76E-04
ENSG00000201469	RNA5SP379	15.73243576	0.770121833	4.76E-04
ENSG00000150991	UBC	22082.12277	-0.362457396	4.77E-04
ENSG00000106686	SPATA6L	98.97376258	-0.390718618	4.78E-04
ENSG00000217555	CKLF	550.1419276	-0.548294952	4.78E-04
ENSG00000120549	KIAA1217	11.7930249	0.827549139	4.82E-04
ENSG00000261098		212.12456	-0.315436278	4.82E-04
ENSG00000118997	DNAH7	9.875886107	-1.326724088	4.84E-04
ENSG00000139133	ALG10	318.0770338	0.201301164	4.85E-04
ENSG00000248079	DPH6-DT	24.78315653	0.538467978	4.85E-04
ENSG00000087303	NID2	12.61477115	-1.421525898	4.85E-04
ENSG00000226738		14.37186992	1.15402963	4.85E-04
ENSG00000207280	SNORD20	23.79097205	-0.649140174	4.86E-04
ENSG00000102901	CENPT	986.3120755	-0.206885475	4.87E-04
ENSG00000164615	CAMLG	634.0976555	-0.21136111	4.87E-04
ENSG00000274536	MIR223HG	3050.752124	0.863332136	4.87E-04
ENSG00000106100	NOD1	836.675453	-0.239833043	4.87E-04
ENSG00000181031	RPH3AL	225.0349279	-0.467561732	4.88E-04
ENSG00000120949	TNFRSF8	253.4585242	0.526063765	4.90E-04
ENSG00000233030		98.27462824	0.871659109	4.90E-04
ENSG00000000938	FGR	11004.82341	0.547845861	4.90E-04
ENSG00000100201	DDX17	39027.27801	-0.11892693	4.91E-04
ENSG00000255769	GOLGA2P10	335.0164206	0.262697469	4.91E-04
ENSG00000110375	UPK2	18.44866801	0.88683806	4.95E-04
ENSG00000280120		100.6270934	-0.288813745	4.95E-04
ENSG00000228393	LINC01004	162.8504756	0.324686516	4.95E-04

ENSG00000092140	G2E3	1013.44377	-0.166810636	4.96E-04
ENSG00000256682		21.82511214	-0.698171153	4.97E-04
ENSG00000260947		9.131247609	-0.985777417	4.97E-04
ENSG00000115539	PDCL3	214.3319393	0.313133091	4.98E-04
ENSG00000088247	KHSRP	2618.487026	0.179198701	4.98E-04
ENSG00000149532	CPSF7	2961.835189	0.118606578	4.99E-04
ENSG00000229151		134.8255932	-0.297079229	4.99E-04
ENSG00000253532		26.10400787	0.740949721	4.99E-04
ENSG00000235590	GNAS-AS1	34.32760616	0.537968652	4.99E-04
ENSG00000104164	BLOC1S6	1936.22099	-0.267570456	5.00E-04
ENSG00000184939	ZFP90	1206.326146	0.186293245	5.01E-04
ENSG00000178162	FAR2P2	11.99421161	-1.001488226	5.02E-04
ENSG00000253738	OTUD6B-AS1	646.9292166	0.319337967	5.03E-04
ENSG00000078369	GNB1	7702.818316	0.276131518	5.04E-04
ENSG00000138018	SELENOI	848.5357487	0.174860149	5.04E-04
ENSG00000245685	FRG1-DT	52.58864923	0.461575481	5.05E-04
ENSG00000282961	PRNCR1	133.1902416	-0.464287805	5.05E-04
ENSG00000103024	NME3	487.8246966	-0.410364935	5.05E-04
ENSG00000207588	MIR593	29.28516188	-0.603830359	5.06E-04
ENSG00000184867	ARMCX2	139.746535	0.307670369	5.06E-04
ENSG00000165914	TTC7B	246.9266292	-0.431625729	5.07E-04
ENSG00000263142	LRRC37A17P	111.5031538	-0.440823445	5.07E-04
ENSG00000182858	ALG12	735.3711816	-0.231416845	5.07E-04
ENSG00000196141	SPATS2L	440.6573118	0.78550581	5.08E-04
ENSG00000173065	FAM222B	402.4428318	0.304345419	5.08E-04
ENSG00000274561		174.2504522	-0.301779978	5.09E-04
ENSG00000206149	HERC2P9	499.2867124	-0.192382157	5.10E-04
ENSG00000116288	PARK7	1802.177076	0.234427182	5.10E-04
ENSG00000105501	SIGLEC5	289.5793352	1.053496274	5.11E-04
ENSG00000138646	HERC5	2264.450488	0.917224265	5.11E-04
ENSG00000075539	FRYL	4527.326475	-0.18187997	5.12E-04
ENSG00000167113	COQ4	619.7841662	0.179983674	5.12E-04
ENSG00000064933	PMS1	701.703483	0.171092323	5.12E-04
ENSG00000280138		2796.74762	0.282588129	5.12E-04
ENSG00000115042	FAHD2A	522.0831411	-0.223528459	5.13E-04
ENSG00000283138		28.26008391	0.610994582	5.17E-04
ENSG00000235781	LINC02569	34.03759622	0.503098125	5.17E-04
ENSG00000111110	PPM1H	70.11175231	-0.901923168	5.18E-04
ENSG00000261087	ZNNT1	197.230448	0.765101824	5.22E-04
ENSG00000231721	LINC-PINT	3654.320369	-0.195192036	5.22E-04
ENSG00000250251	PKD1P6	422.6841295	-0.275553259	5.23E-04
ENSG00000177294	FBXO39	88.21465959	0.886143211	5.26E-04
ENSG00000183060	LYSMD4	356.8217817	-0.246016584	5.27E-04
ENSG00000102174	PHEX	39.78813102	-0.489854026	5.29E-04
ENSG00000168610	STAT3	8269.369371	0.281171995	5.29E-04
ENSG00000242472	IGHJ5	122.1616155	0.53030007	5.31E-04
ENSG00000126709	IFI6	4115.001765	0.976192685	5.32E-04
ENSG00000167889	MGAT5B	60.48606417	1.228416143	5.33E-04
ENSG00000227896	WAPL-DT	69.74696559	0.37739239	5.34E-04
ENSG00000119203	CPSF3	429.3041224	0.181885493	5.34E-04
ENSG00000181029	TRAPPC5	277.5585222	0.460074737	5.37E-04

ENSG00000198901	PRC1	149.1167879	-0.362916205	5.38E-04
ENSG00000185305	ARL15	434.3445636	-0.306479048	5.39E-04
ENSG00000006695	COX10	393.5283487	0.163847279	5.39E-04
ENSG00000085433	WDR47	515.4588894	-0.196976093	5.39E-04
ENSG00000083312	TNPO1	3980.036576	0.241347116	5.40E-04
ENSG00000173349	SFT2D3	420.6792199	-0.251406205	5.44E-04
ENSG00000267152		93.29299465	0.292820032	5.46E-04
ENSG00000168569	TMEM223	280.5066871	0.376866534	5.46E-04
ENSG00000261097	LINC00563	26.67795869	0.810236421	5.46E-04
ENSG00000235381		170.6279397	0.346534793	5.46E-04
ENSG00000212128	TAS2R13	38.29663375	-0.479266282	5.47E-04
ENSG00000138777	PPA2	927.9386578	-0.234595322	5.48E-04
ENSG00000142794	NBPF3	331.3515252	-0.214734053	5.48E-04
ENSG00000158089	GALNT14	43.80963564	-0.971633174	5.49E-04
ENSG00000196569	LAMA2	29.70165517	-0.923661446	5.50E-04
ENSG00000158869	FCER1G	3649.343121	0.547339909	5.51E-04
ENSG00000119917	IFIT3	7975.756294	1.124657109	5.51E-04
ENSG00000230330	HMG2P3	47.13310952	-0.49185946	5.51E-04
ENSG00000069020	MAST4	803.3123675	-0.268105772	5.53E-04
ENSG00000147138	GPR174	612.6792191	0.24907449	5.55E-04
ENSG00000261373	VPS9D1-AS1	47.19275461	0.524322845	5.55E-04
ENSG00000165501	LRR1	329.0781975	0.256118896	5.55E-04
ENSG00000107201	DDX58	3507.846665	0.63757251	5.55E-04
ENSG00000146409	SLC18B1	340.1125604	-0.309653032	5.58E-04
ENSG00000167196	FBXO22	1028.068239	0.170158748	5.59E-04
ENSG00000258620		37.42275332	0.488645562	5.60E-04
ENSG00000121933	TMIGD3	66.148213	-0.906992435	5.60E-04
ENSG00000276390		16.84936977	-0.65502398	5.62E-04
ENSG00000251634	NAIPP4	74.5541424	-0.353818389	5.63E-04
ENSG00000112159	MDN1	3185.157718	0.288806565	5.64E-04
ENSG00000139618	BRCA2	455.1806549	0.377693041	5.64E-04
ENSG00000165119	HNRNPK	10699.8455	-0.13634131	5.65E-04
ENSG00000073584	SMARCE1	1310.285791	-0.141617134	5.66E-04
ENSG00000261485	PAN3-AS1	121.4800116	0.304881363	5.67E-04
ENSG00000280270		15.69624251	1.043828571	5.71E-04
ENSG00000211690	TRGJ1	20.35249651	0.822583851	5.71E-04
ENSG00000169255	B3GALNT1	60.09208956	-0.816077156	5.74E-04
ENSG00000082293	COL19A1	501.8025446	0.353632226	5.78E-04
ENSG00000264167		61.99352607	0.586719319	5.78E-04
ENSG00000226240	LINC00381	24.73889859	-0.690818662	5.80E-04
ENSG00000227055		19.52327439	-0.608862463	5.81E-04
ENSG00000273017		67.97576419	0.525533132	5.81E-04
ENSG00000188611	ASAH2	19.94020393	0.67008747	5.84E-04
ENSG00000198574	SH2D1B	891.6422063	0.598214266	5.85E-04
ENSG00000107438	PDLIM1	329.5439654	-0.459451509	5.85E-04
ENSG00000113407	TARS1	1084.412045	0.312435631	5.86E-04
ENSG00000172345	STARD5	224.1037294	0.275471167	5.86E-04
ENSG00000198373	WWP2	2831.836571	-0.240852856	5.86E-04
ENSG00000182759	MAFA	21.65406619	0.861911939	5.86E-04
ENSG00000119684	MLH3	1018.879743	0.137162768	5.86E-04
ENSG00000127533	F2RL3	8.465934057	-1.189162794	5.89E-04

ENSG00000229947		14.92698807	0.759848425	5.89E-04
ENSG00000168214	RBPJ	2868.522124	-0.269516194	5.89E-04
ENSG00000056277	ZNF280C	201.4395887	0.224509121	5.91E-04
ENSG00000196821	ILRUN	3332.038461	0.227115363	5.93E-04
ENSG00000151689	INPP1	327.577224	0.625641694	5.94E-04
ENSG00000168005	SPINDOC	298.3861629	0.27934476	5.94E-04
ENSG00000168566	SNRNP48	671.545132	-0.17597248	5.94E-04
ENSG00000006704	GTF2IRD1	39.45465498	0.725253594	5.95E-04
ENSG00000106682	EIF4H	5201.830104	-0.139178398	5.96E-04
ENSG00000112146	FBXO9	1819.268952	-0.308730067	5.96E-04
ENSG00000156374	PCGF6	195.4355715	0.27879218	5.96E-04
ENSG00000182134	TDRKH	230.1288202	0.21021168	5.99E-04
ENSG00000166851	PLK1	123.4068981	0.508389815	6.00E-04
ENSG00000258904		108.681544	0.334970122	6.00E-04
ENSG00000133606	MKRN1	8210.92919	-0.559289518	6.01E-04
ENSG00000260966		113.9526709	-0.321981383	6.01E-04
ENSG00000273160		228.0881561	-0.390332867	6.01E-04
ENSG00000246225		40.8364523	0.448645452	6.01E-04
ENSG00000260193	LINC02846	30.28573437	-0.548715359	6.02E-04
ENSG00000274471		80.05150275	-0.349924974	6.03E-04
ENSG00000114978	MOB1A	7164.489412	-0.221705681	6.04E-04
ENSG00000115661	STK16	591.1368125	-0.342469192	6.04E-04
ENSG00000260114		211.8440262	0.406141765	6.11E-04
ENSG00000256053	COA8	244.6971393	-0.182372224	6.12E-04
ENSG00000166938	DIS3L	746.5784467	-0.20726388	6.13E-04
ENSG00000221340	RNU6ATAC18P	29.10190644	-0.488160689	6.14E-04
ENSG00000238152	OR7E140P	33.41765587	1.294010497	6.14E-04
ENSG00000159899	NPR2	99.35592608	0.490539779	6.20E-04
ENSG00000266338	NBPF15	1350.808727	-0.20588825	6.21E-04
ENSG00000264187		17.1770426	0.616750611	6.22E-04
ENSG00000271254		210.9137053	-0.243351944	6.22E-04
ENSG00000149212	SESN3	10213.81596	0.440455144	6.22E-04
ENSG00000178665	ZNF713	57.6668341	0.478398997	6.23E-04
ENSG00000207109	SNORD38C	24.7294894	-0.604356727	6.23E-04
ENSG00000137959	IFI44L	5641.71188	1.451411185	6.23E-04
ENSG00000281195		470.4698524	0.335604624	6.24E-04
ENSG00000111237	VPS29	1379.934164	-0.182878208	6.25E-04
ENSG00000264781	MIR4537	45.52262301	0.590973349	6.26E-04
ENSG00000171530	TBCA	238.2160107	0.290385141	6.26E-04
ENSG00000280248		190.0896372	0.55674318	6.26E-04
ENSG00000255655		34.42737428	0.418853754	6.27E-04
ENSG00000265478		23.53748438	0.737249024	6.27E-04
ENSG00000130669	PAK4	426.9585416	0.25426904	6.27E-04
ENSG00000184216	IRAK1	3922.316525	0.451525118	6.28E-04
ENSG00000266104	MIR4326	23.32880468	-0.557325697	6.28E-04
ENSG00000005302	MSL3	2954.32608	0.205497019	6.28E-04
ENSG00000157181	ODR4	663.0720346	0.178350398	6.29E-04
ENSG00000206567		18.29041458	-0.836928838	6.29E-04
ENSG00000079974	RABL2B	623.7701914	0.209355276	6.29E-04
ENSG00000184489	PTP4A3	612.2522375	-0.568179959	6.30E-04
ENSG00000163959	SLC51A	7.854034769	-1.565131023	6.30E-04

ENSG00000089127	OAS1	2728.18066	0.943894891	6.33E-04
ENSG00000003096	KLHL13	17.71208058	-0.629586293	6.36E-04
ENSG00000283498	MIR1244-2	77.53911463	0.428306794	6.37E-04
ENSG00000203993	ARRDC1-AS1	417.8542748	0.242732347	6.38E-04
ENSG00000170464	DNAJC18	176.7708856	0.319319931	6.38E-04
ENSG00000204525	HLA-C	63508.34455	-0.283749132	6.39E-04
ENSG00000169967	MAP3K2	5537.258343	-0.281474229	6.39E-04
ENSG00000033122	LRRC7	47.50226184	-0.789462044	6.40E-04
ENSG00000213279		115.6073823	-0.609261333	6.40E-04
ENSG00000270000		33.24911781	0.72747241	6.40E-04
ENSG00000224965	KCNC4-DT	20.26894136	0.572834698	6.41E-04
ENSG00000186615	KTN1-AS1	39.25167013	0.429122679	6.41E-04
ENSG00000183605	SFXN4	247.4430047	0.24995898	6.41E-04
ENSG00000175582	RAB6A	2634.801328	-0.149003184	6.41E-04
ENSG00000114354	TFG	1402.077712	0.174230061	6.44E-04
ENSG00000250644		398.9810135	0.825254417	6.44E-04
ENSG00000196218	RYR1	63.86339925	-0.450920711	6.45E-04
ENSG00000164002	EXO5	219.5842595	0.259649472	6.46E-04
ENSG00000197181	PIWIL2	28.85979373	-0.620389388	6.47E-04
ENSG00000054654	SYNE2	12202.11925	-0.325923815	6.50E-04
ENSG00000198835	GJC2	53.91699414	-0.486221402	6.50E-04
ENSG00000067225	PKM	11683.39371	0.376827855	6.51E-04
ENSG00000148337	CIZ1	1531.264044	-0.160636661	6.51E-04
ENSG00000161267	BDH1	576.7530831	-0.280028123	6.51E-04
ENSG00000013573	DDX11	628.6774117	0.199239256	6.52E-04
ENSG00000171848	RRM2	124.31238	-0.806674899	6.52E-04
ENSG00000143344	RGL1	1686.175028	1.419139327	6.53E-04
ENSG00000137492	THAP12	2059.049342	0.165197987	6.53E-04
ENSG00000070831	CDC42	8191.805282	-0.22216725	6.57E-04
ENSG00000135404	CD63	2700.885178	0.466765356	6.57E-04
ENSG00000006459	KDM7A	5269.876689	-0.263388995	6.57E-04
ENSG00000134440	NARS1	1846.485351	0.177231962	6.57E-04
ENSG00000265531	FCGR1CP	114.7096815	-1.362208369	6.60E-04
ENSG00000254409		38.77504851	0.432834703	6.62E-04
ENSG00000085224	ATRX	4072.457323	-0.185158069	6.63E-04
ENSG00000234902		24.73227928	-0.661072998	6.63E-04
ENSG00000141522	ARHGDIA	5588.665339	0.208829517	6.64E-04
ENSG00000089220	PEBP1	1038.354964	-0.336956207	6.64E-04
ENSG00000167670	CHAF1A	379.0755907	-0.388899159	6.67E-04
ENSG00000200120		20.71421054	-0.571826932	6.67E-04
ENSG00000228113		18.00334223	0.615453874	6.67E-04
ENSG00000106028	SSBP1	908.9797071	-0.222792725	6.68E-04
ENSG00000170919	TPT1-AS1	827.7160837	-0.232715044	6.69E-04
ENSG00000233673	ANAPC1P1	37.66241439	-0.562126588	6.70E-04
ENSG00000160917	CPSF4	706.2581071	0.17081175	6.70E-04
ENSG00000187510	PLEKHG7	50.88999252	0.761259033	6.71E-04
ENSG00000125351	UPF3B	388.1942748	0.279942527	6.71E-04
ENSG00000132259	CNGA4	15.27410942	-0.882947349	6.72E-04
ENSG00000268598	VN1R80P	20.35379594	0.878482191	6.72E-04
ENSG00000122877	EGR2	772.258673	0.860210916	6.73E-04
ENSG00000244618	RN7SL334P	34.8090338	0.518770476	6.73E-04

ENSG00000179021	C3orf38	1046.727664	-0.198664296	6.74E-04
ENSG00000103313	MEFV	3651.606662	-0.569257705	6.74E-04
ENSG00000280279	LINC02887	15.15259472	-1.07571058	6.76E-04
ENSG00000113296	THBS4	33.33635742	-0.754732585	6.76E-04
ENSG00000161091	MFSD12	2250.596209	0.349772216	6.77E-04
ENSG00000167193	CRK	1823.070414	0.367089652	6.78E-04
ENSG00000119535	CSF3R	29709.08025	-0.939639421	6.81E-04
ENSG00000105339	DENND3	10629.41084	-0.408836403	6.82E-04
ENSG00000163781	TOPBP1	1437.960709	-0.123916597	6.84E-04
ENSG00000186665	C17orf58	47.49171517	-0.513732575	6.84E-04
ENSG00000247317	LY6E-DT	71.77347341	0.756097179	6.85E-04
ENSG00000256116		63.2227156	0.407245168	6.87E-04
ENSG00000278861		19.33342387	0.635812678	6.87E-04
ENSG00000107771	CCSER2	4178.033979	0.286099682	6.87E-04
ENSG00000274425		63.42458073	0.396369854	6.87E-04
ENSG00000133111	RFXAP	225.1702316	0.238374323	6.89E-04
ENSG00000281468		19.2628599	0.735445242	6.91E-04
ENSG00000183808	RBM12B	2637.797264	0.275151273	6.91E-04
ENSG00000199023	MIR339	21.51147363	-0.623670508	6.92E-04
ENSG00000103932	RPAP1	527.4374438	0.217091043	6.94E-04
ENSG00000258819	LINC02289	183.8663961	-1.529138256	6.95E-04
ENSG00000249140	PRDX2P3	54.67031614	0.453227423	6.97E-04
ENSG00000259291	ZNF710-AS1	241.4346853	-0.22940425	6.99E-04
ENSG00000208018	MIR645	82.75396478	-0.547992781	6.99E-04
ENSG00000131697	NPHP4	510.2832441	0.25433912	7.00E-04
ENSG00000153094	BCL2L11	1934.668351	0.185356426	7.00E-04
ENSG00000229325	ACAP2-IT1	155.922675	-0.368772179	7.02E-04
ENSG00000186715	MST1L	18.6243677	-0.7256068	7.02E-04
ENSG00000130726	TRIM28	3468.386872	0.178740157	7.03E-04
ENSG00000213976		60.29129342	0.426653606	7.05E-04
ENSG00000188636	RTL6	845.1409362	0.224014236	7.05E-04
ENSG00000267895		21.38319339	-0.97017439	7.05E-04
ENSG00000258199		155.1547722	-0.279962654	7.09E-04
ENSG00000164880	INTS1	3051.131751	-0.193684227	7.10E-04
ENSG00000154511	DIPK1A	398.6333708	0.322834863	7.10E-04
ENSG00000125779	PANK2	2409.844307	-0.179853424	7.11E-04
ENSG00000186162	CIDECP1	281.3176087	-0.292592904	7.12E-04
ENSG00000196757	ZNF700	504.7763731	-0.215619872	7.13E-04
ENSG00000121289	CEP89	419.0459444	0.231710314	7.14E-04
ENSG00000129566	TEP1	3800.577585	-0.289979144	7.15E-04
ENSG00000176261	ZBTB8OS	579.752365	-0.148908895	7.16E-04
ENSG00000092871	RFFL	3737.321464	0.389616165	7.16E-04
ENSG00000275857		42.14629101	0.533158307	7.17E-04
ENSG00000007341	ST7L	530.9923371	0.192111959	7.17E-04
ENSG00000240350	SOCAR	13.1964857	-0.929874086	7.18E-04
ENSG00000186951	PPARA	862.4397877	-0.158570964	7.18E-04
ENSG00000272316		268.8151366	-0.25049325	7.20E-04
ENSG00000260924	LINC01311	75.31269118	0.362818272	7.23E-04
ENSG00000267672		58.06875763	0.454709254	7.23E-04
ENSG00000182866	LCK	4257.539039	-0.208741174	7.23E-04
ENSG00000276471		50.20155671	1.007026394	7.24E-04

ENSG00000241868	RN7SL434P	34.63102084	-0.44621365	7.25E-04
ENSG00000269743	SLC25A53	608.6664905	0.521068045	7.25E-04
ENSG00000174891	RSRC1	586.9096543	-0.268336151	7.33E-04
ENSG00000263675	MIR5581	23.133029	0.560027705	7.34E-04
ENSG00000273084		26.2448662	-0.854853145	7.35E-04
ENSG00000167487	KLHL26	366.4318655	-0.250531683	7.36E-04
ENSG00000144426	NBEAL1	863.6687179	0.204251421	7.39E-04
ENSG00000108691	CCL2	11460.43359	2.312532476	7.39E-04
ENSG00000135119	RNFT2	113.1389938	-0.324084356	7.40E-04
ENSG00000164167	LSM6	443.8906325	-0.252062749	7.42E-04
ENSG00000174749	FAM241A	292.2771616	0.289173427	7.43E-04
ENSG00000106290	TAF6	642.9433931	-0.167682348	7.45E-04
ENSG00000141252	VPS53	2828.524503	-0.136479996	7.45E-04
ENSG00000010256	UQCRC1	1701.695775	-0.197612124	7.53E-04
ENSG00000113282	CLINT1	2168.193896	-0.131237499	7.53E-04
ENSG00000239203		20.08239948	-0.599542765	7.54E-04
ENSG00000227066		6.661400222	-2.067232895	7.54E-04
ENSG00000239779	WBP1	447.8585991	-0.203875169	7.54E-04
ENSG00000197620	EOLA1	329.7432816	-0.208026807	7.55E-04
ENSG00000065802	ASB1	1296.545233	0.197851317	7.57E-04
ENSG00000130052	STARD8	459.5957205	0.770350451	7.57E-04
ENSG00000181690	PLAG1	349.1711596	-0.222542588	7.60E-04
ENSG00000147144	CCDC120	207.696828	-0.292322447	7.60E-04
ENSG00000204713	TRIM27	2245.185501	0.214882853	7.61E-04
ENSG00000184613	NELL2	2849.610444	0.290588656	7.63E-04
ENSG00000178440	TIMM23B-AGAP6	86.80938747	0.363484566	7.63E-04
ENSG00000079616	KIF22	1082.29754	-0.18089682	7.65E-04
ENSG00000059769	DNAJC25	162.0154703	-0.446906809	7.70E-04
ENSG00000179406	LINC00174	650.5061442	0.213038999	7.75E-04
ENSG00000119632	IFI27L2	192.9068787	-0.353950286	7.76E-04
ENSG00000238121	LINC00426	972.9271023	0.433365736	7.76E-04
ENSG00000136068	FLNB	2719.162825	-0.38466378	7.77E-04
ENSG00000185122	HSF1	1878.494928	-0.159563189	7.79E-04
ENSG00000262468	LINC01569	127.2245874	0.299582478	7.80E-04
ENSG00000141665	FBXO15	39.16388286	0.524892413	7.81E-04
ENSG00000148950	IMMP1L	212.9592601	0.236231459	7.82E-04
ENSG00000248098	BCKDHA	36.0196963	-0.440016086	7.82E-04
ENSG00000165209	STRBP	904.1184103	-0.191022063	7.82E-04
ENSG00000096060	FKBP5	4769.672784	0.311932865	7.86E-04
ENSG00000115053	NCL	4161.190689	0.24932339	7.86E-04
ENSG00000167703	SLC43A2	9199.81782	0.523302022	7.87E-04
ENSG00000248309	MEF2C-AS1	91.78728328	-0.384542806	7.87E-04
ENSG00000169696	ASPSCR1	635.7854998	0.203693635	7.88E-04
ENSG00000211696	TRGV8	67.41826159	0.552930392	7.91E-04
ENSG00000167664	TMIGD2	456.8315722	0.332217676	7.91E-04
ENSG00000275888		320.5990733	-0.648121042	7.92E-04
ENSG00000166289	PLEKHF1	755.7051035	0.429039885	7.92E-04
ENSG00000122188	LAX1	711.7933104	0.267723079	7.96E-04
ENSG00000171475	WIPF2	1815.883368	0.247533487	7.96E-04
ENSG00000136451	VEZF1	2184.298347	-0.17293623	7.96E-04
ENSG00000267241	CYP4F10P	12.38886578	-1.165467439	7.98E-04

ENSG00000102078	SLC25A14	122.0457581	-0.247654034	7.99E-04
ENSG00000214975	PPIAP29	21.99713726	-0.655127983	8.01E-04
ENSG00000119711	ALDH6A1	299.3370988	-0.234406158	8.03E-04
ENSG00000103326	CAPN15	2508.577182	0.27626516	8.03E-04
ENSG00000080986	NDC80	169.2490144	-0.345355094	8.05E-04
ENSG00000113356	POLR3G	33.22786876	0.522072912	8.06E-04
ENSG00000041880	PARP3	173.5320418	-0.29201506	8.06E-04
ENSG00000196705	ZNF431	1200.076655	0.178243404	8.07E-04
ENSG00000230470		51.44898195	0.653182855	8.07E-04
ENSG00000276023	DUSP14	75.72800415	0.289066451	8.07E-04
ENSG00000049883	PTCD2	469.8969643	0.179497501	8.08E-04
ENSG00000112282	MED23	1604.777678	-0.151577124	8.10E-04
ENSG00000269388		27.21720871	0.654894832	8.11E-04
ENSG00000164187	LMBRD2	900.4791349	0.166114598	8.12E-04
ENSG00000239827	SUGT1P3	129.2076333	-0.270674153	8.13E-04
ENSG00000186364	NUDT17	79.75043381	-0.370022943	8.15E-04
ENSG00000204001	LCN8	11.98720994	-1.403934842	8.16E-04
ENSG00000068971	PPP2R5B	671.516694	-0.399952287	8.16E-04
ENSG00000255224		45.70462271	0.464773841	8.18E-04
ENSG00000141965	FEM1A	1830.655276	0.196639991	8.19E-04
ENSG00000282431	TRBD1	45.09678148	0.54874415	8.21E-04
ENSG00000168564	CDKN2AIP	1137.136935	0.198482913	8.23E-04
ENSG00000145246	ATP10D	1403.348624	0.379205041	8.23E-04
ENSG00000233797	UFL1-AS1	25.23954201	0.5713566	8.26E-04
ENSG00000109452	INPP4B	1732.623815	-0.680693828	8.27E-04
ENSG00000164342	TLR3	58.20626733	0.479754254	8.27E-04
ENSG00000255154	HTD2	31.90961124	-0.454239859	8.28E-04
ENSG00000228107		111.2259043	0.534989744	8.30E-04
ENSG00000135722	FBXL8	204.082082	-0.365908482	8.31E-04
ENSG00000248208	WDR45P1	27.87102693	1.148458784	8.31E-04
ENSG00000081791	DELE1	1788.16777	-0.106249719	8.31E-04
ENSG00000185219	ZNF445	2790.504307	-0.211530761	8.32E-04
ENSG00000061938	TNK2	4478.828455	-0.287150786	8.34E-04
ENSG00000099622	CIRBP	5522.474721	-0.200181889	8.37E-04
ENSG00000077713	SLC25A43	135.7622196	-0.32808377	8.40E-04
ENSG00000136040	PLXNC1	9323.220494	0.47077301	8.41E-04
ENSG00000196867	ZFP28	157.0651376	0.247678768	8.44E-04
ENSG00000272333	KMT2B	3052.866063	-0.216980952	8.44E-04
ENSG00000110080	ST3GAL4	497.2927087	-0.558712358	8.45E-04
ENSG00000163159	VPS72	532.3869892	0.165837154	8.45E-04
ENSG00000186026	ZNF284	87.96727163	0.318798387	8.45E-04
ENSG00000153790	C7orf31	167.2059023	-0.245866288	8.46E-04
ENSG00000143363	PRUNE1	605.0225439	-0.192517613	8.47E-04
ENSG00000228382	ITPKB-IT1	223.0797876	0.421675185	8.47E-04
ENSG00000272752	AG3L5P-PVRIG2P-PI	29.95285835	-0.483873043	8.49E-04
ENSG00000264773	MIR4420	84.78720259	-0.387975011	8.50E-04
ENSG00000059378	PARP12	3440.106274	0.47296126	8.52E-04
ENSG00000214711	CAPN14	45.349092	0.513345261	8.53E-04
ENSG00000128165	ADM2	73.77640019	0.483293568	8.53E-04
ENSG00000167969	ECI1	425.0119884	-0.211493317	8.55E-04
ENSG00000125454	SLC25A19	486.6422853	0.672713371	8.55E-04

ENSG00000223725		107.0258455	0.396965517	8.56E-04
ENSG00000162373	BEND5	81.75849339	-0.351702935	8.57E-04
ENSG00000229721		19.11052319	-0.621577595	8.58E-04
ENSG00000134285	FKBP11	733.6689236	-0.259376172	8.60E-04
ENSG00000162104	ADCY9	631.9630525	-0.356612123	8.61E-04
ENSG00000111752	PHC1	786.7473324	0.297510263	8.63E-04
ENSG00000105699	LSR	727.9266238	0.409957366	8.63E-04
ENSG00000260793		194.3397302	-0.26167797	8.63E-04
ENSG00000230532		77.72294961	0.401730631	8.64E-04
ENSG00000234062	TM9SF5P	53.51511321	0.503325374	8.64E-04
ENSG00000182983	ZNF662	60.30247046	-0.519757033	8.66E-04
ENSG00000204455	TRIM51BP	18.31852952	-0.844692718	8.73E-04
ENSG00000188486	H2AX	504.2707096	0.337264037	8.73E-04
ENSG00000099958	DERL3	185.8884434	-0.398895162	8.73E-04
ENSG00000151353	TMEM18	434.2959617	-0.23043779	8.73E-04
ENSG00000100418	DESI1	1066.141704	0.197688105	8.75E-04
ENSG00000253666		10.14861134	1.034717115	8.77E-04
ENSG00000121644	DESI2	859.0481569	0.163429288	8.81E-04
ENSG00000197894	ADH5	1155.386957	-0.273701594	8.82E-04
ENSG00000128886	ELL3	21.45880411	0.861458462	8.82E-04
ENSG00000124209	RAB22A	1516.082183	0.254787128	8.82E-04
ENSG00000185130	H2BC13	167.0797711	-0.641367143	8.84E-04
ENSG00000256667	KLRA1P	176.9988988	0.283641293	8.85E-04
ENSG00000267767	LINC01801	113.2766084	-0.303789488	8.86E-04
ENSG00000169093	ASMTL	775.3496455	-0.3532339	8.87E-04
ENSG00000258311		61.19573155	-0.375487042	8.88E-04
ENSG00000105697	HAMP	38.88490612	0.719889961	8.92E-04
ENSG00000247134		21.98097956	-0.758774718	8.93E-04
ENSG00000114742	WDR48	1886.226276	-0.199388631	8.97E-04
ENSG00000112319	EYA4	7.222880365	1.711184645	8.98E-04
ENSG00000183307	TMEM121B	125.1828687	-0.813314674	9.01E-04
ENSG00000125355	TMEM255A	34.30556043	0.855330386	9.02E-04
ENSG00000251002		70.26644886	-0.519081868	9.02E-04
ENSG00000131437	KIF3A	421.0319853	0.225378997	9.03E-04
ENSG00000261420	MPC1-DT	31.20761421	0.554707038	9.04E-04
ENSG00000124920	MYRF	50.43023291	-0.48385879	9.06E-04
ENSG00000075624	ACTB	81935.1432	-0.325178323	9.09E-04
ENSG00000185670	ZBTB3	234.2989509	0.258444749	9.09E-04
ENSG00000121579	NAA50	3164.947186	0.390368664	9.10E-04
ENSG00000057757	PITHD1	1321.239282	-0.377509135	9.12E-04
ENSG00000261335		24.1632372	0.566839745	9.12E-04
ENSG00000068001	HYAL2	168.1152851	-0.397175783	9.13E-04
ENSG00000239900	ADSL	295.1347134	0.23743503	9.14E-04
ENSG00000255185	PDXDC2P	62.69149474	-0.382639707	9.14E-04
ENSG00000165168	CYBB	14778.06249	0.602392596	9.16E-04
ENSG00000188707	ZBED10P	292.6961286	-0.410512359	9.16E-04
ENSG00000233647	NENFP1	21.52469271	-0.667256561	9.17E-04
ENSG00000133193	FAM104A	1904.99291	-0.34782826	9.18E-04
ENSG00000227379	PPIAP2	25.02202691	-0.580988689	9.18E-04
ENSG00000271717		11.35860821	-1.002142856	9.22E-04
ENSG00000273797		238.9414585	0.402504026	9.23E-04

ENSG00000232611		127.2789057	0.566552445	9.24E-04
ENSG00000134489	HRH4	128.7172062	0.517079987	9.29E-04
ENSG00000115524	SF3B1	15328.12166	-0.136382778	9.33E-04
ENSG00000138496	PARP9	5529.781959	0.604308487	9.38E-04
ENSG00000116521	SCAMP3	744.0121313	0.15531939	9.42E-04
ENSG00000204371	EHMT2	1098.487523	-0.212641166	9.43E-04
ENSG00000241721	SUMO1P1	43.47514755	0.633174207	9.43E-04
ENSG00000159720	ATP6V0D1	4326.744957	0.312008566	9.48E-04
ENSG00000177051	FBXO46	710.0545417	0.248738596	9.48E-04
ENSG00000184678	H2BC21	2245.660895	-0.376318318	9.48E-04
ENSG00000184156	KCNQ3	20.85677861	0.967616652	9.51E-04
ENSG00000240771	ARHGEF25	15.42785902	-0.811082806	9.51E-04
ENSG00000074695	LMAN1	1582.467694	0.215858941	9.53E-04
ENSG00000276533		145.6154852	-0.39600913	9.53E-04
ENSG00000128340	RAC2	8524.276301	0.250932592	9.53E-04
ENSG00000278129	ZNF8	512.7061474	-0.208813866	9.53E-04
ENSG00000199032	MIR425	32.32628102	0.547061046	9.54E-04
ENSG00000198133	TMEM229B	823.253537	0.228676579	9.54E-04
ENSG00000211645	IGLV1-50	13.03263579	0.87151256	9.55E-04
ENSG00000228444		18.44495736	0.548954858	9.56E-04
ENSG00000145555	MYO10	132.8137655	1.204959626	9.59E-04
ENSG00000268858		1233.351395	0.28814328	9.61E-04
ENSG00000279951		32.92525113	0.442788602	9.64E-04
ENSG00000168152	THAP9	149.1769448	0.305992556	9.66E-04
ENSG00000168286	THAP11	970.8807033	-0.225618153	9.66E-04
ENSG00000111911	HINT3	633.6123716	0.319576649	9.69E-04
ENSG00000140157	NIPA2	1194.501648	0.19595898	9.75E-04
ENSG00000160185	UBASH3A	1554.244047	0.262125007	9.76E-04
ENSG00000279620		219.9122815	-0.297989777	9.80E-04
ENSG00000182795	C1orf116	23.17078727	-0.822000563	9.80E-04
ENSG00000138639	ARHGAP24	428.8015224	0.302936625	9.85E-04
ENSG00000250220	ANKRD17-DT	66.70730053	0.365225543	9.87E-04
ENSG00000279518		18.65307129	1.058042779	9.87E-04
ENSG00000027697	IFNGR1	5895.014749	-0.441610359	9.88E-04
ENSG00000117318	ID3	351.848148	0.69032148	9.89E-04
ENSG00000280216		11.27599243	-0.846747137	9.89E-04
ENSG00000119681	LTBP2	213.2423368	-0.663353842	9.91E-04
ENSG00000171155	C1GALT1C1	350.4120031	-0.275392908	9.93E-04
ENSG00000196405	EVL	16320.80855	0.18156143	9.95E-04
ENSG00000184619	KRBA2	53.66489424	0.472679847	9.97E-04
ENSG00000162775	RBM15	1907.614957	-0.130218526	9.99E-04
ENSG00000279425		202.8181592	-0.285606606	9.99E-04
ENSG00000009844	VTA1	1023.728599	0.258906061	1.00E-03
ENSG00000160194	NDUFV3	879.0239449	0.150357926	1.00E-03
ENSG00000269560		82.49125714	-0.357557983	1.01E-03
ENSG00000152219	ARL14EP	918.0633496	0.202845642	1.01E-03
ENSG00000125744	RTN2	503.8386254	1.095929832	1.01E-03
ENSG00000224029		13.64106299	-0.788998895	1.01E-03
ENSG00000013374	NUB1	2995.100925	-0.305621948	1.01E-03
ENSG00000103723	AP3B2	20.62925945	-0.734902333	1.02E-03
ENSG00000004660	CAMKK1	838.2120006	-0.555749114	1.02E-03

ENSG00000022277	RTF2	2234.631463	0.254996685	1.02E-03
ENSG00000211900	IGHJ6	135.8249121	0.535212421	1.02E-03
ENSG00000183155	RABIF	403.8069798	-0.190647628	1.02E-03
ENSG00000099139	PCSK5	529.7157423	-0.414338047	1.02E-03
ENSG00000265692	LINC01970	71.98644681	-0.603688115	1.02E-03
ENSG00000113597	TRAPPC13	487.1658717	0.190487222	1.02E-03
ENSG00000148248	SURF4	3609.761052	0.244045035	1.02E-03
ENSG00000164054	SHISA5	4484.237782	-0.349715921	1.03E-03
ENSG00000175920	DOK7	17.27676674	-0.935081005	1.03E-03
ENSG00000259235	CTXN2-AS1	9.422823099	-2.015140428	1.03E-03
ENSG00000100330	MTMR3	5853.446615	-0.252977533	1.03E-03
ENSG00000178773	CPNE7	68.91210772	1.039957353	1.04E-03
ENSG00000207652	MIR621	23.37461499	0.447880335	1.04E-03
ENSG00000178188	SH2B1	2069.337891	-0.138455709	1.04E-03
ENSG00000130429	ARPC1B	831.2925824	0.324966687	1.04E-03
ENSG00000099968	BCL2L13	1310.648149	0.157772469	1.04E-03
ENSG00000225218		74.15759508	0.357105537	1.04E-03
ENSG00000201944		19.06451976	-0.675492741	1.04E-03
ENSG00000203872	C6orf163	179.0413257	-0.250396881	1.04E-03
ENSG00000135469	COQ10A	224.1261388	0.222890378	1.04E-03
ENSG00000198466	ZNF587	1725.116416	-0.142291956	1.05E-03
ENSG00000206768		33.42335486	-0.428452911	1.05E-03
ENSG00000135842	NIBAN1	10438.43767	0.43916216	1.05E-03
ENSG00000139722	VPS37B	1811.893859	0.221279475	1.05E-03
ENSG00000270061		59.34071576	0.5304084	1.05E-03
ENSG00000144589	STK11IP	771.3308432	-0.150433201	1.05E-03
ENSG00000184840	TMED9	1610.626389	0.258183621	1.05E-03
ENSG00000173456	RNF26	419.6895348	-0.268882114	1.06E-03
ENSG00000114395	CYB561D2	396.9633958	-0.244025798	1.06E-03
ENSG00000170027	YWHAG	2322.242937	0.574418884	1.06E-03
ENSG00000278384		93.79982818	0.534253787	1.06E-03
ENSG00000099251	HSD17B7P2	181.0310913	0.373438134	1.06E-03
ENSG00000166148	AVPR1A	19.66120362	-0.887019292	1.06E-03
ENSG00000215014		44.57698244	-0.5005724	1.06E-03
ENSG00000272870	SAP30-DT	36.38028665	-0.443961958	1.06E-03
ENSG00000166321	NUDT13	55.154234	0.337136863	1.07E-03
ENSG00000100908	EMC9	156.3438464	0.30759105	1.07E-03
ENSG00000251768	RNA5SP217	19.13840503	0.670215653	1.07E-03
ENSG00000103353	UBFD1	975.2170912	0.142893289	1.07E-03
ENSG00000211943	IGHV3-15	50.99940246	-0.574129056	1.07E-03
ENSG00000196741	LINC01560	45.58049411	0.369076197	1.07E-03
ENSG00000144445	KANSL1L	700.0874064	-0.202714343	1.07E-03
ENSG00000164975	SNAPC3	992.9348363	0.226725821	1.07E-03
ENSG00000207493	SNORA46	16.34290397	0.879419181	1.07E-03
ENSG00000264653	MIR5194	177.2153161	-0.38288911	1.08E-03
ENSG00000196632	WNK3	13.98495781	0.718013442	1.08E-03
ENSG00000180815	MAP3K15	9.914692602	-1.284271648	1.08E-03
ENSG00000104660	LEPROTL1	4144.937435	0.257536506	1.09E-03
ENSG00000189298	ZKSCAN3	334.5430434	0.312618624	1.09E-03
ENSG00000253180		43.32619735	0.776152587	1.09E-03
ENSG00000109919	MTCH2	558.3851617	0.173907851	1.09E-03

ENSG00000174306	ZHX3	350.6216103	-0.307460029	1.09E-03
ENSG00000284343	MIR631	17.93239299	-0.615475649	1.09E-03
ENSG00000204392	LSM2	276.660532	0.216018732	1.09E-03
ENSG00000279948		195.099282	0.594640648	1.09E-03
ENSG00000243943	ZNF512	524.6703661	-0.142001142	1.09E-03
ENSG00000188001	TPRG1	561.8654166	0.801256564	1.09E-03
ENSG00000076248	UNG	257.3970435	0.222463112	1.09E-03
ENSG00000144674	GOLGA4	3408.439372	0.137459721	1.10E-03
ENSG00000274925	ZKSCAN2-DT	501.6629837	0.228154219	1.10E-03
ENSG00000182307	C8orf33	664.8712911	0.175422455	1.10E-03
ENSG00000162607	USP1	1608.856941	-0.183352651	1.10E-03
ENSG00000137947	GTF2B	863.7629301	0.183215659	1.10E-03
ENSG00000013583	HEBP1	350.2572721	-0.440091164	1.10E-03
ENSG00000166582	CENPV	117.0748649	0.268025711	1.10E-03
ENSG00000277283		106.0838088	0.306183105	1.10E-03
ENSG00000248221	STX18-IT1	23.64419285	0.566214544	1.10E-03
ENSG00000197859	ADAMTSL2	22.40033504	0.771535141	1.11E-03
ENSG00000103245	CIAO3	660.1462201	0.196140047	1.11E-03
ENSG00000005961	ITGA2B	379.3487517	-0.872668535	1.11E-03
ENSG00000143862	ARL8A	1302.338594	-0.242575161	1.12E-03
ENSG00000155868	MED7	455.0994813	0.221640642	1.12E-03
ENSG00000133884	DPF2	1611.704727	-0.148512084	1.12E-03
ENSG00000205730	ITPRIPL2	789.1188129	0.556957332	1.12E-03
ENSG00000259706	HSP90B2P	53.34800258	0.440554376	1.12E-03
ENSG00000185379	RAD51D	501.44688	0.178802438	1.12E-03
ENSG00000166866	MYO1A	22.16245746	-0.691017255	1.13E-03
ENSG00000144048	DUSP11	891.3726332	-0.130045031	1.13E-03
ENSG00000047648	ARHGAP6	88.37443027	-0.749376332	1.13E-03
ENSG00000215717	TMEM167B	1936.529533	-0.224114349	1.13E-03
ENSG00000156869	FRRS1	80.65410494	-0.533660722	1.13E-03
ENSG00000135414	GDF11	442.4453522	-0.181627129	1.14E-03
ENSG00000148120	AOPEP	402.4539418	0.19774075	1.14E-03
ENSG00000278997		115.4787244	-0.305163084	1.14E-03
ENSG00000234323	LINC01505	14.99547732	-0.770000094	1.15E-03
ENSG00000271092	TLCD4-RWDD3	32.1479526	0.425366153	1.15E-03
ENSG00000125352	RNF113A	322.9705899	-0.236000592	1.15E-03
ENSG00000259315	ACTG1P17	73.62467532	0.377945491	1.15E-03
ENSG00000266980		39.66271689	-0.624685102	1.15E-03
ENSG00000269318		94.61900009	0.296013472	1.15E-03
ENSG00000214797		71.90029057	0.544566232	1.15E-03
ENSG00000075945	KIFAP3	685.4885626	0.141253878	1.15E-03
ENSG00000179761	PIPOX	175.9625547	-0.253611305	1.15E-03
ENSG00000104047	DTWD1	615.7591738	0.220251247	1.15E-03
ENSG00000155034	FBXL18	366.962958	-0.267761458	1.16E-03
ENSG00000183570	PCBP3	131.8702279	0.440347816	1.17E-03
ENSG00000129167	TPH1	35.41741841	-0.541838244	1.17E-03
ENSG00000104679	R3HCC1	532.9082433	-0.282282716	1.17E-03
ENSG00000260565	ERVK13-1	1975.976121	0.165786793	1.17E-03
ENSG00000235437	LINC01278	306.2176651	-0.256471505	1.17E-03
ENSG00000173852	DPY19L1	504.3513389	-0.191273004	1.17E-03
ENSG00000105464	GRIN2D	16.33574592	-0.994257786	1.18E-03

ENSG00000141458	NPC1	2435.331637	0.203500263	1.18E-03
ENSG00000100890	PRORP	248.1757958	-0.186509657	1.18E-03
ENSG00000163126	ANKRD23	103.1612834	-0.268967971	1.19E-03
ENSG00000123352	SPATS2	224.2192159	-0.20440036	1.19E-03
ENSG00000130638	ATXN10	1200.421046	0.140924224	1.19E-03
ENSG00000200419		15.54611274	-0.718050185	1.19E-03
ENSG00000110104	CCDC86	313.6819764	0.505592962	1.20E-03
ENSG00000188681	TEKT4P2	23.7672549	0.639819276	1.20E-03
ENSG00000101843	PSMD10	614.4404473	0.251207745	1.20E-03
ENSG00000099785	MARCHF2	1079.211091	-0.524199686	1.20E-03
ENSG00000275963		38.63094512	0.744516776	1.20E-03
ENSG00000206573	THUMPD3-AS1	2170.686142	0.150098324	1.20E-03
ENSG00000246100	LINC00900	78.09783005	0.709453839	1.21E-03
ENSG00000101307	SIRPB1	1751.918964	-0.601469285	1.21E-03
ENSG00000213186	TRIM59	400.5756105	0.203455399	1.21E-03
ENSG00000163479	SSR2	3895.410875	0.239010771	1.21E-03
ENSG00000186704	DTX2P1	69.32642469	0.417631095	1.21E-03
ENSG00000165392	WRN	697.1518747	0.230843825	1.21E-03
ENSG00000237111	IGHJ3P	88.80328839	0.495010437	1.21E-03
ENSG00000164008	C1orf50	81.33507099	-0.371636793	1.21E-03
ENSG00000135482	ZC3H10	726.3532113	0.223210969	1.21E-03
ENSG00000268043	NBPF12	1183.325012	-0.182681994	1.22E-03
ENSG00000114654	EFCC1	10.74315126	0.869654329	1.22E-03
ENSG00000185989	RASA3	6704.162168	0.238032764	1.22E-03
ENSG00000244627	TPTEP2	574.3785575	-0.292711634	1.22E-03
ENSG00000134330	IAH1	787.761489	-0.187306809	1.22E-03
ENSG00000204959	ARHGEF34P	107.9289855	0.321964448	1.23E-03
ENSG00000234946	SDHCP3	21.71660361	-0.558012833	1.23E-03
ENSG00000110497	AMBRA1	1823.575796	0.181862197	1.23E-03
ENSG00000125743	SNRPD2	2227.662875	0.240883818	1.24E-03
ENSG00000181885	CLDN7	25.30602307	-0.970416228	1.24E-03
ENSG00000198700	IPO9	1991.435852	0.113275287	1.24E-03
ENSG00000111652	COPS7A	692.8825049	0.199774497	1.24E-03
ENSG00000109390	NDUFC1	226.4160312	0.19176503	1.24E-03
ENSG00000259172	SNRPA1-DT	32.97462027	0.499422793	1.25E-03
ENSG00000070756	PABPC1	29977.90989	0.171103508	1.25E-03
ENSG00000196323	ZBTB44	3397.393562	-0.157979584	1.25E-03
ENSG00000264456		176.2068245	-0.556255233	1.25E-03
ENSG00000234545	FAM133B	718.0556118	-0.190234046	1.25E-03
ENSG00000161149	TUBA3FP	20.50520758	0.739163541	1.25E-03
ENSG00000259581	TYRO3P	167.2396552	0.393486714	1.25E-03
ENSG00000272578		392.6122747	-0.227001429	1.26E-03
ENSG00000101412	E2F1	78.32357076	-0.490084377	1.26E-03
ENSG00000116198	CEP104	1013.401523	0.157984405	1.26E-03
ENSG00000279829		11.16355992	-1.022278707	1.27E-03
ENSG00000226699		29.84971261	-0.561551362	1.27E-03
ENSG00000108774	RAB5C	889.6323346	0.386415895	1.27E-03
ENSG00000134575	ACP2	746.0286515	0.331230124	1.27E-03
ENSG00000149182	ARFGAP2	2560.028519	-0.121639561	1.27E-03
ENSG00000105325	FZR1	2046.477781	-0.18937287	1.27E-03
ENSG00000277053	GTF2IP1	135.6260463	-0.28942054	1.27E-03

ENSG00000167962	ZNF598	1146.509552	0.157894322	1.27E-03
ENSG00000158747	NBL1	80.82972173	0.442920685	1.27E-03
ENSG00000196597	ZNF782	511.667889	0.187803656	1.28E-03
ENSG00000135926	TMBIM1	4689.160888	0.450881239	1.28E-03
ENSG00000211794	TRAV12-3	60.44630035	-0.360107793	1.28E-03
ENSG00000130244	FAM98C	486.9850204	-0.227808243	1.28E-03
ENSG00000212385	RNU6-817P	18.95405724	0.79582286	1.28E-03
ENSG00000259005		51.40086846	0.633902617	1.28E-03
ENSG00000090266	NDUFB2	606.3242325	0.239223877	1.29E-03
ENSG00000235954	TTC28-AS1	444.3454977	-0.160533338	1.29E-03
ENSG00000090924	PLEKHG2	1577.648634	0.329149524	1.29E-03
ENSG00000199248	RNU6-28P	15.66310623	-0.711543426	1.30E-03
ENSG00000163263	CFAP141	22.76419525	0.504804707	1.30E-03
ENSG00000117411	B4GALT2	78.26857614	0.520322783	1.30E-03
ENSG00000204435	CSNK2B	299.7534059	-0.212746434	1.31E-03
ENSG00000164402	SEPTIN8	182.0356984	-0.340823596	1.31E-03
ENSG00000204314	PRRT1	36.5640014	-0.42833493	1.31E-03
ENSG00000147324	MFHAS1	961.1023828	-0.240234305	1.31E-03
ENSG00000280057		15.06298454	0.775482151	1.31E-03
ENSG00000144028	SNRNP200	6394.930662	-0.165161653	1.31E-03
ENSG00000257243	PARK7P1	33.56145675	0.496859658	1.32E-03
ENSG00000103365	GGA2	5546.434573	0.301064747	1.32E-03
ENSG00000105202	FBL	2315.392748	0.214322725	1.32E-03
ENSG00000116016	EPAS1	431.0292334	0.443914746	1.32E-03
ENSG00000171227	TMEM37	28.77386618	1.534320722	1.32E-03
ENSG00000073578	SDHA	2566.136261	-0.175307976	1.32E-03
ENSG00000118046	STK11	2816.316337	-0.222003235	1.32E-03
ENSG00000205981	DNAJC19	523.4443248	0.206720698	1.32E-03
ENSG00000165832	TRUB1	314.0958591	0.227121537	1.33E-03
ENSG00000227986	TRIM60P18	76.90640977	0.349153825	1.33E-03
ENSG00000149554	CHEK1	82.34137868	-0.481136923	1.33E-03
ENSG00000088053	GP6	38.74707802	-0.842592666	1.34E-03
ENSG00000138463	SLC49A4	832.6409337	-0.383553798	1.34E-03
ENSG00000217128	FNIP1	3643.652772	0.272468152	1.34E-03
ENSG00000245498	MSANTD2-AS1	83.010144	0.321900023	1.34E-03
ENSG00000232956	SNHG15	534.1368171	0.271458012	1.34E-03
ENSG00000231563		160.1545792	0.314120132	1.35E-03
ENSG00000114779	ABHD14B	758.2090291	-0.219561728	1.35E-03
ENSG00000100104	SRRD	708.1595036	-0.279531242	1.35E-03
ENSG00000119866	BCL11A	854.0275237	0.226772747	1.35E-03
ENSG00000040608	RTN4R	30.1962906	-0.51218087	1.35E-03
ENSG00000230551		1892.165529	0.22559381	1.35E-03
ENSG00000134602	STK26	1539.361877	0.261109169	1.35E-03
ENSG00000272690	LINC02018	46.04274683	-0.380694569	1.35E-03
ENSG00000237879	LINC00398	54.40628107	0.844217769	1.35E-03
ENSG00000169139	UBE2V2	626.9621293	0.213847489	1.36E-03
ENSG00000020256	ZFP64	258.7808194	-0.18933451	1.36E-03
ENSG00000255050		12.44109065	-0.950681653	1.36E-03
ENSG00000093000	NUP50	3779.571729	-0.194829289	1.36E-03
ENSG00000115944	COX7A2L	997.5302765	-0.172074569	1.37E-03
ENSG00000203326	ZNF525	602.8374813	0.198521629	1.37E-03

ENSG00000105963	ADAP1	594.3770828	-0.298234036	1.37E-03
ENSG00000123405	NFE2	1797.645303	-0.674779517	1.37E-03
ENSG00000232855		77.42289107	-0.444060537	1.38E-03
ENSG00000256708		11.76014593	-0.907816577	1.38E-03
ENSG00000254985	RSF1-IT2	81.73400312	-0.276019197	1.38E-03
ENSG00000258525		57.37517705	-0.387062655	1.38E-03
ENSG00000099381	SETD1A	1089.836844	-0.2149315	1.38E-03
ENSG00000080561	MID2	176.650284	-0.236224184	1.38E-03
ENSG00000229422		63.28805641	0.388457414	1.38E-03
ENSG00000242960	FTH1P23	15.28174595	0.854925411	1.38E-03
ENSG00000184205	TSPYL2	1301.481189	-0.245821356	1.38E-03
ENSG00000177042	TMEM80	521.0935935	-0.174856185	1.39E-03
ENSG00000248487	ABHD14A	76.4042481	-0.409167803	1.39E-03
ENSG00000143353	LYPLAL1	577.8800976	-0.196103046	1.39E-03
ENSG00000226864	ATE1-AS1	40.69390746	0.485939627	1.39E-03
ENSG00000240808		34.50683521	-0.488108168	1.40E-03
ENSG00000173218	VANGL1	115.1888569	-0.316120962	1.40E-03
ENSG00000264958	ALOX12P1	35.96862868	0.672703803	1.40E-03
ENSG00000143228	NUF2	52.37692912	0.413279875	1.40E-03
ENSG00000230701	FBXW4P1	177.5824298	-0.26349866	1.40E-03
ENSG00000185345	PRKN	74.44133331	-0.492716393	1.41E-03
ENSG00000236662		52.27834236	0.474167305	1.41E-03
ENSG00000040633	PHF23	1092.526748	0.362296565	1.41E-03
ENSG00000061987	MON2	3654.323571	0.160607092	1.41E-03
ENSG00000127954	STEAP4	3133.292027	-0.877258407	1.41E-03
ENSG00000199366		48.02957816	-0.426841427	1.42E-03
ENSG00000101213	PTK6	26.41158138	-0.637290997	1.42E-03
ENSG00000071889	FAM3A	534.8377492	-0.213593957	1.43E-03
ENSG00000253005	RNU6-176P	16.46856966	0.908826127	1.43E-03
ENSG00000281404	LINC01176	129.2953062	-0.338761395	1.43E-03
ENSG00000212615		17.84066421	-0.588739415	1.43E-03
ENSG00000244482	LILRA6	1562.783624	-0.484724742	1.44E-03
ENSG00000158525	CPA5	22.84668083	-0.674346498	1.44E-03
ENSG00000214013	GANC	1006.993372	-0.191201025	1.44E-03
ENSG00000178184	PARD6G	50.04890105	0.875476209	1.44E-03
ENSG00000164654	MIOS	1027.887422	0.164551952	1.44E-03
ENSG00000283930	PLD5P1	97.70808097	0.58711801	1.44E-03
ENSG00000169019	COMMD8	412.7300245	-0.266682365	1.45E-03
ENSG00000225151	GOLGA2P7	25.11585773	0.50347112	1.45E-03
ENSG00000187049	TMEM216	230.9555499	0.2584888	1.45E-03
ENSG00000132661	NXT1	320.5486	0.23305248	1.46E-03
ENSG00000253865		26.71916229	0.447195768	1.46E-03
ENSG00000204054	LINC00963	2313.441906	0.244722499	1.46E-03
ENSG00000242737		58.50404814	0.446114656	1.46E-03
ENSG00000127580	WDR24	446.6061357	0.166090087	1.47E-03
ENSG00000125844	RRBP1	1285.220674	-0.25813797	1.47E-03
ENSG00000145375	SPATA5	559.039391	0.158472902	1.47E-03
ENSG00000164096	C4orf3	1121.828917	-0.306856186	1.48E-03
ENSG00000257924	LINC02416	8.576156852	0.876922258	1.48E-03
ENSG00000101246	ARFRP1	1754.235681	0.163556762	1.48E-03
ENSG00000070214	SLC44A1	1359.22006	-0.32036338	1.48E-03

ENSG00000109220	CHIC2	901.4371729	-0.162485576	1.49E-03
ENSG00000151445	VIPAS39	692.0266778	0.191637495	1.49E-03
ENSG00000064225	ST3GAL6	887.8081861	0.764182639	1.49E-03
ENSG00000283897		19.21877149	0.524028362	1.49E-03
ENSG00000071051	NCK2	2421.459268	-0.29788225	1.49E-03
ENSG00000259623		272.2501481	-0.233071956	1.49E-03
ENSG00000237788		243.3581868	0.368173846	1.50E-03
ENSG00000134262	AP4B1	707.5943803	-0.13847978	1.50E-03
ENSG00000135315	CEP162	710.6256451	0.232341616	1.50E-03
ENSG00000179242	CDH4	10.85343785	-0.989919797	1.50E-03
ENSG00000142684	ZNF593	149.9377235	0.606272466	1.51E-03
ENSG00000254416	LINC02732	9.962450281	1.676605438	1.51E-03
ENSG00000143549	TPM3	8430.760541	-0.228519435	1.51E-03
ENSG00000083457	ITGAE	658.5740363	0.352337268	1.51E-03
ENSG00000136010	ALDH1L2	12.85089536	-1.010996141	1.51E-03
ENSG00000075790	BCAP29	637.3873603	-0.171287039	1.51E-03
ENSG00000166068	SPRED1	336.9296947	-0.70899594	1.51E-03
ENSG00000153162	BMP6	128.6283325	-0.766988036	1.52E-03
ENSG00000198734	F5	538.0437719	-0.430720176	1.52E-03
ENSG00000201302	SNORA65	21.29209888	0.518451086	1.52E-03
ENSG00000132196	HSD17B7	405.1913909	0.34156244	1.53E-03
ENSG00000134215	VAV3	1808.263642	-0.321163857	1.53E-03
ENSG00000163684	RPP14	465.7110772	0.158371692	1.53E-03
ENSG00000224536	CSRP1-AS1	64.19482974	-0.385867073	1.53E-03
ENSG00000205853	RFPL3S	33.3842244	-0.506126734	1.53E-03
ENSG00000257607		20.30089658	0.584770083	1.53E-03
ENSG00000101997	CCDC22	559.3813792	-0.183511701	1.53E-03
ENSG00000092820	EZR	5239.726778	-0.189044667	1.53E-03
ENSG00000128595	CALU	1013.11403	0.247948415	1.54E-03
ENSG00000143179	UCK2	263.5434489	0.439520752	1.54E-03
ENSG00000273153		19.41975758	-0.542159591	1.54E-03
ENSG00000142166	IFNAR1	3300.285755	0.318682245	1.54E-03
ENSG00000164283	ESM1	11.16233224	0.663517001	1.55E-03
ENSG00000260686		116.5423389	0.408362121	1.55E-03
ENSG00000178458	H3P16	21.9613	-0.635342566	1.55E-03
ENSG00000166763	STRCP1	13.98534672	-0.812347889	1.55E-03
ENSG00000212916	MAP10	111.535876	-0.396703501	1.55E-03
ENSG00000213977	TAX1BP3	36.37688812	-0.52375042	1.55E-03
ENSG00000239264	TXNDC5	88.1307687	-0.459837118	1.56E-03
ENSG00000176407	KCMF1	1711.816172	-0.121996501	1.56E-03
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ENSG00000152795	HNRNPDL	4784.005068	-0.177470522	1.57E-03
ENSG00000133055	MYBPH	86.59815178	0.854100859	1.57E-03
ENSG00000186409	CCDC30	239.4790876	-0.265325195	1.57E-03
ENSG00000172115	CYCS	1108.498994	0.239285739	1.57E-03
ENSG00000196743	GM2A	1502.774303	0.368764496	1.57E-03
ENSG00000206715	RNU6-444P	15.74716837	0.691332638	1.57E-03
ENSG00000226989		59.54991711	-0.531779813	1.57E-03
ENSG00000167978	SRRM2	21061.1669	-0.210884166	1.57E-03
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ENSG00000108187	PBLD	62.26748152	-0.328074409	1.58E-03
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ENSG00000174010	KLHL15	596.9584184	-0.470344036	1.58E-03
ENSG00000207973	MIR589	26.14961271	-0.659233057	1.59E-03
ENSG00000124374	PAIP2B	276.5103833	-0.212984084	1.59E-03
ENSG00000158985	CDC42SE2	9206.208492	0.140770969	1.59E-03
ENSG00000167384	ZNF180	503.6557955	0.18030684	1.59E-03
ENSG00000181904	C5orf24	728.467099	0.172214243	1.59E-03
ENSG00000232434	AJM1	228.9073472	-0.358805089	1.59E-03
ENSG00000245954	LINC02273	209.7558744	0.352244822	1.59E-03
ENSG00000227398	KIF9-AS1	86.50314694	-0.332756675	1.59E-03
ENSG00000140931	CMTM3	1737.924134	-0.213398233	1.59E-03
ENSG00000224356		78.84365401	-0.428511572	1.60E-03
ENSG00000221439	RNU4ATAC16P	32.98450267	0.627096702	1.60E-03
ENSG00000138101	DTNB	600.6609458	-0.235823238	1.60E-03
ENSG00000264468	MIR4520-1	24.05803664	0.505007174	1.60E-03
ENSG00000154917	RAB6B	40.85885621	-0.744393037	1.60E-03
ENSG00000148339	SLC25A25	854.0222659	0.255817304	1.60E-03
ENSG00000264885		66.87584721	0.31642268	1.61E-03
ENSG00000267858	MZF1-AS1	132.0411394	0.341483363	1.62E-03
ENSG00000178988	MRFAP1L1	1164.363948	0.26356891	1.62E-03
ENSG00000249881		5.440888896	1.436016705	1.62E-03
ENSG00000144591	GMPPA	573.3985287	0.169922944	1.62E-03
ENSG00000225489		19.66493159	0.55856237	1.62E-03
ENSG00000136319	TTC5	580.1490944	0.128789164	1.62E-03
ENSG00000169371	SNUPN	243.5200622	0.211258855	1.63E-03
ENSG00000164609	SLU7	1920.399505	0.177192342	1.63E-03
ENSG00000103363	ELOB	1623.785101	-0.30050217	1.63E-03
ENSG00000225975	ZNF567-DT	89.28255902	0.288700111	1.63E-03
ENSG00000136869	TLR4	5497.456575	0.527895181	1.63E-03
ENSG00000160972	PPP1R16A	328.3156497	0.267422637	1.64E-03
ENSG00000272097	TMEM14B-DT	19.88796885	0.720177064	1.64E-03
ENSG00000034677	RNF19A	4783.485784	0.190708236	1.64E-03
ENSG00000225465	RFPL1S	20.79475314	-0.6036806	1.64E-03
ENSG00000211790	TRAV8-4	50.47383301	-0.350447095	1.65E-03
ENSG00000185800	DMWD	529.3845389	0.209564364	1.65E-03
ENSG00000237491	LINC01409	139.6032712	-0.258199153	1.65E-03
ENSG00000081019	RSBN1	1860.396187	-0.159133365	1.65E-03
ENSG00000137942	FNBP1L	141.3958839	-0.264641921	1.66E-03
ENSG00000133961	NUMB	5950.576696	0.333657852	1.66E-03
ENSG00000279663		26.9301716	-0.671293779	1.66E-03
ENSG00000121152	NCAPH	208.0412576	0.451362339	1.66E-03
ENSG00000111785	RIC8B	593.234177	0.181742032	1.66E-03
ENSG00000107742	SPOCK2	18543.17241	0.305969375	1.66E-03
ENSG00000234336	JAZF1-AS1	16.60025604	0.672167655	1.67E-03
ENSG00000279913		151.7714276	0.487471684	1.67E-03
ENSG00000182504	CEP97	610.6957458	-0.1676622	1.67E-03
ENSG00000273989		28.20114701	-0.546100236	1.68E-03
ENSG00000177352	CCDC71	820.6439821	0.168833691	1.69E-03
ENSG00000204381	LAYN	42.80677282	0.534176297	1.70E-03

ENSG00000136536	MARCHF7	4945.318651	-0.177596418	1.70E-03
ENSG00000136527	TRA2B	6819.135534	-0.208374506	1.71E-03
ENSG00000108786	HSD17B1	35.59413109	-0.50224461	1.71E-03
ENSG00000167291	TBC1D16	273.5461023	0.518001107	1.71E-03
ENSG00000185915	KLHL34	31.89352486	0.418777143	1.71E-03
ENSG00000205485	LINC03009	430.7920523	0.21441364	1.72E-03
ENSG00000166676	TVP23A	32.79491053	0.73925665	1.72E-03
ENSG00000079435	LIPE	273.2477987	0.21878262	1.72E-03
ENSG00000051009	FHIP1B	1459.104374	-0.17492163	1.72E-03
ENSG00000055609	KMT2C	8856.511043	-0.23469083	1.72E-03
ENSG00000112234	FBXL4	1156.913148	-0.176078548	1.73E-03
ENSG00000132326	PER2	477.1946096	-0.26407335	1.73E-03
ENSG00000102003	SYP	25.56981766	-0.540074052	1.73E-03
ENSG00000111653	ING4	789.0564869	-0.155033103	1.73E-03
ENSG00000113272	THG1L	225.6441663	0.200489147	1.74E-03
ENSG00000068400	GRIPAP1	2311.499188	0.234628012	1.74E-03
ENSG00000166295	ANAPC16	2977.725705	0.129325141	1.74E-03
ENSG00000161671	EMC10	2069.422459	-0.144365534	1.75E-03
ENSG00000130520	LSM4	582.1357403	-0.189864872	1.75E-03
ENSG00000278462		24.6207606	-0.455558552	1.75E-03
ENSG00000259802		32.99165692	-0.464328128	1.76E-03
ENSG00000145757	SPATA9	19.62859505	0.710472091	1.76E-03
ENSG00000112378	PERP	128.3456908	0.466833868	1.76E-03
ENSG00000277491		27.9331757	-0.532553724	1.76E-03
ENSG00000243896	OR2A7	19.87263741	0.551744724	1.76E-03
ENSG00000149564	ESAM	74.60407963	-0.715358626	1.76E-03
ENSG00000232160	RAP2C-AS1	77.03058983	0.385014127	1.76E-03
ENSG00000256357		24.55910036	1.067712991	1.77E-03
ENSG00000138430	OLA1	755.5184747	0.191234879	1.77E-03
ENSG00000166783	MARF1	6389.540604	-0.226038878	1.78E-03
ENSG00000197903	H2BC12	1592.09365	-0.339299457	1.79E-03
ENSG00000174171		236.8739869	-0.272551559	1.79E-03
ENSG00000189423	USP32P3	33.61678347	-0.698472303	1.79E-03
ENSG00000158859	ADAMTS4	31.78934391	-0.509540142	1.80E-03
ENSG00000140326	CDAN1	680.7500183	-0.172092801	1.80E-03
ENSG00000130725	UBE2M	740.6854508	-0.193425655	1.80E-03
ENSG00000111837	MAK	156.5286158	-0.809343763	1.80E-03
ENSG00000253307		78.83760369	0.535686718	1.80E-03
ENSG00000185010	F8	99.02667367	-0.400839359	1.80E-03
ENSG00000178217	SH2D4B	33.28983524	-0.572639132	1.80E-03
ENSG00000116906	GNPAT	918.6430243	-0.107510514	1.81E-03
ENSG00000231584	FAHD2CP	173.7790529	-0.266885858	1.81E-03
ENSG00000169740	ZNF32	479.5569605	0.237032282	1.81E-03
ENSG00000131153	GINS2	28.41811062	-0.67370982	1.81E-03
ENSG00000233602	ERI3-IT1	69.60390624	0.362781031	1.81E-03
ENSG00000231466		51.82540568	0.392563865	1.82E-03
ENSG00000279861		241.3645439	-0.658431171	1.82E-03
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ENSG00000254682		109.7490931	-0.317601284	1.82E-03
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ENSG00000161960	EIF4A1	865.6547035	-0.370773945	1.83E-03
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ENSG00000189050	RNFT1	526.256101	0.345780345	1.83E-03
ENSG00000172785	CBWD1	562.9037539	0.274432552	1.83E-03
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ENSG00000123999	INHA	11.68673641	1.344169125	1.85E-03
ENSG00000172171	TEFM	308.249864	0.302603792	1.85E-03
ENSG00000237021		14.34773677	0.624554607	1.85E-03
ENSG00000011304	PTBP1	4702.870625	0.170340085	1.85E-03
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ENSG00000162510	MATN1	25.43641923	-0.632590022	1.86E-03
ENSG00000265879	MIR4748	27.79243532	0.589644185	1.86E-03
ENSG00000248874	LINC02899	37.15033163	-0.703373597	1.86E-03
ENSG00000136731	UGGT1	2348.277196	-0.174261147	1.87E-03
ENSG00000213339	QTRT1	314.5556674	0.216898836	1.87E-03
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ENSG00000134326	CMPK2	1742.813968	0.972452559	1.88E-03
ENSG00000279010		1145.697159	0.283476167	1.88E-03
ENSG00000175906	ARL4D	42.26865543	-0.466916913	1.89E-03
ENSG00000204580	DDR1	264.6523955	0.363560126	1.89E-03
ENSG00000175600	SUGCT	30.69217001	-0.552699658	1.89E-03
ENSG00000123444	KBTBD4	602.2633272	-0.235930115	1.90E-03
ENSG00000242887	IGHJ3	11.09085189	0.679301513	1.90E-03
ENSG00000140025	EFCAB11	67.58364238	0.324503181	1.90E-03
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ENSG00000258768		32.0266245	-0.514526113	1.91E-03
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ENSG00000121413	ZSCAN18	1157.396604	-0.220298695	1.91E-03
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ENSG00000244151		23.15510034	0.538999686	1.91E-03
ENSG00000182220	ATP6AP2	2171.344407	-0.214990429	1.92E-03
ENSG00000147124	ZNF41	459.0220623	0.166690684	1.92E-03
ENSG00000272163		20.83787769	-0.562523586	1.92E-03
ENSG00000121417	ZNF211	799.9820528	-0.142160183	1.92E-03
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ENSG00000168769	TET2	6071.887354	-0.292547229	1.93E-03
ENSG00000090054	SPTLC1	1154.968798	0.149302949	1.94E-03
ENSG00000115685	PPP1R7	925.6117177	-0.126706279	1.94E-03
ENSG00000236528		26.06797685	-0.670889824	1.94E-03
ENSG00000142627	EPHA2	21.86509957	0.755078955	1.94E-03
ENSG00000266651		25.95278532	-0.916419129	1.94E-03
ENSG00000165632	TAF3	585.425568	-0.151374534	1.95E-03
ENSG00000130254	SAFB2	2591.899393	-0.139235172	1.96E-03
ENSG00000160867	FGFR4	20.03722956	-0.707603363	1.96E-03

ENSG00000198743	SLC5A3	3185.6638	0.474420095	1.96E-03
ENSG00000164684	ZNF704	122.2391939	1.190538277	1.96E-03
ENSG00000140479	PCSK6	91.87377819	-0.685812039	1.96E-03
ENSG00000267419	ZNF56P	147.6811778	0.278038386	1.96E-03
ENSG00000036448	MYOM2	174.1382626	-0.997840974	1.98E-03
ENSG00000259453		191.0765296	0.217107951	1.98E-03
ENSG00000112195	TREML2	859.4470271	-0.583871187	1.99E-03
ENSG00000197343	ZNF655	3751.494212	-0.092632859	1.99E-03
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ENSG00000187800	PEAR1	35.1438058	-1.034738894	1.99E-03
ENSG00000244620		43.3805003	-0.503160828	1.99E-03
ENSG00000132541	RIDA	84.77447408	0.310793031	1.99E-03
ENSG00000205436	EXOC3L4	6.941504846	1.583234973	2.00E-03
ENSG00000278588	H2BC10	367.8319759	-0.512772432	2.00E-03
ENSG00000073169	SELENOO	1010.948926	-0.155319087	2.00E-03
ENSG00000178917	ZNF852	384.3635899	0.205180063	2.00E-03
ENSG00000211771	TRBJ2-7	99.40580332	0.445464774	2.00E-03
ENSG00000278974		15.10933323	0.619986365	2.00E-03
ENSG00000108244	KRT23	748.1266559	0.862444154	2.01E-03
ENSG00000167657	DAPK3	779.7451662	-0.167192981	2.01E-03
ENSG00000257354	MIRLET7IHG	404.4260215	0.340707812	2.01E-03
ENSG00000081913	PHLPP1	591.9463323	0.228205926	2.01E-03
ENSG00000272574		28.64912495	-0.468716582	2.02E-03
ENSG00000247679		86.35193958	-0.303649547	2.02E-03
ENSG00000197037	ZSCAN25	1232.027929	-0.121159365	2.03E-03
ENSG00000237499	WAKMAR2	921.4814671	0.48149841	2.04E-03
ENSG00000143595	AQP10	14.34020287	-1.19607344	2.04E-03
ENSG00000245317	MRNIP-DT	22.33830286	0.465975092	2.04E-03
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ENSG00000144840	RABL3	570.1968584	-0.206130549	2.04E-03
ENSG00000235554	SRSF6P2	19.99609009	0.529136716	2.04E-03
ENSG00000254122	PCDHGB7	27.41139381	0.450215361	2.04E-03
ENSG00000210107	MT-TQ	15.61638703	0.7288721	2.04E-03
ENSG00000211695	TRGV9	174.4213165	0.439456523	2.05E-03
ENSG00000104853	CLPTM1	1539.606485	-0.163789379	2.05E-03
ENSG00000100796	PPP4R3A	3984.389379	-0.101275784	2.05E-03
ENSG00000230649		48.95346656	-0.440205505	2.05E-03
ENSG00000267340		18.26909279	0.549632742	2.05E-03
ENSG00000156017	CARNMT1	639.2553381	0.257675929	2.05E-03
ENSG00000230539	AOAH-IT1	323.0461234	0.430719733	2.06E-03
ENSG00000158019	BABAM2	856.1064681	0.154741373	2.06E-03
ENSG00000118785	SPP1	6189.409146	2.14978401	2.07E-03
ENSG00000167543	TP53I13	1263.842505	-0.190848704	2.07E-03
ENSG00000135426	TESPA1	2786.190268	-0.182794402	2.07E-03
ENSG00000244405	ETV5	180.6267424	1.429148108	2.07E-03
ENSG00000259349	APPBP2-DT	23.64165924	0.61671371	2.08E-03
ENSG00000268500	SIGLEC5	10.01609662	1.169985609	2.08E-03
ENSG00000170876	TMEM43	2121.573708	-0.19317548	2.08E-03
ENSG00000004534	RBM6	2640.412945	0.195865552	2.09E-03
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ENSG00000224081	SLC44A3-AS1	12.90833065	0.770603629	2.09E-03

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ENSG00000237484	LINC01684	57.90776098	-0.377514522	2.09E-03
ENSG00000230606	LINC02969	64.49245649	-0.439216255	2.09E-03
ENSG00000242086	MUC20-OT1	2678.91973	-0.144083485	2.09E-03
ENSG00000122482	ZNF644	3168.947733	0.165583411	2.10E-03
ENSG00000161800	RACGAP1	328.5228211	0.38213684	2.10E-03
ENSG00000273045	C2orf15	19.50871212	0.51452629	2.10E-03
ENSG00000272630		110.8063017	0.320476568	2.10E-03
ENSG00000116809	ZBTB17	1219.856336	0.223528162	2.11E-03
ENSG00000221539	SNORD99	18.03183535	0.595897871	2.11E-03
ENSG00000094631	HDAC6	979.0390385	-0.209683904	2.11E-03
ENSG00000134460	IL2RA	877.5071528	0.424229293	2.12E-03
ENSG00000281100		293.5735091	-0.313235688	2.12E-03
ENSG00000186470	BTN3A2	5627.836464	0.209751226	2.13E-03
ENSG00000261596		192.7744081	0.368083017	2.13E-03
ENSG00000262655	SPON1	425.908536	1.043346665	2.13E-03
ENSG00000150636	CCDC102B	68.95574101	-0.33134841	2.13E-03
ENSG00000272892		26.83624067	0.537547001	2.14E-03
ENSG00000170604	IRF2BP1	716.6646146	0.187589707	2.14E-03
ENSG00000047365	ARAP2	5020.761025	0.207032493	2.14E-03
ENSG00000165416	SUGT1	1334.69521	0.164342561	2.14E-03
ENSG00000273133		66.97058547	0.623756704	2.15E-03
ENSG00000274641	H2BC17	177.2583824	-0.543574811	2.15E-03
ENSG00000273837		171.3607723	0.60385993	2.15E-03
ENSG00000221066	SNORD111	18.85653596	0.576104539	2.15E-03
ENSG00000143162	CREG1	2535.331838	0.386681155	2.15E-03
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ENSG00000136827	TOR1A	1268.935843	0.297990609	2.16E-03
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ENSG00000139044	B4GALNT3	72.46607019	-0.550288828	2.18E-03
ENSG00000102678	FGF9	68.98109291	0.452738822	2.19E-03
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ENSG00000128394	APOBEC3F	786.9447569	0.323332802	2.21E-03
ENSG00000110848	CD69	1826.662579	0.523542001	2.21E-03
ENSG00000233411		244.9354508	-0.34158627	2.21E-03
ENSG00000231856		161.1182006	0.38401636	2.21E-03
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ENSG00000147050	KDM6A	3050.784048	-0.13894494	2.22E-03
ENSG00000140367	UBE2Q2	1117.782323	-0.156450402	2.22E-03
ENSG00000259447		12.90762744	1.213444462	2.23E-03
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ENSG00000099364	FBXL19	680.1309453	0.269361598	2.23E-03

ENSG00000170946	DNAJC24	464.5605239	0.149343386	2.23E-03
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ENSG00000237531		8.568319502	0.812397636	2.24E-03
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ENSG00000130713	EXOSC2	854.3845469	0.170553382	2.25E-03
ENSG00000282320	TRBJ1-1	23.09059882	0.61832348	2.25E-03
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ENSG00000162654	GBP4	5320.742252	0.643418755	2.28E-03
ENSG00000175820	CCDC168	36.12472135	0.534978029	2.28E-03
ENSG00000163191	S100A11	3904.412004	-0.473371011	2.28E-03
ENSG00000239726	RN7SL688P	54.59349068	0.528553515	2.28E-03
ENSG00000111252	SH2B3	4101.248797	0.349279643	2.29E-03
ENSG00000100564	PIGH	352.6970733	-0.226469424	2.29E-03
ENSG00000258727	AP1G2-AS1	663.2058228	-0.239196939	2.29E-03
ENSG00000171490	RSL1D1	2536.110952	0.159630402	2.29E-03
ENSG00000254709	IGLL5	82.68138524	-0.694598973	2.29E-03
ENSG00000168090	COPS6	733.8243158	-0.160688365	2.29E-03
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ENSG00000138688	KIAA1109	8281.827649	-0.220938846	2.32E-03
ENSG00000081052	COL4A4	98.06394418	-0.363662334	2.32E-03
ENSG00000131495	NDUFA2	469.6450532	-0.294622664	2.32E-03
ENSG00000155754	C2CD6	9.602396003	-1.26491769	2.32E-03
ENSG00000124171	PARD6B	174.1549395	0.226086539	2.32E-03
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ENSG00000183397	C19orf71	193.3501589	-0.333869771	2.32E-03
ENSG00000273836	MIR6842	17.13755408	0.589755675	2.32E-03
ENSG00000166926	MS4A6E	49.45642683	1.473761238	2.32E-03
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ENSG00000155465	SLC7A7	2570.577796	0.646763785	2.33E-03
ENSG00000282742		21.18009164	0.659447702	2.33E-03
ENSG00000179195	ZNF664	937.306226	0.16195081	2.34E-03
ENSG00000134668	SPOCD1	54.68621148	-1.280748611	2.34E-03
ENSG00000133872	SARAF	15171.38905	0.153173805	2.34E-03
ENSG00000078747	ITCH	3472.066637	-0.167141597	2.35E-03
ENSG00000138398	PPIG	1904.490747	0.200317445	2.35E-03
ENSG00000277840		26.3391685	-0.499079041	2.36E-03
ENSG00000174175	SELP	177.4062931	-0.548936232	2.36E-03
ENSG00000214534	ZNF705EP	19.3676205	-0.590810354	2.36E-03
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ENSG00000250654		36.5037969	0.460270279	2.40E-03
ENSG00000167676	PLIN4	365.1638142	-0.681585683	2.41E-03
ENSG00000137936	BCAR3	179.7336101	0.706943718	2.42E-03
ENSG00000263897	MIR4669	43.90378934	0.778889159	2.42E-03
ENSG00000246985	SOCS2-AS1	34.6902605	-0.550615452	2.42E-03
ENSG00000169248	CXCL11	25.90500055	2.253645585	2.42E-03
ENSG00000164124	TMEM144	72.12991447	-0.723456339	2.42E-03
ENSG00000187840	EIF4EBP1	227.6287337	-0.362296936	2.43E-03
ENSG00000221883	ARIH2OS	61.46781397	-0.416866936	2.43E-03
ENSG00000110841	PPFIBP1	139.8736698	-0.325397793	2.43E-03
ENSG00000113916	BCL6	6537.590696	0.478713151	2.44E-03
ENSG00000228137		15.27197416	0.629296481	2.44E-03
ENSG00000233621	ZC3H12A-DT	156.1307232	0.342221483	2.44E-03
ENSG00000226419	SLC16A1-AS1	355.8030023	0.195559251	2.44E-03
ENSG00000273108		16.64349247	-0.879770378	2.45E-03
ENSG00000198331	HYLS1	111.0006471	0.330961915	2.45E-03
ENSG00000268362		538.7466068	-0.188446164	2.45E-03
ENSG00000096996	IL12RB1	891.3005586	-0.216163396	2.45E-03
ENSG00000200783	RN7SKP180	22.26930432	-0.640401798	2.45E-03
ENSG00000092978	GPATCH2	413.4578609	0.161686249	2.46E-03
ENSG00000263884	THOC1-DT	64.48662024	0.355844942	2.46E-03
ENSG00000073849	ST6GAL1	4959.56587	0.166090982	2.46E-03
ENSG00000204130	RUFY2	622.3741788	-0.161530399	2.46E-03
ENSG00000266852	MIR4482	46.10250364	0.40795391	2.47E-03
ENSG00000266783		40.12004889	0.572021806	2.47E-03
ENSG00000272533	SNORA28	74.37790558	-0.437276326	2.50E-03
ENSG00000214530	STARD10	530.9983927	0.343447596	2.50E-03
ENSG00000108771	DHX58	1318.115135	0.526151612	2.51E-03
ENSG00000226352	PSPC1-AS2	37.07826018	0.502796702	2.52E-03
ENSG00000112290	WASF1	51.01722416	-0.383690681	2.52E-03
ENSG00000172005	MAL	491.9240245	-0.503891142	2.52E-03
ENSG00000138495	COX17	405.688823	0.202680754	2.52E-03
ENSG00000164258	NDUFS4	297.1697501	-0.226269147	2.53E-03
ENSG00000230124	ACBD6	1160.425	-0.169127508	2.53E-03
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ENSG00000149929	HIRIP3	144.690438	0.270742487	2.54E-03
ENSG00000129084	PSMA1	815.0072982	0.155105911	2.54E-03
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ENSG00000174780	SRP72	2284.685106	0.171148146	2.55E-03
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ENSG00000272469	RN7SL760P	27.10713176	0.61963433	2.57E-03
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ENSG00000244242	IFITM10	142.9118251	0.591704716	2.57E-03

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ENSG00000254207		67.31763852	-0.451417431	2.60E-03
ENSG00000277383		57.07199289	-0.420228589	2.60E-03
ENSG00000144893	MED12L	145.0586844	-0.50478153	2.61E-03
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ENSG00000105948	TTC26	58.10628253	-0.671845485	2.63E-03
ENSG00000261553		60.72713297	0.588044232	2.64E-03
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ENSG00000125875	TBC1D20	1307.391837	0.162204539	2.65E-03
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ENSG00000132600	PRMT7	1021.851292	-0.186510379	2.65E-03
ENSG00000228638	FCF1P2	96.65943776	0.287918975	2.65E-03
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ENSG00000087095	NLK	920.4059126	-0.111366238	2.66E-03
ENSG00000110852	CLEC2B	2115.843436	-0.34418096	2.67E-03
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ENSG00000113387	SUB1	3631.74475	-0.254354122	2.68E-03
ENSG00000100271	TTLL1	90.68272178	-0.306577969	2.68E-03
ENSG00000172936	MYD88	4409.671497	0.309092609	2.68E-03
ENSG00000255142		83.81395955	0.344722469	2.69E-03
ENSG00000175029	CTBP2	1618.14629	-0.326780359	2.70E-03
ENSG00000135966	TGFBRAP1	909.2682377	-0.146794941	2.70E-03
ENSG00000230510	PPP5D1P	41.05040439	0.332856231	2.70E-03
ENSG00000162736	NCSTN	1683.22082	-0.188583141	2.70E-03
ENSG00000233547		13.88049231	0.651872398	2.70E-03
ENSG00000237298	TTN-AS1	1917.737148	-0.156354183	2.70E-03
ENSG00000282989	PDCL3P2	25.93980963	-0.677521838	2.71E-03
ENSG00000165118	C9orf64	194.7543339	-0.199385988	2.71E-03
ENSG00000280237		187.0333211	-0.423967093	2.71E-03
ENSG00000173064	HECTD4	3607.010304	-0.204645062	2.72E-03
ENSG00000267096		58.19212305	-0.349803132	2.73E-03
ENSG00000185668	POU3F1	11.05584321	0.901654763	2.73E-03
ENSG00000163596	ICA1L	74.63291899	-0.375956647	2.73E-03
ENSG00000267179		28.67813752	0.473090026	2.73E-03
ENSG00000152457	DCLRE1C	921.6647463	-0.139962105	2.73E-03
ENSG00000171103	TRMT61B	333.2205479	-0.175170573	2.74E-03
ENSG00000170852	KBTBD2	2415.326302	0.162788362	2.74E-03
ENSG00000164535	DAGLB	1161.816287	-0.321564571	2.74E-03
ENSG00000065000	AP3D1	3076.300124	0.177929771	2.75E-03
ENSG00000163041	H3-3A	11622.3466	-0.290382796	2.75E-03
ENSG00000120137	PANK3	2392.411546	0.135201622	2.75E-03
ENSG00000086232	EIF2AK1	3156.119556	-0.380493226	2.75E-03

ENSG00000267065	LINC02080	22.57255683	0.579922987	2.75E-03
ENSG00000213928	IRF9	982.2469967	0.350128994	2.76E-03
ENSG00000018408	WWTR1	32.41445624	-0.415346571	2.76E-03
ENSG00000135116	HRK	66.71544813	0.464892019	2.76E-03
ENSG00000259476		10.80885877	0.810427222	2.77E-03
ENSG00000103876	FAH	229.3105723	-0.330485378	2.77E-03
ENSG00000254027	LNMICC	16.12875513	0.633198842	2.78E-03
ENSG00000164151	ICE1	2570.02929	0.10063685	2.78E-03
ENSG00000257613		35.23492341	-0.402131003	2.78E-03
ENSG00000168228	ZCCHC4	334.9235891	0.163036577	2.80E-03
ENSG00000165688	PMPCA	1013.6673	-0.128536419	2.81E-03
ENSG00000135617	PRADC1	103.9795676	-0.324630249	2.81E-03
ENSG00000117899	MESD	1275.813109	0.135669658	2.81E-03
ENSG00000166689	PLEKHA7	117.0591103	-0.314801538	2.81E-03
ENSG00000261040	WFDC21P	53.69531746	0.975869407	2.81E-03
ENSG00000148719	DNAJB12	1588.799547	-0.162291301	2.82E-03
ENSG00000267855	NDUFA7	76.8585445	-0.287272509	2.82E-03
ENSG00000198056	PRIM1	365.6122435	0.20290149	2.83E-03
ENSG00000252361	RNU6-118P	28.79372966	-0.497909743	2.83E-03
ENSG00000204103	MAFB	7514.171107	0.893821741	2.83E-03
ENSG00000104983	CCDC61	292.0841562	0.184433924	2.84E-03
ENSG00000250222	TRIM7-AS2	32.45307565	0.438535398	2.84E-03
ENSG00000117724	CENPF	268.4536812	0.504190658	2.86E-03
ENSG00000258316	KLF17P1	26.42671824	-0.483184887	2.87E-03
ENSG00000112414	ADGRG6	20.19927236	-0.688402111	2.87E-03
ENSG00000038002	AGA	333.8509698	-0.208569856	2.87E-03
ENSG00000204136	GGTA1	45.80318898	-0.946115112	2.88E-03
ENSG00000125845	BMP2	20.05350334	0.808036698	2.88E-03
ENSG00000178607	ERN1	4096.44487	0.229071363	2.88E-03
ENSG00000225423	TNPO1P1	170.2614432	0.409486641	2.89E-03
ENSG00000228079		53.37492129	0.631109201	2.89E-03
ENSG00000228363	CHMP3-AS1	25.07023039	-0.575753487	2.90E-03
ENSG00000235194	PPP1R3E	1431.634139	0.183146689	2.90E-03
ENSG00000054148	PHPT1	316.325677	-0.294217238	2.90E-03
ENSG00000269894		30.61327296	0.490925608	2.91E-03
ENSG00000102409	BEX4	344.5485786	-0.253361057	2.91E-03
ENSG00000169860	P2RY1	175.0494751	-0.616737027	2.91E-03
ENSG00000075340	ADD2	309.569753	0.507426258	2.92E-03
ENSG00000251637	LINC02754	60.3442006	0.738798701	2.92E-03
ENSG00000139725	RHOF	2721.538124	0.20269986	2.93E-03
ENSG00000276248		122.2554077	0.589701391	2.94E-03
ENSG00000263456	MIR5189	28.53961248	-0.544735037	2.94E-03
ENSG00000084092	NOA1	687.6186051	-0.199406847	2.94E-03
ENSG00000100462	PRMT5	567.9801632	0.301211078	2.96E-03
ENSG00000067082	KLF6	11297.53709	-0.236116232	2.97E-03
ENSG00000204227	RING1	767.0158408	0.151795013	2.97E-03
ENSG00000233013	FAM157B	283.9525411	-0.709088718	2.99E-03
ENSG00000127527	EPS15L1	2224.882346	-0.270889839	2.99E-03
ENSG00000196114	IFITM3P3	27.00734613	-0.561306015	2.99E-03
ENSG00000281357	ARRDC3-AS1	122.3308823	0.265384646	2.99E-03
ENSG00000182700	IGIP	409.4383117	0.242338052	2.99E-03

ENSG00000100664	EIF5	7516.760496	-0.186133214	3.00E-03
ENSG00000266237		23.51427717	0.592025182	3.00E-03
ENSG00000197301	HMG2A-AS1	22.17870227	0.83452258	3.01E-03
ENSG00000131462	TUBG1	170.9198532	0.298172132	3.01E-03
ENSG00000248714	ZNF652-AS1	51.6131842	-0.340148825	3.01E-03
ENSG00000186141	POLR3C	879.4947015	0.130148408	3.02E-03
ENSG00000142583	SLC2A5	187.3967551	0.624040527	3.04E-03
ENSG00000234534	CSNK1G2P1	67.80217836	-0.459101483	3.04E-03
ENSG00000237541	HLA-DQA2	298.3090616	0.385188521	3.05E-03
ENSG00000164081	TEX264	833.4497903	-0.199016079	3.05E-03
ENSG00000275613		32.46121783	0.524197877	3.06E-03
ENSG00000262408		46.70746174	-0.607495213	3.06E-03
ENSG00000278949		213.5672273	-0.251092496	3.07E-03
ENSG00000113360	DROSHA	918.1166439	0.164389364	3.07E-03
ENSG00000096092	TMEM14A	76.67483588	-0.302556761	3.08E-03
ENSG00000272758	WDR5B-DT	233.7738056	0.224975111	3.08E-03
ENSG00000279583		56.52995775	0.327125399	3.08E-03
ENSG00000132781	MUTYH	514.6690399	-0.220624596	3.08E-03
ENSG00000216490	IFI30	878.5490718	0.480116719	3.09E-03
ENSG00000264546		63.17145119	0.378426529	3.09E-03
ENSG00000126467	TSKS	21.85302639	-0.677963691	3.10E-03
ENSG00000097007	ABL1	1561.198388	0.271937562	3.12E-03
ENSG00000196267	ZNF836	332.6264242	0.257355052	3.12E-03
ENSG00000179776	CDH5	11.53866262	-1.935101011	3.12E-03
ENSG00000186866	POFUT2	1363.321374	-0.188637827	3.13E-03
ENSG00000197077	KIAA1671	570.7231289	0.587870737	3.13E-03
ENSG00000100324	TAB1	806.221181	-0.184023216	3.13E-03
ENSG00000171160	MORN4	26.49110157	0.534039425	3.14E-03
ENSG00000267121	FMNL1-DT	2570.290376	0.617474969	3.14E-03
ENSG00000163535	SGO2	167.4009035	0.314523608	3.14E-03
ENSG00000151692	RNF144A	1035.904651	-0.470990342	3.14E-03
ENSG00000262333	HNRNPA1P16	27.91159713	0.424697459	3.16E-03
ENSG00000278991		85.33427336	-0.297069207	3.16E-03
ENSG00000178115	GOLGA8Q	17.450304	-0.577861661	3.17E-03
ENSG00000160691	SHC1	1393.293633	-0.119036091	3.17E-03
ENSG00000253873	PCDHGA11	21.97633571	0.463483996	3.17E-03
ENSG00000081721	DUSP12	297.866713	-0.196569263	3.17E-03
ENSG00000130545	CRB3	27.96613178	-0.482894128	3.17E-03
ENSG00000162889	MAPKAPK2	5145.465839	0.266016891	3.18E-03
ENSG00000250286		12.06839801	0.739947846	3.18E-03
ENSG00000145819	ARHGAP26	5402.764405	-0.315494652	3.18E-03
ENSG00000273226		42.53357734	-0.358103526	3.18E-03
ENSG00000272440		17.70682906	0.553349783	3.19E-03
ENSG00000174238	PITPNA	2772.341362	0.341195095	3.19E-03
ENSG00000267766		19.41279396	-0.577932172	3.20E-03
ENSG00000205482	SPDYE18	48.515653	-0.336765077	3.21E-03
ENSG00000227039	ITGB2-AS1	1097.643057	-0.483391598	3.21E-03
ENSG00000111229	ARPC3	4110.796685	-0.219505118	3.22E-03
ENSG00000101901	ALG13	1755.426697	0.143571393	3.22E-03
ENSG00000151229	SLC2A13	337.9472279	-0.209000684	3.22E-03
ENSG00000100058	CRYBB2P1	564.9443987	0.200341389	3.23E-03

ENSG00000109790	KLHL5	1741.597132	0.339719637	3.23E-03
ENSG00000259065		45.72108403	-0.36592495	3.23E-03
ENSG00000071462	BUD23	765.3603764	-0.193577358	3.25E-03
ENSG00000154059	IMPACT	344.0208605	-0.242360511	3.25E-03
ENSG00000254362		82.45874248	-0.448662781	3.25E-03
ENSG00000177469	CAVIN1	46.87931954	-1.385656027	3.26E-03
ENSG00000119004	CYP20A1	700.533689	0.156015547	3.26E-03
ENSG00000160469	BRSK1	34.96525655	-0.451772415	3.26E-03
ENSG00000255052	FAM66D	22.12210003	-0.502516905	3.26E-03
ENSG00000257923	CUX1	3707.743911	0.231108455	3.26E-03
ENSG00000230131	LINC02641	11.06564504	-0.866755165	3.27E-03
ENSG00000259962		23.02745978	-1.049323151	3.28E-03
ENSG00000229644	NAMPTP1	111.5187805	0.522557057	3.28E-03
ENSG00000167106	FAM102A	8760.092639	0.336365133	3.29E-03
ENSG00000279148		33.05973726	-0.412244237	3.30E-03
ENSG00000213057	C1orf220	95.23026221	0.353279012	3.30E-03
ENSG00000164758	MED30	373.2208111	-0.257271084	3.30E-03
ENSG00000122884	P4HA1	1013.106124	0.355384883	3.30E-03
ENSG00000228950		19.23905709	0.766783576	3.30E-03
ENSG00000106537	TSPAN13	211.4594872	0.422318818	3.30E-03
ENSG00000137133	HINT2	137.83189	-0.311501992	3.31E-03
ENSG00000125457	MIF4GD	475.0853814	-0.293087394	3.31E-03
ENSG00000148690	FRA10AC1	613.2473846	0.202123463	3.32E-03
ENSG00000207484		26.21319508	0.547167425	3.33E-03
ENSG00000243364	EFNA4	116.894945	-0.238448965	3.33E-03
ENSG00000115318	LOXL3	169.1596005	-0.587599473	3.33E-03
ENSG00000263400	TMEM220-AS1	32.45910027	-0.481755771	3.34E-03
ENSG00000125703	ATG4C	357.98228	0.198805562	3.34E-03
ENSG00000260778	MIR3677HG	70.35288589	0.449902515	3.34E-03
ENSG00000263731		130.1248267	-0.284511474	3.34E-03
ENSG00000157800	SLC37A3	628.6926437	-0.288751961	3.34E-03
ENSG00000166507	NDST2	184.9377381	-0.324308819	3.34E-03
ENSG00000122543	OCM	64.72142605	-0.420885796	3.35E-03
ENSG00000252118	RNU6ATAC39P	13.88381714	-0.842456248	3.36E-03
ENSG00000123200	ZC3H13	1872.200959	0.207613354	3.36E-03
ENSG00000075856	SART3	1773.707223	0.139078484	3.36E-03
ENSG00000189376	C8orf76	174.63322	0.190143545	3.37E-03
ENSG00000105518	TMEM205	482.7823313	0.289897888	3.37E-03
ENSG00000261136		131.9431076	0.37308056	3.37E-03
ENSG00000278972		52.21151366	-0.558916225	3.37E-03
ENSG00000126070	AGO3	2537.647619	0.148882452	3.38E-03
ENSG00000252627	RNU6-122P	17.30499076	0.682988881	3.38E-03
ENSG00000161958	FGF11	36.14283956	0.424622102	3.39E-03
ENSG00000229391	HLA-DRB6	144.6249027	-0.53993974	3.39E-03
ENSG00000089177	KIF16B	402.5106911	-0.255422208	3.39E-03
ENSG00000130433	CACNG6	38.07877959	-0.708955124	3.40E-03
ENSG00000127952	STYXL1	454.7627283	0.195774147	3.40E-03
ENSG00000282978		73.26372875	0.551437736	3.40E-03
ENSG00000133315	MACROD1	95.60970966	0.27373777	3.41E-03
ENSG00000103005	USB1	1697.163892	-0.29728385	3.41E-03
ENSG00000267470	ZNF571-AS1	21.61242291	-0.470290046	3.41E-03

ENSG00000230189	RABGEF1P2	20.46769297	0.54069321	3.42E-03
ENSG00000272994	C2orf49-DT	103.125144	-0.30808796	3.42E-03
ENSG00000085563	ABCB1	1054.399714	0.415376085	3.42E-03
ENSG00000144559	TAMM41	642.9738968	0.198287733	3.42E-03
ENSG00000116212	LRRC42	177.7440016	-0.221052688	3.43E-03
ENSG00000134294	SLC38A2	4421.7641	-0.200074807	3.43E-03
ENSG00000070915	SLC12A3	26.82350518	0.559172206	3.44E-03
ENSG00000137343	ATAT1	170.1443915	0.26955787	3.44E-03
ENSG00000100897	DCAF11	2039.605645	-0.235328436	3.44E-03
ENSG00000048140	TSPAN17	911.5463921	0.277548956	3.44E-03
ENSG00000177990	DPY19L2	89.45443886	0.400421614	3.45E-03
ENSG00000182628	SKA2	211.9527202	-0.249276637	3.45E-03
ENSG00000184898	RBM43	450.7511463	-0.27306658	3.45E-03
ENSG00000245017	LINC02453	19.58343334	-0.657933198	3.45E-03
ENSG00000260742	ITPRID2-DT	20.95531908	-0.542935909	3.45E-03
ENSG00000237525		9.874098345	-1.523240127	3.45E-03
ENSG00000276758		35.7995724	-0.776548586	3.46E-03
ENSG00000160766	GBAP1	83.90778566	0.27669077	3.46E-03
ENSG00000197081	IGF2R	12012.48184	-0.437550422	3.47E-03
ENSG00000240015		22.79039778	-0.438314836	3.47E-03
ENSG00000099840	IZUMO4	88.5260821	-0.315224589	3.47E-03
ENSG00000187653	TMSB4XP8	86.67381109	0.337522176	3.48E-03
ENSG00000131196	NFATC1	1820.139737	0.160556412	3.48E-03
ENSG00000123415	SMUG1	521.6058439	0.28104496	3.49E-03
ENSG00000160961	ZNF333	1278.137599	0.196562248	3.49E-03
ENSG00000152689	RASGRP3	691.7249094	0.346987378	3.50E-03
ENSG00000167618	LAIR2	74.32107651	0.508022487	3.51E-03
ENSG00000140391	TSPAN3	838.9989782	0.174371167	3.51E-03
ENSG00000228172		71.8166968	-0.36928523	3.51E-03
ENSG00000117090	SLAMF1	991.796613	0.274281164	3.52E-03
ENSG00000196581	AJAP1	39.59292266	-0.622207581	3.52E-03
ENSG00000256139		44.49102778	-0.37115691	3.53E-03
ENSG00000271257		27.44757902	1.128204111	3.54E-03
ENSG00000137563	GGH	53.1225156	0.378398975	3.54E-03
ENSG00000170802	FOXN2	2188.240994	-0.234074898	3.55E-03
ENSG00000261529		63.40610257	0.454439087	3.56E-03
ENSG00000101367	MAPRE1	3056.988267	0.183986102	3.56E-03
ENSG00000277170		29.34569348	0.423668362	3.57E-03
ENSG00000138592	USP8	2837.444367	0.161181004	3.57E-03
ENSG00000046604	DSG2	38.57423076	0.647636579	3.58E-03
ENSG00000211687	TRGJ2	23.87399899	0.547904729	3.58E-03
ENSG00000278700		51.28107769	-0.348766144	3.58E-03
ENSG00000159023	EPB41	17966.50707	-0.395557222	3.59E-03
ENSG00000186710	CFAP73	8.336360245	0.878113779	3.59E-03
ENSG00000157554	ERG	35.54093783	0.607661367	3.59E-03
ENSG00000101216	GMEB2	1135.046331	-0.143015435	3.59E-03
ENSG00000103274	NUBP1	598.0157417	0.146703768	3.60E-03
ENSG00000144959	NCEH1	452.1450781	-0.549070433	3.60E-03
ENSG00000183020	AP2A2	1953.663994	-0.178063033	3.61E-03
ENSG00000176236	RPP38-DT	13.58086978	-0.767778165	3.61E-03
ENSG00000119446	RBM18	711.1051721	0.198099917	3.62E-03

ENSG00000182944	EWSR1	5592.127879	0.112746544	3.62E-03
ENSG00000119986	AVPI1	172.6997666	-0.398278878	3.63E-03
ENSG00000264937		16.02283027	-0.555746978	3.63E-03
ENSG00000181652	ATG9B	125.6964713	-0.25460923	3.63E-03
ENSG00000250889		187.1626374	0.319837128	3.64E-03
ENSG00000118873	RAB3GAP2	1939.801436	0.117620474	3.64E-03
ENSG00000270096		46.43685378	0.354099117	3.64E-03
ENSG00000149346	SLX4IP	512.2007835	0.183872231	3.64E-03
ENSG00000243107		75.43074915	-0.33784594	3.64E-03
ENSG00000141295	SCRN2	526.0273818	-0.204637116	3.65E-03
ENSG00000107290	SETX	9076.88001	-0.163106839	3.65E-03
ENSG00000089558	KCNH4	734.9597177	1.698536016	3.65E-03
ENSG00000204267	TAP2	1896.430765	-0.349386273	3.65E-03
ENSG00000121858	TNFSF10	2342.613425	-0.660037107	3.65E-03
ENSG00000242294	STAG3L5P	688.4020066	-0.178718034	3.66E-03
ENSG00000005194	CIAPIN1	559.168344	0.141899342	3.66E-03
ENSG00000164332	UBLCP1	1055.143685	0.190090517	3.67E-03
ENSG00000224660	SH3BP5-AS1	1357.015917	-0.172646947	3.68E-03
ENSG00000116761	CTH	51.47055816	-0.358220312	3.68E-03
ENSG00000100767	PAPLN	187.0239995	-0.62010379	3.69E-03
ENSG00000177301	KCNA2	64.15716581	-0.596054612	3.70E-03
ENSG00000115525	ST3GAL5	1940.017361	0.25209973	3.70E-03
ENSG00000198464	ZNF480	585.3175035	0.196576688	3.71E-03
ENSG00000222020	HDAC4-AS1	56.90607469	0.410759957	3.71E-03
ENSG00000128218	VPREB3	139.0780929	-0.397838711	3.73E-03
ENSG00000268521	VN1R83P	106.3433062	0.30927153	3.74E-03
ENSG00000072840	EVC	97.38208415	-0.410715271	3.74E-03
ENSG00000113621	TXNDC15	686.3609746	0.135252556	3.74E-03
ENSG00000267436		58.88212832	-0.404332411	3.75E-03
ENSG00000091844	RGS17	9.75349871	-0.895354542	3.75E-03
ENSG00000234345	ELF2P1	23.17549585	-0.472763334	3.75E-03
ENSG00000259772		11.5637736	-0.79752763	3.77E-03
ENSG00000202347	RNU1-16P	20.03130671	-0.495123338	3.77E-03
ENSG00000247934		56.35115084	-0.386563098	3.77E-03
ENSG00000269524		21.66680949	-0.824371834	3.78E-03
ENSG00000271851		50.49296345	0.377333418	3.79E-03
ENSG00000272735		118.4450288	0.376355954	3.79E-03
ENSG00000159784	FAM131B	69.75461161	-0.413797935	3.79E-03
ENSG00000114812	VIPR1	1067.817174	-0.378358262	3.80E-03
ENSG00000086666	ZFAND6	2419.461168	-0.220897958	3.80E-03
ENSG00000005001	PRSS22	10.68865715	-0.86843977	3.80E-03
ENSG00000150455	TIRAP	459.8193621	0.257827644	3.81E-03
ENSG00000238317	SNORD11	34.03069257	-0.505470117	3.82E-03
ENSG00000129559	NEDD8	776.1643793	-0.148692461	3.82E-03
ENSG00000177025	C19orf18	19.444221	-0.49989064	3.84E-03
ENSG00000185721	DRG1	701.7517086	0.154445297	3.84E-03
ENSG00000283294		14.96470765	-0.622085449	3.84E-03
ENSG00000171135	JAGN1	512.9923315	0.168397393	3.84E-03
ENSG00000143294	PRCC	1394.210099	0.130915155	3.84E-03
ENSG00000175787	ZNF169	495.8959806	0.190994354	3.85E-03
ENSG00000214367	HAUS3	987.0768981	0.160999533	3.85E-03

ENSG00000138382	METTL5	355.5570033	0.174031664	3.85E-03
ENSG00000139174	PRICKLE1	87.06357465	0.336352967	3.85E-03
ENSG00000236810	ELOA-AS1	110.3001799	0.262766402	3.85E-03
ENSG00000204264	PSMB8	2210.411774	-0.251252487	3.85E-03
ENSG00000119950	MXI1	2410.974793	-0.472368471	3.86E-03
ENSG00000203819		68.94819263	-0.36602882	3.86E-03
ENSG00000162594	IL23R	24.56700916	-0.844649123	3.87E-03
ENSG00000168653	NDUFS5	351.8727793	0.270472345	3.87E-03
ENSG00000189266	PNRC2	3498.259426	0.16276303	3.87E-03
ENSG00000196116	TDRD7	1286.798064	0.349596571	3.88E-03
ENSG00000136878	USP20	2221.433992	-0.136925063	3.88E-03
ENSG00000176076	KCNE5	23.30276579	0.688579036	3.89E-03
ENSG00000196378	ZNF34	169.5722028	-0.180965003	3.89E-03
ENSG00000173391	OLR1	3193.817823	1.732842629	3.89E-03
ENSG00000237669		74.347318	0.344424278	3.89E-03
ENSG00000105486	LIG1	1107.69354	-0.190489179	3.90E-03
ENSG00000229368		65.39677856	-0.327149903	3.91E-03
ENSG00000258831		30.01605473	1.273286458	3.91E-03
ENSG00000120833	SOCS2	222.7547737	-0.527440741	3.91E-03
ENSG00000117650	NEK2	19.49433115	0.646402705	3.91E-03
ENSG00000234776	C11orf94	31.2713048	-0.49045543	3.91E-03
ENSG00000256771	ZNF253	392.6268486	0.205220342	3.92E-03
ENSG00000199471		18.11536328	0.501508986	3.93E-03
ENSG00000072274	TFRC	3431.878765	0.342840503	3.93E-03
ENSG00000239969		60.70413908	0.33431446	3.93E-03
ENSG00000232063		20.68571401	-0.661943686	3.95E-03
ENSG00000156502	SUPV3L1	547.6896399	-0.231441589	3.95E-03
ENSG00000101343	CRNKL1	1321.817808	-0.114948169	3.96E-03
ENSG00000207233	SNORA37	46.02233983	-0.348861907	3.96E-03
ENSG00000226801	OSTCP8	22.91025189	0.446954752	3.96E-03
ENSG00000076258	FMO4	90.29063916	0.264937742	3.96E-03
ENSG00000109854	HTATIP2	818.4608486	-0.227787246	3.97E-03
ENSG00000135845	PIGC	717.6220264	-0.29462948	3.98E-03
ENSG00000110400	NECTIN1	258.7096548	0.375169343	3.99E-03
ENSG00000137965	IFI44	2605.464226	0.895295717	3.99E-03
ENSG00000162688	AGL	818.3620552	-0.159692831	4.00E-03
ENSG00000116580	GON4L	2985.311127	0.108627142	4.00E-03
ENSG00000242889	RN7SL449P	34.79461564	-0.429547063	4.01E-03
ENSG00000119969	HELLS	258.7649417	-0.251649277	4.01E-03
ENSG00000276916		31.93533354	0.632560054	4.01E-03
ENSG00000117020	AKT3	2502.781084	0.181060702	4.02E-03
ENSG00000228719		40.19291065	-0.533875037	4.03E-03
ENSG00000275902		19.95410683	0.644484734	4.03E-03
ENSG00000257524		174.2605699	0.365962122	4.03E-03
ENSG00000178397	FAM220A	366.0444987	0.250351789	4.05E-03
ENSG00000226180		143.7076702	-0.275129073	4.05E-03
ENSG00000153721	CNKS3	14.11317861	-0.868098873	4.05E-03
ENSG00000224988		29.38660743	0.425765309	4.05E-03
ENSG00000005339	CREBBP	6878.554791	-0.213912066	4.05E-03
ENSG00000115649	CNPPD1	1931.888359	-0.221231082	4.05E-03
ENSG00000139211	AMIGO2	316.0835587	0.204773445	4.06E-03

ENSG00000174231	PRPF8	6541.540745	-0.219385344	4.06E-03
ENSG00000042445	RETSAT	509.809866	-0.149314904	4.08E-03
ENSG00000261777	DDX19A-DT	25.2130346	0.449027722	4.09E-03
ENSG00000143742	SRP9	1942.125927	-0.157943408	4.09E-03
ENSG00000213079	SCAF8	2533.963884	-0.115374203	4.09E-03
ENSG00000100003	SEC14L2	181.1174766	-0.387931349	4.11E-03
ENSG00000184787	UBE2G2	2231.860679	0.103843921	4.11E-03
ENSG00000182183	SHISAL2A	918.5721777	0.326079332	4.11E-03
ENSG00000226281		9.153011136	-1.134350488	4.11E-03
ENSG00000153107	ANAPC1	1231.179597	0.135599742	4.12E-03
ENSG00000260166		34.39165725	-0.399610913	4.12E-03
ENSG00000272654	JTB-DT	32.90995067	0.433400871	4.12E-03
ENSG00000166595	CIAO2B	587.4038912	0.222410038	4.13E-03
ENSG00000101782	RIOK3	4029.323099	-0.421648461	4.13E-03
ENSG00000010626	LRRC23	104.3510784	-0.283448083	4.13E-03
ENSG00000104728	ARHGEF10	47.32228954	0.546165188	4.13E-03
ENSG00000229961		31.9697955	-0.74742296	4.15E-03
ENSG00000230772	VN1R108P	17.29435484	0.876019771	4.16E-03
ENSG00000231130	HLA-T	14.50793265	-0.632578758	4.16E-03
ENSG00000247363	NUP107-DT	40.56086208	0.3884617	4.17E-03
ENSG00000164889	SLC4A2	1585.437077	0.319929621	4.18E-03
ENSG00000198954	KIFBP	294.6323092	0.196374008	4.19E-03
ENSG00000166435	XRRA1	667.0346559	0.199286015	4.19E-03
ENSG00000104064	GABPB1	2622.734995	0.120369905	4.20E-03
ENSG00000233040	FAM204BP	39.95387792	-0.396871151	4.21E-03
ENSG00000152454	ZNF256	241.5368559	-0.311519621	4.21E-03
ENSG00000225948	LINC02648	123.8773815	-0.382709396	4.21E-03
ENSG00000148834	GSTO1	2046.093097	0.444859761	4.21E-03
ENSG00000090615	GOLGA3	2927.001285	0.168129303	4.22E-03
ENSG00000133321	PLAAT4	1688.840014	0.254489064	4.22E-03
ENSG00000075223	SEMA3C	491.6721481	0.49736659	4.22E-03
ENSG00000156113	KCNMA1	51.71803128	-0.777297101	4.24E-03
ENSG00000104886	PLEKHJ1	947.1080643	0.196845901	4.25E-03
ENSG00000240710		161.0492154	-0.287002628	4.25E-03
ENSG00000160633	SAFB	2999.394645	0.172152751	4.26E-03
ENSG00000180921	FAM83H	144.2815112	-0.353267655	4.26E-03
ENSG00000235672		25.82358891	0.420091686	4.26E-03
ENSG00000250410	LRP2BP-AS1	40.39418499	0.437274345	4.27E-03
ENSG00000153165	RGPD3	37.09926693	0.332799061	4.27E-03
ENSG00000117360	PRPF3	1813.636632	-0.089055182	4.28E-03
ENSG00000184497	TMEM255B	137.9932777	0.326729342	4.28E-03
ENSG00000134480	CCNH	3007.279568	0.162101106	4.28E-03
ENSG00000180011	ZADH2	1644.267201	0.173197437	4.28E-03
ENSG00000137337	MDC1	947.7881871	0.15399385	4.28E-03
ENSG00000234292		162.565889	0.656657974	4.29E-03
ENSG00000198162	MAN1A2	2983.062197	-0.185150861	4.30E-03
ENSG00000160013	PTGIR	347.1372584	0.412760889	4.30E-03
ENSG00000146859	TMEM140	3945.478708	0.354012529	4.30E-03
ENSG00000135317	SNX14	1883.635397	-0.110189981	4.31E-03
ENSG00000151948	GLT1D1	1867.839298	-0.517693379	4.32E-03
ENSG00000178537	SLC25A20	509.3556599	-0.202204584	4.32E-03

ENSG00000263327	TAPT1-AS1	253.4459351	0.291963616	4.33E-03
ENSG00000003436	TFPI	208.3476524	0.583273967	4.34E-03
ENSG00000122035	RASL11A	33.50106409	0.439803615	4.34E-03
ENSG00000136573	BLK	1018.598511	-0.209522584	4.34E-03
ENSG00000055163	CYFIP2	10311.76154	0.186662472	4.35E-03
ENSG00000111057	KRT18	46.44438943	-0.381968617	4.36E-03
ENSG00000234614	C2CD4D-AS1	104.3552424	-0.290285285	4.37E-03
ENSG00000277400		15.57058099	0.582808111	4.37E-03
ENSG00000124593		40.00149265	-0.450971767	4.38E-03
ENSG00000181222	POLR2A	5966.342789	-0.241213541	4.38E-03
ENSG00000133789	SWAP70	2041.653589	0.465303841	4.39E-03
ENSG00000266371		28.62977462	0.746397798	4.41E-03
ENSG00000171823	FBXL14	881.665001	0.174361674	4.42E-03
ENSG00000167524	RSKR	261.6437587	-0.264801876	4.42E-03
ENSG00000216863	LY86-AS1	19.81832234	-0.612776465	4.43E-03
ENSG00000102038	SMARCA1	28.39598673	0.434572769	4.43E-03
ENSG00000251535		35.87885264	-0.434875	4.44E-03
ENSG00000228705	LINC00659	50.54285236	0.509142465	4.44E-03
ENSG00000261219		32.08196654	-0.344187076	4.46E-03
ENSG00000231312	MAP4K3-DT	46.82991175	-0.32185338	4.46E-03
ENSG00000054118	THRAP3	4493.697079	0.129037357	4.47E-03
ENSG00000120690	ELF1	7012.550531	0.196163054	4.47E-03
ENSG00000234869	LINC02925	11.62812128	1.246426931	4.47E-03
ENSG00000127124	HIVEP3	1849.266761	0.628189167	4.47E-03
ENSG00000138071	ACTR2	12168.71381	-0.177595885	4.47E-03
ENSG00000205758	CRYZL1	603.1567273	-0.126693576	4.48E-03
ENSG00000262227		67.98749412	0.341268732	4.48E-03
ENSG00000066294	CD84	3554.901638	-0.283056375	4.48E-03
ENSG00000232915	RNF14P1	37.44786796	0.665417036	4.48E-03
ENSG00000229018	PMS2P7	29.83488633	0.386564065	4.49E-03
ENSG00000237522	NONOP2	44.5133603	-0.340496344	4.50E-03
ENSG00000278828	H3C10	1151.05732	-0.396832651	4.51E-03
ENSG00000196924	FLNA	39293.0422	0.334537402	4.52E-03
ENSG00000043143	JADE2	5762.513391	0.123231932	4.53E-03
ENSG00000164597	COG5	1776.398888	-0.110746643	4.53E-03
ENSG00000149308	NPAT	2519.075912	0.17682573	4.54E-03
ENSG00000056972	TRAF3IP2	440.2320135	0.206550245	4.55E-03
ENSG00000110723	EXPH5	130.7307005	-0.267068097	4.56E-03
ENSG00000246366	LACTB2-AS1	43.77146235	-0.374672951	4.57E-03
ENSG00000154016	GRAP	1285.446486	0.36695575	4.58E-03
ENSG00000058799	YIPF1	466.6351572	-0.304624922	4.58E-03
ENSG00000258325	ITFG2-AS1	32.70441549	-0.362915915	4.60E-03
ENSG00000168487	BMP1	121.3499908	-0.268814452	4.60E-03
ENSG00000276073		51.2715853	0.3163148	4.61E-03
ENSG00000147799	ARHGAP39	22.09958482	0.477628578	4.61E-03
ENSG00000113456	RAD1	521.0700266	0.130817895	4.62E-03
ENSG00000144827	ABHD10	505.0496013	-0.190108658	4.64E-03
ENSG00000277728		41.86404942	0.530005419	4.64E-03
ENSG00000257225		11.85514874	0.703768016	4.64E-03
ENSG00000202150	RNU6-407P	36.62219489	0.486442355	4.66E-03
ENSG00000125656	CLPP	573.2454108	-0.215800051	4.67E-03

ENSG00000163611	SPICE1	809.1057888	0.277674635	4.67E-03
ENSG00000175455	CCDC14	1005.069033	-0.148956923	4.68E-03
ENSG00000225992	TRGVA	14.51141425	0.630581086	4.69E-03
ENSG00000254838	GVINP1	6439.551197	0.278803074	4.69E-03
ENSG00000172724	CCL19	23.50778051	1.545317171	4.69E-03
ENSG00000077235	GTF3C1	2432.307641	-0.129755136	4.70E-03
ENSG00000272056		34.65196942	-0.353582897	4.70E-03
ENSG00000181450	ZNF678	417.2610551	0.187393234	4.70E-03
ENSG00000139168	ZCRB1	273.8219906	-0.243624325	4.71E-03
ENSG00000042832	TG	260.7580316	0.495542465	4.73E-03
ENSG00000206921	RNU6-481P	32.00878729	0.478360387	4.73E-03
ENSG00000086589	RBM22	1639.689132	0.107306043	4.73E-03
ENSG00000199165	MIRLET7A1	20.30357057	-0.575235707	4.73E-03
ENSG00000101882	NKAP	656.0440232	-0.139205786	4.75E-03
ENSG00000142025	DMRTC2	23.20318176	-0.86368418	4.75E-03
ENSG00000162851	TFB2M	258.0891273	0.181189563	4.76E-03
ENSG00000256152		55.90493814	-0.356319052	4.79E-03
ENSG00000205323	SARNP	188.4958681	-0.170117399	4.79E-03
ENSG00000176160	HSF5	91.29568535	0.248076079	4.79E-03
ENSG00000266947		470.9310047	0.229974318	4.79E-03
ENSG00000177646	ACAD9	1024.549843	0.150496517	4.80E-03
ENSG00000063176	SPHK2	545.1190562	-0.163179613	4.80E-03
ENSG00000268027		1024.663851	0.172955209	4.81E-03
ENSG00000278493		38.10123287	0.533746772	4.81E-03
ENSG00000131459	GFPT2	134.4603651	0.576853993	4.82E-03
ENSG00000274818		12.14684374	-0.770844007	4.82E-03
ENSG00000127922	SEM1	632.4586796	0.152064912	4.82E-03
ENSG00000100764	PSMC1	1006.074564	-0.159373537	4.85E-03
ENSG00000264864	MIR3613	31.33854338	0.480720788	4.85E-03
ENSG00000282206		28.79234624	0.507255616	4.86E-03
ENSG00000167780	SOAT2	10.05129289	-0.959054131	4.87E-03
ENSG00000234664	HMG2P5	23.99382248	-0.500785423	4.89E-03
ENSG00000101115	SALL4	8.595613182	0.848992613	4.89E-03
ENSG00000141447	OSBPL1A	191.6082748	-0.566407508	4.90E-03
ENSG00000101391	CDK5RAP1	957.9143889	0.133233214	4.90E-03
ENSG00000106610	STAG3L4	296.4759849	-0.206359988	4.90E-03
ENSG00000245213	GALNT7-DT	115.2417611	0.406188734	4.91E-03
ENSG00000156535	CD109	148.8991626	0.557571841	4.91E-03
ENSG00000215012	RTL10	933.2810173	0.244599735	4.92E-03
ENSG00000116473	RAP1A	3655.686227	-0.203204296	4.94E-03
ENSG00000159658	EFCAB14	4105.148626	0.113779205	4.94E-03
ENSG00000248905	FMN1	699.6738621	-0.540374169	4.94E-03
ENSG00000166225	FRS2	916.6651615	-0.131724476	4.98E-03
ENSG00000172426	RSPH9	17.49027616	-0.804656486	5.01E-03
ENSG00000283900	TPTEP2-CSNK1E	29.66025718	-0.473412488	5.02E-03
ENSG00000086730	LAT2	3687.423903	-0.469310901	5.03E-03
ENSG00000053371	AKR7A2	386.0346676	-0.212768345	5.03E-03
ENSG00000187522	HSPA14	314.7506763	-0.181038341	5.04E-03
ENSG00000248863		97.66542742	0.350840914	5.05E-03
ENSG00000137275	RIPK1	1590.821198	-0.139309031	5.06E-03
ENSG00000175556	LONRF3	687.0686423	0.329821654	5.06E-03

ENSG00000144026	ZNF514	676.9059683	0.152835293	5.06E-03
ENSG00000138085	ATRAID	813.4226844	-0.249278353	5.07E-03
ENSG00000152061	RABGAP1L	4842.071146	-0.148912784	5.07E-03
ENSG00000232040	ZBED9	8.662822067	0.816925251	5.08E-03
ENSG00000164483	SAMD3	800.0549167	-0.188867878	5.08E-03
ENSG00000269825		378.5591377	0.254538254	5.08E-03
ENSG00000197580	BCO2	36.03116548	-0.337346385	5.09E-03
ENSG00000154144	TBRG1	1879.548707	0.119116322	5.09E-03
ENSG00000106638	TBL2	905.5271133	0.368440827	5.09E-03
ENSG00000171861	MRM3	337.0415624	-0.211690981	5.10E-03
ENSG00000214188	ST7-OT4	36.38765218	-0.413072618	5.12E-03
ENSG00000169570	DTWD2	125.6150541	-0.270716329	5.15E-03
ENSG00000117906	RCN2	628.9846549	-0.160046675	5.15E-03
ENSG00000100997	ABHD12	788.4132607	-0.207784261	5.16E-03
ENSG00000267787		133.975558	-0.2339178	5.20E-03
ENSG00000188483	IER5L	325.2605059	-0.408124724	5.21E-03
ENSG00000132823	OSER1	1953.976606	-0.245416726	5.22E-03
ENSG00000014138	POLA2	509.5087335	0.1279693	5.22E-03
ENSG00000266538		102.2416248	-0.329307572	5.23E-03
ENSG00000117791	MTARC2	21.88163816	0.461703445	5.23E-03
ENSG00000111012	CYP27B1	83.72668387	0.721791578	5.23E-03
ENSG00000162298	SYVN1	1128.743799	-0.157319337	5.23E-03
ENSG00000148848	ADAM12	125.2162089	0.342706789	5.23E-03
ENSG00000161912	ADCY10P1	642.3184711	-0.232363969	5.26E-03
ENSG00000241878	PISD	2534.733076	0.264539105	5.26E-03
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ENSG00000184060	ADAP2	1129.136411	-0.71383941	5.26E-03
ENSG00000159307	SCUBE1	33.70161913	-0.606631472	5.27E-03
ENSG00000187980	PLA2G2C	10.27729595	-0.980324694	5.27E-03
ENSG00000074800	ENO1	8544.868281	0.284507434	5.28E-03
ENSG00000104432	IL7	52.34887097	0.319895862	5.28E-03
ENSG00000198142	SOWAHC	288.3915785	0.742900725	5.28E-03
ENSG00000111788		148.2642909	-0.336215944	5.28E-03
ENSG00000248521		31.18718313	-0.400876841	5.29E-03
ENSG00000262587		62.86356358	0.303346122	5.30E-03
ENSG00000279561		98.52487727	0.252110215	5.32E-03
ENSG00000182022	CHST15	8097.183709	0.396490177	5.33E-03
ENSG00000167965	MLST8	326.0915303	-0.271587397	5.33E-03
ENSG00000196696		300.0560513	-0.212328582	5.33E-03
ENSG00000160336	ZNF761	348.048013	0.164699224	5.33E-03
ENSG00000166971	AKTIP	1002.486564	-0.17392637	5.34E-03
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ENSG00000187118	CMC1	568.5502032	0.185898848	5.34E-03
ENSG00000176148	TCP11L1	764.8169003	0.262749464	5.35E-03
ENSG00000163755	HPS3	1232.182715	-0.129431559	5.36E-03
ENSG00000163125	RPRD2	1875.149688	-0.131906778	5.38E-03
ENSG00000164062	APEH	1614.310903	-0.12247122	5.40E-03
ENSG00000145016	RUBCN	3269.9222	0.241874362	5.40E-03
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ENSG00000240634		19.95153891	0.585020877	5.41E-03

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ENSG00000263584	MIR4480	20.20364224	-0.597600671	5.45E-03
ENSG00000103168	TAF1C	1344.558332	0.138019871	5.45E-03
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ENSG00000272588		66.79660797	0.395324962	5.47E-03
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ENSG00000157538	VPS26C	1903.732889	-0.109176865	5.48E-03
ENSG00000269899		51.11747411	0.512347072	5.51E-03
ENSG00000147649	MTDH	3277.647668	-0.112870594	5.51E-03
ENSG00000143845	ETNK2	75.19069775	-0.422440458	5.52E-03
ENSG00000125388	GRK4	85.78216927	0.289840068	5.54E-03
ENSG00000188021	UBQLN2	1611.1536	-0.164481632	5.55E-03
ENSG00000135905	DOCK10	6752.899655	-0.225243995	5.55E-03
ENSG00000214900	LINC01588	693.2817454	-0.172937491	5.55E-03
ENSG00000092010	PSME1	3925.607244	-0.286517668	5.57E-03
ENSG00000060762	MPC1	430.9043878	-0.172528645	5.58E-03
ENSG00000100053	CRYBB3	30.62838442	0.679143821	5.58E-03
ENSG00000273064		55.63481652	0.320258487	5.58E-03
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ENSG00000198795	ZNF521	24.10852302	-0.452602847	5.59E-03
ENSG00000100731	PCNX1	8467.309272	-0.215116917	5.59E-03
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ENSG00000205352	PRR13	2397.39714	-0.184388256	5.59E-03
ENSG00000180353	HCLS1	10088.27162	0.2619557	5.63E-03
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ENSG00000275910		39.0848544	0.384234727	5.66E-03
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ENSG00000223551	TMSB4XP4	25.78515335	0.385724611	5.66E-03
ENSG00000199545	RNA5SP195	59.14239104	-0.410805312	5.67E-03
ENSG00000107130	NCS1	189.4755783	1.281341127	5.67E-03
ENSG00000266934		69.79507704	0.296507346	5.67E-03
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ENSG00000173214	MFSD4B	582.0189672	0.206072235	5.72E-03
ENSG00000218682		30.78195447	0.565289249	5.74E-03
ENSG00000129810	SGO1	65.39713081	0.43230507	5.74E-03
ENSG00000147117	ZNF157	22.59186938	-0.411965992	5.74E-03
ENSG00000135679	MDM2	4098.843789	0.227599318	5.75E-03
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ENSG00000258303		34.88213462	0.665915817	5.77E-03
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ENSG00000248121	SMURF2P1	65.19850576	-0.303106321	5.77E-03
ENSG00000250303	LINC02762	110.7366003	-0.31641869	5.77E-03
ENSG00000269001	ZNF818P	755.6623065	0.306560759	5.78E-03
ENSG00000143653	SCCPDH	370.9045125	-0.288005663	5.79E-03
ENSG00000185418	TARS3	691.0097746	-0.15236458	5.79E-03
ENSG00000246922	UBAP1L	804.5364435	0.220825437	5.79E-03
ENSG00000010539	ZNF200	888.9154849	0.215792506	5.81E-03
ENSG00000058056	USP13	321.6694426	-0.166944665	5.81E-03

ENSG00000273619		103.6800895	0.258153765	5.82E-03
ENSG00000126453	BCL2L12	194.6735879	-0.227419416	5.83E-03
ENSG00000169567	HINT1	1903.236145	0.194323533	5.84E-03
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ENSG00000183154		25.48104478	-0.686187088	5.87E-03
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ENSG00000135525	MAP7	70.09640832	-0.414863035	5.88E-03
ENSG00000119541	VPS4B	2446.161445	0.145403011	5.88E-03
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ENSG00000140104	CLBA1	66.90484927	0.368038016	5.89E-03
ENSG00000260729		58.4259407	0.385690237	5.90E-03
ENSG00000113161	HMGCR	1497.484393	0.339744872	5.90E-03
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ENSG00000260228		52.67186593	0.467843993	6.03E-03
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ENSG00000181896	ZNF101	3168.168713	0.226386256	6.65E-03
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ENSG00000167523	SPATA33	120.4230244	0.240045258	6.70E-03
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ENSG00000260583		17.98582736	0.475341238	6.79E-03
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ENSG00000135945	REV1	1387.495324	0.113774703	6.90E-03
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ENSG00000204356	NELFE	1059.348561	0.137576154	7.32E-03
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ENSG00000196220	SRGAP3	198.4853962	-0.281676492	7.32E-03
ENSG00000198589	LRBA	4600.134463	-0.157699066	7.34E-03
ENSG00000107014	RLN2	30.0432745	0.642811284	7.35E-03
ENSG00000121236	TRIM6	25.40383982	-0.864759173	7.35E-03
ENSG00000283200	MIR1206	32.22852968	0.428293736	7.35E-03
ENSG00000270011	ZNF559-ZNF177	28.43358025	0.4772107	7.37E-03
ENSG00000061656	SPAG4	63.23998171	-0.35707192	7.39E-03
ENSG00000005893	LAMP2	4213.112973	-0.295650335	7.39E-03
ENSG00000267281	ATF7-NPFF	37.92710833	-0.328135816	7.40E-03
ENSG00000277566		32.8920521	0.495230781	7.43E-03
ENSG00000126860	EVI2A	2448.606389	-0.305199247	7.45E-03
ENSG00000163472	TMEM79	215.7249275	0.284484649	7.47E-03
ENSG00000230081	HSPE1P28	30.36077115	-0.427980699	7.49E-03
ENSG00000174738	NR1D2	1734.675765	-0.278149063	7.50E-03
ENSG00000007392	LUC7L	1716.316576	0.124891744	7.51E-03
ENSG00000164291	ARSK	167.2943169	0.235135345	7.52E-03
ENSG00000125386	FAM193A	2080.512608	-0.118174409	7.52E-03
ENSG00000228506	PNISR-AS1	197.6436677	-0.263599248	7.52E-03
ENSG00000171291	ZNF439	531.5116547	-0.16162131	7.52E-03
ENSG00000267598		25.29881046	0.502145021	7.52E-03
ENSG00000163016	ALMS1P1	23.96952205	-0.738764559	7.53E-03
ENSG00000278983		39.75146976	0.598393443	7.56E-03
ENSG00000225402		19.17176326	0.899780903	7.59E-03
ENSG00000276570		83.88560593	-0.265242207	7.59E-03
ENSG00000251192	ZNF674	212.0387036	0.261709846	7.59E-03
ENSG00000107874	CUEDC2	455.6265748	-0.258911393	7.60E-03
ENSG00000264548		78.60509445	0.431835602	7.60E-03
ENSG00000236337	FMR1-IT1	47.72955688	-0.35391506	7.61E-03
ENSG00000273375		29.30582013	0.492473898	7.61E-03
ENSG00000272305		64.84253925	0.311016859	7.62E-03
ENSG00000227124	ZNF717	311.7124881	0.151382269	7.62E-03
ENSG00000006831	ADIPOR2	1632.822955	0.192722866	7.62E-03

ENSG00000211855	TRAJ34	129.7211735	0.387478476	7.64E-03
ENSG00000273320		403.1332831	0.590353375	7.64E-03
ENSG00000123094	RASSF8	39.36653543	0.645879876	7.66E-03
ENSG00000267123	SCAT1	107.4881882	0.481158085	7.67E-03
ENSG00000120784	ZFP30	420.3166468	0.19173469	7.67E-03
ENSG00000134245	WNT2B	52.48869494	-0.333083308	7.69E-03
ENSG0000025770	NCAPH2	900.1387282	-0.21195091	7.70E-03
ENSG00000168612	ZSWIM1	291.0851804	0.181186042	7.71E-03
ENSG00000211782	TRAV8-1	31.54748833	-0.367906078	7.72E-03
ENSG00000276386	CNTNAP3P2	4.193674659	-2.807127556	7.75E-03
ENSG00000147872	PLIN2	4932.466054	0.791772857	7.75E-03
ENSG00000114631	PODXL2	75.64231925	0.298326589	7.75E-03
ENSG00000102053	ZC3H12B	85.25526866	-0.290133462	7.76E-03
ENSG00000123607	TTC21B	912.3511295	-0.139370623	7.76E-03
ENSG00000230138	LINC02812	18.89772427	-0.532628156	7.78E-03
ENSG0000050438	SLC4A8	317.8053218	0.274837666	7.79E-03
ENSG00000139343	SNRPF	215.2503045	-0.28254419	7.81E-03
ENSG00000204577	LILRB3	4302.074809	-0.423845552	7.81E-03
ENSG00000139132	FGD4	1602.601503	0.389058753	7.83E-03
ENSG00000096433	ITPR3	2532.3716	-0.173794853	7.84E-03
ENSG00000101665	SMAD7	2028.70875	0.660352062	7.85E-03
ENSG00000205542	TMSB4X	46769.13903	0.280040397	7.85E-03
ENSG00000102189	EEA1	1127.804835	-0.141955029	7.86E-03
ENSG00000186001	LRCH3	2489.873446	0.176976882	7.86E-03
ENSG00000189077	TMEM120A	775.8931768	-0.268204868	7.87E-03
ENSG00000001167	NFYA	1697.975988	0.134253023	7.89E-03
ENSG00000129691	ASH2L	1112.287346	-0.196204805	7.90E-03
ENSG00000108106	UBE2S	597.4181488	0.246003259	7.91E-03
ENSG00000111897	SERINC1	5890.892158	0.18090585	7.93E-03
ENSG00000157107	FCHO2	1911.00038	-0.425932041	7.95E-03
ENSG00000165661	QSOX2	1178.95687	0.154824513	7.97E-03
ENSG00000183496	MEX3B	77.15419237	-0.281149979	7.98E-03
ENSG00000182400	TRAPPC6B	726.4494225	0.183842635	8.00E-03
ENSG00000235621	LINC00494	83.45848637	-0.358970375	8.00E-03
ENSG00000260198		47.79933551	0.792985182	8.01E-03
ENSG00000166557	TMED3	672.1563531	0.127520412	8.04E-03
ENSG00000276180	H4C9	389.1230667	0.40302926	8.08E-03
ENSG00000160075	SSU72	3168.412257	-0.09696337	8.10E-03
ENSG00000169228	RAB24	611.9317748	-0.374408427	8.11E-03
ENSG00000132670	PTPRA	2686.622951	-0.235808791	8.11E-03
ENSG00000118495	PLAGL1	760.911836	-0.26778818	8.12E-03
ENSG00000168070	MAJIN	28.70629251	-0.767814668	8.12E-03
ENSG00000251022	THAP9-AS1	931.9578037	-0.280239276	8.12E-03
ENSG00000177700	POLR2L	407.1855085	0.268068254	8.13E-03
ENSG00000274315		32.60158476	-0.376383995	8.14E-03
ENSG00000183784	DOCK8-AS1	42.09373591	-0.531764787	8.15E-03
ENSG00000251301	LINC02384	200.641411	-0.489990601	8.15E-03
ENSG00000099817	POLR2E	1664.59201	-0.143224101	8.16E-03
ENSG00000164010	ERMAP	328.2795907	-0.221222587	8.19E-03
ENSG00000277595		65.93631919	0.375670908	8.20E-03
ENSG00000167130	DOLPP1	170.18859	0.173736358	8.21E-03

ENSG00000269918		136.5043392	0.243771213	8.22E-03
ENSG00000171735	CAMTA1	457.5863414	-0.141868253	8.23E-03
ENSG00000064419	TNPO3	1777.731671	-0.112271979	8.24E-03
ENSG00000268565		34.25828844	0.333950923	8.25E-03
ENSG00000187553	CYP26C1	28.70964507	-0.422928813	8.27E-03
ENSG00000087258	GNAO1	411.5549188	0.535137827	8.27E-03
ENSG00000116704	SLC35D1	872.2299716	0.184679059	8.28E-03
ENSG00000156886	ITGAD	40.59279927	-0.515328141	8.29E-03
ENSG00000167792	NDUFV1	1369.172222	-0.202404751	8.29E-03
ENSG00000228544	CCDC183-AS1	269.257953	0.194174058	8.30E-03
ENSG00000078142	PIK3C3	2643.939779	0.099178856	8.32E-03
ENSG00000151176	PLBD2	824.922265	-0.268482541	8.34E-03
ENSG00000198911	SREBF2	3231.642123	0.172435267	8.34E-03
ENSG00000064393	HIPK2	3553.979931	-0.239866437	8.34E-03
ENSG00000104852	SNRNP70	6106.049438	-0.150560317	8.35E-03
ENSG00000106992	AK1	370.4965865	0.294069123	8.36E-03
ENSG00000239857	GET4	317.7992035	0.248981121	8.39E-03
ENSG00000135899	SP110	5690.80769	0.242529684	8.40E-03
ENSG00000257303	CNPY2-AS1	19.71678318	0.477749441	8.41E-03
ENSG00000103528	SYT17	92.45300965	0.404986464	8.41E-03
ENSG00000278705	H4C2	1122.363227	0.346429951	8.44E-03
ENSG00000107854	TNKS2	3772.29692	-0.098348577	8.45E-03
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ENSG00000251661		267.2280468	0.243335432	8.50E-03
ENSG00000268947		81.31605466	0.424033257	8.51E-03
ENSG00000136237	RAPGEF5	43.83729151	-0.405714281	8.55E-03
ENSG00000281706		42.95110834	0.350152184	8.55E-03
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ENSG00000152767	FARP1	14.97411865	-0.685406742	8.56E-03
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ENSG00000143390	RFX5	1637.869248	0.145452764	8.58E-03
ENSG00000272746		139.4450987	0.416711977	8.59E-03
ENSG00000232788	ITGA6-AS1	38.70736905	-0.321087951	8.60E-03
ENSG00000260331		16.51731649	0.5068751	8.60E-03
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ENSG00000143375	CGN	17.86620973	0.584558942	8.61E-03
ENSG00000213918	DNASE1	2381.085914	0.292178144	8.63E-03
ENSG00000168280	KIF5C	392.4365656	0.182203999	8.64E-03
ENSG00000188610	FAM72B	24.5691473	-0.495419932	8.65E-03
ENSG00000213188	YBX1P4	31.46900813	0.377146177	8.66E-03
ENSG00000279722		136.9683881	-0.270942423	8.66E-03
ENSG00000143443	C1orf56	46.27177863	-0.341354465	8.66E-03
ENSG00000076201	PTPN23	1294.806909	0.180582711	8.68E-03
ENSG00000187210	GCNT1	359.5356705	-0.285234442	8.68E-03
ENSG00000073464	CLCN4	212.8095772	-0.448886715	8.68E-03
ENSG00000283288	SMIM33	12.64338371	0.778504304	8.70E-03
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ENSG00000279981		168.3363338	0.290915975	8.76E-03
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ENSG00000131725	WDR44	724.573324	-0.138231958	8.78E-03
ENSG00000118217	ATF6	2600.983362	-0.182092047	8.80E-03
ENSG00000145715	RASA1	1724.292426	-0.175504788	8.82E-03
ENSG00000233175	FMNL1-AS1	36.77603589	-0.369175264	8.83E-03
ENSG00000104154	SLC30A4	240.3262034	-0.197060247	8.83E-03
ENSG00000105723	GSK3A	941.6760258	0.215976764	8.92E-03
ENSG00000119661	DNAL1	199.2202096	0.163923559	8.95E-03
ENSG00000144747	TMF1	3438.391316	0.157882471	8.95E-03
ENSG00000275131	PDE4DIPP2	1541.094225	0.254924935	8.95E-03
ENSG00000261668		16.3206805	0.928386815	8.96E-03
ENSG00000023330	ALAS1	1270.278135	0.355569808	8.97E-03
ENSG00000116678	LEPR	233.030113	-0.439028895	8.99E-03
ENSG00000224373	IGHV4-59	79.34237572	-0.452030892	9.00E-03
ENSG00000163728	TTC14	2958.104174	-0.123131766	9.01E-03
ENSG00000138678	GPAT3	616.198316	-0.564062565	9.03E-03
ENSG00000005810	MYCBP2	7321.277507	-0.172375447	9.03E-03
ENSG00000101425	BPI	215.498616	-0.564898672	9.03E-03
ENSG00000010803	SCMH1	628.9177961	-0.13923329	9.04E-03
ENSG00000055917	PUM2	6068.269005	-0.108106584	9.04E-03
ENSG00000233133		21.94212334	0.559896448	9.04E-03
ENSG00000128609	NDUFA5	909.5923727	-0.200646078	9.05E-03
ENSG00000008517	IL32	2285.282431	-0.464384173	9.06E-03
ENSG00000215105	TTC3P1	67.12616149	0.311272556	9.07E-03
ENSG00000268895	A1BG-AS1	289.909708	0.179751878	9.07E-03
ENSG00000064042	LIMCH1	15.52773302	-1.066092482	9.08E-03
ENSG00000228439		30.41730591	-0.38061939	9.08E-03
ENSG00000236535	RC3H1-IT1	116.7463853	-0.255875145	9.08E-03
ENSG00000273820	USP27X	89.00857511	0.241678676	9.09E-03
ENSG00000087253	LPCAT2	2058.057902	-0.505200411	9.09E-03
ENSG00000019582	CD74	23666.04526	-0.239081967	9.11E-03
ENSG00000118960	HS1BP3	1250.353389	0.223604439	9.12E-03
ENSG00000259658	UBE2Q2P13	65.34385767	-0.304485053	9.14E-03
ENSG00000165490	DDIAS	73.16149362	-0.375911221	9.15E-03
ENSG00000233382	NKAPP1	186.2301257	-0.179543952	9.17E-03
ENSG00000035687	ADSS2	1617.92601	0.122966765	9.17E-03
ENSG00000277590	MIR7845	30.24253055	0.500894101	9.19E-03
ENSG00000273464		15.77400054	-0.621876814	9.19E-03
ENSG00000177156	TALDO1	4512.768493	-0.299049213	9.23E-03
ENSG00000215193	PEX26	1904.969404	0.103099033	9.23E-03
ENSG00000198799	LRIG2	1161.01895	0.147133029	9.23E-03
ENSG00000141026	MED9	446.2062676	-0.16065323	9.23E-03
ENSG00000129245	FXR2	791.6878391	0.191716547	9.24E-03
ENSG00000260144		41.97112161	-0.441139795	9.24E-03
ENSG00000002834	LASP1	9862.385624	-0.226239161	9.25E-03
ENSG00000179632	MAF1	2744.543237	-0.24898952	9.25E-03
ENSG00000253043	RNU7-181P	108.7488299	-0.381951976	9.25E-03
ENSG00000279026		18.0066741	-0.443660173	9.26E-03
ENSG00000155100	OTUD6B	488.5534486	0.187406999	9.28E-03
ENSG00000157625	TAB3	1713.396321	-0.12334756	9.28E-03
ENSG00000135953	MFSD9	356.8791158	-0.169328801	9.29E-03
ENSG00000099341	PSMD8	1660.517871	0.161027746	9.29E-03

ENSG00000143801	PSEN2	157.0532907	-0.272627461	9.30E-03
ENSG00000266124	MIR5587	55.36059193	0.338533874	9.30E-03
ENSG00000237372		24.06692145	-0.934248014	9.35E-03
ENSG00000205268	PDE7A	4753.385721	0.161707747	9.38E-03
ENSG00000157259	GATAD1	908.3133665	-0.095455399	9.40E-03
ENSG00000254648		20.02908036	0.5255501	9.40E-03
ENSG00000184261	KCNK12	33.69913306	0.406207286	9.42E-03
ENSG00000165030	NFIL3	1832.294159	-0.50333835	9.42E-03
ENSG00000122707	RECK	391.7919585	-0.145294936	9.44E-03
ENSG00000228817	BACH1-IT2	232.8606967	0.314908127	9.45E-03
ENSG00000124155	PIGT	1549.836437	-0.08295969	9.45E-03
ENSG00000212176	RNA5SP207	10.8974665	0.780473094	9.45E-03
ENSG00000129562	DAD1	1024.640694	0.195558996	9.45E-03
ENSG00000129128	SPCS3	4478.215875	-0.132603693	9.46E-03
ENSG00000103091	WDR59	1387.787311	0.117962603	9.46E-03
ENSG00000240041	IGHJ4	54.47633813	0.392426995	9.48E-03
ENSG00000110025	SNX15	62.86686005	0.336175783	9.49E-03
ENSG00000090060	PAPOLA	7632.123579	0.145160931	9.50E-03
ENSG00000271141		41.99509005	-0.35207097	9.51E-03
ENSG00000114988	LMAN2L	247.0459533	0.180662106	9.52E-03
ENSG00000120963	ZNF706	1612.85362	0.118680548	9.52E-03
ENSG00000163281	GNPDA2	323.4098227	0.177433697	9.54E-03
ENSG00000100600	LGMN	1506.226953	0.877009086	9.56E-03
ENSG00000272345		103.4410824	0.328629903	9.60E-03
ENSG00000274322		77.75559969	0.403220157	9.60E-03
ENSG00000063438	AHRR	220.8801693	-0.495123851	9.60E-03
ENSG00000150527	MIA2	232.947664	-0.197674194	9.61E-03
ENSG00000213190	MLLT11	185.6992805	0.333523277	9.61E-03
ENSG00000140403	DNAJA4	810.2402141	0.308944782	9.61E-03
ENSG00000160712	IL6R	5876.935523	-0.28322113	9.61E-03
ENSG00000100722	ZC3H14	1180.665116	0.100054203	9.61E-03
ENSG00000188986	NELFB	1180.30819	-0.125258531	9.62E-03
ENSG00000169258	GPRIN1	37.10566222	-0.395613801	9.62E-03
ENSG00000274523	RCC1L	816.3020127	0.164419528	9.64E-03
ENSG00000271971		57.95515081	0.439885141	9.64E-03
ENSG00000123989	CHPF	210.8331994	0.218236867	9.66E-03
ENSG00000122042	UBL3	2320.294029	-0.147692103	9.66E-03
ENSG00000174788	PCP2	36.97530713	-0.352904614	9.66E-03
ENSG00000212607	SNORA3B	16.75433416	-0.555090836	9.68E-03
ENSG00000267385		43.78326619	-0.642602644	9.69E-03
ENSG00000175931	UBE2O	1635.953033	-0.240515905	9.69E-03
ENSG00000168679	SLC16A4	27.97278029	0.472922893	9.69E-03
ENSG00000132664	POLR3F	310.0690473	-0.145547067	9.70E-03
ENSG00000162931	TRIM17	34.05651476	-0.52864527	9.73E-03
ENSG00000207962	MIR30C1	26.66918787	0.495831237	9.74E-03
ENSG00000186184	POLR1D	1690.685379	-0.164699365	9.75E-03
ENSG00000272382		25.77261574	-0.447969485	9.75E-03
ENSG00000140905	GCSH	23.80274935	0.391602313	9.77E-03
ENSG00000164306	PRIMPOL	352.723925	-0.137760411	9.77E-03
ENSG00000272858		73.43439915	0.269593173	9.78E-03
ENSG00000163827	LRRC2	52.83152293	0.822624025	9.81E-03

ENSG00000155256	ZFYVE27	1859.138424	0.123477244	9.81E-03
ENSG00000271425	NBPF10	356.8951309	-0.276284381	9.81E-03
ENSG00000184743	ATL3	1726.527165	0.135993204	9.81E-03
ENSG00000079819	EPB41L2	390.0468437	0.20749056	9.82E-03
ENSG00000114982	KANSL3	2686.050875	0.124506127	9.82E-03
ENSG00000267940		34.68128786	0.421614222	9.84E-03
ENSG00000135341	MAP3K7	1651.494201	0.116309536	9.87E-03
ENSG00000223914	LINC02471	9.822923769	1.216466077	9.87E-03
ENSG00000262495		62.42083206	0.587760197	9.90E-03
ENSG00000279253		275.5164611	-0.186089313	9.91E-03
ENSG00000100439	ABHD4	863.8033843	-0.255196085	9.96E-03
ENSG00000138030	KHK	72.44958584	-0.333337491	9.96E-03
ENSG00000260919		27.13891976	-0.493954512	9.99E-03
ENSG00000263693	MIR3161	30.70267	0.523426178	9.99E-03
ENSG00000178952	TUFM	1507.40443	0.14510921	1.00E-02
ENSG00000213619	NDUFS3	413.5596062	-0.223785965	1.00E-02
ENSG00000137720	C11orf1	112.6219724	0.213139911	1.00E-02
ENSG00000126264	HCST	527.0159885	-0.329103102	1.00E-02
ENSG00000275993		319.4124067	-0.402128298	1.00E-02
ENSG00000229739	PDC-AS1	22.62467988	0.39963631	1.01E-02
ENSG00000211898	IGHD	867.8678816	-0.226296161	1.01E-02
ENSG00000279281		138.9601985	-0.305918793	1.01E-02
ENSG00000239300		19.57287366	-0.464713288	1.02E-02
ENSG00000075391	RASAL2	138.7885941	0.606049486	1.02E-02
ENSG00000128567	PODXL	29.75565219	0.389708456	1.02E-02
ENSG00000259421		14.39050315	0.518068811	1.02E-02
ENSG00000223511	LINC02968	143.9159655	-0.292857709	1.02E-02
ENSG00000103184	SEC14L5	16.4316417	-1.229555477	1.02E-02
ENSG00000255299		73.8637278	0.553484084	1.03E-02
ENSG00000135776	ABCB10	977.7700586	-0.206563276	1.03E-02
ENSG00000272693	LINC03006	98.66579908	-0.226830427	1.03E-02
ENSG00000068745	IP6K2	1498.996272	-0.095757854	1.03E-02
ENSG00000141858	SAMD1	633.9356714	-0.192989734	1.03E-02
ENSG00000124006	OBSL1	47.24688125	0.483892837	1.03E-02
ENSG00000283236		83.34811234	0.271526893	1.03E-02
ENSG00000131016	AKAP12	205.2305662	-0.340193953	1.03E-02
ENSG00000228409	CCT6P1	310.782515	0.136521537	1.04E-02
ENSG00000242687		384.9513122	-0.147446743	1.04E-02
ENSG00000279536		37.22361952	0.43121965	1.04E-02
ENSG00000230415	LINC01786	22.01523169	-0.436992753	1.04E-02
ENSG00000142188	TMEM50B	1122.732073	-0.11200423	1.04E-02
ENSG00000142178	SIK1	100.3773348	-0.467681877	1.04E-02
ENSG00000100938	GMPR2	1406.844499	-0.159718905	1.04E-02
ENSG00000179909	ZNF154	544.7917214	0.127995948	1.04E-02
ENSG00000211964	IGHV3-48	23.62168012	-0.57207878	1.04E-02
ENSG00000277545		31.04804587	-0.433508388	1.05E-02
ENSG00000267990		39.44058167	-0.59147434	1.05E-02
ENSG00000064300	NGFR	35.72067038	-0.813744076	1.05E-02
ENSG00000241413	RN7SL441P	28.75768306	0.360861636	1.05E-02
ENSG00000101945	SUV39H1	223.9459202	-0.202333851	1.05E-02
ENSG00000181061	HIGD1A	466.5967668	0.214939392	1.06E-02

ENSG00000130702	LAMA5	155.3945535	-0.317536479	1.06E-02
ENSG00000229727		17.14908841	0.605336558	1.06E-02
ENSG00000143603	KCNN3	11.13480203	-0.762677665	1.06E-02
ENSG00000261783		42.14647092	0.386351415	1.07E-02
ENSG00000148057	IDNK	267.6370814	0.173556439	1.07E-02
ENSG00000271993		21.55500884	0.611359878	1.07E-02
ENSG00000261324		686.6475619	0.261595175	1.07E-02
ENSG00000181789	COPG1	2185.487631	-0.13107399	1.08E-02
ENSG00000127366	TAS2R5	56.7740193	0.390472545	1.08E-02
ENSG00000148832	PAOX	240.1263713	0.188708497	1.08E-02
ENSG00000281491	DNAJB5-DT	13.358224	0.667725281	1.08E-02
ENSG00000133048	CHI3L1	2395.403757	0.627452758	1.09E-02
ENSG00000113734	BNIP1	158.93208	-0.279153712	1.09E-02
ENSG00000254876	SUGT1P4-STRA6LP	122.5217497	0.204549292	1.09E-02
ENSG00000108588	CCDC47	1164.132096	0.213695585	1.09E-02
ENSG00000264235	MYL12-AS1	33.52745652	0.408946621	1.09E-02
ENSG00000158796	DEDD	907.6921066	-0.122308848	1.10E-02
ENSG00000213997	PGAM1P7	25.15854234	-0.433070538	1.10E-02
ENSG00000008130	NADK	7570.019112	0.293625233	1.10E-02
ENSG00000206077	ZDHHC11B	99.72142941	-0.39253121	1.10E-02
ENSG00000186868	MAPT	38.47895437	0.346318413	1.11E-02
ENSG00000226979	LTA	118.0843475	0.422418642	1.11E-02
ENSG00000120686	UFM1	1709.520532	0.164349926	1.11E-02
ENSG00000062370	ZNF112	16.52606956	0.545052939	1.11E-02
ENSG00000201264	SNORD73B	20.67284632	-0.446900331	1.11E-02
ENSG00000112874	NUDT12	46.71951542	0.354410485	1.11E-02
ENSG00000246898	LINC00920	62.89641391	-0.319996557	1.11E-02
ENSG00000130948	HSD17B3	17.45965163	-0.572628444	1.11E-02
ENSG00000184752	NDUFA12	474.3665971	-0.216622956	1.11E-02
ENSG00000237276	ANO7L1	60.2678389	-0.467067287	1.12E-02
ENSG00000204560	DHX16	1221.808092	0.127768378	1.12E-02
ENSG00000004779	NDUFAB1	289.7194825	0.168679635	1.12E-02
ENSG00000177599	ZNF491	59.78940267	-0.271742508	1.12E-02
ENSG00000123179	EBPL	202.818558	0.253681665	1.12E-02
ENSG00000204160	ZDHHC18	6357.302043	0.323765393	1.12E-02
ENSG00000110042	DTX4	616.3488725	-0.358348767	1.13E-02
ENSG00000119596	YLPM1	2968.656839	-0.151683205	1.13E-02
ENSG00000167325	RRM1	538.3315193	0.158171688	1.13E-02
ENSG00000205250	E2F4	2003.568529	0.2088536	1.13E-02
ENSG00000143479	DYRK3	128.3806565	0.459826791	1.13E-02
ENSG00000264607	MIR3173	18.29443451	-0.498139139	1.13E-02
ENSG00000225377	NRSN2-AS1	25.07591798	-0.438634522	1.13E-02
ENSG00000197782	ZNF780A	1122.517012	0.325004731	1.14E-02
ENSG00000260160		58.56689876	0.277979853	1.14E-02
ENSG00000103995	CEP152	414.1750805	0.147747214	1.14E-02
ENSG00000177054	ZDHHC13	647.3693353	0.15026693	1.14E-02
ENSG00000158792	SPATA2L	627.6681599	-0.287568748	1.14E-02
ENSG00000206190	ATP10A	1564.223795	0.175138715	1.14E-02
ENSG00000168903	BTNL3	127.6189481	0.911869157	1.14E-02
ENSG00000154727	GABPA	1424.855392	-0.111209814	1.14E-02
ENSG00000260751		54.51691539	-0.312419604	1.14E-02

ENSG00000103254	ANTKMT	291.0995566	-0.237776734	1.14E-02
ENSG00000261167		121.1969883	0.215026691	1.14E-02
ENSG00000112759	SLC29A1	237.9299441	-0.410644903	1.14E-02
ENSG00000276853		95.55717842	-0.238808429	1.15E-02
ENSG00000211689	TRGC1	626.3158546	0.32962594	1.15E-02
ENSG00000119899	SLC17A5	422.153426	-0.180552874	1.15E-02
ENSG00000165434	PGM2L1	622.8412046	0.309704432	1.15E-02
ENSG00000143891	GALM	762.0082423	0.295842708	1.15E-02
ENSG00000113369	ARRDC3	7999.486304	-0.242413146	1.15E-02
ENSG00000009413	REV3L	2284.157206	0.250939299	1.15E-02
ENSG00000207719	MIR623	44.35257494	-0.404512008	1.15E-02
ENSG00000229646		22.76857934	0.477363903	1.15E-02
ENSG00000111725	PRKAB1	1224.782938	0.134747914	1.16E-02
ENSG00000148225	WDR31	36.27236768	0.371771586	1.16E-02
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ENSG00000272323	TTC23L-AS1	15.19435926	0.56488195	1.16E-02
ENSG00000099821	POLRMT	1484.530162	0.144102805	1.16E-02
ENSG00000117632	STMN1	451.454555	-0.256697582	1.16E-02
ENSG00000159640	ACE	118.9404198	0.359037015	1.16E-02
ENSG00000105639	JAK3	8253.996365	0.251703419	1.17E-02
ENSG00000156050	FAM161B	185.5685311	0.182353457	1.17E-02
ENSG00000283189		20.27196363	-0.551387084	1.17E-02
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ENSG00000261342		17.30653837	0.494863785	1.18E-02
ENSG00000172671	ZFAND4	716.1868423	-0.187308812	1.18E-02
ENSG00000246089	MCPH1-DT	94.59059893	0.220045488	1.18E-02
ENSG00000136231	IGF2BP3	95.23877623	-0.535368121	1.19E-02
ENSG00000211825	TRDJ1	43.02885066	0.425995875	1.19E-02
ENSG00000176014	TUBB6	399.3556644	0.366541298	1.19E-02
ENSG00000253998	IGKV2-29	9.636269562	-0.95499666	1.19E-02
ENSG00000143379	SETDB1	1304.746668	-0.092625261	1.19E-02
ENSG00000100478	AP4S1	481.9750229	-0.14956799	1.19E-02
ENSG00000143367	TUFT1	144.9336019	-0.281335975	1.19E-02
ENSG00000138755	CXCL9	47.40522894	1.440851941	1.19E-02
ENSG00000133477	FAM83F	45.13025429	-0.373541864	1.20E-02
ENSG00000114270	COL7A1	64.53178298	-0.443844349	1.20E-02
ENSG00000121350	PYROXD1	971.8484475	-0.173012239	1.20E-02
ENSG00000225265	TAF1A-AS1	14.64435062	0.476666589	1.20E-02
ENSG00000174529	TMEM81	110.7162621	0.308265851	1.20E-02
ENSG00000223773	CD99P1	336.4372603	-0.172257885	1.20E-02
ENSG00000242028	HYPK	513.3584307	-0.180864171	1.20E-02
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ENSG00000130748	TMEM160	240.5223381	-0.258877795	1.21E-02
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ENSG00000164916	FOXK1	2931.840289	-0.197235437	1.21E-02
ENSG00000100422	CERK	5421.631964	0.215985384	1.21E-02
ENSG00000175390	EIF3F	3588.052319	-0.149506122	1.21E-02
ENSG00000229622	MTND5P2	64.26118344	0.357487078	1.21E-02
ENSG00000150779	TIMM8B	354.8313792	0.263675225	1.21E-02
ENSG00000170485	NPAS2	78.22464843	0.303022436	1.21E-02

ENSG00000273314		39.70737727	-0.460486711	1.21E-02
ENSG00000233527	ZNF529-AS1	120.1747242	-0.173977523	1.22E-02
ENSG00000278909		152.184964	0.825419444	1.22E-02
ENSG00000155090	KLF10	2866.270429	0.401299287	1.22E-02
ENSG00000176919	C8G	15.69744781	-0.558684081	1.22E-02
ENSG00000227757		11.53716803	0.702755511	1.22E-02
ENSG00000224505	HEXIM2-AS1	344.5347167	-0.147588352	1.22E-02
ENSG00000111843	TMEM14C	425.0266142	-0.210466695	1.22E-02
ENSG00000187147	RNF220	1947.346692	-0.115261762	1.23E-02
ENSG00000281162	LINC01127	202.3366056	-0.765420029	1.23E-02
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ENSG00000258511	LINC02295	30.86309431	-0.402307456	1.23E-02
ENSG00000115446	UNC50	699.4905716	0.112202223	1.23E-02
ENSG00000230177		84.09836102	0.279716334	1.23E-02
ENSG00000199024	MIR103A2	29.13496362	-0.417221322	1.23E-02
ENSG00000110851	PRDM4	1249.2907	-0.100514344	1.23E-02
ENSG00000101052	IFT52	338.6079641	-0.149158809	1.24E-02
ENSG00000148384	INPP5E	665.6709356	0.157021296	1.24E-02
ENSG00000228261	ITPRIP-AS1	11.79246005	0.861947609	1.24E-02
ENSG00000175893	ZDHC21	795.0121551	-0.179604195	1.24E-02
ENSG00000273137	SELENOO-AS1	30.65039113	-0.415653786	1.25E-02
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ENSG00000229816	DDX50P1	116.0443652	0.207548339	1.25E-02
ENSG00000245688		6.638195513	-1.566374289	1.25E-02
ENSG00000131634	TMEM204	1092.389579	0.251609293	1.26E-02
ENSG00000144741	SLC25A26	605.7595741	-0.176308826	1.26E-02
ENSG00000244038	DDOST	1911.480826	-0.142962292	1.26E-02
ENSG00000280202		185.44177	-0.213500982	1.26E-02
ENSG00000188234	AGAP4	352.3080877	-0.144308172	1.26E-02
ENSG00000198612	COPS8	792.7233952	-0.146882125	1.26E-02
ENSG00000100243	CYB5R3	1530.479478	-0.183646047	1.27E-02
ENSG00000143320	CRABP2	38.85305806	-0.660926293	1.27E-02
ENSG00000211694	TRGV10	118.4736444	0.290465227	1.27E-02
ENSG00000013392	RWDD2A	144.9512824	0.190020809	1.27E-02
ENSG00000110917	MLEC	2067.112469	0.233594931	1.27E-02
ENSG00000035720	STAP1	240.4148986	0.21260342	1.28E-02
ENSG00000168993	CPLX1	13.30257474	0.641397595	1.28E-02
ENSG00000242853	RN7SL749P	49.77316949	-0.410457198	1.28E-02
ENSG00000029153	ARNTL2	150.8219481	0.462873871	1.28E-02
ENSG00000146842	TMEM209	594.070772	-0.139152717	1.28E-02
ENSG00000235101	SETP9	14.46455709	0.534078154	1.28E-02
ENSG00000166833	NAV2	187.0800898	0.496646374	1.28E-02
ENSG00000088826	SMOX	362.2521148	-0.564339405	1.28E-02
ENSG00000114859	CLCN2	84.30518784	-0.265452529	1.28E-02
ENSG00000119321	FKBP15	3541.61112	0.234732534	1.28E-02
ENSG00000164116	GUCY1A1	80.45157067	-0.491436918	1.29E-02
ENSG00000138802	SEC24B	1963.271326	-0.123969585	1.29E-02
ENSG00000213468	FIRRE	73.78820367	-0.380780274	1.29E-02
ENSG00000162542	TMCO4	752.0438274	-0.17426262	1.29E-02
ENSG00000269091		21.88628868	0.448852853	1.29E-02
ENSG00000120992	LYPLA1	1101.022205	-0.141782177	1.29E-02

ENSG00000153879	CEBPG	853.4797526	0.135238177	1.29E-02
ENSG00000162521	RBBP4	3431.609301	-0.068713953	1.29E-02
ENSG00000153896	ZNF599	180.6602435	0.171808526	1.29E-02
ENSG00000234127	TRIM26	1852.16201	-0.142665611	1.29E-02
ENSG00000284324	MIR3175	56.77623961	0.277069773	1.30E-02
ENSG00000175591	P2RY2	523.6224111	0.620829944	1.30E-02
ENSG00000109572	CLCN3	1783.068202	0.17137637	1.30E-02
ENSG00000270095		34.25903204	0.389045075	1.30E-02
ENSG00000159884	CCDC107	280.5250421	0.203869947	1.30E-02
ENSG00000149503	INCENP	389.5096601	-0.162310754	1.30E-02
ENSG00000141013	GAS8	126.0601086	0.26571519	1.30E-02
ENSG00000207988	MIR576	29.68538741	-0.363123424	1.30E-02
ENSG00000111832	RWDD1	667.0557272	-0.16219935	1.30E-02
ENSG00000136630	HLX	730.4989235	-0.532146482	1.31E-02
ENSG00000213658	LAT	203.9752283	0.234667991	1.31E-02
ENSG00000279401		8.818255791	1.249552442	1.31E-02
ENSG00000164211	STARD4	876.41731	0.482700683	1.31E-02
ENSG00000154678	PDE1C	8.913000275	0.924076151	1.31E-02
ENSG00000215973	MIR933	36.98619946	-0.381429413	1.31E-02
ENSG00000185049	NELFA	708.329813	0.135144041	1.31E-02
ENSG00000147475	ERLIN2	784.4682641	-0.170122958	1.31E-02
ENSG00000166432	ZMAT1	1199.266731	-0.171901496	1.31E-02
ENSG00000252577	SCARNA20	24.37846779	-0.480641203	1.31E-02
ENSG00000224116	INHBA-AS1	7.880643884	1.023890437	1.32E-02
ENSG00000211885	TRAJ4	170.5237818	0.311760562	1.32E-02
ENSG00000261123		20.25642902	0.42718455	1.32E-02
ENSG00000163382	NAXE	438.9632892	0.172174783	1.32E-02
ENSG00000164050	PLXNB1	106.1295379	-0.29658475	1.32E-02
ENSG00000258366	RTEL1	75.716437	0.260658296	1.32E-02
ENSG00000182087	TMEM259	6360.264357	-0.146281906	1.32E-02
ENSG00000057935	MTA3	599.1979309	-0.148867428	1.32E-02
ENSG00000177058	SLC38A9	641.5150982	0.148304294	1.32E-02
ENSG00000137876	RSL24D1	2246.143194	-0.187333364	1.33E-02
ENSG00000146112	PPP1R18	9454.387216	0.313711233	1.33E-02
ENSG00000233672	RNASEH2B-AS1	22.47763623	-0.427370171	1.33E-02
ENSG00000128918	ALDH1A2	456.2753994	0.889253092	1.33E-02
ENSG00000199730	RN7SKP95	55.0337386	0.386612895	1.33E-02
ENSG00000239306	RBM14	3161.200159	0.175721858	1.33E-02
ENSG00000116147	TNR	12.24242093	-0.72162542	1.33E-02
ENSG00000188811	NHLRC3	713.6420685	-0.168110316	1.33E-02
ENSG00000165629	ATP5F1C	1423.570591	-0.162943893	1.33E-02
ENSG00000200834		33.94342914	-0.44652678	1.33E-02
ENSG00000227811	INKA2-AS1	20.42272829	-0.669915252	1.33E-02
ENSG00000232479	KRT8P52	44.30266009	0.310192314	1.33E-02
ENSG00000165630	PRPF18	213.8372231	-0.213277867	1.34E-02
ENSG00000169021	UQCRF51	999.3151432	-0.169120849	1.34E-02
ENSG00000100867	DHRS2	15.12536301	1.333499058	1.34E-02
ENSG00000165171	METTL27	28.08773085	-0.487051552	1.34E-02
ENSG00000132254	ARFIP2	704.3322533	0.115482564	1.34E-02
ENSG00000240505	TNFRSF13B	107.8323855	0.320104404	1.34E-02
ENSG00000204179	PTPN20	19.35987309	-0.444713869	1.34E-02

ENSG00000271155		44.0475536	-0.324717771	1.35E-02
ENSG00000180304	OAZ2	2963.793749	0.277587369	1.35E-02
ENSG00000107077	KDM4C	2915.369979	-0.114878236	1.35E-02
ENSG00000254615		20.71415257	0.417847545	1.35E-02
ENSG00000237609	LINC02943	9.783096673	1.27094468	1.36E-02
ENSG00000188647	PTAR1	3898.71566	-0.133519191	1.36E-02
ENSG00000229623	METTL21AP1	32.48345786	0.404914529	1.36E-02
ENSG00000261628		16.94146712	-0.504387339	1.36E-02
ENSG00000158106	RHPN1	422.2542762	-0.31206341	1.36E-02
ENSG00000260572	PPM1L-DT	43.54142244	0.315407815	1.36E-02
ENSG00000233930	KRTAP5-AS1	121.7200378	0.246150237	1.36E-02
ENSG00000176087	SLC35A4	1255.399667	0.137462705	1.36E-02
ENSG00000144724	PTPRG	13.48675857	-0.603864825	1.37E-02
ENSG00000236045		8.722467675	0.861357933	1.37E-02
ENSG00000249662	LINC02218	19.18652673	-0.859064733	1.37E-02
ENSG00000256546	LINC02985	14.05789603	0.716324561	1.37E-02
ENSG00000184428	TOP1MT	264.249851	0.235484173	1.37E-02
ENSG00000184113	CLDN5	33.22445875	-0.838075163	1.38E-02
ENSG00000164754	RAD21	5472.564215	-0.111292382	1.38E-02
ENSG00000168040	FADD	795.9891776	0.210905211	1.38E-02
ENSG00000197927	NBEAP2	69.75133928	0.241849177	1.38E-02
ENSG00000240875	LINC00886	69.21265171	-0.260783561	1.38E-02
ENSG00000189043	NDUFA4	1239.432634	-0.228909883	1.39E-02
ENSG00000223820	CFL1P1	26.40241599	-0.368527728	1.39E-02
ENSG00000270133		18.29617481	-0.475214708	1.39E-02
ENSG00000237980	LINC02773	13.66064845	0.67899059	1.39E-02
ENSG00000101158	NELFCD	1028.541261	0.111291376	1.39E-02
ENSG00000147654	EBAG9	412.3906017	0.150851317	1.39E-02
ENSG00000115828	QPCT	1194.855497	0.518437405	1.39E-02
ENSG00000258561		20.50471532	-0.434886137	1.40E-02
ENSG00000148180	GSN	3380.34295	-0.406698643	1.40E-02
ENSG00000176476	SGF29	435.2575123	0.124925155	1.40E-02
ENSG00000271128		11.80657186	-0.719139932	1.40E-02
ENSG00000146701	MDH2	1214.189657	-0.13193931	1.40E-02
ENSG00000259797		24.51150494	0.367028625	1.40E-02
ENSG00000260923	LINC02193	31.23005932	-0.606895295	1.40E-02
ENSG00000200354	SNORA71D	34.4841065	-0.32332219	1.40E-02
ENSG00000230530	LIMD1-AS1	53.88634141	0.314995996	1.41E-02
ENSG00000277734	TRAC	3805.50919	-0.158492267	1.41E-02
ENSG00000197056	ZMYM1	487.0345351	0.146410871	1.41E-02
ENSG00000126214	KLC1	3196.658999	-0.116886777	1.41E-02
ENSG00000091164	TXNL1	1052.795348	0.125625046	1.42E-02
ENSG00000130311	DDA1	913.9988057	-0.104382902	1.42E-02
ENSG00000170476	MZB1	251.6417445	-0.492151912	1.42E-02
ENSG00000137101	CD72	431.5223241	0.240529484	1.42E-02
ENSG00000272145	NFYC-AS1	240.7406919	-0.202934712	1.42E-02
ENSG00000137955	RABGGTB	1492.612398	0.120108842	1.43E-02
ENSG00000170439	METTL7B	17.82754482	0.967269387	1.43E-02
ENSG00000255624	C10orf88B	81.81077524	0.208911166	1.43E-02
ENSG00000169598	DFFB	484.344618	0.125440255	1.43E-02
ENSG00000108852	MPP2	47.94674989	-0.377548556	1.43E-02

ENSG00000117461	PIK3R3	64.81276581	0.306869698	1.43E-02
ENSG00000277948		19.54597844	0.414304555	1.44E-02
ENSG00000175467	SART1	1015.281488	-0.192957973	1.44E-02
ENSG00000164713	BRI3	3125.230569	0.324692408	1.44E-02
ENSG00000180488	MIGA1	871.2829721	0.100671971	1.44E-02
ENSG00000179528	LBX2	30.59945812	0.45917629	1.45E-02
ENSG00000197021	EOLA2	446.9148917	-0.130381312	1.45E-02
ENSG00000250462	LRRC37BP1	171.7308093	-0.145205944	1.45E-02
ENSG00000225342	LRRK2-DT	407.2798105	0.615779351	1.45E-02
ENSG00000227070	EPS15-AS1	15.70564502	0.561007134	1.45E-02
ENSG00000163376	KBTBD8	513.3343266	0.272939685	1.45E-02
ENSG00000180329	CCDC43	327.6487853	0.171357569	1.46E-02
ENSG00000060140	STYK1	20.24583715	-0.452085476	1.46E-02
ENSG00000106723	SPIN1	1039.235959	0.119804116	1.47E-02
ENSG00000274602	PI4KAP1	696.3246377	-0.13828411	1.47E-02
ENSG00000257878		117.5053009	-0.644841264	1.48E-02
ENSG00000041353	RAB27B	442.6485649	-0.414388853	1.48E-02
ENSG00000155961	RAB39B	331.5546183	0.190490968	1.48E-02
ENSG00000120063	GNA13	6993.119701	-0.196539132	1.48E-02
ENSG00000110218	PANX1	444.9215114	0.240777533	1.48E-02
ENSG00000067221	STOML1	242.9212363	0.21989438	1.48E-02
ENSG00000143036	SLC44A3	12.39228145	0.534055765	1.49E-02
ENSG00000127334	DYRK2	5185.829171	0.165774246	1.49E-02
ENSG00000163660	CCNL1	10493.38331	0.263010551	1.49E-02
ENSG00000272072		45.61758623	-0.274982677	1.50E-02
ENSG00000104969	SGTA	1044.113571	0.20326931	1.50E-02
ENSG00000108963	DPH1	576.3780878	-0.189207693	1.50E-02
ENSG00000170006	TMEM154	8921.785971	0.447573047	1.50E-02
ENSG00000005007	UPF1	4299.126862	-0.133558366	1.50E-02
ENSG00000273265	CNNM3-DT	75.91804191	-0.252443849	1.50E-02
ENSG00000183401	CCDC159	459.4058485	-0.192140589	1.51E-02
ENSG00000163624	CDS1	38.72117852	0.560495003	1.51E-02
ENSG00000274220		43.33375628	0.372769036	1.51E-02
ENSG00000107719	PALD1	64.71653841	0.667854455	1.51E-02
ENSG00000198283	OR5B21	19.03118914	0.732614194	1.51E-02
ENSG00000070367	EXOC5	1602.245146	0.154982828	1.51E-02
ENSG00000115750	TAF1B	434.3710957	0.133996108	1.51E-02
ENSG00000109881	CCDC34	50.08711018	0.364858035	1.51E-02
ENSG00000129003	VPS13C	10499.52773	-0.140366267	1.51E-02
ENSG00000148985	PGAP2	260.2462738	-0.231274063	1.52E-02
ENSG00000173372	C1QA	90.41254481	-0.756720023	1.52E-02
ENSG00000083807	SLC27A5	203.0102154	0.185352691	1.52E-02
ENSG00000154589	LY96	464.334204	-0.385805105	1.53E-02
ENSG00000177432	NAP1L5	65.23322937	0.272120602	1.53E-02
ENSG00000237152		48.75895118	0.58376244	1.53E-02
ENSG00000119699	TGFB3	115.0520619	-0.195776957	1.53E-02
ENSG00000197461	PDGFA	80.05973377	-0.569586048	1.53E-02
ENSG00000272301		18.16595998	0.495488254	1.53E-02
ENSG00000278231		296.1616153	-0.286208697	1.53E-02
ENSG00000188529	SRSF10	3747.932341	-0.136107016	1.54E-02
ENSG00000164305	CASP3	1072.04233	0.154100828	1.54E-02

ENSG00000272841	MAP3K4-AS1	25.06666765	0.380376576	1.54E-02
ENSG00000181109	OR52P1	14.68332143	-0.624675929	1.54E-02
ENSG00000101577	LPIN2	4919.948798	-0.22135509	1.54E-02
ENSG00000276410	H2BC3	108.2932895	-0.514150307	1.54E-02
ENSG00000242330	RN7SL683P	55.74093869	0.462877141	1.55E-02
ENSG00000177191	B3GNT8	1061.535439	0.56565762	1.55E-02
ENSG00000128708	HAT1	799.7738031	0.181622185	1.55E-02
ENSG00000086288	NME8	167.2249532	-0.452817064	1.55E-02
ENSG00000182379	NXPH4	79.82098664	1.11086047	1.55E-02
ENSG00000115694	STK25	1721.355003	0.117652377	1.55E-02
ENSG00000196605	ZNF846	335.6521007	-0.148471827	1.55E-02
ENSG00000164047	CAMP	229.4650552	-0.549159218	1.55E-02
ENSG00000125498	KIR2DL1	51.66023212	0.385223196	1.56E-02
ENSG00000204161	TMEM273	1519.12867	0.575714258	1.56E-02
ENSG00000095209	TMEM38B	392.3175316	0.185897311	1.56E-02
ENSG00000263033		24.73577642	-0.461801463	1.56E-02
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ENSG00000113569	NUP155	1013.598252	0.10487052	1.57E-02
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ENSG00000174442	ZWILCH	348.263713	0.201427598	1.57E-02
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ENSG00000116985	BMP8B	53.79010618	-0.431133448	1.58E-02
ENSG00000268713		106.9599244	0.20946241	1.58E-02
ENSG00000180370	PAK2	4792.01217	-0.200916476	1.58E-02
ENSG00000197180	ATP6AP1-DT	24.57493822	0.482154706	1.58E-02
ENSG00000153815	CMIP	5155.960017	-0.222733855	1.59E-02
ENSG00000237631	PARK7P2	18.363851	0.399790644	1.59E-02
ENSG00000211451	GNRHR2	27.22940624	-0.383114389	1.59E-02
ENSG00000171159	BBLN	596.2891879	-0.189144034	1.60E-02
ENSG00000278727		18.98790274	-0.667775536	1.60E-02
ENSG00000270964	MAP2K5-DT	44.07084126	-0.34421581	1.60E-02
ENSG00000269982		51.27798015	-0.327400805	1.60E-02
ENSG00000173542	MOB1B	969.9558336	-0.211640427	1.60E-02
ENSG00000114805	PLCH1	10.62710748	-0.792465597	1.60E-02
ENSG00000102974	CTCF	1497.192499	-0.113849454	1.60E-02
ENSG00000087302	RTRAF	1226.808972	0.144841311	1.60E-02
ENSG00000273056		14.19977605	-0.5937455	1.60E-02
ENSG00000180182	MED14	1774.746404	0.235632453	1.60E-02
ENSG00000157992	KRTCAP3	90.81702573	-0.258411423	1.61E-02
ENSG00000164944	VIRMA	1704.367873	-0.084188166	1.61E-02
ENSG00000275772		17.38849042	-0.674779427	1.61E-02
ENSG00000226155		20.89926444	0.522515853	1.61E-02
ENSG00000244044	RN7SL735P	23.39687726	-0.491743628	1.61E-02
ENSG00000147955	SIGMAR1	463.7884725	0.133600879	1.62E-02
ENSG00000261770		91.94250796	0.235484272	1.62E-02
ENSG00000126870	DYNC2I1	340.515455	-0.168793922	1.62E-02

ENSG00000173915	ATP5MK	667.00821	0.19677929	1.62E-02
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ENSG00000143919	CAMKMT	353.9523393	-0.152432098	1.63E-02
ENSG00000105887	MTPN	5339.242695	-0.186687009	1.64E-02
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ENSG00000203761	MSTO2P	117.9923483	-0.202864269	1.65E-02
ENSG00000280157		40.87072233	0.376907439	1.65E-02
ENSG00000167995	BEST1	2718.831906	0.340857054	1.65E-02
ENSG00000181555	SETD2	5894.588966	-0.124180541	1.65E-02
ENSG00000270116		72.99538014	0.30871731	1.65E-02
ENSG00000175221	MED16	1396.02571	-0.18140869	1.65E-02
ENSG00000181751	MACIR	97.84073634	-0.244554491	1.65E-02
ENSG00000279528		28.75616446	-0.350258963	1.65E-02
ENSG00000258653		25.87589225	-0.363346794	1.66E-02
ENSG00000126088	UROD	516.6357504	-0.197415855	1.66E-02
ENSG00000211863	TRAJ26	133.0658829	0.318218495	1.66E-02
ENSG00000253364	COPDA1	30.25889288	0.460207313	1.66E-02
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ENSG00000117697	NSL1	675.1428561	-0.123411991	1.66E-02
ENSG00000274020	LINC01138	1224.362937	0.305068521	1.67E-02
ENSG00000106178	CCL24	750.7369369	1.817516698	1.67E-02
ENSG00000182586	LINC00334	24.98394245	0.435445159	1.67E-02
ENSG00000227908	IL6ST-DT	39.37466984	0.284099198	1.67E-02
ENSG00000152495	CAMK4	6016.776919	0.196266142	1.67E-02
ENSG00000143839	REN	9.244246554	1.318626413	1.67E-02
ENSG00000236946	HNRNPA1P70	52.06726151	-0.449456482	1.67E-02
ENSG00000144746	ARL6IP5	4279.579632	-0.172485593	1.67E-02
ENSG00000067066	SP100	8607.460423	0.218754845	1.67E-02
ENSG00000258976		18.17518142	-0.75973693	1.67E-02
ENSG00000160679	CHTOP	3124.409124	-0.076046467	1.67E-02
ENSG00000261659		103.7169473	-0.217993977	1.68E-02
ENSG00000272477		159.3946696	0.303257026	1.68E-02
ENSG00000274487	NPEPPSP1	94.57389265	-0.238797422	1.68E-02
ENSG00000166140	ZFYVE19	531.1944596	0.112058536	1.68E-02
ENSG00000268758	ADGRE4P	573.4700539	-0.280571421	1.69E-02
ENSG00000175203	DCTN2	1153.813207	-0.0924416	1.69E-02
ENSG00000186432	KPNA4	3320.948975	0.186229812	1.69E-02
ENSG00000081181	ARG2	43.6713312	-0.583098228	1.70E-02
ENSG00000233154	LINC01762	296.9213881	0.917965906	1.70E-02
ENSG00000157456	CCNB2	41.69666279	0.471931733	1.70E-02
ENSG00000087191	PSMC5	1233.745142	0.111795919	1.70E-02
ENSG00000171163	ZNF692	562.1019152	-0.155673681	1.70E-02
ENSG00000119318	RAD23B	2855.788052	-0.12953924	1.70E-02
ENSG00000121940	CLCC1	627.2589152	-0.119352176	1.70E-02
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ENSG00000165521	EML5	312.5075812	0.192331351	1.71E-02
ENSG00000179152	TCAIM	535.4827328	0.162898321	1.71E-02
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ENSG00000105374	NKG7	2121.129741	-0.3583646	1.71E-02
ENSG00000178814	OPLAH	291.4315631	0.402130409	1.71E-02
ENSG00000117586	TNFSF4	148.1833798	-0.329000556	1.71E-02
ENSG00000184357	H1-5	962.4174201	-0.423303292	1.72E-02
ENSG00000271752		13.93247332	0.59935197	1.72E-02
ENSG00000272398	CD24	473.5484937	0.300911226	1.72E-02
ENSG00000183444	OR7E38P	226.8907262	0.160990364	1.72E-02
ENSG00000170442	KRT86	46.05374046	1.092069567	1.72E-02
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ENSG00000232693		11.64143728	0.884937092	1.72E-02
ENSG00000235655	H3P6	1835.37331	-0.260433518	1.72E-02
ENSG00000168575	SLC20A2	875.8000752	0.189591044	1.73E-02
ENSG00000258469	CHMP4BP1	64.52855582	-0.336257602	1.73E-02
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ENSG00000229852	KHDC1-AS1	255.4199304	0.420423131	1.73E-02
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ENSG00000105875	WDR91	1151.425335	0.203067946	1.73E-02
ENSG00000213865		305.3934649	0.209794903	1.73E-02
ENSG00000118260	CREB1	3271.244245	0.183172377	1.74E-02
ENSG00000147140	NONO	4774.765124	-0.07327049	1.74E-02
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ENSG00000207067	SNORA72	33.04485593	-0.31823329	1.74E-02
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ENSG00000266274	RN7SL138P	36.26709649	-0.765542922	1.75E-02
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ENSG00000137441	FGFBP2	1001.325683	-0.33633292	1.76E-02
ENSG00000196182	STK40	5133.386638	0.302814469	1.76E-02
ENSG00000118508	RAB32	445.8978657	-0.324248104	1.76E-02
ENSG00000176749	CDK5R1	716.7921708	-0.320782839	1.76E-02
ENSG00000243911	RN7SL430P	28.57027883	-0.358841928	1.76E-02
ENSG00000234268		34.02501607	0.434509557	1.76E-02
ENSG00000114854	TNNC1	19.24902487	0.430936876	1.76E-02
ENSG00000228315	GUSBP11	52.29979145	-0.303018614	1.77E-02
ENSG00000237440	ZNF737	449.2771481	0.168246102	1.77E-02
ENSG00000151366	NDUFC2	292.0028255	0.152642877	1.77E-02
ENSG00000276007		30.69093687	0.333764998	1.77E-02
ENSG00000130985	UBA1	4853.919105	0.148360191	1.78E-02
ENSG00000101146	RAE1	843.231602	0.110430165	1.78E-02
ENSG00000258572		13.73600674	-0.558227429	1.78E-02
ENSG00000231123	SPATA20P1	10.73486185	-1.380071413	1.78E-02
ENSG00000231621	ANKRD44-AS1	74.91024523	-0.329431528	1.78E-02
ENSG00000113300	CNOT6	1377.341782	0.135892614	1.78E-02

ENSG00000227407		42.96686135	-0.310697503	1.79E-02
ENSG00000011590	ZBTB32	70.31844261	-0.479631759	1.79E-02
ENSG00000242474	LINC03015	31.42666604	0.327665734	1.79E-02
ENSG00000274600	RIMBP3B	21.62303119	0.617972683	1.79E-02
ENSG00000198837	DENND4B	4875.018434	0.12483283	1.80E-02
ENSG00000277301		123.1518699	-0.336492776	1.80E-02
ENSG00000156136	DCK	1439.947632	-0.107752711	1.80E-02
ENSG00000239521	CASTOR3	901.3343805	-0.174554504	1.80E-02
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ENSG00000137200	CMTR1	2535.591262	0.235280466	1.80E-02
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ENSG00000214093		41.57106004	-0.283628168	1.81E-02
ENSG00000267279		15.88851097	-0.722799595	1.81E-02
ENSG00000126759	CFP	2627.637371	0.384640596	1.81E-02
ENSG00000267474		63.66695474	0.370672803	1.81E-02
ENSG00000211844	TRAJ45	101.9580235	0.291574318	1.81E-02
ENSG00000159685	CHCHD6	131.204255	0.192883923	1.82E-02
ENSG00000110619	CARS1	1839.852834	0.132217648	1.82E-02
ENSG00000269821	KCNQ1OT1	993.7661338	0.274662595	1.82E-02
ENSG00000168517	HEXIM2	84.1409983	0.279885494	1.83E-02
ENSG00000277589		53.43970851	-0.268181584	1.83E-02
ENSG00000241316	SUCLG2-DT	92.80702677	-0.28295496	1.83E-02
ENSG00000205426	KRT81	20.47070833	0.950293494	1.84E-02
ENSG00000278376		85.11044353	0.237071778	1.84E-02
ENSG00000064309	CDON	34.16034202	-0.353286103	1.84E-02
ENSG00000196689	TRPV1	151.6352437	-0.218554089	1.84E-02
ENSG00000222028	PSMB11	14.71485719	0.655597885	1.84E-02
ENSG00000032742	IFT88	456.3423939	-0.137759189	1.84E-02
ENSG00000203965	EFCAB7	199.5925837	0.154561965	1.84E-02
ENSG00000082269	FAM135A	620.5979147	-0.155178024	1.85E-02
ENSG00000235284	SNORD62A	20.99392467	-0.417965371	1.85E-02
ENSG00000166575	TMEM135	441.8868931	-0.148720667	1.85E-02
ENSG00000186806	VSIG10L	43.88682251	0.381954402	1.85E-02
ENSG00000240589	RN7SL258P	41.91622733	0.322286973	1.85E-02
ENSG00000006432	MAP3K9	297.177988	-0.150348649	1.85E-02
ENSG00000119335	SET	4508.997647	0.115039434	1.85E-02
ENSG00000151067	CACNA1C	27.97090091	0.56549374	1.86E-02
ENSG00000260273		21.78592182	0.456225659	1.86E-02
ENSG00000117620	SLC35A3	732.1531438	0.119041804	1.86E-02
ENSG00000078699	CBFA2T2	1482.443076	0.135306112	1.86E-02
ENSG00000144476	ACKR3	173.9476948	0.388022394	1.86E-02
ENSG00000105376	ICAM5	63.22428862	-0.572912268	1.86E-02
ENSG00000267632		147.3755075	0.37201116	1.86E-02
ENSG00000119686	FLVCR2	341.994527	0.288304895	1.86E-02
ENSG00000165097	KDM1B	972.2479783	-0.26823389	1.86E-02
ENSG00000144182	LIPT1	188.8221893	0.173599008	1.87E-02
ENSG00000259238		17.70220509	-0.537098994	1.87E-02
ENSG00000274885		57.15916468	-0.252779776	1.87E-02
ENSG00000135314	KHDC1	19.04680817	-0.448315214	1.87E-02
ENSG00000259332	ST20-MTHFS	68.59118415	0.411270275	1.87E-02
ENSG00000138311	ZNF365	96.32597008	-0.310245501	1.88E-02

ENSG00000270894		51.47834087	0.27396548	1.88E-02
ENSG00000201044	RNU6-268P	21.10094119	-0.457467413	1.89E-02
ENSG00000143951	WDPCP	343.6352866	-0.155834133	1.89E-02
ENSG00000125266	EFNB2	16.59958319	0.459368918	1.89E-02
ENSG00000138785	INTS12	365.4618032	-0.151746586	1.89E-02
ENSG00000185361	TNFAIP8L1	958.1345571	0.335371989	1.89E-02
ENSG00000256433		20.36840616	-0.500681347	1.89E-02
ENSG00000148814	LRRC27	169.6189965	0.188553764	1.89E-02
ENSG00000271781		28.11648223	-0.481849573	1.89E-02
ENSG00000125347	IRF1	18794.16121	-0.352381966	1.89E-02
ENSG00000201564	RN7SKP50	15.97039479	0.462395306	1.89E-02
ENSG00000109814	UGDH	402.6307299	0.16608827	1.89E-02
ENSG00000226800	CACTIN-AS1	36.33194943	0.360317327	1.90E-02
ENSG00000135968	GCC2	4630.398501	0.121660217	1.90E-02
ENSG00000255139		16.54173213	-0.422701892	1.90E-02
ENSG00000164828	SUN1	1433.208943	-0.100502192	1.90E-02
ENSG00000237133		16.86443086	0.430891061	1.90E-02
ENSG00000105619	TFPT	202.0794376	-0.158552527	1.90E-02
ENSG00000122912	SLC25A16	650.6743817	-0.116771153	1.90E-02
ENSG00000110108	TMEM109	959.3059701	-0.167216592	1.91E-02
ENSG00000078246	TULP3	185.4891923	0.215936311	1.91E-02
ENSG00000130227	XPO7	2763.124262	-0.210414807	1.92E-02
ENSG00000173862		18.0597418	-0.516329227	1.92E-02
ENSG00000277449	CEBPB-AS1	145.8167794	-0.259381088	1.92E-02
ENSG00000237803	LINC00211	127.4863303	0.521657618	1.92E-02
ENSG00000105248	YJU2	487.2721031	-0.197673009	1.92E-02
ENSG00000184068	SREBF2-AS1	48.19167993	0.423781592	1.93E-02
ENSG00000260743		15.04925595	0.476053986	1.93E-02
ENSG00000100916	BRMS1L	99.55190965	0.216472168	1.93E-02
ENSG00000100393	EP300	7444.216764	-0.142720017	1.93E-02
ENSG00000275839		25.13287205	0.377276329	1.93E-02
ENSG00000152760	DYNLT5	123.9743931	-1.207593964	1.93E-02
ENSG00000131188	PRR7	364.0524526	-0.431295088	1.93E-02
ENSG00000142731	PLK4	78.99867681	-0.265273366	1.94E-02
ENSG00000079313	REXO1	1664.681836	-0.130405558	1.95E-02
ENSG00000136051	WASHC4	5645.671684	0.18204106	1.95E-02
ENSG00000234426		34.7936402	-0.92834992	1.95E-02
ENSG00000250731	TPM3P6	28.93918991	-0.346030793	1.95E-02
ENSG00000011566	MAP4K3	711.7295384	0.270202115	1.96E-02
ENSG00000201544	SNORA16B	29.60271737	-0.352755813	1.96E-02
ENSG00000274667		47.96423041	-0.284975268	1.96E-02
ENSG00000066056	TIE1	16.14616502	-0.663346012	1.96E-02
ENSG00000165511	ZNF22-AS1	19.009958	0.394087516	1.96E-02
ENSG00000280332		173.2607334	-0.268839531	1.96E-02
ENSG00000181798	LINC00471	16.05270237	0.438017541	1.97E-02
ENSG00000166436	TRIM66	994.2899462	-0.179673359	1.97E-02
ENSG00000137265	IRF4	1041.874956	0.26503342	1.98E-02
ENSG00000143740	SNAP47	666.4223805	0.121578401	1.98E-02
ENSG00000080603	SRCAP	608.4748739	0.181551712	1.98E-02
ENSG00000185291	IL3RA	496.9094293	-0.286154411	1.98E-02
ENSG00000272763		18.03174691	0.556644028	1.98E-02

ENSG00000161905	ALOX15	337.6514066	0.407917733	1.98E-02
ENSG00000200063		23.51476272	-0.424015037	1.99E-02
ENSG00000273972		24.43302537	-0.511075289	2.00E-02
ENSG00000110107	PRPF19	1323.945702	0.126629013	2.00E-02
ENSG00000166855	CLPX	1094.102786	-0.102969388	2.00E-02
ENSG00000226942	IL9RP3	154.2721075	-0.247919902	2.00E-02
ENSG00000245322	H2AZ1-DT	18.14772237	0.394037786	2.01E-02
ENSG00000172262	ZNF131	1646.563591	0.073732012	2.01E-02
ENSG00000244198	ARHGEF35-AS1	71.57739833	-0.257972965	2.01E-02
ENSG00000180773	SLC36A4	1212.202278	0.177259517	2.02E-02
ENSG00000244701		210.9667072	-0.159694012	2.02E-02
ENSG00000139428	MMAB	270.4075831	0.159976488	2.02E-02
ENSG00000156966	B3GNT7	255.8737489	0.373060597	2.02E-02
ENSG00000106617	PRKAG2	1520.701396	-0.167332595	2.02E-02
ENSG00000083896	YTHDC1	3880.852386	-0.149754591	2.02E-02
ENSG00000186010	NDUFA13	163.6675994	-0.155273962	2.02E-02
ENSG00000171208	NETO2	338.2320232	0.703894052	2.03E-02
ENSG00000137880	GCHFR	381.6418986	0.291953279	2.03E-02
ENSG00000197766	CFD	1031.073812	-0.392041216	2.03E-02
ENSG00000089063	TMEM230	1126.295692	0.10629781	2.03E-02
ENSG00000095970	TREM2	144.6695055	-0.770245601	2.03E-02
ENSG00000251322	SHANK3	15.47050692	-0.855879689	2.03E-02
ENSG00000173511	VEGFB	475.8380046	0.148261612	2.03E-02
ENSG00000091137	SLC26A4	9.01775013	-0.831665859	2.04E-02
ENSG00000251079	BMS1P2	42.94797822	-0.279654099	2.04E-02
ENSG00000149656		27.76337801	-0.333887929	2.04E-02
ENSG00000007080	CCDC124	430.3288827	0.192618691	2.05E-02
ENSG00000100038	TOP3B	977.8305189	-0.112305812	2.05E-02
ENSG00000155324	GRAMD2B	175.5176306	0.171795005	2.05E-02
ENSG00000281831		43.88485544	-0.317165529	2.06E-02
ENSG00000132463	GRSF1	1512.645545	-0.114518326	2.06E-02
ENSG00000172159	FRMD3	187.7245284	-0.523205901	2.06E-02
ENSG00000130147	SH3BP4	46.70954356	-0.452060843	2.06E-02
ENSG00000259248	USP3-AS1	102.2565351	0.195332513	2.06E-02
ENSG00000248785	HIGD1AP14	47.20532409	-0.31701427	2.06E-02
ENSG00000228013	IL6R-AS1	31.0560118	0.38391417	2.06E-02
ENSG00000278431		30.23896966	-0.458972412	2.06E-02
ENSG00000276903	H2AC16	168.6716865	-0.508845465	2.07E-02
ENSG00000173917	HOXB2	298.9901017	0.228445025	2.07E-02
ENSG00000132646	PCNA	532.3427071	0.199057268	2.07E-02
ENSG00000269473	ZNF132-DT	27.84657061	0.315825939	2.07E-02
ENSG00000267834		27.81400171	-0.366864759	2.07E-02
ENSG00000276957		13.0071771	0.616786548	2.07E-02
ENSG00000150760	DOCK1	68.32987253	0.297686988	2.08E-02
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ENSG00000015676	NUDCD3	2291.688773	-0.121236005	2.09E-02
ENSG00000205643	CDPF1	166.9091598	0.172836848	2.09E-02
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ENSG00000099949	LZTR1	1345.220638	0.108388843	2.10E-02
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ENSG00000139053	PDE6H	12.06887909	0.695689533	2.11E-02
ENSG00000245812	LINC02202	13.62899158	0.506119391	2.11E-02
ENSG00000227382	EIF4A2P2	19.00595087	0.443569605	2.11E-02
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ENSG00000224376		32.13714726	0.351812066	2.12E-02
ENSG00000243762		34.90865264	-0.333116656	2.12E-02
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ENSG00000149177	PTPRJ	7620.977412	0.227449987	2.12E-02
ENSG00000202078		34.2438155	-0.381217467	2.13E-02
ENSG00000279207		285.8511143	-0.156480965	2.13E-02
ENSG00000122591	FAM126A	1180.179185	-0.214151605	2.13E-02
ENSG00000112312	GMNN	144.7171475	0.208296411	2.13E-02
ENSG00000132680	KHDC4	1729.104571	0.075555146	2.13E-02
ENSG00000213513	IMPDH1P5	19.58089357	-0.479662661	2.14E-02
ENSG00000179387	ELMOD2	713.996458	-0.145702587	2.14E-02
ENSG00000183486	MX2	9775.023953	0.372519883	2.14E-02
ENSG00000211455	STK38L	1509.952945	-0.421331878	2.14E-02
ENSG00000070404	FSTL3	121.395103	-0.378468604	2.15E-02
ENSG00000215068	ANXA2R-AS1	599.8748291	0.1481356	2.15E-02
ENSG00000272112		28.58277428	-0.340518998	2.15E-02
ENSG00000253616		67.06910172	-0.632613912	2.15E-02
ENSG00000115365	LANCL1	822.2984822	-0.131579447	2.15E-02
ENSG00000275832	ARHGAP23	31.82942627	0.460982348	2.16E-02
ENSG00000255569	TRAV1-1	20.45043165	-0.402558652	2.16E-02
ENSG00000169660	HEXD	1170.660755	-0.204777284	2.16E-02
ENSG00000173083	HPSE	1291.002917	-0.664209425	2.16E-02
ENSG00000097021	ACOT7	124.5064642	0.272716144	2.17E-02
ENSG00000118564	FBXL5	6435.187875	-0.258352572	2.17E-02
ENSG00000186522	SEPTIN10	179.9931958	0.415929752	2.18E-02
ENSG00000252050		13.07685415	-0.66583545	2.18E-02
ENSG00000213465	ARL2	198.6932399	0.166560901	2.18E-02
ENSG00000102981	PARD6A	106.8861223	0.267731359	2.19E-02
ENSG00000106771	TMEM245	2235.353132	0.166384139	2.19E-02
ENSG00000034152	MAP2K3	7439.045247	0.27094679	2.19E-02
ENSG00000137038	DMAC1	412.7120819	0.196426557	2.20E-02
ENSG00000148143	ZNF462	32.08774866	-0.366585645	2.20E-02
ENSG00000064999	ANKS1A	968.1117435	-0.13503081	2.20E-02
ENSG00000211749	TRBV23-1	41.92809524	-0.332538761	2.20E-02
ENSG00000187790	FANCM	412.3095836	0.123945863	2.21E-02
ENSG00000279133		294.9807008	0.212282208	2.21E-02
ENSG00000110536	PTPMT1	129.0180602	-0.217705919	2.21E-02
ENSG00000177570	SAMD12	215.5114852	-0.174667039	2.21E-02
ENSG00000198874	TYW1	569.035595	0.111533911	2.21E-02
ENSG00000261096		75.95957681	0.276207553	2.21E-02
ENSG00000275367		34.4133891	-0.358511608	2.22E-02
ENSG00000228886		63.50995936	-0.286810914	2.22E-02
ENSG00000077984	CST7	1392.495728	-0.355680879	2.22E-02
ENSG00000240877	RN7SL521P	19.52142474	0.415958926	2.22E-02
ENSG00000235703	EOLA2-DT	358.4119063	-0.234443903	2.22E-02
ENSG00000205959		56.20286947	-0.246714091	2.22E-02

ENSG00000261560		88.09982078	0.267762188	2.23E-02
ENSG00000182247	UBE2E2	303.4399657	0.185149159	2.23E-02
ENSG00000265874	MIR4489	32.8090314	-0.37324563	2.23E-02
ENSG00000277258	PCGF2	8.630348361	-0.964700234	2.23E-02
ENSG00000274184		29.59040148	0.673351699	2.24E-02
ENSG00000107798	LIPA	2105.384889	0.31011656	2.24E-02
ENSG00000007968	E2F2	634.9174484	-0.434581634	2.24E-02
ENSG00000173327	MAP3K11	5842.891205	0.198426042	2.24E-02
ENSG00000240211	PPP1R35-AS1	20.33696489	-0.513747378	2.24E-02
ENSG00000102103	PQBP1	701.5232443	0.138492161	2.24E-02
ENSG00000253590	IGLV3-13	21.12609091	-0.710136968	2.24E-02
ENSG00000099250	NRP1	735.2019573	0.771992461	2.24E-02
ENSG00000146410	MTFR2	43.89296564	-0.362442368	2.24E-02
ENSG00000126461	SCAF1	1814.224414	0.140620404	2.24E-02
ENSG00000095059	DHPS	1240.018139	-0.136775153	2.25E-02
ENSG00000145386	CCNA2	77.25156331	0.426222366	2.25E-02
ENSG00000107021	TBC1D13	1017.012532	0.095978717	2.25E-02
ENSG00000149823	VPS51	2666.344017	-0.16139248	2.25E-02
ENSG00000168785	TSPAN5	1336.449291	-0.406575765	2.25E-02
ENSG00000103707	MTFMT	299.330573	-0.142047749	2.26E-02
ENSG00000011009	LYPLA2	1145.850542	0.119585158	2.27E-02
ENSG00000198342	ZNF442	89.20925346	-0.26741916	2.27E-02
ENSG00000273219		20.45732911	0.41285963	2.27E-02
ENSG00000228300	FAM174C	513.784295	0.164838965	2.28E-02
ENSG00000083123	BCKDHB	277.5577681	-0.127127734	2.28E-02
ENSG00000117155	SSX2IP	342.5146149	-0.226950967	2.28E-02
ENSG00000136100	VPS36	1514.850643	-0.07852717	2.28E-02
ENSG00000259682		48.25121369	-0.276131806	2.28E-02
ENSG00000271746		26.81275571	-0.410312213	2.28E-02
ENSG00000116017	ARID3A	1673.445921	0.248807767	2.28E-02
ENSG00000244671	RN7SL280P	26.07967229	-0.39643198	2.28E-02
ENSG00000181472	ZBTB2	835.8482806	0.158671883	2.28E-02
ENSG00000132819	RBM38	8969.253672	-0.345937391	2.28E-02
ENSG00000004809	SLC22A16	30.73328442	-0.600052258	2.28E-02
ENSG00000164687	FABP5	1044.511406	1.028075124	2.28E-02
ENSG00000178078	STAP2	17.30870876	0.447786004	2.28E-02
ENSG00000270231	NBPF8	974.9309966	0.172373925	2.29E-02
ENSG00000258810		46.20340927	-0.473759825	2.29E-02
ENSG00000087087	SRRT	1926.46226	-0.08087023	2.29E-02
ENSG00000276289		18.50121689	-0.651623753	2.29E-02
ENSG00000143748	NVL	674.4654782	0.101460282	2.29E-02
ENSG00000160551	TAOK1	4480.903579	-0.113731284	2.29E-02
ENSG00000204519	ZNF551	574.639344	-0.173890283	2.30E-02
ENSG00000160323	ADAMTS13	61.80150716	-0.316639788	2.30E-02
ENSG00000183439	TRIM61	21.17384513	0.383179294	2.30E-02
ENSG00000228434		382.1203873	0.171942794	2.30E-02
ENSG00000188559	RALGAPA2	3397.284641	0.186053115	2.31E-02
ENSG00000137692	DCUN1D5	335.0552848	0.171644015	2.31E-02
ENSG00000196531	NACA	5745.761073	-0.126998947	2.31E-02
ENSG00000260316		72.41054233	0.277118231	2.32E-02
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ENSG00000175063	UBE2C	54.78469456	0.362849061	2.32E-02
ENSG00000267274		87.6103896	-0.219520586	2.32E-02
ENSG00000160216	AGPAT3	2546.460041	-0.109100606	2.33E-02
ENSG00000178999	AURKB	44.19409418	-0.429769519	2.33E-02
ENSG00000232388	SMIM26	163.1412678	-0.188399631	2.34E-02
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ENSG00000167914	GSDMA	17.34917408	-1.034218114	2.34E-02
ENSG00000107829	FBXW4	1480.082295	-0.11307986	2.35E-02
ENSG00000115590	IL1R2	1912.890664	0.651703427	2.35E-02
ENSG00000273173	SNURF	48.89620503	-0.32115046	2.35E-02
ENSG00000250011	HMGB1P3	33.09685582	0.380353987	2.35E-02
ENSG00000133256	PDE6B	178.8467697	-0.242256766	2.35E-02
ENSG00000188599	NPIPP1	33.93060231	-0.298681235	2.35E-02
ENSG00000153933	DGKE	1101.232154	-0.131731997	2.35E-02
ENSG00000149201	CCDC81	25.65063475	0.409035267	2.36E-02
ENSG00000225231	LINC02470	15.89200719	0.701412057	2.36E-02
ENSG00000119723	COQ6	374.4085571	0.106846594	2.36E-02
ENSG00000163322	ABRAXAS1	570.0161836	-0.160199879	2.37E-02
ENSG00000141497	ZMYND15	425.0198575	-0.550976178	2.37E-02
ENSG00000171488	LRRC8C	2015.258377	-0.123576284	2.37E-02
ENSG00000123612	ACVR1C	184.3378822	-0.22952743	2.37E-02
ENSG00000177082	WDR73	938.8044204	0.133257951	2.37E-02
ENSG00000119922	IFIT2	8546.548525	0.68403706	2.38E-02
ENSG00000234134		24.51701124	0.321039984	2.38E-02
ENSG00000240695		116.4904044	-0.239383329	2.38E-02
ENSG00000163029	SMC6	1139.703507	0.103743411	2.38E-02
ENSG00000235088		37.12386155	-0.313240522	2.39E-02
ENSG00000274008		608.0517414	-0.40597108	2.39E-02
ENSG00000177707	NECTIN3	125.944152	0.271111387	2.39E-02
ENSG00000100319	ZMAT5	390.3459791	-0.145627493	2.40E-02
ENSG00000108509	CAMTA2	1938.662656	0.182116819	2.40E-02
ENSG00000147133	TAF1	2168.988845	-0.121483634	2.40E-02
ENSG00000204138	PHACTR4	1025.210412	-0.097586895	2.40E-02
ENSG00000186063	AIDA	1650.165084	-0.13812612	2.41E-02
ENSG00000132485	ZRANB2	3399.00166	-0.149855172	2.41E-02
ENSG00000236570	RAD23BP1	43.47450422	-0.322246435	2.41E-02
ENSG00000175550	DRAP1	836.8117043	-0.245963997	2.41E-02
ENSG00000237296	SMG1P1	923.8261882	0.150038384	2.41E-02
ENSG00000215841		9.798526603	0.853651891	2.41E-02
ENSG00000164040	PGRMC2	728.0036362	-0.118302046	2.42E-02
ENSG00000105856	HBP1	4070.209521	-0.202854515	2.42E-02
ENSG00000158163	DZIP1L	41.69175931	-0.650993902	2.42E-02
ENSG00000077782	FGFR1	382.9271064	0.206667055	2.42E-02
ENSG00000133316	WDR74	663.6413522	0.137197259	2.42E-02
ENSG00000166136	NDUFB8	343.3819815	-0.155631481	2.42E-02
ENSG00000236935		38.32148238	-0.346313736	2.42E-02
ENSG00000085733	CTTN	160.6026603	-0.660646434	2.42E-02
ENSG00000277999		34.35430616	-0.382621459	2.43E-02
ENSG00000205707	ETFRF1	367.4191044	-0.176485042	2.43E-02
ENSG00000274051		19.16843645	-0.468772536	2.43E-02

ENSG00000182324	KCNJ14	89.97876223	0.238033922	2.43E-02
ENSG00000159210	SNF8	833.5480674	0.092144844	2.43E-02
ENSG00000176845	METRNL	3226.985086	0.22949589	2.43E-02
ENSG00000253535	ADAM7-AS1	47.11055991	0.320329659	2.43E-02
ENSG00000204424	LY6G6F	6.973144091	-0.935124966	2.43E-02
ENSG00000170677	SOCS6	235.2235961	-0.274136044	2.44E-02
ENSG00000125384	PTGER2	962.8637582	0.311271374	2.44E-02
ENSG00000133302	SLF1	709.7146409	-0.190361149	2.45E-02
ENSG00000235785		13.31824302	-0.544645928	2.45E-02
ENSG00000278058		14.44549386	0.434280483	2.46E-02
ENSG00000279328		90.37290168	-0.210012918	2.46E-02
ENSG00000264006	AKR1C8	16.15944436	-0.461934383	2.46E-02
ENSG00000147804	SLC39A4	88.18029108	-0.251787389	2.46E-02
ENSG00000283222	MIR4433A	17.01564011	0.895198312	2.46E-02
ENSG00000100226	GTPBP1	4981.010199	0.183080678	2.46E-02
ENSG00000100105	PATZ1	1306.326175	-0.1507478	2.46E-02
ENSG00000073111	MCM2	306.3814299	0.247031292	2.47E-02
ENSG00000112699	GMDS	302.2612354	-0.169132138	2.47E-02
ENSG00000197837	H4-16	1751.196035	-0.186204699	2.47E-02
ENSG00000251485	NRBF2P6	30.33258312	-0.343807926	2.47E-02
ENSG00000142945	KIF2C	53.71847194	0.41825782	2.48E-02
ENSG00000095564	BTAF1	3623.030786	-0.083841384	2.48E-02
ENSG00000108518	PFN1	13452.80928	0.250712862	2.48E-02
ENSG00000227962		34.42554895	0.355705974	2.48E-02
ENSG00000105732	ZNF574	509.2838156	0.18350572	2.48E-02
ENSG00000223387	LINC02068	15.29915966	1.130663681	2.48E-02
ENSG00000280214		123.0295533	0.33417812	2.48E-02
ENSG00000158711	ELK4	4507.188866	0.109989264	2.49E-02
ENSG00000181038	METTL23	682.4503798	0.142214876	2.49E-02
ENSG00000076944	STXBP2	2205.018351	-0.197269401	2.50E-02
ENSG00000234705	HMGA1P4	29.24735651	0.424677641	2.50E-02
ENSG00000172867	KRT2	14.24991855	-0.522027825	2.50E-02
ENSG00000102760	RGCC	1254.220243	0.392552404	2.51E-02
ENSG00000169245	CXCL10	459.5247689	1.469154637	2.51E-02
ENSG00000234772	LINC00412	25.31578201	0.367486795	2.51E-02
ENSG00000155265	GOLGA7B	257.6746734	-0.241301715	2.51E-02
ENSG00000175376	EIF1AD	848.6171903	-0.077212468	2.51E-02
ENSG00000253878		45.60315352	0.292845237	2.52E-02
ENSG00000284523		23.78052393	-0.471512264	2.52E-02
ENSG00000168876	ANKRD49	692.5687188	-0.187037732	2.52E-02
ENSG00000141759	TXNL4A	917.3177207	-0.12548109	2.52E-02
ENSG00000101363	MANBAL	426.0975371	0.135355791	2.52E-02
ENSG00000156603	MED19	199.3988391	0.238756169	2.53E-02
ENSG00000127838	PNKD	983.099102	0.241985071	2.53E-02
ENSG00000259877	ZNF778-DT	130.3192517	0.199981077	2.53E-02
ENSG00000102804	TSC22D1	1867.903553	-0.221607219	2.53E-02
ENSG00000234624		21.77095851	-0.35979661	2.53E-02
ENSG00000129968	ABHD17A	5314.639951	-0.130875602	2.54E-02
ENSG00000070495	JMJD6	1925.580775	-0.257097973	2.54E-02
ENSG00000106299	WASL	627.0045094	-0.103847631	2.55E-02
ENSG00000278817		25.81271496	-0.386705247	2.55E-02

ENSG00000128973	CLN6	460.9281445	0.143018709	2.55E-02
ENSG00000110274	CEP164	988.0170159	-0.122939834	2.56E-02
ENSG00000112320	SOBP	19.76866342	0.469753196	2.56E-02
ENSG00000273454		22.69168748	0.430088041	2.56E-02
ENSG00000142507	PSMB6	641.7471506	0.15604967	2.56E-02
ENSG00000112144	CILK1	599.272589	-0.110113255	2.56E-02
ENSG00000200183	RNU6-238P	17.53139412	-0.436432354	2.57E-02
ENSG00000277368		13.7700378	-0.510267415	2.57E-02
ENSG00000205740		95.24813374	0.265029561	2.57E-02
ENSG00000266139	MIR4435-2	7.634468896	-0.731053184	2.58E-02
ENSG00000274963	RN7SL600P	498.752693	0.224564282	2.59E-02
ENSG00000082212	ME2	2858.169046	-0.335835686	2.59E-02
ENSG00000234832	NXT1-AS1	23.38823483	0.410359159	2.60E-02
ENSG00000268204		48.62328512	-0.285799911	2.60E-02
ENSG00000211882	TRAJ7	202.8823765	0.258978335	2.60E-02
ENSG00000076513	ANKRD13A	4740.58292	-0.228160304	2.60E-02
ENSG00000180425	C11orf71	259.3046626	0.177176325	2.62E-02
ENSG00000137941	TTLL7	33.89098745	-0.368194982	2.63E-02
ENSG00000211842	TRAJ47	80.92603466	0.291331029	2.63E-02
ENSG00000177721	ANXA2R	650.56879	0.16268887	2.63E-02
ENSG00000134864	GGACT	120.9513272	-0.269843733	2.63E-02
ENSG00000128463	EMC4	668.0296764	-0.158413447	2.64E-02
ENSG00000011105	TSPAN9	69.94319483	-0.552821536	2.64E-02
ENSG00000233850		77.57995677	-0.326040455	2.64E-02
ENSG00000146707	POMZP3	271.1563301	-0.18809702	2.64E-02
ENSG00000070018	LRP6	136.9972994	-0.205458693	2.64E-02
ENSG00000204301	NOTCH4	70.15895364	-0.319110164	2.64E-02
ENSG00000188130	MAPK12	32.35230529	-0.334234494	2.65E-02
ENSG00000255197		437.1507502	-0.370846534	2.65E-02
ENSG00000188677	PARVB	767.2196589	0.232725869	2.66E-02
ENSG00000120798	NR2C1	619.8876678	-0.119479684	2.66E-02
ENSG00000166762	CATSPER2	233.9759799	-0.175807899	2.67E-02
ENSG00000224597	SVIL-AS1	359.098777	0.169825653	2.67E-02
ENSG00000113595	TRIM23	985.9976114	-0.133678296	2.67E-02
ENSG00000279977		180.2528029	-0.200956987	2.67E-02
ENSG00000105889	STEAP1B	33.04905563	-0.527120602	2.68E-02
ENSG00000112210	RAB23	101.6094175	0.314012243	2.68E-02
ENSG00000139344	AMDHD1	45.55397068	-0.305731848	2.68E-02
ENSG00000249115	HAUS5	402.1861716	-0.199102989	2.69E-02
ENSG00000271788		38.32933592	0.342678744	2.69E-02
ENSG00000110079	MS4A4A	395.8278973	0.523986211	2.69E-02
ENSG00000238835	SCARNA18	22.41117526	-0.422417512	2.70E-02
ENSG00000273674		13.96814317	-0.484447784	2.70E-02
ENSG00000012174	MBTPS2	322.0935909	0.125140436	2.71E-02
ENSG00000274421		50.24698261	-0.239683068	2.71E-02
ENSG00000279406		60.7274391	0.23615108	2.71E-02
ENSG00000155008	APOOL	355.4194003	-0.12635013	2.72E-02
ENSG00000235159	LINC02939	15.70824087	0.565721149	2.72E-02
ENSG00000012779	ALOX5	4300.101092	-0.32779108	2.72E-02
ENSG00000101695	RNF125	1773.431684	-0.140056843	2.72E-02
ENSG00000117133	RPF1	690.9699658	-0.171077682	2.73E-02

ENSG00000267412		24.46168916	-0.467896238	2.73E-02
ENSG00000135108	FBXO21	1108.252361	-0.116517002	2.73E-02
ENSG00000206503	HLA-A	71298.06668	0.150581335	2.73E-02
ENSG00000177614	PGBD5	18.64134622	-0.864303562	2.74E-02
ENSG00000055732	MCOLN3	19.1973079	0.539911327	2.74E-02
ENSG00000187792	ZNF70	389.4268115	0.131070052	2.75E-02
ENSG00000141519	CCDC40	12.57325658	-0.482561194	2.76E-02
ENSG00000155906	RMND1	292.9073989	0.231617675	2.76E-02
ENSG00000266088		22.30608342	0.395402285	2.76E-02
ENSG00000122545	SEPTIN7	3547.392259	-0.119624407	2.76E-02
ENSG00000197170	PSMD12	1103.923357	-0.095706577	2.77E-02
ENSG00000168310	IRF2	3372.232764	-0.159597745	2.77E-02
ENSG00000179750	APOBEC3B	83.33491468	0.573514636	2.77E-02
ENSG00000181929	PRKAG1	1015.636285	0.116202139	2.77E-02
ENSG00000155970	MICU3	205.7847315	0.170890866	2.77E-02
ENSG00000198171	DDRKG1	700.0285389	-0.137538457	2.78E-02
ENSG00000270259		18.52024448	-0.463348123	2.78E-02
ENSG00000155621	C9orf85	224.6930905	0.130768467	2.78E-02
ENSG00000267764		29.68546178	-0.484139295	2.78E-02
ENSG00000156313	RPGR	641.4800911	0.241381125	2.78E-02
ENSG00000118961	LDAH	444.7528794	0.129408588	2.78E-02
ENSG00000230989	HSBP1	1394.502813	0.213365513	2.78E-02
ENSG00000198785	GRIN3A	11.72586772	-1.041589089	2.78E-02
ENSG00000196724	ZNF418	237.4506534	0.126985883	2.78E-02
ENSG00000006125	AP2B1	4683.95276	0.122048492	2.79E-02
ENSG00000107020	PLGRKT	250.1612141	0.216553516	2.79E-02
ENSG00000078237	TIGAR	540.0636324	0.218160566	2.79E-02
ENSG00000260949		32.83064005	0.517386046	2.79E-02
ENSG00000117643	MAN1C1	1877.833231	0.236756998	2.79E-02
ENSG00000211934	IGHV1-2	81.80543072	-0.407877655	2.80E-02
ENSG00000107745	MICU1	1111.947215	-0.210636734	2.80E-02
ENSG00000197536	IRF1-AS1	3549.345746	0.204129094	2.80E-02
ENSG00000130208	APOC1	54.19317602	1.41283652	2.81E-02
ENSG00000135272	MDFIC	1759.087724	-0.156645156	2.81E-02
ENSG00000180616	SSTR2	9.289926696	1.142251044	2.81E-02
ENSG00000272418		17.63024662	0.405846774	2.81E-02
ENSG00000112697	TMEM30A	3245.667667	-0.159646926	2.81E-02
ENSG00000150433	TMEM218	321.782631	0.119477358	2.81E-02
ENSG00000253352	TUG1	4861.049232	0.106584263	2.81E-02
ENSG00000107929	LARP4B	3778.08315	0.148731593	2.82E-02
ENSG00000126062	TMEM115	904.7531571	0.135636074	2.82E-02
ENSG00000232934		38.43979792	-0.320789361	2.82E-02
ENSG00000176986	SEC24C	3318.409668	0.092352877	2.82E-02
ENSG00000235062	BCRP5	16.43567072	-0.442655937	2.83E-02
ENSG00000259768	ZFH3-AS1	94.64525963	-0.23361769	2.83E-02
ENSG00000163625	WDFY3	4746.831577	0.370239002	2.84E-02
ENSG00000125458	NT5C	383.8819047	-0.152388578	2.84E-02
ENSG00000197696	NMB	74.37773186	0.382013848	2.84E-02
ENSG00000244625	MIATNB	851.4681383	-0.138823441	2.85E-02
ENSG00000212370	RNU6-482P	19.44167681	-0.359524943	2.85E-02
ENSG00000130856	ZNF236	1255.917183	-0.117620081	2.85E-02

ENSG00000261898		25.19890537	-0.627488638	2.85E-02
ENSG00000123992	DNPEP	917.1130588	0.129823751	2.86E-02
ENSG00000197134	ZNF257	124.9574062	0.21011541	2.88E-02
ENSG00000175548	ALG10B	452.7876904	0.136482773	2.88E-02
ENSG00000182257	PRR34	39.16720313	-0.293332438	2.89E-02
ENSG00000204642	HLA-F	9541.4773	0.142077916	2.89E-02
ENSG00000207368		31.39498873	-0.413480376	2.89E-02
ENSG00000270704		23.41464614	-0.439596177	2.89E-02
ENSG00000107863	ARHGAP21	900.2247898	-0.162894744	2.90E-02
ENSG00000235760	MSH2-OT1	52.50821753	0.31303933	2.90E-02
ENSG00000179091	CYC1	869.7798051	0.156509304	2.90E-02
ENSG00000185684	EP400P1	778.9722827	0.123014185	2.90E-02
ENSG00000143167	GPA33	423.9881847	0.243518026	2.90E-02
ENSG00000258405	ZNF578	48.08966086	-0.312413783	2.90E-02
ENSG00000141664	ZCCHC2	4219.23322	0.279852622	2.91E-02
ENSG00000140943	MBTPS1	3514.131293	-0.067327762	2.92E-02
ENSG00000063322	MED29	1317.812189	-0.110743118	2.92E-02
ENSG00000268061	NAPA-AS1	56.16229381	0.239840962	2.92E-02
ENSG00000089195	TRMT6	424.2323058	0.342342077	2.92E-02
ENSG00000025434	NR1H3	347.325104	0.31533118	2.93E-02
ENSG00000273576		114.3201107	-0.17935852	2.93E-02
ENSG00000143324	XPR1	1060.970263	-0.100298665	2.93E-02
ENSG00000188315	C3orf62	876.9840453	-0.188672061	2.93E-02
ENSG00000256464	YWHABP2	40.79714669	0.27938167	2.94E-02
ENSG00000266777	SH3GL1P1	304.5896256	0.206729744	2.94E-02
ENSG00000115170	ACVR1	606.5157809	0.260299611	2.95E-02
ENSG00000273230		90.28940326	-0.231534104	2.95E-02
ENSG00000170893	TRH	5.245571092	1.704204357	2.96E-02
ENSG00000200953		33.36197858	0.39788548	2.96E-02
ENSG00000204420	MPIG6B	165.3905116	-0.697695485	2.96E-02
ENSG00000265666	RARA-AS1	210.6900276	-0.320533365	2.98E-02
ENSG00000010310	GIPR	232.7094776	-0.236656293	2.98E-02
ENSG00000070190	DAPP1	3143.024143	0.302345167	2.98E-02
ENSG00000168734	PKIG	280.82339	0.186693086	2.99E-02
ENSG00000275557		427.7209783	0.315059258	3.00E-02
ENSG00000122481	RWDD3	221.7988891	0.136155665	3.00E-02
ENSG00000135503	ACVR1B	935.3992949	0.290444731	3.00E-02
ENSG00000269720	CCDC194	54.65531191	0.413476978	3.00E-02
ENSG00000204178	MACO1	842.2356528	-0.11176363	3.00E-02
ENSG00000184925	LCN12	14.62744081	-0.490658071	3.00E-02
ENSG00000214114	MYCBP	237.0816437	-0.176986777	3.01E-02
ENSG00000099326	MZF1	927.8718554	-0.101866541	3.01E-02
ENSG00000244327		24.77616851	-0.350485513	3.02E-02
ENSG00000276282		32.79498121	0.458653764	3.02E-02
ENSG00000186976	EFCAB6	22.14897093	0.377364621	3.03E-02
ENSG00000236928		17.13881366	0.414757352	3.03E-02
ENSG00000012963	UBR7	388.7103281	-0.127531034	3.03E-02
ENSG00000121851	POLR3GL	172.3074665	-0.192175481	3.03E-02
ENSG00000237646	HLCS-IT1	19.88964003	-0.435009293	3.04E-02
ENSG00000125482	TTF1	613.4733086	0.096569497	3.04E-02
ENSG00000168763	CNNM3	1443.175449	-0.121509278	3.04E-02

ENSG00000207750	MIR553	17.70903533	-0.381603907	3.04E-02
ENSG00000279700		141.5790848	-0.197531162	3.04E-02
ENSG00000279078	SND1-IT1	208.1212245	0.17390201	3.05E-02
ENSG00000215158	GUSBP18	675.748427	-0.124640943	3.05E-02
ENSG00000150459	SAP18	952.5006437	-0.142679393	3.05E-02
ENSG00000213066	CEP43	481.2129627	-0.163977883	3.05E-02
ENSG00000166669	ATF7IP2	1155.558107	0.101995146	3.05E-02
ENSG00000225578	NCBP2-AS1	29.10416343	-0.332830433	3.06E-02
ENSG00000280010		24.47734423	-0.374738481	3.07E-02
ENSG00000241549	GUSBP2	189.2662225	-0.156660862	3.07E-02
ENSG00000211895	IGHA1	3356.122101	-0.38895361	3.07E-02
ENSG00000157306	ZFHX2-AS1	129.6235417	0.190307834	3.07E-02
ENSG00000167257	RNF214	403.8844976	-0.105113061	3.07E-02
ENSG00000211810	TRAV29DV5	76.62085262	-0.232782032	3.08E-02
ENSG00000279598		240.4452844	0.244223906	3.08E-02
ENSG00000148672	GLUD1	2640.741169	-0.09576166	3.08E-02
ENSG00000120756	PLS1	58.87535886	0.217200274	3.08E-02
ENSG00000139597	N4BP2L1	1159.226376	0.118856301	3.09E-02
ENSG00000187531	SIRT7	1674.02391	0.146864313	3.09E-02
ENSG00000089280	FUS	5819.446519	-0.137722279	3.10E-02
ENSG00000116957		264.6546107	-0.113124228	3.10E-02
ENSG00000134042	MRO	49.10392838	-1.786591873	3.10E-02
ENSG00000164924	YWHAZ	17131.30055	-0.110603576	3.10E-02
ENSG00000204859	ZBTB48	1230.731063	0.155957397	3.11E-02
ENSG00000251442	LINC01094	208.8319931	-0.767387413	3.11E-02
ENSG00000245275	SAP30L-AS1	108.3301882	0.272375952	3.12E-02
ENSG00000065029	ZNF76	1253.504603	0.087501191	3.12E-02
ENSG00000249459	ZNF286B	126.2586781	0.161673986	3.12E-02
ENSG00000075213	SEMA3A	50.02790256	0.580277566	3.12E-02
ENSG00000021300	PLEKHB1	447.0312858	-0.136518843	3.13E-02
ENSG00000268516	ZNF8-DT	110.8081386	0.248269263	3.13E-02
ENSG00000109189	USP46	498.5427505	-0.132319097	3.13E-02
ENSG00000204860	FAM201A	40.55151344	-0.352246864	3.13E-02
ENSG00000139354	GAS2L3	294.0557599	0.641166652	3.14E-02
ENSG00000253537	PCDHGA7	30.39493466	0.319074763	3.15E-02
ENSG00000197099	HRG-AS1	15.698818	-0.445759425	3.15E-02
ENSG00000168672	LRATD2	669.2368068	-0.186583338	3.16E-02
ENSG00000269834	ZNF528-AS1	71.05589922	0.245504585	3.16E-02
ENSG00000162769	FLVCR1	733.9632456	0.267772743	3.17E-02
ENSG00000171502	COL24A1	46.0862388	0.302526271	3.17E-02
ENSG00000160877	NACC1	1486.191783	0.222598117	3.18E-02
ENSG00000224043	CCNT2-AS1	32.17333198	-0.283232779	3.18E-02
ENSG00000156500	PABIR3	294.5202168	0.131229488	3.18E-02
ENSG00000260417		285.465353	-0.232974107	3.18E-02
ENSG00000242175	RN7SL127P	28.01748733	-0.400338586	3.18E-02
ENSG00000116560	SFPQ	9377.467687	0.086930252	3.18E-02
ENSG00000276699	TRAJ36	123.4792054	0.277486763	3.19E-02
ENSG00000225492	GBP1P1	183.9454712	0.964115673	3.19E-02
ENSG00000146476	ARMT1	792.0773397	0.376520134	3.19E-02
ENSG00000107551	RASSF4	1164.080416	-0.467020125	3.19E-02
ENSG00000265612	MIR4539	37.42559166	0.343747617	3.19E-02

ENSG00000213073	CHP1P2	620.9145457	-0.326155387	3.19E-02
ENSG00000231473	RB1-DT	39.42845191	-0.328731536	3.19E-02
ENSG00000283399		161.2184782	0.579954896	3.19E-02
ENSG00000168061	SAC3D1	98.62203095	0.226797115	3.20E-02
ENSG00000197629	MPEG1	7914.28787	-0.343630505	3.21E-02
ENSG00000204261	PSMB8-AS1	1665.732875	0.123565539	3.21E-02
ENSG00000135387	CAPRIN1	4000.269795	0.105648353	3.21E-02
ENSG00000274290	H2BC6	512.9339254	-0.265837611	3.22E-02
ENSG00000126215	XRCC3	236.8985489	0.150321034	3.22E-02
ENSG00000226751		10.30928115	-0.758448733	3.22E-02
ENSG00000279873	LINC01126	378.2362432	-0.225722881	3.23E-02
ENSG00000242880		23.31133252	0.446374866	3.23E-02
ENSG00000196911	KPNA5	1395.502563	0.125756036	3.23E-02
ENSG00000105227	PRX	121.342091	-0.188714219	3.23E-02
ENSG00000196290	NIF3L1	349.5983719	0.117658458	3.23E-02
ENSG00000264538	SUZ12P1	955.1539372	0.127083317	3.24E-02
ENSG00000168255	POLR2J3	1563.349756	-0.108616964	3.25E-02
ENSG00000211788	TRAV13-1	92.38330971	-0.204691407	3.25E-02
ENSG00000132274	TRIM22	10182.39616	0.348005022	3.25E-02
ENSG00000213380	COG8	314.8270694	0.138915335	3.25E-02
ENSG00000279928	DDX11L17	8.297471531	-0.856395988	3.25E-02
ENSG00000279066	HEXD-IT1	50.78815954	0.292295801	3.26E-02
ENSG00000112893	MAN2A1	3248.680821	0.101181965	3.27E-02
ENSG00000187475	H1-6	17.36425145	-0.596672048	3.28E-02
ENSG00000165156	ZHX1	732.7032166	-0.119547588	3.28E-02
ENSG00000278778		9.820058497	0.657217774	3.28E-02
ENSG00000221829	FANCG	284.4947707	0.119723581	3.29E-02
ENSG00000265660	MIR4664	16.90440347	0.420064599	3.29E-02
ENSG00000267640		10.27618144	0.537649323	3.29E-02
ENSG00000131127	ZNF141	887.6061361	0.133356502	3.30E-02
ENSG00000213185	FAM24B	65.66764232	0.216136351	3.30E-02
ENSG00000198001	IRAK4	1764.156271	-0.113743318	3.30E-02
ENSG00000137216	TMEM63B	1496.641573	-0.341220335	3.31E-02
ENSG00000099956	SMARCB1	951.3728035	-0.096377778	3.31E-02
ENSG00000136819	C9orf78	3061.514408	-0.292081751	3.31E-02
ENSG00000083844	ZNF264	1876.481282	0.106770306	3.31E-02
ENSG00000283602		89.51126151	-0.462197441	3.31E-02
ENSG00000196781	TLE1	499.1492453	-0.251506443	3.32E-02
ENSG00000278829		327.8371471	-0.241142656	3.32E-02
ENSG00000228828	TLK2P2	37.14544107	-0.294785334	3.32E-02
ENSG00000196998	WDR45	1601.147656	-0.190442536	3.33E-02
ENSG00000166707	ZCCHC18	149.7544653	0.381609496	3.34E-02
ENSG00000122678	POLM	1613.079132	-0.089045786	3.34E-02
ENSG00000156471	PTDSS1	1864.921304	-0.087394814	3.34E-02
ENSG00000215114	UBXN2B	2091.997559	-0.31015087	3.34E-02
ENSG00000099866	MADCAM1	27.75564317	-0.391607286	3.34E-02
ENSG00000151006	PRSS53	122.4203508	0.194254491	3.35E-02
ENSG00000184903	IMMP2L	282.2594217	0.175228312	3.35E-02
ENSG00000170836	PPM1D	788.6941306	0.157255007	3.35E-02
ENSG00000136197	C7orf25	54.36210236	0.258224341	3.35E-02
ENSG00000128805	ARHGAP22	179.9433381	0.404423426	3.36E-02

ENSG00000138835	RGS3	1256.296767	-0.218910325	3.36E-02
ENSG00000238063	LINC01685	17.59367536	0.460554402	3.36E-02
ENSG00000101856	PGRMC1	584.5239469	-0.246404552	3.37E-02
ENSG00000256347	OR8R1P	29.70597039	0.723845526	3.37E-02
ENSG00000213071	LPAL2	88.98364082	-0.336381142	3.37E-02
ENSG00000196417	ZNF765	683.4342769	0.1321094	3.38E-02
ENSG00000164430	CGAS	698.8034935	0.227209978	3.38E-02
ENSG00000128185	DGCR6L	481.2121339	-0.209650198	3.38E-02
ENSG00000125772	GPCPD1	6554.636706	-0.188743624	3.38E-02
ENSG00000197256	KANK2	150.0449099	-0.477051131	3.38E-02
ENSG00000200563	RNU6-640P	18.79521295	0.418782085	3.39E-02
ENSG00000211858	TRAJ31	74.92474482	0.328821051	3.39E-02
ENSG00000224080	UBE2FP1	37.3013363	-0.31987563	3.39E-02
ENSG00000148343	MIGA2	1235.19687	-0.126405704	3.39E-02
ENSG00000171169	NAIF1	347.9060818	-0.170771059	3.39E-02
ENSG00000278600		1514.645044	0.307094039	3.40E-02
ENSG00000235290	HLA-W	159.278495	0.523027274	3.40E-02
ENSG00000162493	PDPN	29.21622878	1.077875827	3.41E-02
ENSG00000226608	FTLP3	47.20604492	0.418880623	3.41E-02
ENSG00000211663	IGLV3-19	72.74030057	-0.51455408	3.41E-02
ENSG00000115310	RTN4	4557.090163	0.211768913	3.41E-02
ENSG00000100297	MCM5	1448.803339	-0.09037048	3.42E-02
ENSG00000282738		7.578615915	0.782872295	3.42E-02
ENSG00000139160	ETFBKMT	58.79613197	0.223436787	3.42E-02
ENSG00000027075	PRKCH	6966.304114	0.108558135	3.42E-02
ENSG00000002919	SNX11	997.9412534	-0.161263826	3.42E-02
ENSG00000211866	TRAJ23	170.6094152	0.298762248	3.43E-02
ENSG00000251682		175.3217502	-0.244631939	3.43E-02
ENSG00000082781	ITGB5	293.2046161	-0.471073592	3.43E-02
ENSG00000233496	SYNJ2-IT1	20.11883127	-0.438313619	3.44E-02
ENSG00000260669		117.442689	-0.225877186	3.44E-02
ENSG00000231682	LINC01891	126.2618868	-0.24784825	3.44E-02
ENSG00000162804	SNED1	1422.275188	0.270599779	3.44E-02
ENSG00000184677	ZBTB40	2256.287061	-0.096143851	3.44E-02
ENSG00000122687	MRM2	424.7768751	0.140895729	3.44E-02
ENSG00000168356	SCN11A	14.05223507	0.467905716	3.44E-02
ENSG00000167513	CDT1	42.85157505	-0.496335386	3.44E-02
ENSG00000131351	HAUS8	322.6618137	-0.121982661	3.44E-02
ENSG00000260448	LCMT1-AS1	29.84798153	-0.31617131	3.44E-02
ENSG00000267454	ZNF582-DT	37.42721959	0.290578701	3.44E-02
ENSG00000219409		21.35252192	0.420914203	3.45E-02
ENSG00000174989	FBXW8	435.4551689	-0.134733491	3.45E-02
ENSG00000226688	ENTPD1-AS1	236.1897685	-0.142624767	3.45E-02
ENSG00000220785	MTMR9LP	36.01162648	-0.376536135	3.45E-02
ENSG00000255491		50.12055	-1.215290223	3.46E-02
ENSG00000068079	IFI35	1175.148066	0.395342553	3.46E-02
ENSG00000275431		27.82317937	0.417814778	3.46E-02
ENSG00000236790	LINC00299	253.7817491	0.339522664	3.46E-02
ENSG00000134291	TMEM106C	328.3393135	0.136392158	3.46E-02
ENSG00000169519	METTL15	438.0115288	0.111814268	3.46E-02
ENSG00000061936	SFSWAP	2406.356311	-0.067544975	3.46E-02

ENSG00000169490	TM2D2	567.2563664	0.20113277	3.47E-02
ENSG00000266904	LINC00663	105.4006166	0.186582561	3.47E-02
ENSG00000204599	TRIM39	494.0224838	0.114363632	3.47E-02
ENSG00000131379	C3orf20	81.11816673	-0.203428465	3.47E-02
ENSG00000130695	CEP85	548.2364379	0.10677339	3.47E-02
ENSG00000218596		103.5637124	-0.278270803	3.48E-02
ENSG00000243659		53.53263281	-0.239561441	3.48E-02
ENSG00000186594	MIR22HG	1083.268497	-0.249481465	3.48E-02
ENSG00000005513	SOX8	61.21505998	-0.280612909	3.48E-02
ENSG00000111885	MAN1A1	2378.351357	-0.231461901	3.48E-02
ENSG00000176225	RTTN	1003.232248	0.115169634	3.49E-02
ENSG00000241685	ARPC1A	252.3392396	0.163096572	3.49E-02
ENSG00000221916	C19orf73	13.81665035	0.459285554	3.49E-02
ENSG00000211883	TRAJ6	137.4382999	0.277573121	3.50E-02
ENSG00000248508	SRP14-DT	176.0273693	0.183715742	3.50E-02
ENSG00000272716	SLC30A6-DT	16.95929905	-0.424208279	3.51E-02
ENSG00000169432	SCN9A	28.7509039	-0.553057552	3.51E-02
ENSG00000214309	MBLAC1	48.69196156	-0.250722037	3.52E-02
ENSG00000161551	ZNF577	413.5125607	0.119555422	3.52E-02
ENSG00000241547	ACTG1P20	79.28261937	-0.194204811	3.52E-02
ENSG00000162385	MAGOH	420.0655934	0.147501486	3.52E-02
ENSG00000235568	NFAM1	6463.545314	-0.428696645	3.52E-02
ENSG00000158113	LRRC43	25.85736858	-0.406821132	3.53E-02
ENSG00000091436	MAP3K20	906.2584007	0.50837559	3.53E-02
ENSG00000243708	PLA2G4B	50.79088546	0.282864044	3.53E-02
ENSG00000123810	B9D2	270.5285067	-0.179575552	3.53E-02
ENSG00000082996	RNF13	4422.808547	0.216369272	3.53E-02
ENSG00000151612	ZNF827	944.9278992	0.174327348	3.54E-02
ENSG00000254528	FXYP6-AS1	15.77533273	0.681771388	3.56E-02
ENSG00000100292	HMOX1	2215.797111	0.357012881	3.56E-02
ENSG00000145476	CYP4V2	965.4328432	-0.102558157	3.57E-02
ENSG00000189190	ZNF600	724.1083072	0.144234046	3.58E-02
ENSG00000267587		53.0381659	-0.228078457	3.58E-02
ENSG00000165702	GFI1B	244.2446381	-0.386963197	3.58E-02
ENSG00000112511	PHF1	2538.377785	0.141935199	3.58E-02
ENSG00000115241	PPM1G	1106.306265	0.133061765	3.59E-02
ENSG00000279110		11.3384446	0.878234906	3.59E-02
ENSG00000151413	NUBPL	190.8185316	-0.173036066	3.59E-02
ENSG00000204271	SPIN3	319.4945398	-0.202300132	3.59E-02
ENSG00000211856	TRAJ33	158.6360873	0.26500389	3.59E-02
ENSG00000109685	NSD2	1822.694348	-0.084864295	3.60E-02
ENSG00000135956	TMEM127	5154.284605	-0.194126797	3.60E-02
ENSG00000100711	ZFYVE21	252.3867906	-0.132580442	3.61E-02
ENSG00000249855	EEF1A1P19	43.49460022	0.319071009	3.62E-02
ENSG00000096063	SRPK1	1984.152028	0.220557433	3.62E-02
ENSG00000223749	MIR503HG	12.49717413	-0.557481043	3.62E-02
ENSG00000182107	TMEM30B	70.69670076	-0.306220124	3.62E-02
ENSG00000175826	CTDNBP1	1823.979502	-0.107745355	3.62E-02
ENSG00000108599	AKAP10	1783.379704	-0.095252244	3.62E-02
ENSG00000151665	PIGF	423.3409858	0.138482766	3.63E-02
ENSG00000104219	ZDHHC2	1921.031032	-0.13274096	3.63E-02

ENSG00000138735	PDE5A	267.0612755	-0.408154279	3.64E-02
ENSG00000263956	NBPF11	781.1064147	-0.098066003	3.65E-02
ENSG00000105708	ZNF14	643.9254161	-0.160815708	3.66E-02
ENSG00000167191	GPRC5B	7.918522659	-1.071812045	3.66E-02
ENSG00000147669	POLR2K	437.4903107	0.166805793	3.66E-02
ENSG00000119328	ABITRAM	212.2660102	-0.168257618	3.66E-02
ENSG00000173210	ABLM13	69.30008197	-0.618574921	3.66E-02
ENSG00000109099	PMP22	115.8434922	-0.509857845	3.67E-02
ENSG00000227376	FTH1P16	62.10512783	0.196597054	3.68E-02
ENSG00000283633		31.29724598	-0.454722786	3.68E-02
ENSG00000246273	SBF2-AS1	105.8220799	0.205083356	3.69E-02
ENSG00000006638	TBXA2R	122.5726743	0.278073767	3.69E-02
ENSG00000107957	SH3PXD2A	947.1340371	0.17130586	3.69E-02
ENSG00000026950	BTN3A1	6396.469474	-0.147258757	3.69E-02
ENSG00000113712	CSNK1A1	4169.279899	0.08130843	3.70E-02
ENSG00000073969	NSF	736.3861081	0.110612174	3.70E-02
ENSG00000111676	ATN1	690.529571	-0.144597212	3.71E-02
ENSG00000134901	POGLUT2	17.56478832	0.451312921	3.72E-02
ENSG00000104812	GYS1	902.706311	-0.102679342	3.72E-02
ENSG00000072422	RHOBTB1	93.4672595	-0.538238237	3.72E-02
ENSG00000182512	GLRX5	820.9170418	-0.374784676	3.73E-02
ENSG00000267383		24.13222228	0.301529247	3.73E-02
ENSG00000173545	ZNF622	868.907839	0.11707713	3.73E-02
ENSG00000174943	KCTD13	902.4674493	0.133618269	3.73E-02
ENSG00000278873		33.33656575	-0.296380995	3.73E-02
ENSG00000092201	SUPT16H	2057.213658	0.102428116	3.74E-02
ENSG00000139112	GABARAPL1	2660.720652	-0.181560003	3.75E-02
ENSG00000236194		358.6026468	-0.252502739	3.75E-02
ENSG00000268047		28.02045825	-0.369244433	3.75E-02
ENSG00000236438	FAM157A	598.2235616	-0.565566128	3.75E-02
ENSG00000236358		18.85606369	0.461134473	3.76E-02
ENSG00000281912	LINC01144	23.94259833	0.322595996	3.77E-02
ENSG00000166478	ZNF143	1039.873607	-0.109602675	3.78E-02
ENSG00000211868	TRAJ21	177.6849779	0.296807779	3.78E-02
ENSG00000137992	DBT	645.0200116	0.104921238	3.80E-02
ENSG00000120659	TNFSF11	18.81632277	0.422520062	3.81E-02
ENSG00000240671	IGKV1-8	14.75339185	-0.568669462	3.81E-02
ENSG00000149761	NUDT22	739.6449853	-0.139789598	3.82E-02
ENSG00000046651	OFD1	2144.96639	0.067977143	3.82E-02
ENSG00000166352	IFTAP	28.58832403	-0.444040497	3.82E-02
ENSG00000232536		15.45918585	-0.468770811	3.82E-02
ENSG00000136146	MED4	928.7713723	-0.101710889	3.82E-02
ENSG00000088387	DOCK9	2381.319629	0.140925186	3.82E-02
ENSG00000238227	TMEM250	1054.956732	0.155402278	3.83E-02
ENSG00000236778	INTS6-AS1	285.0743188	0.178241522	3.83E-02
ENSG00000188070	ZFTA	219.587614	-0.143965619	3.83E-02
ENSG00000263597	MIR3936	18.33867319	-0.363283265	3.84E-02
ENSG00000180139	ACTA2-AS1	277.2691977	0.192390402	3.85E-02
ENSG00000147383	NSDHL	188.7279789	0.216946472	3.85E-02
ENSG00000157617	C2CD2	390.9642555	-0.12980202	3.86E-02
ENSG00000234444	ZNF736	1232.804852	-0.085740282	3.86E-02

ENSG00000278034	MIR6731	59.748597	-0.239490891	3.86E-02
ENSG00000182732	RGS6	51.64599335	-0.515028988	3.87E-02
ENSG00000176994	SMCR8	4326.893629	-0.130665303	3.87E-02
ENSG00000064726	BTBD1	1371.118632	-0.084613067	3.87E-02
ENSG00000226004	LINC02528	12.46632493	-0.970846464	3.88E-02
ENSG00000160563	MED27	438.0394182	0.106396864	3.88E-02
ENSG00000167004	PDIA3	3747.472267	0.186846817	3.88E-02
ENSG00000211873	TRAJ16	198.2906089	0.242664538	3.89E-02
ENSG00000168883	USP39	1118.027742	-0.065640977	3.90E-02
ENSG00000204934	ATP6V0E2-AS1	258.9682782	0.406083669	3.91E-02
ENSG00000106086	PLEKHA8	591.6713786	0.110650821	3.91E-02
ENSG00000065060	UHRF1BP1	873.1739171	-0.117358492	3.93E-02
ENSG00000258377		16.54091356	0.430523811	3.93E-02
ENSG00000267260		17.418966	0.341309102	3.93E-02
ENSG00000120647	CCDC77	205.8150769	0.13785692	3.94E-02
ENSG00000279821		208.3627116	0.507591467	3.94E-02
ENSG00000134852	CLOCK	822.0915702	-0.102846618	3.94E-02
ENSG00000110799	VWF	83.07633611	-0.529438106	3.94E-02
ENSG00000099783	HNRNPM	4246.869893	0.135472232	3.95E-02
ENSG00000136950	ARPC5L	686.4469656	-0.219262039	3.95E-02
ENSG00000116977	LGALS8	2787.885495	0.14217236	3.95E-02
ENSG00000245146	MALINC1	59.23758403	-0.228229056	3.95E-02
ENSG00000252376	RNA5SP395	24.84877236	0.354976076	3.95E-02
ENSG00000124098	FAM210B	2756.931015	-0.407223825	3.96E-02
ENSG00000162065	TBC1D24	298.5236391	-0.138686055	3.96E-02
ENSG00000175182	FAM131A	610.2076435	0.154664336	3.96E-02
ENSG00000206601	RNU6-431P	16.70878975	0.367303293	3.96E-02
ENSG00000213463	SYNJ2BP	607.6177768	0.118834756	3.96E-02
ENSG00000237576	LINC01888	56.59739213	0.37435877	3.97E-02
ENSG00000260828	HMGB3P32	19.50674405	-0.451690446	3.97E-02
ENSG00000140876	NUDT7	62.42206748	0.207013397	3.98E-02
ENSG00000243066	RN7SL842P	13.44276843	0.536576338	3.98E-02
ENSG00000154079	SDHAF4	107.9483053	-0.202161226	3.98E-02
ENSG00000156381	ANKRD9	361.1382902	-0.309747215	3.98E-02
ENSG00000069188	SDK2	509.8694283	-0.243041891	3.98E-02
ENSG00000212127	TAS2R14	81.15846772	-0.216211485	3.99E-02
ENSG00000085999	RAD54L	18.37777767	-0.447520497	3.99E-02
ENSG00000170860	LSM3	474.8269784	-0.146437981	3.99E-02
ENSG00000096006	CRISP3	87.8721228	-0.539207926	3.99E-02
ENSG00000123106	CCDC91	1594.983176	-0.128442296	3.99E-02
ENSG00000129292	PHF20L1	4402.653533	0.152563487	4.01E-02
ENSG00000187116	LILRA5	2183.41288	-0.433120144	4.01E-02
ENSG00000280022		12.57939296	0.496988522	4.01E-02
ENSG00000144036	EXOC6B	614.1744813	-0.084703155	4.01E-02
ENSG00000108961	RANGRF	263.5060093	-0.175736311	4.02E-02
ENSG00000274979		103.990547	0.298294406	4.02E-02
ENSG00000204070	SYS1	1301.937722	-0.089162894	4.03E-02
ENSG00000143793	C1orf35	266.4530451	-0.150306271	4.03E-02
ENSG00000254783		74.28413539	0.199397986	4.03E-02
ENSG00000114796	KLHL24	3342.447516	-0.111114025	4.03E-02
ENSG00000172493	AFF1	4977.176861	-0.190410848	4.04E-02

ENSG00000274515		19.83704046	0.432980776	4.05E-02
ENSG00000117862	TXNDC12	1416.175278	0.147177401	4.05E-02
ENSG00000272800		20.41934004	0.342852737	4.05E-02
ENSG00000233223		92.72136937	0.197114275	4.06E-02
ENSG00000138231	DBR1	464.1140872	0.116686843	4.06E-02
ENSG00000169224	GCSAML	171.6094113	0.254793413	4.07E-02
ENSG00000069345	DNAJA2	1773.750956	-0.126697747	4.07E-02
ENSG00000256019	TAS2R63P	22.43956699	-0.398858714	4.07E-02
ENSG00000267254	ZNF790-AS1	81.09234662	0.178171071	4.08E-02
ENSG00000163798	SLC4A1AP	667.9381584	-0.089526072	4.08E-02
ENSG00000197912	SPG7	2370.40796	-0.105140356	4.08E-02
ENSG00000266680		21.072132	-0.490290227	4.09E-02
ENSG00000123178	SPRYD7	106.2631186	-0.170535923	4.09E-02
ENSG00000235629	LINC02922	34.85407406	0.332692835	4.09E-02
ENSG00000279162		99.68608593	-0.240515367	4.11E-02
ENSG00000231362		14.57814269	-0.410526584	4.11E-02
ENSG00000170037	CNTROB	567.2324756	0.111924198	4.12E-02
ENSG00000146535	GNA12	2332.862442	0.282027854	4.13E-02
ENSG00000104884	ERCC2	318.8487838	-0.129766856	4.13E-02
ENSG00000204177	BMS1P1	240.1711394	-0.251775224	4.13E-02
ENSG00000100450	GZMH	1031.966175	-0.291492907	4.13E-02
ENSG00000201501		26.56312139	-0.390569659	4.13E-02
ENSG00000215045	GRID2IP	48.86964108	-0.285701487	4.14E-02
ENSG00000242265	PEG10	84.12505008	-0.332578785	4.14E-02
ENSG00000283057		30.98643741	-0.379255792	4.14E-02
ENSG00000229023	RAB1AP1	164.2886234	0.447509743	4.14E-02
ENSG00000140280	LYSMD2	985.696732	0.317166144	4.14E-02
ENSG00000188938	FAM120AOS	955.1688261	-0.098064644	4.14E-02
ENSG00000257093	DENND11	3550.765578	-0.114423256	4.15E-02
ENSG00000228903	RASA4CP	360.4619566	-0.1592318	4.16E-02
ENSG00000114450	GNB4	1527.927695	-0.242171091	4.16E-02
ENSG00000141030	COPS3	826.0187495	-0.12451701	4.16E-02
ENSG00000256582	LINC02390	153.9422327	-0.210495589	4.16E-02
ENSG00000124491	F13A1	1317.341104	-0.534555574	4.17E-02
ENSG00000274307		151.4352052	0.187329315	4.17E-02
ENSG00000130177	CDC16	1348.801623	0.071634146	4.17E-02
ENSG00000198919	DZIP3	663.4778181	-0.156162654	4.18E-02
ENSG00000154874	CCDC144B	715.6847909	-0.102415102	4.18E-02
ENSG00000276547	PCDHGB5	25.87983707	0.30342468	4.18E-02
ENSG00000259924		231.7961609	0.34036279	4.19E-02
ENSG00000211881	TRAJ8	122.5961847	0.291537937	4.19E-02
ENSG00000137218	FRS3	175.4947035	-0.179575382	4.19E-02
ENSG00000175048	ZDHHC14	315.155719	0.139079218	4.19E-02
ENSG00000243544	RN7SL172P	122.0322582	0.254366632	4.19E-02
ENSG00000205309	NT5M	116.2295104	-0.420030475	4.20E-02
ENSG00000188906	LRRK2	13360.54467	-0.439338743	4.20E-02
ENSG00000056050	HPF1	165.8164206	0.171997277	4.20E-02
ENSG00000108924	HLF	48.79305045	-0.296583941	4.21E-02
ENSG00000280213	UCKL1-AS1	148.1265017	-0.319356668	4.21E-02
ENSG00000100225	FBXO7	8889.829584	-0.358162592	4.21E-02
ENSG00000205181	LINC00654	112.4713804	-0.316078741	4.22E-02

ENSG00000186020	ZNF529	672.7295024	0.096048116	4.22E-02
ENSG00000090273	NUDC	642.3990595	0.1509893	4.22E-02
ENSG00000119673	ACOT2	162.8869702	-0.22009184	4.23E-02
ENSG00000158427	TMSB15B	41.07013238	-0.289871162	4.24E-02
ENSG00000205659	LIN52	248.1372296	0.114679026	4.25E-02
ENSG00000213123	DYNLT2B	28.71107516	0.32997308	4.25E-02
ENSG00000142959	BEST4	32.62316283	0.270475603	4.25E-02
ENSG00000211865	TRAJ24	143.95136	0.266332624	4.25E-02
ENSG00000136279	DBNL	10246.67589	-0.139021415	4.26E-02
ENSG00000163738	MTHFD2L	374.4510845	0.122847275	4.26E-02
ENSG00000173262	SLC2A14	14.25430972	-0.595705685	4.26E-02
ENSG00000247708	STX18-AS1	149.5074122	-0.209690957	4.26E-02
ENSG00000230483		33.39769357	-0.34329389	4.26E-02
ENSG00000169131	ZNF354A	407.7248334	0.150950062	4.26E-02
ENSG00000133627	ACTR3B	255.7325946	0.132307801	4.28E-02
ENSG00000160963	COL26A1	7.994503954	-0.826917732	4.29E-02
ENSG00000154165	GPR15	128.0329469	0.193993521	4.29E-02
ENSG00000196659	TTC30B	85.34088543	0.210595058	4.29E-02
ENSG00000083535	PIBF1	889.9647443	0.095232848	4.29E-02
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ENSG00000264278	ZNF236-DT	94.10862754	-0.171340479	4.30E-02
ENSG00000081177	EXD2	271.5288977	0.133192131	4.31E-02
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ENSG00000260549	MT1L	11.4311838	-0.758234648	4.32E-02
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ENSG00000137098	SPAG8	47.55967348	-0.265391487	4.33E-02
ENSG00000274618	H4C6	1784.923117	-0.272212749	4.33E-02
ENSG00000172456	FGGY	497.307125	0.181252797	4.33E-02
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ENSG00000132964	CDK8	462.9821467	0.112697933	4.34E-02
ENSG00000267322	SNHG22	303.9386478	0.235559644	4.34E-02
ENSG00000110921	MVK	276.833974	0.165757524	4.34E-02
ENSG00000247950	SEC24B-AS1	49.00486988	0.231766828	4.35E-02
ENSG00000135423	GLS2	55.33551095	-0.226393242	4.35E-02
ENSG00000260943	LINC02555	79.90398159	0.752610993	4.35E-02
ENSG00000264070	DND1P1	98.82459109	0.262423949	4.36E-02
ENSG00000263843	MIF4GD-DT	149.285756	0.187283845	4.36E-02
ENSG00000177485	ZBTB33	1170.013234	-0.13970491	4.37E-02
ENSG00000213420	GPC2	250.7171596	-0.345652726	4.37E-02
ENSG00000066557	LRRC40	517.7756395	-0.142577534	4.37E-02
ENSG00000250995	TMEM30BP1	60.47872622	-0.41597164	4.37E-02
ENSG00000277130		119.7126518	-0.214561238	4.37E-02
ENSG00000119048	UBE2B	3078.219775	0.169166025	4.38E-02
ENSG00000014824	SLC30A9	1349.297126	0.074442441	4.38E-02
ENSG00000259225	LINC02345	11.44642776	-0.702442972	4.38E-02
ENSG00000250490	LINC02145	15.48671667	-0.412947855	4.39E-02
ENSG00000268889	LIM2-AS1	40.92532282	-0.372470033	4.39E-02
ENSG00000197302	KRBOX5	751.7073117	-0.11020705	4.40E-02
ENSG00000229447		51.49755022	-0.192322648	4.42E-02

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ENSG00000211854	TRAJ35	83.50381437	0.278884486	4.43E-02
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ENSG00000143995	MEIS1	91.45317379	-0.358823783	4.44E-02
ENSG00000172831	CES2	1116.116658	0.113248861	4.45E-02
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ENSG00000115282	TTC31	714.1639769	-0.089982712	4.45E-02
ENSG00000231389	HLA-DPA1	4601.828746	-0.19724249	4.46E-02
ENSG00000148688	RPP30	481.852848	-0.120012593	4.47E-02
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ENSG00000111644	ACRBP	269.5641038	-0.294401433	4.48E-02
ENSG00000204217	BMPR2	1652.571738	-0.141814979	4.48E-02
ENSG00000135723	FHOD1	1822.712029	-0.401408277	4.48E-02
ENSG00000010810	FYN	11439.83014	0.198040973	4.50E-02
ENSG00000163877	SNIP1	753.218655	-0.131026942	4.50E-02
ENSG00000137267	TUBB2A	385.7240796	-0.514851103	4.50E-02
ENSG00000109743	BST1	1105.952664	-0.386447423	4.51E-02
ENSG00000248791		50.48512422	0.376301071	4.52E-02
ENSG00000248593	DSTNP2	64.9832869	-0.205268152	4.54E-02
ENSG00000161513	FDXR	123.423353	-0.225869491	4.54E-02
ENSG00000257108	NHLRC4	61.2189764	-0.241792476	4.54E-02
ENSG00000168397	ATG4B	1696.893792	-0.109749899	4.55E-02
ENSG00000165300	SLITRK5	29.86351421	-0.36335669	4.55E-02
ENSG00000251934	RNU6-1143P	19.85711233	0.321576401	4.56E-02
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ENSG00000139323	POC1B	1068.322458	-0.174698244	4.56E-02
ENSG00000211862	TRAJ27	169.0202954	0.279844313	4.58E-02
ENSG00000279164		51.83863678	-0.490470201	4.58E-02
ENSG00000186481	ANKRD20A5P	171.9300924	-0.17460098	4.59E-02
ENSG00000211888	TRAJ1	118.807307	0.28012376	4.59E-02
ENSG00000266900		89.26800124	-0.192282442	4.59E-02
ENSG00000166189	HPS6	815.8962591	-0.120762043	4.59E-02
ENSG00000141569	TRIM65	635.54987	0.10774928	4.60E-02
ENSG00000235304	LINC01281	63.9955537	0.542434857	4.60E-02
ENSG00000141294	LRRC46	19.0575415	0.351245511	4.61E-02
ENSG00000238719	RNU7-96P	21.8710425	-0.317715944	4.62E-02
ENSG00000272092		42.55594665	0.302931421	4.63E-02
ENSG00000186635	ARAP1	17388.36127	0.218261517	4.63E-02
ENSG00000166747	AP1G1	3642.192133	-0.115564953	4.64E-02
ENSG00000280798	LINC00294	370.0626259	0.177344689	4.64E-02
ENSG00000211850	TRAJ39	102.1974681	0.26753938	4.64E-02
ENSG00000217258		15.93357169	0.365878723	4.65E-02
ENSG00000254484		27.64074725	0.341135098	4.65E-02
ENSG00000278740		93.65562804	0.195803029	4.66E-02
ENSG00000246731		73.30587371	0.313574128	4.66E-02
ENSG00000205784	ARRDC5	485.1820045	-0.150672359	4.66E-02
ENSG00000206560	ANKRD28	1486.509077	-0.151376866	4.67E-02
ENSG00000228623	ZNF883	34.30617616	0.265957987	4.68E-02
ENSG00000177463	NR2C2	3395.008506	-0.087215236	4.68E-02
ENSG00000257556	LINC02298	25.93799318	0.3416206	4.68E-02

ENSG00000140279	DUOX2	15.86358245	0.600476598	4.68E-02
ENSG00000128641	MYO1B	49.03520332	-0.490825588	4.69E-02
ENSG00000239839	DEFA3	1141.85341	0.375390656	4.69E-02
ENSG00000188996	HUS1B	39.75709006	-0.269042757	4.70E-02
ENSG00000198920	KIAA0753	551.9405397	-0.142430116	4.70E-02
ENSG00000228878	SEPTIN7-DT	76.72222335	-0.214863546	4.70E-02
ENSG00000080166	DCT	14.73522427	-0.566992419	4.71E-02
ENSG00000198146	ZNF770	1581.018933	0.091212336	4.71E-02
ENSG00000166266	CUL5	1244.954807	0.08628447	4.71E-02
ENSG00000207425		42.9344757	-0.224487599	4.71E-02
ENSG00000173812	EIF1	13626.2015	-0.186044114	4.72E-02
ENSG00000105245	NUMBL	251.9790231	-0.150472638	4.72E-02
ENSG00000256312		16.63018449	-0.343084182	4.72E-02
ENSG00000106546	AHR	2260.120526	-0.227472327	4.72E-02
ENSG00000251287	ALG1L2	29.28273061	-0.316454888	4.72E-02
ENSG00000116260	QSOX1	2657.881758	0.260907724	4.72E-02
ENSG00000008311	AASS	107.0885543	-0.173488077	4.74E-02
ENSG00000250565	ATP6V1E2	188.3316855	0.17837526	4.75E-02
ENSG00000112599	GUCA1B	63.92444479	-0.23308249	4.75E-02
ENSG00000279953		16.5920331	0.426028038	4.75E-02
ENSG00000204262	COL5A2	21.91130323	-0.359171828	4.76E-02
ENSG00000171121	KCNMB3	59.94259679	-0.200720238	4.76E-02
ENSG00000276718		80.61681278	0.258902572	4.76E-02
ENSG00000177885	GRB2	7668.080109	0.161694804	4.76E-02
ENSG00000151650	VENTX	172.4688487	-0.350026386	4.77E-02
ENSG00000280384		50.85884282	-0.237041623	4.77E-02
ENSG00000263916		65.67471063	-0.196593726	4.79E-02
ENSG00000185499	MUC1	14.78434276	-0.690432852	4.80E-02
ENSG00000243960		39.31064777	-0.296604208	4.80E-02
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ENSG00000143977	SNRPG	642.6569282	0.13242606	4.81E-02
ENSG00000065534	MYLK	97.00204102	-0.540851401	4.81E-02
ENSG00000106772	PRUNE2	37.06061899	-0.641642532	4.82E-02
ENSG00000129055	ANAPC13	569.9628563	-0.128903014	4.82E-02
ENSG00000087266	SH3BP2	7315.478333	-0.21096902	4.83E-02
ENSG00000180953	ST20	555.9160701	0.405650169	4.83E-02
ENSG00000222858	RNU6-920P	45.83488615	-0.303247399	4.83E-02
ENSG00000148200	NR6A1	267.5617454	-0.355488666	4.84E-02
ENSG00000260231	KDM7A-DT	370.4009694	-0.249762878	4.84E-02
ENSG00000135535	CD164	8025.765798	0.11909128	4.85E-02
ENSG00000166848	TERF2IP	2573.637926	0.138568217	4.85E-02
ENSG00000274997	H2AC12	242.2661527	-0.38516128	4.85E-02
ENSG00000099204	ABLIM1	7409.310789	0.229737404	4.86E-02
ENSG00000188177	ZC3H6	1396.237701	-0.108969438	4.86E-02
ENSG00000253653		18.13590174	0.389890608	4.87E-02
ENSG00000188659	SAXO2	62.59613901	-0.261146932	4.87E-02
ENSG00000173578	XCR1	24.03869721	-0.75485675	4.88E-02
ENSG00000104221	BRF2	352.572579	-0.118603662	4.89E-02
ENSG00000120662	MTRF1	485.730904	-0.108823825	4.89E-02
ENSG00000242622	GSK3B-DT	153.3153775	0.176995511	4.90E-02
ENSG00000128607	KLHDC10	798.0122721	-0.074127615	4.91E-02

ENSG00000237399	PITRM1-AS1	41.97170953	0.271659147	4.91E-02
ENSG00000255647		16.52186453	0.325426724	4.91E-02
ENSG00000197272	IL27	22.82341103	0.639390701	4.93E-02
ENSG00000127314	RAP1B	5942.998854	0.12943347	4.95E-02
ENSG00000237637	FRY-AS1	23.2108772	-0.351901809	4.96E-02
ENSG00000070269	TMEM260	1127.959927	0.109788805	4.96E-02
ENSG00000277425		17.20082523	-0.372665468	4.96E-02
ENSG00000204390	HSPA1L	143.6565381	-0.176929865	4.96E-02
ENSG00000163161	ERCC3	1128.981815	-0.066277133	4.96E-02
ENSG00000154451	GBP5	10739.2955	-0.569813016	4.96E-02
ENSG00000266805		46.12258284	0.471191593	4.96E-02
ENSG00000115594	IL1R1	1486.312354	0.625941277	4.97E-02
ENSG00000271270	TMCC1-DT	50.46978975	0.437591284	4.97E-02
ENSG00000261094		101.9366963	0.185617603	4.98E-02
ENSG00000170959	DCDC1	14.5859277	-0.488616229	4.98E-02
ENSG00000112659	CUL9	1804.126133	-0.105453759	4.99E-02
ENSG00000007168	PAFAH1B1	4157.989963	0.096491989	5.00E-02
ENSG00000054356	PTPRN	15.76042888	-0.718239916	5.00E-02
ENSG00000168000	BSCL2	172.6954088	0.154483074	5.00E-02
ENSG00000133858	ZFC3H1	5151.027899	0.102286035	5.00E-02

Supplementary Table 4**Significantly differentially expressed genes (adjusted $p \leq 0.05$) identified in DESeq2 for the variable *Influenza***

Ensembl gene ID	Gene symbol	baseMean	log2FoldChange	adj. p
ENSG00000165949	IFI27	1928.25	6.02	3.33E-121
ENSG00000160932	LY6E	4292.38	2.43	2.93E-59
ENSG00000134321	RSAD2	5589.54	3.55	1.78E-54
ENSG00000133106	EPSTI1	2612.65	2.03	3.88E-54
ENSG00000088827	SIGLEC1	1193.92	3.78	3.83E-50
ENSG00000237649	KIFC1	55.40	1.43	7.41E-45
ENSG00000089127	OAS1	2728.18	2.39	2.68E-44
ENSG00000137965	IFI44	2605.46	2.67	3.24E-44
ENSG00000177294	FBXO39	88.21	2.20	9.89E-44
ENSG00000134326	CMPK2	1742.81	2.65	6.72E-43
ENSG00000225964	NRIR	124.28	2.47	2.15E-42
ENSG00000137959	IFI44L	5641.71	3.57	4.37E-42
ENSG00000126709	IFI6	4115.00	2.36	7.64E-42
ENSG00000136514	RTP4	418.94	1.69	1.42E-39
ENSG00000089685	BIRC5	41.50	1.90	1.06E-38
ENSG00000187608	ISG15	3730.64	2.66	1.17E-38
ENSG00000123485	HJURP	38.70	1.60	1.94E-38
ENSG00000111331	OAS3	8080.81	2.45	1.94E-38
ENSG00000278272		337.78	1.67	8.01E-37
ENSG00000171848	RRM2	124.31	1.85	2.50E-36
ENSG00000273983	H3C8	214.63	2.00	2.22E-35
ENSG00000176890	TYMS	71.53	1.74	2.22E-35
ENSG00000132530	XAF1	6707.25	1.90	2.84E-35
ENSG00000188290	HES4	961.32	2.11	4.68E-35
ENSG00000111335	OAS2	4954.94	1.76	8.58E-35
ENSG00000146670	CDCA5	41.66	1.40	1.09E-34
ENSG00000196141	SPATS2L	440.66	1.69	1.56E-33
ENSG00000142089	IFITM3	3389.48	2.05	1.92E-32
ENSG00000137628	DDX60	3280.27	1.51	3.18E-32
ENSG00000272512		523.53	2.31	1.46E-31
ENSG00000184979	USP18	270.91	2.54	1.99E-31
ENSG00000170312	CDK1	58.16	1.36	4.88E-31
ENSG00000141664	ZCCHC2	4219.23	0.90	2.08E-30
ENSG00000111206	FOXM1	52.06	1.32	2.17E-30
ENSG00000157601	MX1	8303.95	1.98	2.45E-30
ENSG00000280270		15.70	2.19	4.02E-30
ENSG00000274267		487.93	1.64	4.85E-30
ENSG00000185745	IFIT1	4582.51	2.77	7.37E-30
ENSG00000276368	H2AC14	340.38	1.60	1.22E-29
ENSG00000188313	PLSCR1	4203.92	1.35	1.22E-29
ENSG00000100129	EIF3L	2359.67	-0.39	7.17E-29
ENSG00000119917	IFIT3	7975.76	2.26	1.16E-28
ENSG00000185507	IRF7	3332.94	1.25	1.16E-28
ENSG00000132669	RIN2	1328.64	1.22	2.18E-28
ENSG00000130303	BST2	1580.78	0.95	3.42E-28
ENSG00000135114	OASL	2498.04	1.81	7.83E-28
ENSG00000130487	KLHDC7B	263.91	1.03	1.44E-27

ENSG00000115155	OTOF	97.98	2.82	7.28E-27
ENSG00000278463	H2AC4	156.42	1.26	3.75E-26
ENSG00000167513	CDT1	42.85	1.50	5.12E-26
ENSG00000138646	HERC5	2264.45	1.74	7.54E-26
ENSG00000130489		133.57	1.04	7.54E-26
ENSG00000152778	IFIT5	2574.33	1.20	4.54E-25
ENSG00000108771	DHX58	1318.12	1.12	1.14E-24
ENSG00000277775	H3C7	402.95	1.45	1.17E-24
ENSG00000173786	CNP	1592.73	0.64	1.37E-24
ENSG00000157456	CCNB2	41.70	1.26	1.93E-24
ENSG00000100220	RTCB	1096.23	0.42	2.65E-24
ENSG00000161888	SPC24	34.39	1.15	2.65E-24
ENSG00000197153	H3C12	228.17	1.31	6.69E-24
ENSG00000188157	AGRN	689.01	1.62	1.49E-23
ENSG00000273703	H2BC14	156.70	1.13	1.54E-23
ENSG00000068079	IFI35	1175.15	1.15	1.69E-23
ENSG00000184357	H1-5	962.42	1.10	1.78E-23
ENSG00000238015		24.92	2.24	2.33E-23
ENSG00000142945	KIF2C	53.72	1.15	3.06E-23
ENSG00000134809	TIMM10	302.75	1.05	4.60E-23
ENSG00000168078	PBK	8.08	1.94	6.46E-23
ENSG00000059378	PARP12	3440.11	0.87	1.50E-22
ENSG00000145386	CCNA2	77.25	1.12	2.29E-22
ENSG00000138642	HERC6	1389.23	1.38	2.90E-22
ENSG00000138180	CEP55	23.81	1.63	4.71E-22
ENSG00000124256	ZBP1	2332.30	0.96	1.37E-21
ENSG00000164054	SHISA5	4484.24	0.63	4.28E-21
ENSG00000132274	TRIM22	10182.40	0.94	8.28E-21
ENSG00000138496	PARP9	5529.78	1.07	1.39E-20
ENSG00000167900	TK1	51.48	1.31	1.48E-20
ENSG00000112984	KIF20A	16.72	1.73	1.51E-20
ENSG00000127564	PKMYT1	35.06	1.18	1.70E-20
ENSG00000154839	SKA1	24.32	1.29	1.79E-20
ENSG00000106785	TRIM14	2663.40	0.52	1.79E-20
ENSG00000122952	ZWINT	45.32	0.87	2.12E-20
ENSG00000137364	TPMT	454.78	0.49	3.64E-20
ENSG00000055332	EIF2AK2	4023.45	1.19	5.57E-20
ENSG00000163565	IFI16	5432.34	0.59	1.51E-19
ENSG00000140534	TICRR	25.59	1.25	1.51E-19
ENSG00000116663	FBXO6	372.83	0.94	1.60E-19
ENSG00000144843	ADPRH	381.82	0.59	2.16E-19
ENSG00000119922	IFIT2	8546.55	1.70	2.16E-19
ENSG00000255221	CARD17	160.20	1.45	2.48E-19
ENSG00000274641	H2BC17	177.26	1.00	3.53E-19
ENSG00000163823	CCR1	3903.53	1.02	4.77E-19
ENSG00000167658	EEF2	34335.02	-0.34	8.09E-19
ENSG00000110079	MS4A4A	395.83	1.30	8.52E-19
ENSG00000112343	TRIM38	5529.38	0.41	2.11E-18
ENSG00000171320	ESCO2	38.94	0.84	4.08E-18
ENSG00000132256	TRIM5	1127.57	0.75	4.39E-18
ENSG00000225434	LINC01504	57.63	0.65	5.79E-18
ENSG00000136573	BLK	1018.60	-0.40	6.60E-18

ENSG00000063046	EIF4B	14535.64	-0.34	8.08E-18
ENSG00000282851	BISPR	454.31	0.71	9.05E-18
ENSG00000206503	HLA-A	71298.07	0.36	1.17E-17
ENSG00000130589	HELZ2	7931.64	0.93	1.28E-17
ENSG00000269720	CCDC194	54.66	1.00	1.42E-17
ENSG00000002549	LAP3	2035.23	1.09	1.42E-17
ENSG00000173801	JUP	266.97	1.02	1.54E-17
ENSG00000178075	GRAMD1C	188.26	-0.81	1.61E-17
ENSG00000173821	RNF213	38189.95	0.66	1.66E-17
ENSG00000196116	TDRD7	1286.80	0.65	1.66E-17
ENSG00000274997	H2AC12	242.27	1.03	1.95E-17
ENSG00000093009	CDC45	17.29	1.47	2.08E-17
ENSG00000148773	MKI67	359.48	0.89	2.43E-17
ENSG00000279236		181.02	0.76	2.45E-17
ENSG00000156587	UBE2L6	3105.63	0.87	3.10E-17
ENSG00000121236	TRIM6	25.40	1.48	3.13E-17
ENSG00000075218	GTSE1	49.67	1.04	4.15E-17
ENSG00000177409	SAMD9L	6705.37	1.10	4.15E-17
ENSG00000198715	GLMP	653.83	0.58	4.80E-17
ENSG00000025708	TYMP	8837.11	0.71	7.52E-17
ENSG00000170581	STAT2	6244.89	0.75	8.56E-17
ENSG00000155363	MOV10	1950.81	0.73	1.36E-16
ENSG00000117399	CDC20	39.42	1.52	1.69E-16
ENSG00000205413	SAMD9	8860.67	0.82	3.06E-16
ENSG00000211659	IGLV3-25	95.57	1.12	3.28E-16
ENSG00000276410	H2BC3	108.29	1.08	3.41E-16
ENSG00000105202	FBL	2315.39	-0.35	3.43E-16
ENSG00000117650	NEK2	19.49	1.19	3.47E-16
ENSG00000168961	LGALS9	1958.90	0.69	4.69E-16
ENSG00000173369	C1QB	100.33	1.47	4.74E-16
ENSG00000175894	TSPEAR	14.20	-2.20	5.70E-16
ENSG00000114942	EEF1B2	6190.88	-0.43	6.89E-16
ENSG00000163512	AZI2	1354.30	0.43	1.01E-15
ENSG00000165891	E2F7	22.91	1.22	1.19E-15
ENSG00000177602	HASPIN	21.99	0.98	1.53E-15
ENSG00000177425	PAWR	338.92	-0.34	1.66E-15
ENSG00000134575	ACP2	746.03	0.52	1.69E-15
ENSG00000026950	BTN3A1	6396.47	0.35	2.19E-15
ENSG00000186185	KIF18B	40.84	1.11	2.19E-15
ENSG00000125148	MT2A	1758.64	1.14	2.49E-15
ENSG00000173193	PARP14	14566.84	0.92	2.98E-15
ENSG00000247317	LY6E-DT	71.77	1.11	3.46E-15
ENSG00000094804	CDC6	60.56	0.76	3.53E-15
ENSG00000129173	E2F8	17.41	1.22	3.75E-15
ENSG00000277511		46.05	1.15	4.41E-15
ENSG00000233785		32.29	1.21	5.00E-15
ENSG00000163840	DTX3L	4481.43	0.74	5.12E-15
ENSG00000156508	EEF1A1	213315.83	-0.30	5.15E-15
ENSG00000166803	PCLAF	21.61	1.04	5.50E-15
ENSG00000132357	CARD6	525.84	0.63	9.05E-15
ENSG00000276903	H2AC16	168.67	1.07	9.17E-15
ENSG00000136816	TOR1B	1487.78	0.74	9.46E-15

ENSG00000226738		14.37	1.70	9.72E-15
ENSG00000133216	EPHB2	179.24	1.44	9.73E-15
ENSG00000133112	TPT1	54781.99	-0.35	1.00E-14
ENSG00000140464	PML	3591.88	0.64	1.17E-14
ENSG00000124549	BTN2A3P	180.46	0.50	1.28E-14
ENSG00000115159	GPD2	938.81	0.44	1.74E-14
ENSG00000159189	C1QC	106.51	1.57	1.87E-14
ENSG00000223387	LINC02068	15.30	2.45	2.44E-14
ENSG00000149131	SERPING1	412.90	2.11	2.82E-14
ENSG00000177989	ODF3B	1164.72	0.99	3.46E-14
ENSG00000106605	BLVRA	482.84	0.75	4.25E-14
ENSG00000196550	FAM72A	34.64	0.88	5.37E-14
ENSG00000136147	PHF11	2020.04	0.46	5.37E-14
ENSG00000186818	LILRB4	1532.77	0.80	8.52E-14
ENSG00000167461	RAB8A	2875.92	0.35	8.97E-14
ENSG00000172123	SLFN12	403.96	0.42	8.97E-14
ENSG00000198133	TMEM229B	823.25	0.33	1.23E-13
ENSG00000132646	PCNA	532.34	0.40	1.46E-13
ENSG00000132205	EMILIN2	2829.06	0.45	1.53E-13
ENSG00000160710	ADAR	17791.10	0.46	1.70E-13
ENSG00000137200	CMTR1	2535.59	0.46	2.12E-13
ENSG00000143228	NUF2	52.38	0.62	2.29E-13
ENSG00000117228	GBP1	6393.82	1.29	2.35E-13
ENSG00000161057	PSMC2	1215.78	0.35	2.50E-13
ENSG00000130813	SHFL	1643.44	0.54	2.69E-13
ENSG00000185880	TRIM69	1870.23	0.67	2.79E-13
ENSG00000125355	TMEM255A	34.31	1.21	3.08E-13
ENSG00000111665	CDCA3	39.58	0.69	3.12E-13
ENSG00000182952	HMGN4	1444.39	0.25	3.74E-13
ENSG00000178685	PARP10	4468.73	0.58	3.74E-13
ENSG00000185885	IFITM1	4258.01	0.88	4.09E-13
ENSG00000004468	CD38	1050.74	0.55	4.17E-13
ENSG00000187642	PERM1	16.71	2.42	4.37E-13
ENSG00000146918	NCAPG2	258.75	0.31	5.60E-13
ENSG00000143891	GALM	762.01	0.54	6.05E-13
ENSG00000171241	SHCBP1	49.17	0.87	6.58E-13
ENSG00000133985	TTC9	648.23	-0.34	8.32E-13
ENSG00000184661	CDCA2	41.17	0.83	9.20E-13
ENSG00000104738	MCM4	295.51	0.39	9.81E-13
ENSG00000213928	IRF9	982.25	0.54	1.00E-12
ENSG00000275713	H2BC9	341.86	0.66	1.06E-12
ENSG00000258819	LINC02289	183.87	-1.95	1.19E-12
ENSG00000138035	PNPT1	909.59	0.78	1.22E-12
ENSG00000169679	BUB1	158.76	0.67	1.28E-12
ENSG00000255328		151.40	0.88	1.32E-12
ENSG00000160683	CXCR5	778.57	-0.33	1.34E-12
ENSG0000023171	GRAMD1B	893.39	0.43	1.34E-12
ENSG00000107201	DDX58	3507.85	0.85	1.38E-12
ENSG00000183486	MX2	9775.02	0.73	1.38E-12
ENSG00000129255	MPDU1	636.87	0.37	1.41E-12
ENSG00000112773	TENT5A	989.30	0.58	1.49E-12
ENSG00000131747	TOP2A	244.01	0.77	1.49E-12

ENSG00000162063	CCNF	161.87	0.49	1.89E-12
ENSG00000081052	COL4A4	98.06	-0.54	1.89E-12
ENSG00000133561	GIMAP6	4173.64	0.30	2.25E-12
ENSG00000171150	SOC55	677.55	-0.20	2.46E-12
ENSG00000086065	CHMP5	1475.47	0.57	2.66E-12
ENSG00000188610	FAM72B	24.57	0.75	2.82E-12
ENSG00000123130	ACOT9	1704.21	0.52	2.87E-12
ENSG00000175550	DRAP1	836.81	0.48	2.87E-12
ENSG00000135899	SP110	5690.81	0.41	3.24E-12
ENSG00000234745	HLA-B	90592.03	0.30	3.66E-12
ENSG00000111247	RAD51AP1	55.78	0.74	3.89E-12
ENSG00000274290	H2BC6	512.93	0.54	4.34E-12
ENSG00000163568	AIM2	392.17	0.75	4.55E-12
ENSG00000103154	NECAB2	55.11	-1.33	5.60E-12
ENSG00000172432	GTPBP2	2617.50	0.49	5.64E-12
ENSG00000164045	CDC25A	15.39	1.07	6.31E-12
ENSG00000023191	RNH1	2227.68	0.28	6.31E-12
ENSG00000164330	EBF1	357.57	-0.47	6.46E-12
ENSG00000137752	CASP1	3616.01	0.50	7.10E-12
ENSG00000051180	RAD51	23.98	0.75	7.10E-12
ENSG00000259529		234.56	0.60	7.10E-12
ENSG00000163872	YEATS2	1335.28	0.25	7.21E-12
ENSG00000211933	IGHV6-1	27.33	1.31	7.28E-12
ENSG00000115750	TAF1B	434.37	0.24	7.35E-12
ENSG00000115267	IFIH1	4395.35	0.96	7.87E-12
ENSG00000183049	CAMK1D	2051.02	-0.32	8.63E-12
ENSG00000152558	TMEM123	11927.46	0.48	1.02E-11
ENSG00000280007		81.09	1.03	1.41E-11
ENSG00000105369	CD79A	1731.87	-0.39	1.52E-11
ENSG00000109684	CLNK	26.03	-0.65	1.54E-11
ENSG00000165259	HDX	85.59	0.53	1.54E-11
ENSG00000067066	SP100	8607.46	0.39	1.64E-11
ENSG00000074964	ARHGEF10L	832.68	0.52	1.80E-11
ENSG00000270972		68.31	1.06	1.85E-11
ENSG00000100918	REC8	787.50	0.60	1.93E-11
ENSG00000068394	GPKOW	426.12	0.21	2.00E-11
ENSG00000181381	DDX60L	10271.14	0.78	2.07E-11
ENSG00000124688	MAD2L1BP	552.74	0.36	2.20E-11
ENSG00000168003	SLC3A2	3748.64	0.43	2.40E-11
ENSG00000111961	SASH1	432.85	0.80	2.47E-11
ENSG00000117632	STMN1	451.45	0.43	2.48E-11
ENSG00000135476	ESPL1	190.12	0.82	2.56E-11
ENSG00000108679	LGALS3BP	551.91	0.77	2.59E-11
ENSG00000123609	NMI	1725.38	0.48	2.59E-11
ENSG00000172426	RSPH9	17.49	1.17	2.70E-11
ENSG00000121858	TNFSF10	2342.61	0.98	2.75E-11
ENSG00000225611	CCDC13-AS2	47.70	-1.08	3.15E-11
ENSG00000108950	FAM20A	163.23	1.03	3.38E-11
ENSG00000167601	AXL	92.73	1.19	3.68E-11
ENSG00000173207	CKS1B	110.47	0.44	3.77E-11
ENSG00000162909	CAPN2	4062.08	0.34	4.73E-11
ENSG00000211592	IGKC	5143.52	0.76	4.93E-11

ENSG00000092853	CLSPN	75.31	0.60	5.03E-11
ENSG00000110042	DTX4	616.35	-0.60	5.15E-11
ENSG00000092098	RNF31	1010.32	0.30	6.26E-11
ENSG00000173372	C1QA	90.41	1.28	6.83E-11
ENSG00000185130	H2BC13	167.08	0.81	6.83E-11
ENSG00000088325	TPX2	113.08	0.73	7.46E-11
ENSG00000276180	H4C9	389.12	0.64	7.90E-11
ENSG00000003400	CASP10	1482.46	0.33	8.28E-11
ENSG00000233030		98.27	1.05	8.28E-11
ENSG00000076662	ICAM3	5076.90	-0.53	9.70E-11
ENSG00000130164	LDLR	713.99	0.57	1.09E-10
ENSG00000276043	UHRF1	61.77	0.80	1.10E-10
ENSG00000169031	COL4A3	96.13	-0.65	1.19E-10
ENSG00000159556	ISL2	48.14	-1.18	1.24E-10
ENSG00000168394	TAP1	10365.60	0.58	1.38E-10
ENSG00000141837	CACNA1A	34.90	0.87	1.45E-10
ENSG00000221963	APOL6	6651.82	0.70	1.52E-10
ENSG00000135535	CD164	8025.77	0.25	1.57E-10
ENSG00000135363	LMO2	814.56	0.61	1.67E-10
ENSG00000100908	EMC9	156.34	0.39	1.83E-10
ENSG00000135211	TMEM60	236.16	0.46	1.88E-10
ENSG00000203709	MIR29B2CHG	7231.88	-0.33	1.93E-10
ENSG00000055130	CUL1	1599.80	0.23	2.03E-10
ENSG00000165115	KIF27	345.46	-0.50	2.20E-10
ENSG00000131480	AOC2	240.50	-0.56	2.50E-10
ENSG00000138119	MYOF	677.28	0.82	2.52E-10
ENSG00000198087	CD2AP	1528.12	0.29	2.63E-10
ENSG00000159228	CBR1	253.20	0.54	2.74E-10
ENSG00000108798	ABI3	1178.46	0.31	2.80E-10
ENSG00000104972	LILRB1	2806.51	0.63	2.81E-10
ENSG00000122643	NT5C3A	1635.24	0.52	3.02E-10
ENSG00000132465	JCHAIN	2812.47	0.80	3.37E-10
ENSG00000106392	C1GALT1	1821.78	0.33	3.53E-10
ENSG00000177335	LINC02904	32.93	0.63	3.62E-10
ENSG00000231113	LINC02976	377.55	-0.33	3.69E-10
ENSG00000279330		280.85	-0.36	3.82E-10
ENSG00000166851	PLK1	123.41	0.60	3.92E-10
ENSG00000117226	GBP3	1684.56	0.61	3.98E-10
ENSG00000211892	IGHG4	116.88	0.94	4.03E-10
ENSG00000159176	CSRP1	1048.09	0.23	4.19E-10
ENSG00000099998	GGT5	62.26	-1.47	4.20E-10
ENSG00000197965	MPZL1	705.07	-0.74	4.51E-10
ENSG00000235621	LINC00494	83.46	-0.54	4.56E-10
ENSG00000042980	ADAM28	1492.78	-0.34	5.38E-10
ENSG00000124635	H2BC11	477.93	0.54	5.55E-10
ENSG00000196747	H2AC13	340.27	0.73	5.64E-10
ENSG00000163009		9.75	1.30	5.73E-10
ENSG00000165209	STRBP	904.12	-0.23	5.73E-10
ENSG00000164611	PTTG1	70.73	0.57	6.43E-10
ENSG00000168329	CX3CR1	877.08	0.92	6.66E-10
ENSG00000196083	IL1RAP	1651.38	-0.60	7.19E-10
ENSG00000079263	SP140	2811.37	0.40	7.40E-10

ENSG00000072864	NDE1	3061.99	-0.26	7.61E-10
ENSG00000151490	PTPRO	276.70	0.55	7.74E-10
ENSG00000139921	TMX1	1370.87	0.27	7.84E-10
ENSG00000103510	KAT8	1191.34	-0.25	7.91E-10
ENSG00000143374	TARS2	487.79	0.21	7.93E-10
ENSG00000109919	MTCH2	558.39	0.21	8.00E-10
ENSG00000122733	PHF24	32.43	-2.11	8.42E-10
ENSG00000266028	SRGAP2	1512.26	0.41	8.46E-10
ENSG00000165185	KIAA1958	420.20	0.46	9.15E-10
ENSG00000183598	H3C13	658.61	0.54	9.63E-10
ENSG00000104970	KIR3DX1	99.91	0.69	9.74E-10
ENSG00000172500	FIBP	517.33	0.23	9.79E-10
ENSG00000168062	BATF2	572.36	1.43	1.05E-09
ENSG00000174600	CMKLR1	434.52	0.62	1.07E-09
ENSG00000001036	FUCA2	430.72	0.33	1.07E-09
ENSG00000234127	TRIM26	1852.16	0.23	1.07E-09
ENSG00000145936	KCNMB1	85.87	0.61	1.10E-09
ENSG00000156738	MS4A1	2214.10	-0.39	1.13E-09
ENSG00000233369	GTF2IP4	670.02	-0.33	1.28E-09
ENSG00000100034	PPM1F	3716.61	-0.47	1.32E-09
ENSG00000204397	CARD16	1061.37	0.55	1.33E-09
ENSG00000133313	CNDP2	2874.88	0.29	1.33E-09
ENSG00000169715	MT1E	105.67	1.13	1.35E-09
ENSG00000160957	RECQL4	72.49	0.43	1.51E-09
ENSG00000110057	UNC93B1	1979.85	0.57	1.59E-09
ENSG00000173706	HEG1	1249.90	0.30	1.61E-09
ENSG00000278195	SSTR3	381.64	0.49	1.71E-09
ENSG00000267102		65.43	0.42	1.78E-09
ENSG00000008838	MED24	969.52	0.21	1.85E-09
ENSG00000179088	C12orf42	332.27	-0.34	2.01E-09
ENSG00000211677	IGLC2	1034.69	0.75	2.02E-09
ENSG00000116731	PRDM2	6372.41	-0.17	2.15E-09
ENSG00000085491	SLC25A24	1132.84	0.33	2.21E-09
ENSG00000004142	POLDIP2	950.16	0.20	2.23E-09
ENSG00000236901	MIR600HG	432.37	-0.30	2.30E-09
ENSG00000203880	PCMTD2	2423.70	-0.16	2.34E-09
ENSG00000106603	COA1	2128.13	-0.34	2.48E-09
ENSG00000211679	IGLC3	565.56	0.72	2.48E-09
ENSG00000119866	BCL11A	854.03	-0.28	2.53E-09
ENSG00000130066	SAT1	24596.26	0.64	2.53E-09
ENSG00000211662	IGLV3-21	146.24	1.02	2.67E-09
ENSG00000166987	MBD6	1930.39	-0.31	2.67E-09
ENSG00000197272	IL27	22.82	1.28	2.68E-09
ENSG00000113721	PDGFRB	76.74	0.65	2.97E-09
ENSG00000242265	PEG10	84.13	-0.63	3.01E-09
ENSG00000132694	ARHGEF11	1635.80	0.41	3.24E-09
ENSG00000130475	FCHO1	1420.96	-0.31	3.32E-09
ENSG00000277157	H4C4	786.14	0.54	3.49E-09
ENSG00000251546	IGKV1D-39	23.60	1.24	3.63E-09
ENSG00000128815	WDFY4	4031.04	-0.32	3.63E-09
ENSG00000213281	NRAS	1605.06	0.26	3.66E-09
ENSG00000076382	SPAG5	136.10	0.42	3.83E-09

ENSG00000187741	FANCA	575.64	0.47	3.89E-09
ENSG00000066279	ASPM	235.93	0.64	4.04E-09
ENSG00000224789		32.25	1.23	4.04E-09
ENSG00000120690	ELF1	7012.55	0.27	4.12E-09
ENSG00000242371	IGKV1-39	35.75	0.98	4.13E-09
ENSG00000139618	BRCA2	455.18	0.42	4.40E-09
ENSG00000254986	DPP3	446.15	0.23	4.42E-09
ENSG00000239855	IGKV1-6	27.78	0.94	4.42E-09
ENSG0000006062	MAP3K14	1712.45	-0.19	4.42E-09
ENSG00000234902		24.73	-0.74	4.42E-09
ENSG00000115415	STAT1	14996.62	0.77	4.48E-09
ENSG00000244437	IGKV3-15	178.18	0.67	4.59E-09
ENSG00000038210	PI4K2B	557.15	0.44	5.00E-09
ENSG00000012232	EXTL3	1425.76	-0.35	5.08E-09
ENSG00000180758	GPR157	601.75	-0.61	5.26E-09
ENSG00000072121	ZFYVE26	3103.62	0.36	5.39E-09
ENSG00000225492	GBP1P1	183.95	1.70	5.50E-09
ENSG00000262332		18.30	-1.61	5.70E-09
ENSG00000248810	LINC02432	79.74	0.63	5.77E-09
ENSG00000103018	CYB5B	859.27	0.21	5.88E-09
ENSG00000117010	ZNF684	108.01	0.56	5.88E-09
ENSG00000188848	BEND4	145.70	-0.38	6.10E-09
ENSG00000172936	MYD88	4409.67	0.39	6.44E-09
ENSG00000138670	RASGEF1B	3507.70	0.66	6.70E-09
ENSG00000010671	BTB	1305.62	0.24	6.81E-09
ENSG00000111224	PARP11	1028.12	0.32	6.84E-09
ENSG00000165527	ARF6	4647.99	0.25	7.57E-09
ENSG00000185722	ANKFY1	2744.24	0.31	7.77E-09
ENSG00000253364	COPDA1	30.26	-0.75	8.89E-09
ENSG00000272666	KLHDC7B-DT	64.23	0.76	9.70E-09
ENSG00000211653	IGLV1-40	140.86	0.92	9.92E-09
ENSG00000278588	H2BC10	367.83	0.62	9.98E-09
ENSG00000239951	IGKV3-20	353.55	0.76	9.98E-09
ENSG00000160216	AGPAT3	2546.46	0.18	1.00E-08
ENSG00000165806	CASP7	595.98	0.32	1.00E-08
ENSG00000116396	KCNC4	1252.37	-0.23	1.01E-08
ENSG00000118113	MMP8	253.42	0.78	1.01E-08
ENSG00000204516	MICB	584.98	0.34	1.08E-08
ENSG00000221955	SLC12A8	25.52	0.75	1.11E-08
ENSG00000100567	PSMA3	1199.98	0.28	1.16E-08
ENSG00000112312	GMNN	144.72	0.33	1.20E-08
ENSG00000223725		107.03	-0.46	1.21E-08
ENSG00000119686	FLVCR2	341.99	0.45	1.23E-08
ENSG00000061273	HDAC7	3628.33	-0.21	1.24E-08
ENSG00000211640	IGLV6-57	35.44	0.91	1.24E-08
ENSG00000243156	MICAL3	1341.44	-0.23	1.26E-08
ENSG00000166750	SLFN5	9389.40	0.36	1.28E-08
ENSG00000198785	GRIN3A	11.73	1.48	1.31E-08
ENSG00000126458	RRAS	209.06	0.60	1.43E-08
ENSG00000140525	FANCI	316.55	0.28	1.48E-08
ENSG00000211638	IGLV8-61	37.51	1.04	1.50E-08
ENSG00000188282	RUFY4	44.22	1.22	1.52E-08

ENSG00000123131	PRDX4	216.13	0.39	1.53E-08
ENSG00000164342	TLR3	58.21	0.54	1.53E-08
ENSG00000140443	IGF1R	3577.78	-0.39	1.56E-08
ENSG00000186283	TOR3A	740.64	0.27	1.63E-08
ENSG00000100911	PSME2	1971.73	0.49	1.75E-08
ENSG00000120725	SIL1	432.04	0.19	1.81E-08
ENSG00000048462	TNFRSF17	33.59	0.92	1.84E-08
ENSG00000154102	C16orf74	206.10	-0.38	1.93E-08
ENSG00000101843	PSMD10	614.44	0.29	1.93E-08
ENSG00000280248		190.09	0.60	1.96E-08
ENSG00000179051	RCC2	2930.86	0.26	1.99E-08
ENSG00000211598	IGKV4-1	213.78	0.81	2.04E-08
ENSG00000261659		103.72	-0.33	2.04E-08
ENSG00000111801	BTN3A3	2949.85	0.31	2.05E-08
ENSG00000128383	APOBEC3A	4045.90	0.81	2.07E-08
ENSG00000154188	ANGPT1	63.78	-1.03	2.10E-08
ENSG00000276566	IGKV1D-13	10.24	1.25	2.41E-08
ENSG00000162772	ATF3	803.46	0.89	2.42E-08
ENSG00000182718	ANXA2	5029.96	0.43	2.44E-08
ENSG00000112419	PHACTR2	1608.13	0.25	2.49E-08
ENSG00000162714	ZNF496	1297.34	0.33	2.49E-08
ENSG00000173825	TIGD3	86.72	-0.94	2.71E-08
ENSG00000161677	JOSD2	260.25	0.27	2.76E-08
ENSG00000185339	TCN2	173.60	1.03	2.92E-08
ENSG00000281005	LINC00921	945.04	-0.28	2.98E-08
ENSG00000182628	SKA2	211.95	0.31	2.98E-08
ENSG00000130702	LAMA5	155.39	-0.45	3.02E-08
ENSG00000279320		160.37	1.02	3.03E-08
ENSG00000142507	PSMB6	641.75	0.25	3.10E-08
ENSG00000258476	LINC02207	78.09	-1.29	3.15E-08
ENSG00000255987	TOMM20P2	314.68	0.46	3.16E-08
ENSG00000179915	NRXN1	24.51	-0.92	3.44E-08
ENSG00000204386	NEU1	1299.64	0.39	3.54E-08
ENSG00000131471	AOC3	120.64	-0.73	3.60E-08
ENSG00000206341	HLA-H	1551.27	0.29	3.61E-08
ENSG00000100979	PLTP	111.73	0.61	3.61E-08
ENSG00000185897	FFAR3	91.14	1.21	3.65E-08
ENSG00000186648	CARMIL3	73.93	0.63	3.67E-08
ENSG00000135525	MAP7	70.10	-0.55	3.74E-08
ENSG00000075702	WDR62	78.52	0.42	3.74E-08
ENSG00000170439	METTL7B	17.83	1.39	3.90E-08
ENSG00000153561	RMND5A	2778.07	-0.27	3.97E-08
ENSG00000138246	DNAJC13	2200.48	0.20	3.99E-08
ENSG00000231528	FAM225A	11.16	1.51	3.99E-08
ENSG00000261385		17.82	-0.67	3.99E-08
ENSG00000260563		207.20	-0.32	4.11E-08
ENSG00000196975	ANXA4	572.81	0.39	4.14E-08
ENSG00000245556	SCAMP1-AS1	217.76	0.34	4.28E-08
ENSG00000232472	EEF1B2P3	35.03	-0.48	4.42E-08
ENSG00000122966	CIT	99.63	0.47	4.50E-08
ENSG0000010256	UQCRC1	1701.70	0.21	4.54E-08
ENSG00000128604	IRF5	1360.05	0.43	4.65E-08

ENSG00000228526	MIR34AHG	44.57	0.87	4.66E-08
ENSG00000251513	LIX1-AS1	114.45	-0.44	4.68E-08
ENSG00000085999	RAD54L	18.38	0.76	4.68E-08
ENSG00000131355	ADGRE3	1950.45	-0.84	4.69E-08
ENSG00000149532	CPSF7	2961.84	-0.12	4.84E-08
ENSG00000123338	NCKAP1L	6465.48	0.18	4.89E-08
ENSG00000082438	COBLL1	508.09	-0.32	5.01E-08
ENSG00000117475	BLZF1	966.17	0.35	5.02E-08
ENSG00000148672	GLUD1	2640.74	0.16	5.48E-08
ENSG00000226004	LINC02528	12.47	1.52	5.48E-08
ENSG00000278133		260.67	-0.24	5.80E-08
ENSG00000101057	MYBL2	191.25	0.53	6.00E-08
ENSG00000226822	LINC02785	63.54	0.64	6.23E-08
ENSG00000100228	RAB36	40.88	-0.93	6.26E-08
ENSG00000175643	RMI2	91.79	0.69	6.41E-08
ENSG00000196205	EEF1A1P5	1055.10	-0.29	6.85E-08
ENSG00000112245	PTP4A1	2732.33	0.33	6.99E-08
ENSG00000267385		43.78	-0.87	7.35E-08
ENSG00000110955	ATP5F1B	4873.65	0.17	7.38E-08
ENSG00000136982	DSCC1	20.63	0.66	7.67E-08
ENSG00000126262	FFAR2	8785.66	0.90	7.84E-08
ENSG00000122986	HVCN1	1022.04	-0.34	7.90E-08
ENSG00000041357	PSMA4	1933.12	0.27	8.02E-08
ENSG00000211898	IGHD	867.87	-0.31	8.05E-08
ENSG00000229754	CXCR2P1	337.32	0.90	8.10E-08
ENSG00000198795	ZNF521	24.11	-0.56	8.10E-08
ENSG00000069188	SDK2	509.87	-0.41	8.19E-08
ENSG00000171314	PGAM1	1802.72	0.20	8.27E-08
ENSG00000240065	PSMB9	3054.19	0.37	8.38E-08
ENSG00000131652	THOC6	344.14	0.25	8.42E-08
ENSG00000142512	SIGLEC10	2992.06	-0.85	8.50E-08
ENSG00000196470	SIAH1	803.85	-0.26	8.73E-08
ENSG00000198728	LDB1	2106.91	-0.14	8.90E-08
ENSG00000100342	APOL1	884.03	0.56	9.10E-08
ENSG00000221978	CCNL2	4301.91	-0.12	9.10E-08
ENSG00000052795	FNIP2	2206.82	0.53	9.10E-08
ENSG00000137726	FXVD6	77.16	0.75	9.37E-08
ENSG00000267745		45.69	0.42	9.62E-08
ENSG00000162512	SDC3	293.01	1.01	9.68E-08
ENSG00000235066		9.70	1.85	9.71E-08
ENSG00000214456	PLIN5	442.58	-0.79	9.74E-08
ENSG00000166927	MS4A7	3877.21	0.66	1.05E-07
ENSG00000135148	TRAFFD1	2226.32	0.45	1.05E-07
ENSG00000171943	SRGAP2C	663.48	0.26	1.10E-07
ENSG00000261474		143.19	-0.27	1.14E-07
ENSG00000196123	KIAA0895L	190.22	0.38	1.18E-07
ENSG00000214548	MEG3	41.15	-0.92	1.18E-07
ENSG00000116237	ICMT	654.17	0.20	1.19E-07
ENSG00000108100	CCNY	2522.40	-0.26	1.27E-07
ENSG00000116133	DHCR24	159.36	0.40	1.27E-07
ENSG00000211896	IGHG1	1498.67	0.90	1.28E-07
ENSG00000100263	RHBDD3	307.93	0.26	1.28E-07

ENSG00000108439	PNPO	337.68	0.25	1.30E-07
ENSG00000223960	CHROMR	282.13	0.30	1.31E-07
ENSG00000196787	H2AC11	985.90	0.47	1.31E-07
ENSG00000186470	BTN3A2	5627.84	0.24	1.32E-07
ENSG00000042493	CAPG	2126.36	0.42	1.33E-07
ENSG00000226751		10.31	1.08	1.33E-07
ENSG00000196230	TUBB	4697.23	0.22	1.33E-07
ENSG00000068489	PRR11	93.51	0.52	1.39E-07
ENSG00000266651		25.95	-1.00	1.41E-07
ENSG00000111237	VPS29	1379.93	0.19	1.44E-07
ENSG00000107175	CREB3	573.75	0.27	1.51E-07
ENSG00000196683	TOMM7	1238.56	-0.33	1.51E-07
ENSG00000185651	UBE2L3	1614.48	0.17	1.53E-07
ENSG00000268903		255.55	-0.87	1.55E-07
ENSG00000142731	PLK4	79.00	0.39	1.56E-07
ENSG00000147443	DOK2	1950.78	0.30	1.58E-07
ENSG00000114650	SCAP	1952.89	-0.24	1.59E-07
ENSG00000178999	AURKB	44.19	0.64	1.60E-07
ENSG00000130816	DNMT1	2526.81	0.17	1.62E-07
ENSG00000161513	FDXR	123.42	0.37	1.62E-07
ENSG00000211673	IGLV3-1	99.38	0.76	1.62E-07
ENSG00000067082	KLF6	11297.54	0.28	1.63E-07
ENSG00000179044	EXOC3L1	62.68	1.22	1.64E-07
ENSG00000090661	CERS4	655.33	-0.24	1.68E-07
ENSG00000223336	RNU2-6P	79.45	-0.68	1.68E-07
ENSG00000257702	LBX2-AS1	115.82	0.40	1.69E-07
ENSG00000153207	AHCTF1	3485.68	-0.26	1.71E-07
ENSG00000205302	SNX2	1981.14	0.23	1.73E-07
ENSG00000167261	DPEP2	3159.86	-0.42	1.76E-07
ENSG00000118162	KPTN	127.34	0.43	1.77E-07
ENSG00000132294	EFR3A	2963.09	0.20	1.79E-07
ENSG00000250616	YPEL3-DT	144.72	-0.81	1.79E-07
ENSG00000010030	ETV7	354.20	1.30	1.80E-07
ENSG00000170476	MZB1	251.64	0.69	1.80E-07
ENSG00000244575	IGKV1-27	43.32	0.68	1.81E-07
ENSG00000204642	HLA-F	9541.48	0.22	1.83E-07
ENSG00000079393	DUSP13	42.29	1.12	1.84E-07
ENSG00000181481	RNF135	797.58	0.37	1.91E-07
ENSG00000211650	IGLV5-45	20.77	1.00	1.98E-07
ENSG00000111912	NCOA7	1590.03	0.33	2.05E-07
ENSG00000204632	HLA-G	236.11	0.36	2.07E-07
ENSG00000128394	APOBEC3F	786.94	0.36	2.17E-07
ENSG00000038219	BOD1L1	7173.52	-0.29	2.24E-07
ENSG00000176087	SLC35A4	1255.40	0.19	2.30E-07
ENSG00000154127	UBASH3B	1532.76	0.30	2.34E-07
ENSG00000227297		11.62	0.91	2.38E-07
ENSG00000100596	SPTLC2	1675.83	0.31	2.43E-07
ENSG00000166451	CENPN	128.96	0.36	2.55E-07
ENSG00000243650	RN7SL834P	234.36	0.33	2.56E-07
ENSG00000111602	TIMELESS	342.55	0.27	2.56E-07
ENSG00000278196	IGLV2-8	59.97	0.76	2.68E-07
ENSG00000093010	COMT	835.62	0.20	2.71E-07

ENSG00000205364	MT1M	11.03	2.21	2.71E-07
ENSG00000223914	LINC02471	9.82	1.62	2.73E-07
ENSG00000181350	LRRC75A	384.99	-0.75	2.73E-07
ENSG00000091483	FH	456.56	0.21	2.74E-07
ENSG00000243238	IGKV2-30	65.17	0.63	2.74E-07
ENSG00000102445	RUBCNL	1760.31	-0.50	2.90E-07
ENSG00000124562	SNRPC	463.26	0.25	2.91E-07
ENSG00000087589	CASS4	1448.85	-0.55	2.93E-07
ENSG00000197457	STMN3	1479.35	-0.22	3.02E-07
ENSG00000198826	ARHGAP11A	180.58	0.31	3.11E-07
ENSG00000085840	ORC1	55.97	0.53	3.11E-07
ENSG00000280121		91.02	-0.43	3.14E-07
ENSG00000211895	IGHA1	3356.12	0.60	3.16E-07
ENSG00000116147	TNR	12.24	-0.92	3.21E-07
ENSG00000231047	GCNT1P3	56.79	-0.63	3.22E-07
ENSG00000180535	BHLHA15	14.68	1.05	3.35E-07
ENSG00000100450	GZMH	1031.97	0.48	3.35E-07
ENSG00000101849	TBL1X	2340.69	-0.29	3.39E-07
ENSG00000259912		60.32	-1.20	3.52E-07
ENSG00000169410	PTPN9	784.76	0.16	3.62E-07
ENSG00000136682	CBWD2	925.45	0.28	3.63E-07
ENSG00000134690	CDCA8	51.87	0.51	3.64E-07
ENSG00000273749	CYFIP1	1260.41	0.35	3.68E-07
ENSG00000139567	ACVRL1	110.50	0.79	3.69E-07
ENSG00000106245	BUD31	904.04	0.20	3.98E-07
ENSG00000136279	DBNL	10246.68	-0.23	4.07E-07
ENSG00000229314	ORM1	319.57	-1.33	4.09E-07
ENSG00000172765	TMCC1	1958.90	-0.37	4.15E-07
ENSG00000185963	BICD2	2234.32	-0.19	4.30E-07
ENSG00000186407	CD300E	3177.05	1.02	4.32E-07
ENSG00000239823		21.87	-0.84	4.51E-07
ENSG00000174371	EXO1	29.72	0.52	4.53E-07
ENSG00000167522	ANKRD11	7224.59	-0.15	4.72E-07
ENSG00000243466	IGKV1-5	279.86	0.72	4.73E-07
ENSG00000140451	PIF1	40.08	0.56	4.84E-07
ENSG00000204267	TAP2	1896.43	0.40	4.90E-07
ENSG00000248309	MEF2C-AS1	91.79	-0.38	4.92E-07
ENSG00000163535	SGO2	167.40	0.35	4.92E-07
ENSG00000182685	BRICD5	187.98	-0.33	4.95E-07
ENSG00000171714	ANO5	36.01	0.72	5.09E-07
ENSG00000035664	DAPK2	1416.00	-0.46	5.09E-07
ENSG00000128789	PSMG2	674.52	0.16	5.20E-07
ENSG00000169087	HSPBAP1	885.88	-0.29	5.23E-07
ENSG00000182389	CACNB4	91.37	-0.83	5.27E-07
ENSG00000073969	NSF	736.39	0.17	5.31E-07
ENSG00000173480	ZNF417	910.23	-0.12	5.50E-07
ENSG00000120280	TASL	792.07	0.41	5.56E-07
ENSG00000267074		506.16	0.43	5.69E-07
ENSG00000198727	MT-CYB	9074.09	-0.41	5.73E-07
ENSG00000204264	PSMB8	2210.41	0.29	5.82E-07
ENSG00000114405	C3orf14	29.32	0.54	5.89E-07
ENSG00000211649	IGLV7-46	28.07	1.00	5.90E-07

ENSG00000101439	CST3	2432.66	0.62	6.02E-07
ENSG00000006432	MAP3K9	297.18	-0.21	6.02E-07
ENSG00000145016	RUBCN	3269.92	0.29	6.05E-07
ENSG00000121380	BCL2L14	34.70	1.00	6.06E-07
ENSG00000188486	H2AX	504.27	0.34	6.12E-07
ENSG00000124762	CDKN1A	3697.72	0.69	6.14E-07
ENSG00000214797		71.90	-0.56	6.14E-07
ENSG00000130741	EIF2S3	5190.14	-0.14	6.44E-07
ENSG00000172915	NBEA	383.23	-0.23	6.88E-07
ENSG00000105967	TFEC	3864.85	0.81	6.99E-07
ENSG00000173218	VANGL1	115.19	0.32	7.06E-07
ENSG00000101844	ATG4A	267.58	0.19	7.08E-07
ENSG00000116014	KISS1R	27.30	-0.76	7.10E-07
ENSG00000175063	UBE2C	54.78	0.52	7.14E-07
ENSG00000198938	MT-CO3	11181.89	-0.37	7.17E-07
ENSG00000136213	CHST12	2724.81	0.35	7.51E-07
ENSG00000136295	TTYH3	3210.91	0.42	7.73E-07
ENSG00000170385	SLC30A1	1786.41	0.39	7.85E-07
ENSG00000158882	TOMM40L	550.96	0.40	7.95E-07
ENSG00000071539	TRIP13	20.77	0.59	8.02E-07
ENSG00000105939	ZC3HAV1	6746.36	0.28	8.28E-07
ENSG00000160229	ZNF66	184.67	-0.29	8.30E-07
ENSG00000035499	DEPDC1B	42.63	0.55	8.65E-07
ENSG00000165646	SLC18A2	65.22	-0.51	8.80E-07
ENSG00000165916	PSMC3	942.51	0.25	8.92E-07
ENSG00000134308	YWHAQ	2831.21	0.19	9.05E-07
ENSG00000196664	TLR7	208.89	0.68	9.17E-07
ENSG00000108861	DUSP3	1202.79	0.31	9.28E-07
ENSG00000096996	IL12RB1	891.30	0.23	9.32E-07
ENSG00000206199	ANKUB1	11.84	-1.25	9.33E-07
ENSG00000198502	HLA-DRB5	1140.22	0.36	9.83E-07
ENSG00000085449	WDFY1	2146.82	0.32	9.93E-07
ENSG00000083454	P2RX5	504.06	-0.28	1.02E-06
ENSG00000214029	ZNF891	700.50	-0.21	1.02E-06
ENSG00000277224	H2BC7	673.98	0.43	1.03E-06
ENSG00000070756	PABPC1	29977.91	-0.17	1.03E-06
ENSG00000105726	ATP13A1	1921.31	0.19	1.06E-06
ENSG00000163746	PLSCR2	65.62	0.95	1.06E-06
ENSG00000105722	ERF	1014.58	-0.24	1.09E-06
ENSG00000105373	NOP53	9440.34	-0.24	1.10E-06
ENSG00000239305	RNF103	1463.49	-0.22	1.10E-06
ENSG00000131153	GINS2	28.42	0.69	1.13E-06
ENSG00000108700	CCL8	176.83	2.23	1.14E-06
ENSG00000223117	RN7SKP296	52.43	-0.56	1.14E-06
ENSG00000082293	COL19A1	501.80	-0.34	1.16E-06
ENSG00000142686	C1orf216	262.77	0.34	1.17E-06
ENSG00000211893	IGHG2	1253.51	0.58	1.19E-06
ENSG00000274114	ALOX15P1	188.82	-0.29	1.20E-06
ENSG00000144645	OSBPL10	335.70	-0.51	1.23E-06
ENSG00000203747	FCGR3A	4161.93	0.53	1.26E-06
ENSG00000065060	UHRF1BP1	873.17	0.18	1.26E-06
ENSG00000120318	ARAP3	1716.11	-0.58	1.28E-06

ENSG00000133101	CCNA1	24.27	0.91	1.30E-06
ENSG00000211938	IGHV3-7	58.11	0.53	1.30E-06
ENSG00000240382	IGKV1-17	43.91	0.85	1.34E-06
ENSG00000117450	PRDX1	2396.78	0.41	1.35E-06
ENSG00000198046	ZNF667	61.71	-0.38	1.35E-06
ENSG00000124201	ZNFX1	6093.59	0.31	1.35E-06
ENSG00000140365	COMMD4	476.80	0.31	1.36E-06
ENSG00000268006	PTOV1-AS1	84.73	-0.31	1.36E-06
ENSG00000146122	DAAM2	98.10	-1.75	1.37E-06
ENSG00000197226	TBC1D9B	3095.50	0.19	1.37E-06
ENSG00000018510	AGPS	1336.87	0.18	1.41E-06
ENSG00000125384	PTGER2	962.86	0.44	1.46E-06
ENSG00000139410	SDSL	272.89	0.64	1.46E-06
ENSG00000170340	B3GNT2	1024.42	0.22	1.51E-06
ENSG00000132792	CTNBL1	1012.62	0.20	1.51E-06
ENSG00000198951	NAGA	948.71	0.30	1.54E-06
ENSG00000179456	ZBTB18	2535.78	-0.25	1.56E-06
ENSG00000203760	CENPW	38.31	0.49	1.58E-06
ENSG00000167768	KRT1	392.70	-0.91	1.63E-06
ENSG00000272669		184.84	0.43	1.65E-06
ENSG00000244607	CCDC13	72.46	-0.43	1.67E-06
ENSG00000251072	LMNB1-DT	13.22	0.85	1.69E-06
ENSG00000135951	TSGA10	340.55	-0.19	1.69E-06
ENSG00000113719	ERGIC1	5620.40	-0.26	1.74E-06
ENSG00000197646	PDCD1LG2	95.39	0.81	1.74E-06
ENSG00000151176	PLBD2	824.92	0.32	1.74E-06
ENSG00000065911	MTHFD2	1556.43	0.38	1.80E-06
ENSG00000235151		38.56	0.88	1.83E-06
ENSG00000211651	IGLV1-44	97.16	0.74	1.84E-06
ENSG00000196678	ERI2	118.00	0.33	1.87E-06
ENSG00000136932	TRMO	1024.62	-0.17	1.87E-06
ENSG00000132185	FCRLA	188.03	-0.42	1.90E-06
ENSG00000165704	HPRT1	388.98	0.23	1.93E-06
ENSG00000184792	OSBP2	834.07	-0.76	1.95E-06
ENSG00000256262	USP30-AS1	147.88	0.34	1.97E-06
ENSG00000139266	MARCHF9	709.72	-0.19	1.98E-06
ENSG00000198829	SUCNR1	409.58	1.10	1.98E-06
ENSG00000241755	IGKV1-9	55.88	0.85	2.03E-06
ENSG00000113494	PRLR	80.04	0.89	2.03E-06
ENSG00000162771	GARIN4	14.88	1.13	2.07E-06
ENSG00000114450	GNB4	1527.93	0.37	2.12E-06
ENSG00000177628	GBA	1036.43	0.34	2.15E-06
ENSG00000127663	KDM4B	3766.26	-0.36	2.16E-06
ENSG00000123080	CDKN2C	122.01	0.40	2.23E-06
ENSG00000093072	ADA2	2992.79	0.45	2.25E-06
ENSG00000213694	S1PR3	191.87	0.82	2.27E-06
ENSG00000005471	ABCB4	186.79	-0.39	2.30E-06
ENSG00000099308	MAST3	3915.91	-0.34	2.32E-06
ENSG00000135540	NHSL1	66.80	0.51	2.32E-06
ENSG00000166526	ZNF3	841.33	-0.11	2.32E-06
ENSG00000184226	PCDH9	358.58	-0.38	2.33E-06
ENSG00000189180	ZNF33A	2628.01	-0.17	2.44E-06

ENSG00000028116	VRK2	1201.60	0.29	2.46E-06
ENSG00000025293	PHF20	2723.08	-0.20	2.47E-06
ENSG000000206337	HCP5	5771.13	0.41	2.49E-06
ENSG000000204308	RNF5	609.15	0.20	2.50E-06
ENSG000000168275	COA6	202.07	0.39	2.62E-06
ENSG000000106100	NOD1	836.68	0.22	2.62E-06
ENSG000000134627	PIWIL4	175.36	0.37	2.68E-06
ENSG000000189266	PNRC2	3498.26	0.18	2.70E-06
ENSG000000163513	TGFBR2	9934.45	-0.15	2.70E-06
ENSG000000132109	TRIM21	1568.02	0.40	2.70E-06
ENSG000000254420		23.35	1.28	2.70E-06
ENSG000000148926	ADM	1914.70	0.54	2.73E-06
ENSG000000137310	TCF19	219.85	0.33	2.83E-06
ENSG000000119383	PTPA	1464.59	0.21	2.86E-06
ENSG000000205726	ITSN1	318.36	0.39	3.02E-06
ENSG000000120217	CD274	2369.61	0.89	3.04E-06
ENSG000000104852	SNRNP70	6106.05	-0.18	3.09E-06
ENSG000000131979	GCH1	2712.66	0.62	3.17E-06
ENSG000000168496	FEN1	190.42	0.28	3.24E-06
ENSG000000244509	APOBEC3C	1810.09	0.24	3.27E-06
ENSG000000175115	PACS1	5331.41	-0.21	3.28E-06
ENSG000000196371	FUT4	767.45	0.29	3.29E-06
ENSG000000197579	TOPORS	1157.02	-0.25	3.29E-06
ENSG000000165661	QSOX2	1178.96	-0.18	3.38E-06
ENSG000000172594	SMPDL3A	363.73	0.66	3.38E-06
ENSG000000175390	EIF3F	3588.05	-0.18	3.52E-06
ENSG000000109390	NDUFC1	226.42	0.18	3.59E-06
ENSG000000178202	POGLUT3	228.90	0.23	3.59E-06
ENSG000000188994	ZNF292	6181.27	-0.21	3.59E-06
ENSG000000266980		39.66	0.58	3.60E-06
ENSG000000197943	PLCG2	5217.57	-0.27	3.62E-06
ENSG000000102524	TNFSF13B	1409.72	0.73	3.69E-06
ENSG000000106868	SUSD1	730.39	0.26	3.80E-06
ENSG000000112029	FBXO5	244.32	0.27	3.88E-06
ENSG000000136044	APPL2	1704.02	-0.21	3.91E-06
ENSG000000164430	CGAS	698.80	0.33	3.92E-06
ENSG000000115163	CENPA	16.98	0.69	4.05E-06
ENSG000000154165	GPR15	128.03	0.29	4.07E-06
ENSG000000147649	MTDH	3277.65	0.13	4.11E-06
ENSG000000004700	RECQL	1558.12	0.18	4.14E-06
ENSG000000101412	E2F1	78.32	0.47	4.15E-06
ENSG000000171658	NMRAL2P	33.98	1.35	4.15E-06
ENSG000000127511	SIN3B	1933.19	-0.17	4.23E-06
ENSG000000279410		118.34	-0.27	4.33E-06
ENSG000000123096	SSPN	64.38	-0.45	4.38E-06
ENSG000000196576	PLXNB2	1929.89	0.41	4.40E-06
ENSG000000206190	ATP10A	1564.22	0.21	4.42E-06
ENSG000000120509	PDZD11	149.98	0.24	4.47E-06
ENSG000000264548		78.61	-0.50	4.47E-06
ENSG000000149480	MTA2	2580.45	0.13	4.50E-06
ENSG000000165716	DIPK1B	89.06	-0.43	4.54E-06
ENSG000000198830	HMG2	4370.34	0.24	4.54E-06

ENSG00000080986	NDC80	169.25	0.32	4.54E-06
ENSG00000176485	PLAAT3	169.58	0.34	4.56E-06
ENSG00000237886	NALT1	57.35	-0.49	4.63E-06
ENSG00000165300	SLITRK5	29.86	-0.53	4.63E-06
ENSG00000136631	VPS45	576.56	0.14	4.65E-06
ENSG00000258831		30.02	-1.33	4.65E-06
ENSG00000283384		16.96	0.82	4.67E-06
ENSG00000172530	BANP	2657.81	-0.27	4.68E-06
ENSG00000087191	PSMC5	1233.75	0.14	4.76E-06
ENSG00000265658	MIR3690	12.39	-0.76	4.78E-06
ENSG00000134571	MYBPC3	397.35	0.48	4.78E-06
ENSG00000068784	SRBD1	867.36	0.20	4.78E-06
ENSG00000088833	NSFL1C	1904.27	-0.18	4.86E-06
ENSG00000138160	KIF11	177.91	0.46	4.87E-06
ENSG00000100453	GZMB	1860.73	0.60	4.88E-06
ENSG00000226501	USF1P1	53.46	-0.36	4.88E-06
ENSG00000119718	EIF2B2	505.97	0.15	4.89E-06
ENSG00000119698	PPP4R4	42.51	-0.66	4.89E-06
ENSG00000082397	EPB41L3	2157.25	0.41	4.93E-06
ENSG00000146386	ABRACL	608.31	0.21	4.96E-06
ENSG00000231259	ANAPC1P2	463.75	-0.22	4.96E-06
ENSG00000162711	NLRP3	1542.77	0.44	5.02E-06
ENSG00000105374	NKG7	2121.13	0.46	5.04E-06
ENSG00000179021	C3orf38	1046.73	0.18	5.05E-06
ENSG00000131242	RAB11FIP4	3450.82	-0.19	5.06E-06
ENSG00000175040	CHST2	1268.10	0.29	5.14E-06
ENSG00000135116	HRK	66.72	-0.48	5.14E-06
ENSG00000197385	ZNF860	67.00	-0.41	5.14E-06
ENSG00000144597	EAF1	1740.44	0.28	5.16E-06
ENSG00000198131	ZNF544	739.50	-0.14	5.16E-06
ENSG00000115523	GNLY	6646.85	0.35	5.30E-06
ENSG00000124374	PAIP2B	276.51	-0.20	5.42E-06
ENSG00000189051	RNF222	13.40	-0.78	5.46E-06
ENSG00000105048	TNNT1	13.32	1.30	5.46E-06
ENSG00000149823	VPS51	2666.34	-0.21	5.50E-06
ENSG00000138760	SCARB2	2591.15	0.48	5.55E-06
ENSG00000227076		35.39	-0.73	5.57E-06
ENSG00000223750	SIRPB3P	36.18	-0.48	5.58E-06
ENSG00000134153	EMC7	745.69	0.21	5.61E-06
ENSG00000255274	SMIM35	54.73	-0.74	5.67E-06
ENSG00000139579	NABP2	249.59	0.21	5.68E-06
ENSG00000116337	AMPD2	4081.13	-0.61	5.76E-06
ENSG00000205336	ADGRG1	1284.00	0.46	5.83E-06
ENSG00000007516	BAIAP3	280.29	-0.71	5.83E-06
ENSG00000179218	CALR	8159.29	0.35	5.83E-06
ENSG00000135424	ITGA7	103.52	0.58	5.83E-06
ENSG00000079385	CEACAM1	1409.89	0.61	5.94E-06
ENSG00000166619	BLCAP	2101.61	-0.11	5.98E-06
ENSG00000226777	FAM30A	699.43	-0.29	6.03E-06
ENSG00000185666	SYN3	24.02	-0.53	6.05E-06
ENSG00000104889	RNASEH2A	128.66	0.27	6.17E-06
ENSG00000144283	PKP4	678.90	-0.28	6.32E-06

ENSG00000184005	ST6GALNAC3	142.92	-0.35	6.37E-06
ENSG00000161551	ZNF577	413.51	-0.17	6.37E-06
ENSG00000110090	CPT1A	2394.64	-0.30	6.39E-06
ENSG00000183688	RFLNB	2018.96	-0.42	6.47E-06
ENSG00000174004	NRROS	719.76	0.26	6.50E-06
ENSG00000105464	GRIN2D	16.34	0.76	6.54E-06
ENSG00000179331	RAB39A	131.45	0.67	6.69E-06
ENSG00000179909	ZNF154	544.79	-0.15	6.83E-06
ENSG0000030582	GRN	7432.29	0.45	6.88E-06
ENSG00000106367	AP1S1	185.05	0.39	6.89E-06
ENSG00000091592	NLRP1	8393.77	-0.24	6.92E-06
ENSG00000224699	LAMTOR5-AS1	358.18	-0.14	7.05E-06
ENSG00000112742	TTK	60.38	0.53	7.05E-06
ENSG00000106546	AHR	2260.12	0.34	7.07E-06
ENSG00000173621	LRFN4	143.65	0.38	7.33E-06
ENSG00000158864	NDUFS2	963.36	0.12	7.66E-06
ENSG00000141504	SAT2	428.58	0.23	7.83E-06
ENSG00000229023	RAB1AP1	164.29	0.65	7.96E-06
ENSG00000113732	ATP6V0E1	2717.88	0.24	7.97E-06
ENSG00000087077	TRIP6	284.11	0.39	8.17E-06
ENSG00000241351	IGKV3-11	159.47	0.46	8.29E-06
ENSG00000105402	NAPA	3205.83	0.36	8.67E-06
ENSG00000253701		75.97	-0.48	8.69E-06
ENSG00000146278	PNRC1	13880.19	-0.29	8.70E-06
ENSG00000225313		11.06	-0.78	9.45E-06
ENSG00000092051	JPH4	8.53	1.39	9.49E-06
ENSG00000204514	ZNF814	805.28	-0.17	9.62E-06
ENSG00000198040	ZNF84	1075.28	-0.16	9.62E-06
ENSG00000166557	TMED3	672.16	0.14	9.66E-06
ENSG00000172775	PSME3IP1	2254.93	0.14	9.72E-06
ENSG00000143771	CNIH4	734.58	0.17	9.83E-06
ENSG00000104133	SPG11	5244.90	0.15	9.84E-06
ENSG00000157827	FMNL2	340.62	0.71	9.85E-06
ENSG00000179958	DCTPP1	274.88	0.26	9.88E-06
ENSG00000175265	GOLGA8A	2212.19	-0.18	1.01E-05
ENSG00000231160	KLF3-AS1	387.54	-0.25	1.01E-05
ENSG00000156030	MIDEAS	3995.93	-0.19	1.02E-05
ENSG00000133055	MYBPH	86.60	-0.85	1.02E-05
ENSG00000175334	BANF1	888.50	0.21	1.03E-05
ENSG00000073737	DHRS9	575.89	0.72	1.03E-05
ENSG00000187688	TRPV2	1469.84	0.17	1.03E-05
ENSG00000185482	STAC3	97.36	0.57	1.05E-05
ENSG00000196839	ADA	1527.60	0.51	1.06E-05
ENSG00000150760	DOCK1	68.33	0.37	1.06E-05
ENSG00000225828	FAM229A	545.42	-0.20	1.06E-05
ENSG00000255355	PATL1-DT	136.80	0.85	1.06E-05
ENSG00000170248	PDCD6IP	4123.19	0.13	1.06E-05
ENSG00000122432	SPATA1	41.39	0.36	1.06E-05
ENSG00000100473	COCH	32.79	-0.49	1.09E-05
ENSG00000282980		109.42	-0.33	1.09E-05
ENSG00000198853	RUSC2	355.89	0.34	1.11E-05
ENSG00000121281	ADCY7	6385.89	0.17	1.12E-05

ENSG00000119421	NDUFA8	250.81	0.23	1.12E-05
ENSG00000180644	PRF1	4274.11	0.48	1.13E-05
ENSG00000203446	SUGCT-AS1	12.70	1.35	1.13E-05
ENSG00000065526	SPEN	5031.23	-0.17	1.14E-05
ENSG00000013810	TACC3	2811.68	-0.23	1.14E-05
ENSG00000166908	PIP4K2C	672.00	0.15	1.16E-05
ENSG00000156931	VPS8	3208.54	-0.28	1.16E-05
ENSG00000272625		74.49	0.43	1.16E-05
ENSG00000114013	CD86	864.72	0.44	1.17E-05
ENSG00000117602	RCAN3	2931.19	-0.19	1.18E-05
ENSG00000162551	ALPL	1028.01	-1.04	1.20E-05
ENSG00000011275	RNF216	3049.48	-0.11	1.22E-05
ENSG00000141337	ARSG	1135.79	-0.33	1.26E-05
ENSG00000124134	KCNS1	13.25	-1.20	1.26E-05
ENSG00000270030		51.65	0.99	1.29E-05
ENSG00000168026	TTC21A	283.88	0.46	1.29E-05
ENSG00000280206		326.20	-0.27	1.29E-05
ENSG00000277476		481.79	-0.18	1.29E-05
ENSG00000101773	RBBP8	484.21	0.30	1.31E-05
ENSG00000184752	NDUFA12	474.37	0.25	1.32E-05
ENSG00000132704	FCRL2	398.55	-0.46	1.34E-05
ENSG00000143870	PDIA6	2700.06	0.31	1.35E-05
ENSG00000169385	RNASE2	131.17	0.87	1.35E-05
ENSG00000136205	TNS3	1342.05	0.45	1.36E-05
ENSG00000229677		208.56	0.31	1.36E-05
ENSG00000211644	IGLV1-51	95.28	0.43	1.37E-05
ENSG00000117461	PIK3R3	64.81	0.36	1.37E-05
ENSG00000186665	C17orf58	47.49	0.43	1.39E-05
ENSG00000257242	LINC01619	687.29	-0.20	1.41E-05
ENSG00000100997	ABHD12	788.41	0.21	1.42E-05
ENSG00000196126	HLA-DRB1	4452.88	0.29	1.42E-05
ENSG00000203797	DDO	13.74	1.00	1.46E-05
ENSG00000126947	ARMCX1	63.50	0.37	1.47E-05
ENSG00000226942	IL9RP3	154.27	-0.31	1.47E-05
ENSG00000101347	SAMHD1	7288.34	0.34	1.48E-05
ENSG00000112118	MCM3	957.16	0.19	1.49E-05
ENSG00000162813	BPNT1	362.07	0.18	1.50E-05
ENSG00000260823		7.06	1.54	1.50E-05
ENSG00000163918	RFC4	180.63	0.20	1.52E-05
ENSG00000136874	STX17	1013.38	0.14	1.52E-05
ENSG00000013374	NUB1	2995.10	0.27	1.56E-05
ENSG00000122678	POLM	1613.08	-0.12	1.56E-05
ENSG00000100387	RBX1	1075.36	0.21	1.56E-05
ENSG00000165672	PRDX3	930.21	0.21	1.60E-05
ENSG00000197238	H4C11	107.29	0.39	1.63E-05
ENSG00000167850	CD300C	395.28	0.48	1.67E-05
ENSG00000134709	HOOK1	324.72	-0.19	1.72E-05
ENSG00000137996	RTCA	851.76	0.13	1.73E-05
ENSG00000103489	XYLT1	2308.13	-0.18	1.73E-05
ENSG00000101986	ABCD1	704.92	0.31	1.79E-05
ENSG00000211648	IGLV1-47	80.09	0.56	1.82E-05
ENSG00000124074	ENKD1	127.50	-0.23	1.83E-05

ENSG00000172183	ISG20	6063.68	0.31	1.83E-05
ENSG00000125498	KIR2DL1	51.66	0.46	1.83E-05
ENSG00000134072	CAMK1	311.16	0.41	1.84E-05
ENSG00000271461	CKAP2LP1	54.83	-0.75	1.88E-05
ENSG00000241889		23.22	-0.65	1.99E-05
ENSG00000204525	HLA-C	63508.34	0.24	2.00E-05
ENSG00000167676	PLIN4	365.16	-0.65	2.00E-05
ENSG00000135046	ANXA1	6894.96	0.32	2.01E-05
ENSG00000117408	IPO13	501.92	0.18	2.08E-05
ENSG00000196531	NACA	5745.76	-0.16	2.08E-05
ENSG00000050344	NFE2L3	279.03	0.38	2.11E-05
ENSG00000103274	NUBP1	598.02	0.14	2.20E-05
ENSG00000075239	ACAT1	308.30	0.24	2.21E-05
ENSG00000067221	STOML1	242.92	0.26	2.21E-05
ENSG00000083828	ZNF586	1292.62	-0.19	2.21E-05
ENSG00000260803		29.12	-0.40	2.23E-05
ENSG00000142230	SAE1	914.28	0.13	2.29E-05
ENSG00000154760	SLFN13	1595.37	0.21	2.33E-05
ENSG00000152133	GPATCH11	404.45	-0.23	2.34E-05
ENSG00000104960	PTOV1	1252.56	-0.23	2.35E-05
ENSG00000156113	KCNMA1	51.72	0.73	2.39E-05
ENSG00000239713	APOBEC3G	2477.16	0.36	2.43E-05
ENSG00000281162	LINC01127	202.34	-0.86	2.53E-05
ENSG00000141096	DPEP3	100.13	-0.73	2.54E-05
ENSG00000188389	PDCD1	158.64	0.33	2.56E-05
ENSG00000182481	KPNA2	447.27	0.37	2.59E-05
ENSG00000047346	FAM214A	3176.01	-0.22	2.60E-05
ENSG00000160233	LRRC3	95.12	0.43	2.60E-05
ENSG00000133574	GIMAP4	5055.88	0.25	2.61E-05
ENSG00000138385	SSB	1280.62	0.27	2.64E-05
ENSG00000197746	PSAP	40565.69	0.38	2.67E-05
ENSG00000114656	CFAP92	131.89	-0.72	2.70E-05
ENSG00000168216	LMBRD1	1490.73	-0.27	2.70E-05
ENSG00000051341	POLQ	107.44	0.44	2.70E-05
ENSG00000132122	SPATA6	160.02	-0.36	2.70E-05
ENSG00000261221	ZNF865	915.70	-0.20	2.70E-05
ENSG00000110435	PDHX	667.40	0.16	2.73E-05
ENSG00000138639	ARHGAP24	428.80	-0.26	2.79E-05
ENSG00000171115	GIMAP8	1225.43	0.23	2.79E-05
ENSG00000121060	TRIM25	6180.03	0.46	2.80E-05
ENSG00000175711	B3GNTL1	809.82	-0.31	2.85E-05
ENSG00000284194	SCO2	11.03	1.19	2.87E-05
ENSG00000268069		23.10	-0.46	2.88E-05
ENSG00000164087	POC1A	52.72	0.32	2.90E-05
ENSG00000166411	IDH3A	782.51	0.17	2.94E-05
ENSG00000186354		82.71	0.72	2.95E-05
ENSG00000143545	RAB13	348.82	0.49	2.95E-05
ENSG00000166794	PPIB	3057.66	0.21	3.04E-05
ENSG00000160791	CCR5	918.26	0.64	3.07E-05
ENSG00000250687	NAIPP1	34.23	0.73	3.08E-05
ENSG00000118640	VAMP8	1329.04	0.27	3.09E-05
ENSG00000143549	TPM3	8430.76	0.20	3.11E-05

ENSG00000102837	OLFM4	163.79	0.58	3.18E-05
ENSG00000087470	DNM1L	1270.36	0.17	3.19E-05
ENSG00000141298	SSH2	8333.98	-0.26	3.22E-05
ENSG00000065559	MAP2K4	1210.57	-0.18	3.23E-05
ENSG00000133048	CHI3L1	2395.40	-0.69	3.27E-05
ENSG00000158406	H4C8	1341.80	0.29	3.27E-05
ENSG00000163947	ARHGEF3	2615.79	0.19	3.34E-05
ENSG00000253755	IGHGP	29.02	1.06	3.34E-05
ENSG00000064547	LPAR2	1376.72	-0.30	3.34E-05
ENSG00000131724	IL13RA1	2397.94	-0.39	3.36E-05
ENSG00000196821	ILRUN	3332.04	0.19	3.37E-05
ENSG00000187164	SHTN1	385.62	0.32	3.37E-05
ENSG00000142227	EMP3	2518.29	0.33	3.41E-05
ENSG00000119013	NDUFB3	263.72	0.25	3.46E-05
ENSG00000178947	SMIM10L2A	61.48	-0.35	3.50E-05
ENSG00000197024	ZNF398	991.70	-0.13	3.61E-05
ENSG00000261026		469.48	0.89	3.61E-05
ENSG00000072134	EPN2	388.10	-0.27	3.63E-05
ENSG00000144802	NFKBIZ	9542.05	0.33	3.63E-05
ENSG00000134827	TCN1	82.81	0.71	3.66E-05
ENSG00000278600		1514.65	-0.40	3.70E-05
ENSG00000196465	MYL6B	69.29	0.35	3.76E-05
ENSG00000111371	SLC38A1	8994.73	-0.10	3.76E-05
ENSG00000163516	ANKZF1	1394.04	-0.16	3.77E-05
ENSG00000189223	PAX8-AS1	1261.80	0.14	3.79E-05
ENSG00000240403	KIR3DL2	88.50	0.37	3.80E-05
ENSG00000101003	GINS1	39.83	0.39	3.84E-05
ENSG00000273382	TMEM167B-DT	69.39	-0.35	3.89E-05
ENSG00000220008	LINGO3	36.06	-0.44	3.92E-05
ENSG00000183696	UPP1	3775.55	0.26	3.92E-05
ENSG00000166947	EPB42	857.12	-0.68	3.93E-05
ENSG00000257594	GALNT4	70.96	0.37	3.96E-05
ENSG00000198113	TOR4A	1084.50	0.31	3.99E-05
ENSG00000116299	ELAPOR1	499.76	-0.53	4.00E-05
ENSG00000155660	PDIA4	1913.07	0.25	4.02E-05
ENSG00000100097	LGALS1	3167.00	0.47	4.03E-05
ENSG00000224307	LINC02975	78.73	-0.80	4.03E-05
ENSG00000145088	EAF2	280.03	0.31	4.04E-05
ENSG00000116574	RHOU	748.99	0.45	4.06E-05
ENSG00000186575	NF2	1290.78	0.12	4.07E-05
ENSG00000103066	PLA2G15	347.43	0.29	4.07E-05
ENSG00000036257	CUL3	2948.80	-0.13	4.08E-05
ENSG00000125651	GTF2F1	1213.14	0.14	4.11E-05
ENSG00000267260		17.42	-0.47	4.18E-05
ENSG00000231721	LINC-PINT	3654.32	-0.16	4.21E-05
ENSG00000126603	GLIS2	19.16	-0.76	4.25E-05
ENSG00000183421	RIPK4	17.12	-0.64	4.26E-05
ENSG00000145244	CORIN	28.33	-0.69	4.27E-05
ENSG00000066422	ZBTB11	2086.28	-0.09	4.29E-05
ENSG00000171824	EXOSC10	1268.87	0.11	4.31E-05
ENSG00000243746	EEF1A1P10	46.22	-0.36	4.35E-05
ENSG00000213047	DENND1B	1404.84	0.20	4.36E-05

ENSG00000125835	SNRPB	1975.04	0.20	4.39E-05
ENSG00000196358	NTNG2	1806.02	0.57	4.45E-05
ENSG00000181467	RAP2B	3061.25	0.17	4.45E-05
ENSG00000112308	C6orf62	10996.73	0.17	4.48E-05
ENSG00000103811	CTSH	2848.21	0.25	4.59E-05
ENSG00000123810	B9D2	270.53	-0.23	4.60E-05
ENSG00000150401	DCUN1D2	442.97	-0.13	4.61E-05
ENSG00000123992	DNPEP	917.11	0.16	4.64E-05
ENSG00000273272		201.21	0.56	4.65E-05
ENSG00000279529		335.32	-0.20	4.71E-05
ENSG00000197903	H2BC12	1592.09	0.30	4.74E-05
ENSG00000171817	ZNF540	337.63	-0.19	4.81E-05
ENSG00000119669	IRF2BPL	2144.52	-0.25	4.86E-05
ENSG00000136144	RCBTB1	802.07	0.16	4.86E-05
ENSG00000129226	CD68	29.24	0.58	4.87E-05
ENSG00000232442	MHENCRCR	516.27	-0.24	4.87E-05
ENSG00000233844		41.03	-0.37	4.87E-05
ENSG00000150768	DLAT	513.06	0.12	4.98E-05
ENSG00000132275	RRP8	1030.38	-0.10	4.98E-05
ENSG00000253958	CLDN23	43.84	0.64	5.06E-05
ENSG00000161800	RACGAP1	328.52	0.34	5.06E-05
ENSG00000177943	MAMDC4	162.72	0.29	5.18E-05
ENSG00000189060	H1-0	907.76	0.69	5.19E-05
ENSG00000279415		79.23	-0.30	5.19E-05
ENSG00000139180	NDUFA9	572.21	0.15	5.20E-05
ENSG00000198886	MT-ND4	12498.01	-0.37	5.25E-05
ENSG00000239779	WBP1	447.86	-0.17	5.25E-05
ENSG00000238009		27.06	-0.57	5.32E-05
ENSG00000004660	CAMKK1	838.21	-0.47	5.33E-05
ENSG00000197111	PCBP2	6025.92	-0.15	5.33E-05
ENSG00000180739	S1PR5	902.82	0.33	5.33E-05
ENSG00000224660	SH3BP5-AS1	1357.02	-0.16	5.33E-05
ENSG00000129535	NRL	95.42	0.25	5.34E-05
ENSG00000143106	PSMA5	1355.09	0.21	5.39E-05
ENSG00000146083	RNF44	3136.28	-0.24	5.39E-05
ENSG00000272967		14.09	1.00	5.39E-05
ENSG00000117724	CENPF	268.45	0.47	5.45E-05
ENSG00000160883	HK3	2073.40	0.46	5.45E-05
ENSG00000078043	PIAS2	1362.29	-0.13	5.53E-05
ENSG00000170949	ZNF160	1236.67	-0.11	5.56E-05
ENSG00000143621	ILF2	1963.55	0.17	5.58E-05
ENSG00000185219	ZNF445	2790.50	-0.17	5.67E-05
ENSG000000026751	SLAMF7	8371.01	0.67	5.69E-05
ENSG00000196724	ZNF418	237.45	-0.16	5.71E-05
ENSG00000236700	LINC01010	48.72	1.15	5.73E-05
ENSG00000235192		54.81	0.47	5.73E-05
ENSG00000090889	KIF4A	48.60	0.52	5.77E-05
ENSG00000084090	STARD7	2370.15	0.12	5.82E-05
ENSG00000162298	SYVN1	1128.74	-0.15	5.82E-05
ENSG00000092758	COL9A3	180.90	-0.43	5.85E-05
ENSG00000166046	TCP11L2	3704.81	-0.27	5.86E-05
ENSG00000156709	AIFM1	330.10	0.19	5.87E-05

ENSG00000226964	RHEBP2	16.97	0.46	5.90E-05
ENSG00000166086	JAM3	268.32	-0.31	5.92E-05
ENSG00000111605	CPSF6	3552.59	-0.15	5.96E-05
ENSG00000104442	ARMC1	566.45	0.14	5.99E-05
ENSG00000133321	PLAAT4	1688.84	0.24	6.03E-05
ENSG00000205056	LINC02397	394.65	-0.55	6.19E-05
ENSG00000213468	FIRRE	73.79	0.41	6.21E-05
ENSG00000182310	SPACA6	463.75	-0.41	6.25E-05
ENSG00000260257		262.32	-0.19	6.25E-05
ENSG00000121594	CD80	674.66	0.96	6.27E-05
ENSG00000251301	LINC02384	200.64	0.50	6.39E-05
ENSG00000279447		41.32	-0.76	6.40E-05
ENSG00000197852	INKA2	1526.65	-0.59	6.44E-05
ENSG00000137055	PLAA	815.30	0.16	6.45E-05
ENSG00000139174	PRICKLE1	87.06	-0.32	6.61E-05
ENSG00000143367	TUFT1	144.93	0.30	6.65E-05
ENSG00000140526	ABHD2	4844.66	-0.36	6.70E-05
ENSG00000073111	MCM2	306.38	0.30	6.70E-05
ENSG00000277258	PCGF2	8.63	0.99	6.73E-05
ENSG00000164483	SAMD3	800.05	0.18	6.78E-05
ENSG00000115524	SF3B1	15328.12	-0.11	6.79E-05
ENSG00000065989	PDE4A	927.15	0.28	6.83E-05
ENSG00000166704	ZNF606	599.37	-0.14	6.94E-05
ENSG00000246731		73.31	0.41	6.96E-05
ENSG00000141552	ANAPC11	495.43	0.19	7.09E-05
ENSG00000184271	POU6F1	653.48	-0.20	7.09E-05
ENSG00000002919	SNX11	997.94	0.20	7.11E-05
ENSG00000280035		306.35	-0.45	7.26E-05
ENSG00000114948	ADAM23	165.88	-0.27	7.32E-05
ENSG00000278637	H4C1	126.87	0.44	7.38E-05
ENSG00000259321		87.51	0.34	7.38E-05
ENSG00000019169	MARCO	569.42	0.99	7.44E-05
ENSG00000115233	PSMD14	721.73	0.28	7.63E-05
ENSG00000250929	LINC01181	35.53	1.51	7.66E-05
ENSG00000104043	ATP8B4	983.33	0.41	7.68E-05
ENSG00000165997	ARL5B	2741.71	0.30	7.70E-05
ENSG00000100307	CBX7	4081.93	-0.19	7.76E-05
ENSG00000170448	NFXL1	675.11	-0.33	7.84E-05
ENSG00000172403	SYNPO2	83.88	0.37	7.90E-05
ENSG00000129515	SNX6	2008.08	0.16	7.95E-05
ENSG00000185950	IRS2	3763.15	-0.60	8.00E-05
ENSG00000076706	MCAM	37.76	-0.47	8.06E-05
ENSG00000221829	FANCG	284.49	0.15	8.27E-05
ENSG00000051108	HERPUD1	3396.76	-0.22	8.29E-05
ENSG00000147459	DOCK5	7562.60	-0.44	8.38E-05
ENSG00000100218	RSPH14	10.72	-0.92	8.40E-05
ENSG00000198356	GET3	770.36	0.17	8.42E-05
ENSG00000103326	CAPN15	2508.58	0.22	8.43E-05
ENSG00000171148	TADA3	1511.76	0.19	8.47E-05
ENSG00000069702	TGFBR3	1742.00	0.22	8.52E-05
ENSG00000099991	CABIN1	4037.32	-0.19	8.57E-05
ENSG00000135077	HAVCR2	1448.02	0.64	8.66E-05

ENSG00000024526	DEPDC1	30.92	0.63	8.74E-05
ENSG00000133275	CSNK1G2	4471.76	-0.13	8.75E-05
ENSG00000196968	FUT11	842.97	0.13	8.75E-05
ENSG00000232587	EEF1A1P3	224.99	-0.25	8.77E-05
ENSG00000239839	DEFA3	1141.85	0.50	8.88E-05
ENSG00000100207	TCF20	3231.23	-0.13	8.88E-05
ENSG00000167302	TEPSIN	1720.81	-0.16	8.91E-05
ENSG00000100714	MTHFD1	498.48	0.22	9.04E-05
ENSG00000252206	RNU7-40P	27.00	0.59	9.09E-05
ENSG00000261150	EPPK1	521.30	-0.34	9.10E-05
ENSG00000137563	GGH	53.12	0.35	9.18E-05
ENSG00000180530	NRIP1	2211.31	0.24	9.21E-05
ENSG00000183570	PCBP3	131.87	-0.37	9.21E-05
ENSG00000197019	SERTAD1	619.91	0.35	9.25E-05
ENSG00000167978	SRRM2	21061.17	-0.18	9.49E-05
ENSG00000023697	DERA	325.17	0.17	9.50E-05
ENSG00000101608	MYL12A	4965.67	0.21	9.56E-05
ENSG00000180061	TMEM150B	221.34	0.47	9.56E-05
ENSG00000166340	TPP1	4164.51	0.30	9.56E-05
ENSG00000230092		210.45	-0.17	9.56E-05
ENSG00000255050		12.44	-0.77	9.56E-05
ENSG00000275527		34.91	-0.84	9.62E-05
ENSG00000261468		613.30	-0.26	9.64E-05
ENSG00000186567	CEACAM19	33.44	-0.46	9.66E-05
ENSG00000176533	GNG7	486.98	-0.45	9.81E-05
ENSG00000279620		219.91	-0.24	9.81E-05
ENSG00000122674	CCZ1	660.02	0.10	9.88E-05
ENSG00000196369	SRGAP2B	367.30	0.32	9.92E-05
ENSG00000147099	HDAC8	388.69	0.12	9.99E-05
ENSG00000240864	IGKV1-16	36.31	0.65	1.00E-04
ENSG00000115355	CCDC88A	2509.49	0.29	1.00E-04
ENSG00000126254	RBM42	915.12	0.13	1.01E-04
ENSG00000099203	TMED1	260.51	0.25	1.01E-04
ENSG00000145220	LYAR	523.39	0.17	1.02E-04
ENSG00000182158	CREB3L2	1588.60	0.19	1.03E-04
ENSG00000047644	WWC3	2288.79	-0.23	1.03E-04
ENSG00000133265	HSPBP1	309.24	0.23	1.04E-04
ENSG00000055070	SZRD1	3143.18	0.14	1.05E-04
ENSG00000082512	TRAF5	1997.80	-0.15	1.05E-04
ENSG00000253307		78.84	-0.46	1.06E-04
ENSG00000204592	HLA-E	54350.29	0.18	1.06E-04
ENSG00000074842	MYDGF	820.74	0.24	1.08E-04
ENSG00000279400		27.14	1.14	1.08E-04
ENSG00000100764	PSMC1	1006.07	0.15	1.09E-04
ENSG00000125826	RBCK1	2905.47	0.24	1.09E-04
ENSG00000047621	C12orf4	564.55	0.19	1.09E-04
ENSG00000115718	PROC	10.55	-0.81	1.10E-04
ENSG00000130939	UBE4B	1852.60	-0.14	1.10E-04
ENSG00000174697	LEP	31.78	0.95	1.10E-04
ENSG00000184371	CSF1	2175.58	0.48	1.11E-04
ENSG00000116786	PLEKHM2	3884.27	0.20	1.11E-04
ENSG00000168061	SAC3D1	98.62	0.27	1.13E-04

ENSG00000253981	ALG1L13P	563.39	-0.69	1.14E-04
ENSG00000187231	SESTD1	952.67	0.30	1.14E-04
ENSG00000079999	KEAP1	988.09	0.24	1.15E-04
ENSG00000032389	EIPR1	559.90	0.13	1.16E-04
ENSG00000179869	ABCA13	280.69	0.45	1.16E-04
ENSG00000232119	MCTS1	362.39	0.20	1.17E-04
ENSG00000047365	ARAP2	5020.76	0.18	1.17E-04
ENSG00000228340	MIR646HG	158.53	-0.45	1.17E-04
ENSG00000075142	SRI	1004.29	0.16	1.17E-04
ENSG00000115295	CLIP4	1820.89	0.11	1.18E-04
ENSG00000161914	ZNF653	183.36	-0.20	1.18E-04
ENSG00000124357	NAGK	5405.40	0.31	1.18E-04
ENSG00000171365	CLCN5	214.90	0.25	1.19E-04
ENSG00000198934	MAGEE1	166.54	-0.25	1.20E-04
ENSG00000168734	PKIG	280.82	-0.23	1.21E-04
ENSG00000151687	ANKAR	395.28	-0.16	1.23E-04
ENSG00000110651	CD81	2485.61	0.18	1.24E-04
ENSG00000267009		179.43	-0.29	1.25E-04
ENSG00000172757	CFL1	7715.69	0.20	1.26E-04
ENSG00000049449	RCN1	440.98	0.25	1.26E-04
ENSG00000177096	PHETA2	96.86	0.35	1.26E-04
ENSG00000174437	ATP2A2	3080.59	0.16	1.27E-04
ENSG00000152620	NADK2	465.66	0.13	1.27E-04
ENSG00000143889	HNRNPLL	1651.29	0.21	1.28E-04
ENSG00000280378		101.97	-0.25	1.29E-04
ENSG00000133393	CEP20	438.90	0.16	1.29E-04
ENSG00000253535	ADAM7-AS1	47.11	-0.38	1.29E-04
ENSG00000122729	ACO1	464.10	-0.14	1.33E-04
ENSG00000010404	IDS	4315.70	-0.19	1.34E-04
ENSG00000270882	H4C14	31.77	0.43	1.35E-04
ENSG00000171649	ZIK1	250.51	-0.18	1.36E-04
ENSG00000047249	ATP6V1H	1133.74	0.20	1.39E-04
ENSG00000100403	ZC3H7B	1993.30	0.13	1.39E-04
ENSG00000128203	ASPHD2	235.19	0.24	1.40E-04
ENSG00000231233	CFAP58-DT	277.49	0.57	1.41E-04
ENSG00000161920	MED11	361.02	-0.20	1.42E-04
ENSG00000163964	PIGX	508.53	-0.22	1.43E-04
ENSG00000259070	LINC00639	18.70	-0.72	1.46E-04
ENSG00000182957	SPATA13	3356.61	0.15	1.47E-04
ENSG00000175216	CKAP5	1103.79	0.16	1.47E-04
ENSG00000171291	ZNF439	531.51	-0.16	1.48E-04
ENSG00000257950	P2RX5-TAX1BP3	89.64	-0.29	1.48E-04
ENSG00000165629	ATP5F1C	1423.57	0.17	1.48E-04
ENSG00000135678	CPM	641.89	0.39	1.48E-04
ENSG00000213722	DDAH2	830.36	0.30	1.48E-04
ENSG00000147164	SNX12	787.90	0.19	1.51E-04
ENSG00000137642	SORL1	25675.51	-0.36	1.52E-04
ENSG00000246596		474.87	-0.14	1.52E-04
ENSG00000183604	SMG1P5	824.06	-0.14	1.53E-04
ENSG00000107262	BAG1	5043.91	-0.47	1.53E-04
ENSG00000129657	SEC14L1	10648.92	-0.33	1.54E-04
ENSG00000182179	UBA7	2717.69	0.28	1.55E-04

ENSG00000164051	CCDC51	120.70	0.25	1.55E-04
ENSG00000219085	NPM1P37	128.75	-0.24	1.56E-04
ENSG00000249459	ZNF286B	126.26	-0.19	1.56E-04
ENSG00000171236	LRG1	2182.21	-0.57	1.57E-04
ENSG00000068383	INPP5A	996.93	-0.17	1.57E-04
ENSG00000251230	MIR3945HG	733.60	0.78	1.57E-04
ENSG00000152518	ZFP36L2	15445.01	-0.20	1.57E-04
ENSG00000257839	PHLDA1-DT	24.36	0.43	1.57E-04
ENSG00000204634	TBC1D8	982.79	0.35	1.58E-04
ENSG00000133639	BTG1	20575.80	-0.15	1.58E-04
ENSG00000176293	ZNF135	136.84	-0.21	1.58E-04
ENSG00000259642	ST20-AS1	406.91	-0.36	1.59E-04
ENSG00000128335	APOL2	3265.33	0.33	1.62E-04
ENSG00000102401	ARMCX3	959.87	0.21	1.63E-04
ENSG00000196415	PRTN3	13.84	1.03	1.64E-04
ENSG00000132591	ERAL1	347.60	0.15	1.64E-04
ENSG00000091129	NRCAM	142.28	-0.43	1.65E-04
ENSG00000241666		88.65	-0.34	1.66E-04
ENSG00000152102	FAM168B	2206.13	-0.14	1.67E-04
ENSG00000254639		22.48	0.60	1.67E-04
ENSG00000106635	BCL7B	1081.93	0.16	1.67E-04
ENSG00000173409	ARV1	153.95	0.20	1.68E-04
ENSG00000213699	SLC35F6	1142.81	0.18	1.68E-04
ENSG00000257027		1795.52	-0.22	1.68E-04
ENSG00000224959		83.89	0.44	1.69E-04
ENSG00000138413	IDH1	810.31	0.34	1.69E-04
ENSG00000115590	IL1R2	1912.89	-0.74	1.69E-04
ENSG00000138111	MFSD13A	358.69	0.26	1.69E-04
ENSG00000112658	SRF	1469.03	0.18	1.69E-04
ENSG00000149929	HIRIP3	144.69	0.23	1.70E-04
ENSG00000168067	MAP4K2	2079.57	-0.12	1.72E-04
ENSG00000211962	IGHV1-46	45.50	0.44	1.73E-04
ENSG00000138834	MAPK8IP3	4664.93	-0.17	1.77E-04
ENSG00000161692	DBF4B	215.77	0.28	1.77E-04
ENSG00000243772	KIR2DL3	41.57	0.45	1.78E-04
ENSG00000166889	PATL1	2567.34	0.24	1.78E-04
ENSG00000196132	MYT1	18.35	-0.71	1.80E-04
ENSG00000116962	NID1	144.42	0.54	1.80E-04
ENSG00000237989	LINC01679	61.61	0.40	1.80E-04
ENSG00000183018	SPNS2	45.52	-0.76	1.81E-04
ENSG00000171204	TMEM126B	561.58	0.17	1.81E-04
ENSG00000124275	MTRR	1184.58	0.13	1.82E-04
ENSG00000168894	RNF181	553.35	0.19	1.85E-04
ENSG00000116539	ASH1L	6610.13	-0.09	1.86E-04
ENSG00000164465	DCBLD1	199.06	0.21	1.87E-04
ENSG00000105612	DNASE2	732.44	0.28	1.87E-04
ENSG00000077454	LRCH4	1535.84	-0.25	1.87E-04
ENSG00000126067	PSMB2	857.18	0.15	1.87E-04
ENSG00000163644	PPM1K	2797.85	0.26	1.88E-04
ENSG00000152332	UHMK1	5392.57	0.11	1.88E-04
ENSG00000106009	BRAT1	1179.55	-0.14	1.88E-04
ENSG00000181218	H2AW	208.09	0.33	1.88E-04

ENSG00000131165	CHMP1A	2085.16	0.15	1.90E-04
ENSG00000022567	SLC45A4	2408.67	-0.35	1.90E-04
ENSG00000196511	TPK1	479.81	-0.24	1.90E-04
ENSG00000233476	EEF1A1P6	208.98	-0.33	1.91E-04
ENSG00000084070	SMAP2	8850.54	-0.34	1.92E-04
ENSG00000180776	ZDHHC20	3571.91	0.14	1.93E-04
ENSG00000176340	COX8A	885.71	0.23	1.95E-04
ENSG00000078098	FAP	78.94	1.37	1.95E-04
ENSG00000156869	FRRS1	80.65	0.41	1.96E-04
ENSG00000112304	ACOT13	271.91	0.27	1.97E-04
ENSG00000250510	GPR162	223.62	-0.66	1.97E-04
ENSG00000175470	PPP2R2D	1784.13	-0.10	1.98E-04
ENSG00000222041	CYTOR	658.44	0.25	1.99E-04
ENSG00000154222	CC2D1B	2095.16	0.09	2.01E-04
ENSG00000108387	SEPTIN4	41.30	0.66	2.01E-04
ENSG00000127952	STYXL1	454.76	0.17	2.03E-04
ENSG00000227598		107.58	-0.35	2.03E-04
ENSG00000100811	YY1	3031.94	-0.11	2.03E-04
ENSG00000258872	FDPSP3	111.54	0.53	2.04E-04
ENSG00000134882	UBAC2	1999.04	0.10	2.06E-04
ENSG00000117984	CTSD	6585.44	0.42	2.06E-04
ENSG00000175727	MLXIP	3366.86	-0.17	2.07E-04
ENSG00000187193	MT1X	148.56	0.47	2.07E-04
ENSG00000176049	JAKMIP2	677.82	0.51	2.09E-04
ENSG00000173818	ENDOV	346.80	-0.19	2.10E-04
ENSG00000100902	PSMA6	589.10	0.21	2.10E-04
ENSG00000203872	C6orf163	179.04	-0.19	2.10E-04
ENSG00000228716	DHFR	343.09	0.21	2.10E-04
ENSG00000082898	XPO1	4720.30	0.15	2.10E-04
ENSG00000119900	OGFRL1	6457.23	-0.36	2.10E-04
ENSG00000143553	SNAPIN	322.10	0.18	2.11E-04
ENSG00000196150	ZNF250	687.82	-0.18	2.11E-04
ENSG00000213066	CEP43	481.21	-0.19	2.13E-04
ENSG00000238160	LINC02863	283.25	-0.48	2.14E-04
ENSG00000181638	ZFP41	470.11	-0.15	2.14E-04
ENSG00000118515	SGK1	6989.06	0.35	2.14E-04
ENSG00000064601	CTSA	2994.36	0.28	2.17E-04
ENSG00000124508	BTN2A2	1242.83	0.31	2.17E-04
ENSG00000122971	ACADS	288.27	0.18	2.17E-04
ENSG00000104529	EEF1D	10351.54	-0.12	2.18E-04
ENSG00000067225	PKM	11683.39	0.28	2.18E-04
ENSG00000279333		31.85	-0.38	2.18E-04
ENSG00000133624	ZNF767P	1325.03	-0.12	2.18E-04
ENSG00000174307	PHLDA3	16.94	0.53	2.19E-04
ENSG00000187621	TCL6	128.46	-0.35	2.19E-04
ENSG00000123600	METTL8	660.36	-0.14	2.20E-04
ENSG00000273599		88.92	-0.40	2.20E-04
ENSG00000152443	ZNF776	1059.72	-0.17	2.21E-04
ENSG00000170779	CDCA4	478.41	0.21	2.21E-04
ENSG00000231991	ANXA2P2	16.48	0.52	2.22E-04
ENSG00000216490	IFI30	878.55	0.41	2.23E-04
ENSG00000129465	RIPK3	716.41	0.18	2.23E-04

ENSG00000240505	TNFRSF13B	107.83	-0.33	2.24E-04
ENSG00000141425	RPRD1A	1038.78	-0.10	2.24E-04
ENSG00000117009	KMO	780.06	0.67	2.26E-04
ENSG00000123329	ARHGAP9	6430.33	-0.21	2.27E-04
ENSG00000167863	ATP5PD	920.42	0.15	2.27E-04
ENSG00000214595	EML6	149.86	-0.31	2.27E-04
ENSG00000122008	POLK	1353.35	0.15	2.28E-04
ENSG00000181938	GINS3	50.55	0.29	2.28E-04
ENSG00000244620		43.38	-0.41	2.28E-04
ENSG00000129473	BCL2L2	219.05	0.17	2.28E-04
ENSG00000163121	NEURL3	50.31	1.00	2.28E-04
ENSG00000135452	TSPAN31	532.53	0.14	2.28E-04
ENSG00000260943	LINC02555	79.90	0.93	2.31E-04
ENSG00000111664	GNB3	15.96	-0.60	2.31E-04
ENSG00000196263	ZNF471	53.27	-0.28	2.31E-04
ENSG00000148803	FUOM	276.36	0.22	2.32E-04
ENSG00000111540	RAB5B	3025.42	-0.13	2.32E-04
ENSG00000157514	TSC22D3	7954.54	-0.31	2.34E-04
ENSG00000275832	ARHGAP23	31.83	0.52	2.35E-04
ENSG00000171522	PTGER4	5015.55	0.22	2.38E-04
ENSG00000214626	POLR3DP1	29.27	-0.43	2.40E-04
ENSG00000154518	ATP5MC3	914.06	0.16	2.41E-04
ENSG00000100983	GSS	494.67	0.15	2.46E-04
ENSG00000183010	PYCR1	35.78	0.61	2.47E-04
ENSG00000189339	SLC35E2B	3263.33	-0.12	2.47E-04
ENSG00000114904	NEK4	769.14	0.12	2.47E-04
ENSG00000170271	FAXDC2	804.59	-0.62	2.49E-04
ENSG00000124243	BCAS4	954.84	-0.18	2.49E-04
ENSG00000173638	SLC19A1	2083.99	-0.37	2.51E-04
ENSG00000153933	DGKE	1101.23	-0.15	2.54E-04
ENSG00000113845	TIMMDC1	858.18	0.15	2.55E-04
ENSG00000114520	SNX4	515.61	0.14	2.56E-04
ENSG00000152422	XRCC4	217.64	0.23	2.56E-04
ENSG00000157978	LDLRAP1	3429.11	-0.17	2.58E-04
ENSG00000227920		296.35	-0.25	2.58E-04
ENSG00000156042	CFAP70	258.66	-0.34	2.59E-04
ENSG00000169245	CXCL10	459.52	1.65	2.59E-04
ENSG00000137757	CASP5	332.69	0.72	2.62E-04
ENSG00000181220	ZNF746	1760.72	-0.22	2.62E-04
ENSG00000230825	LINC03016	60.97	0.35	2.63E-04
ENSG00000156171	DRAM2	1276.01	0.15	2.68E-04
ENSG00000077684	JADE1	1911.76	-0.17	2.69E-04
ENSG00000131462	TUBG1	170.92	0.25	2.70E-04
ENSG00000181690	PLAG1	349.17	-0.17	2.73E-04
ENSG00000239480		16.86	-0.55	2.75E-04
ENSG00000175348	TMEM9B	841.94	0.13	2.76E-04
ENSG00000216813		21.41	0.36	2.76E-04
ENSG00000100897	DCAF11	2039.61	0.20	2.76E-04
ENSG00000136930	PSMB7	1168.24	0.15	2.79E-04
ENSG00000134318	ROCK2	1329.62	0.14	2.81E-04
ENSG00000154262	ABCA6	63.59	0.48	2.82E-04
ENSG00000169223	LMAN2	2468.61	0.14	2.82E-04

ENSG00000238057	ZEB2-AS1	64.18	0.43	2.83E-04
ENSG00000196562	SULF2	1732.05	-0.43	2.83E-04
ENSG00000135334	AKIRIN2	2107.86	0.21	2.85E-04
ENSG00000137135	ARHGEF39	16.06	0.54	2.90E-04
ENSG00000215252	GOLGA8B	1481.48	-0.16	2.91E-04
ENSG00000099326	MZF1	927.87	-0.12	2.92E-04
ENSG00000269404	SPIB	220.55	-0.24	2.92E-04
ENSG00000254786		22.15	-0.47	2.92E-04
ENSG00000105085	MED26	346.20	-0.14	2.97E-04
ENSG00000099875	MKNK2	7611.56	-0.22	2.98E-04
ENSG00000249437	NAIP	450.82	0.54	2.99E-04
ENSG00000175592	FOSL1	143.80	0.65	2.99E-04
ENSG00000123989	CHPF	210.83	0.21	3.04E-04
ENSG00000065320	NTN1	22.54	0.73	3.04E-04
ENSG00000099866	MADCAM1	27.76	-0.44	3.07E-04
ENSG00000203721	LINC00862	92.12	-0.42	3.08E-04
ENSG00000231389	HLA-DPA1	4601.83	0.24	3.12E-04
ENSG00000138018	SELENOI	848.54	0.13	3.12E-04
ENSG00000095383	TBC1D2	2169.64	0.38	3.13E-04
ENSG00000110063	DCPS	315.85	0.15	3.13E-04
ENSG00000136758	YME1L1	4153.99	0.08	3.16E-04
ENSG00000067057	PFKP	1578.74	0.15	3.16E-04
ENSG00000158480	SPATA2	539.07	-0.13	3.16E-04
ENSG00000226950	DANCR	320.24	-0.18	3.17E-04
ENSG00000275846		51.48	-0.36	3.17E-04
ENSG00000154451	GBP5	10739.30	0.71	3.22E-04
ENSG00000107819	SFXN3	1283.51	0.16	3.24E-04
ENSG00000092010	PSME1	3925.61	0.26	3.24E-04
ENSG00000236682	MAP3K2-DT	61.53	-0.42	3.28E-04
ENSG00000169375	SIN3A	3270.11	-0.15	3.28E-04
ENSG00000147044	CASK	1277.81	-0.12	3.29E-04
ENSG00000102794	ACOD1	322.85	1.84	3.31E-04
ENSG00000084652	TXLNA	1752.67	0.16	3.31E-04
ENSG00000124813	RUNX2	1221.51	-0.21	3.35E-04
ENSG00000280604		56.13	-0.46	3.36E-04
ENSG00000145882	PCYOX1L	828.03	-0.13	3.39E-04
ENSG00000164253	WDR41	600.10	0.13	3.39E-04
ENSG00000025434	NR1H3	347.33	0.35	3.41E-04
ENSG00000196262	PPIA	8756.59	0.18	3.41E-04
ENSG00000169026	SLC49A3	322.50	0.31	3.42E-04
ENSG00000090372	STRN4	2252.76	-0.15	3.43E-04
ENSG00000108829	LRRC59	1401.65	0.18	3.46E-04
ENSG00000211941	IGHV3-11	45.08	0.49	3.47E-04
ENSG00000143554	SLC27A3	532.00	0.36	3.48E-04
ENSG00000197536	IRF1-AS1	3549.35	0.23	3.48E-04
ENSG00000164305	CASP3	1072.04	0.16	3.50E-04
ENSG00000062282	DGAT2	2532.03	-0.55	3.51E-04
ENSG00000233875		102.81	0.47	3.51E-04
ENSG00000120805	ARL1	754.76	0.11	3.51E-04
ENSG00000214407	LINC02085	22.23	0.78	3.58E-04
ENSG00000084754	HADHA	2842.94	-0.15	3.59E-04
ENSG00000111199	TRPV4	26.73	0.59	3.63E-04

ENSG00000166579	NDEL1	4057.11	-0.27	3.65E-04
ENSG00000227502	MROCKI	356.72	1.39	3.67E-04
ENSG00000090266	NDUFB2	606.32	0.18	3.67E-04
ENSG00000087157	PGS1	4265.36	-0.28	3.67E-04
ENSG00000116977	LGALS8	2787.89	0.17	3.67E-04
ENSG00000132463	GRSF1	1512.65	0.12	3.68E-04
ENSG00000105341	DMAC2	461.87	0.14	3.68E-04
ENSG00000198712	MT-CO2	5721.73	-0.29	3.68E-04
ENSG00000163219	ARHGAP25	5123.87	-0.21	3.70E-04
ENSG00000141551	CSNK1D	6581.62	-0.13	3.70E-04
ENSG00000238063	LINC01685	17.59	-0.54	3.73E-04
ENSG00000134780	DAGLA	181.61	0.43	3.75E-04
ENSG00000110497	AMBRA1	1823.58	0.14	3.76E-04
ENSG00000181026	AEN	1031.48	0.19	3.77E-04
ENSG00000197992	CLEC9A	16.57	-0.92	3.77E-04
ENSG00000259959		155.12	-0.29	3.77E-04
ENSG00000179921	GPBAR1	160.36	0.58	3.77E-04
ENSG00000244682	FCGR2C	1245.51	0.57	3.77E-04
ENSG00000115234	SNX17	2333.42	0.11	3.77E-04
ENSG00000211668	IGLV2-11	65.89	0.57	3.78E-04
ENSG00000127837	AAMP	920.56	0.12	3.80E-04
ENSG00000230397	SPTLC1P1	96.68	-0.30	3.82E-04
ENSG00000170390	DCLK2	28.25	-0.43	3.83E-04
ENSG00000242299		72.43	-0.29	3.85E-04
ENSG00000091972	CD200	197.21	-0.28	3.85E-04
ENSG00000099860	GADD45B	5099.14	0.32	3.85E-04
ENSG00000148660	CAMK2G	2201.15	-0.29	3.87E-04
ENSG00000055163	CYFIP2	10311.76	-0.16	3.92E-04
ENSG00000167232	ZNF91	1764.44	-0.14	3.94E-04
ENSG00000168071	CCDC88B	6034.00	-0.25	3.97E-04
ENSG00000279394		150.61	-0.42	3.98E-04
ENSG00000175197	DDIT3	1315.76	0.25	3.99E-04
ENSG00000237441	RGL2	2749.65	-0.23	3.99E-04
ENSG00000166797	CIAO2A	630.80	0.20	4.01E-04
ENSG00000003056	M6PR	3859.61	0.27	4.04E-04
ENSG00000130175	PRKCSH	3237.57	-0.15	4.07E-04
ENSG00000176593		652.06	-0.15	4.07E-04
ENSG00000177721	ANXA2R	650.57	-0.18	4.09E-04
ENSG00000146067	FAM193B	3008.28	-0.13	4.09E-04
ENSG00000113716	HMGXB3	1775.66	0.17	4.09E-04
ENSG00000277053	GTF2IP1	135.63	-0.22	4.11E-04
ENSG00000198894	CIPC	491.44	-0.14	4.11E-04
ENSG00000110871	COQ5	308.15	0.17	4.12E-04
ENSG00000198417	MT1F	97.91	0.50	4.12E-04
ENSG00000250696		125.83	0.42	4.13E-04
ENSG00000253276	CCDC71L	1054.42	0.34	4.13E-04
ENSG00000106479	ZNF862	1678.49	-0.13	4.13E-04
ENSG00000134539	KLRD1	3215.69	0.28	4.14E-04
ENSG00000128524	ATP6V1F	1759.40	0.29	4.16E-04
ENSG00000158710	TAGLN2	7693.58	-0.26	4.16E-04
ENSG00000204856	FAM216A	220.33	-0.18	4.17E-04
ENSG00000091490	SEL1L3	2152.74	-0.16	4.19E-04

ENSG00000109805	NCAPG	114.47	0.44	4.22E-04
ENSG00000174123	TLR10	312.90	-0.36	4.22E-04
ENSG00000087903	RFX2	464.39	-0.42	4.22E-04
ENSG00000100426	ZBED4	1400.90	-0.12	4.22E-04
ENSG00000125170	DOK4	71.23	-0.45	4.23E-04
ENSG00000146858	ZC3HAV1L	73.10	0.40	4.25E-04
ENSG00000110756	HPS5	1338.81	0.23	4.25E-04
ENSG00000156650	KAT6B	1471.98	-0.14	4.26E-04
ENSG00000061936	SFSWAP	2406.36	-0.08	4.27E-04
ENSG00000155368	DBI	391.14	0.19	4.27E-04
ENSG00000122705	CLTA	1627.05	0.27	4.30E-04
ENSG00000102053	ZC3H12B	85.26	-0.26	4.31E-04
ENSG00000248593	DSTNP2	64.98	0.23	4.36E-04
ENSG00000119041	GTF3C3	753.24	0.11	4.36E-04
ENSG00000005206	SPPL2B	1339.16	-0.19	4.36E-04
ENSG00000103343	ZNF174	248.82	-0.14	4.36E-04
ENSG00000188612	SUMO2	2107.21	0.14	4.36E-04
ENSG00000120539	MASTL	658.14	0.17	4.36E-04
ENSG00000275126	H4C13	141.96	0.41	4.37E-04
ENSG00000198804	MT-CO1	67467.11	-0.26	4.38E-04
ENSG00000183978	COA3	280.27	0.20	4.38E-04
ENSG00000156500	PABIR3	294.52	0.15	4.41E-04
ENSG00000029153	ARNTL2	150.82	0.46	4.44E-04
ENSG00000260267		768.71	-0.15	4.44E-04
ENSG00000171606	ZNF274	2006.75	-0.15	4.45E-04
ENSG00000183323	CCDC125	630.10	-0.25	4.48E-04
ENSG00000136856	SLC2A8	131.42	0.28	4.49E-04
ENSG00000248527	MTATP6P1	465.12	-0.36	4.51E-04
ENSG00000215421	ZNF407	1780.03	-0.11	4.51E-04
ENSG00000241868	RN7SL434P	34.63	-0.32	4.53E-04
ENSG00000166262	FAM227B	114.83	-0.19	4.55E-04
ENSG00000126453	BCL2L12	194.67	0.20	4.58E-04
ENSG00000229816	DDX50P1	116.04	-0.20	4.58E-04
ENSG00000141905	NFIC	1344.14	-0.21	4.61E-04
ENSG00000279207		285.85	-0.16	4.63E-04
ENSG00000089041	P2RX7	2270.86	0.56	4.63E-04
ENSG00000184898	RBM43	450.75	0.23	4.63E-04
ENSG00000136738	STAM	889.05	-0.12	4.64E-04
ENSG00000011198	ABHD5	984.01	-0.45	4.65E-04
ENSG00000023318	ERP44	1718.00	0.17	4.65E-04
ENSG00000135094	SDS	733.90	1.16	4.68E-04
ENSG00000178980	SELENOW	943.72	0.16	4.69E-04
ENSG00000135801	TAF5L	665.10	0.10	4.70E-04
ENSG00000175215	CTDSP2	6076.17	-0.13	4.70E-04
ENSG00000065413	ANKRD44	8739.18	-0.17	4.70E-04
ENSG00000170802	FOXN2	2188.24	0.19	4.71E-04
ENSG00000114626	ABTB1	7054.20	-0.31	4.72E-04
ENSG00000134574	DDB2	724.40	0.21	4.73E-04
ENSG00000119392	GLE1	1085.71	0.09	4.73E-04
ENSG00000063241	ISOC2	146.53	0.26	4.78E-04
ENSG00000118705	RPN2	2338.22	0.14	4.80E-04
ENSG00000136521	NDUFB5	606.89	0.12	4.80E-04

ENSG00000122122	SASH3	6173.66	0.16	4.82E-04
ENSG00000005059	MCUB	1494.91	0.13	4.84E-04
ENSG00000170234	PWWP2A	1031.35	-0.09	4.86E-04
ENSG00000074416	MGLL	2532.07	0.56	4.87E-04
ENSG00000130300	PLVAP	186.26	-0.61	4.88E-04
ENSG00000126698	DNAJC8	1773.09	0.16	4.90E-04
ENSG00000101000	PROCR	57.47	0.50	4.92E-04
ENSG00000069966	GNB5	1550.89	-0.15	5.08E-04
ENSG00000005700	IBTK	1453.95	0.17	5.09E-04
ENSG00000260461		175.77	-0.27	5.09E-04
ENSG00000141971	MVB12A	462.05	0.13	5.10E-04
ENSG00000146830	GIGYF1	3464.59	-0.12	5.12E-04
ENSG00000198972	MIRLET7E	15.74	-0.74	5.12E-04
ENSG00000081665	ZNF506	1940.37	-0.14	5.12E-04
ENSG00000234432	LINC02983	26.40	-0.41	5.13E-04
ENSG00000168918	INPP5D	8304.20	-0.16	5.13E-04
ENSG00000101447	FAM83D	56.73	0.30	5.15E-04
ENSG00000151116	UEVLD	511.22	0.19	5.16E-04
ENSG00000165650	PDZD8	2015.31	-0.24	5.20E-04
ENSG00000256356	HSPA8P5	26.51	0.52	5.20E-04
ENSG00000112293	GPLD1	51.87	-0.32	5.22E-04
ENSG00000236008	LINC01814	30.56	-0.49	5.22E-04
ENSG00000134716	CYP2J2	15.73	0.56	5.25E-04
ENSG00000143486	EIF2D	846.04	-0.13	5.28E-04
ENSG00000132470	ITGB4	28.82	-0.75	5.28E-04
ENSG00000105926	PALS2	1106.32	-0.20	5.33E-04
ENSG00000138663	COPS4	590.06	0.15	5.33E-04
ENSG00000184840	TMED9	1610.63	0.19	5.38E-04
ENSG00000006625	GGCT	87.77	0.21	5.39E-04
ENSG00000254858	MPV17L2	90.49	0.21	5.40E-04
ENSG00000130706	ADRM1	1469.95	0.17	5.45E-04
ENSG00000114054	PCCB	400.12	0.16	5.45E-04
ENSG00000035115	SH3YL1	1179.33	-0.12	5.48E-04
ENSG00000163016	ALMS1P1	23.97	0.63	5.51E-04
ENSG00000163251	FZD5	147.35	0.28	5.53E-04
ENSG00000110811	P3H3	59.41	-0.37	5.56E-04
ENSG00000112701	SENP6	3809.70	-0.14	5.64E-04
ENSG00000273361		29.79	-0.41	5.65E-04
ENSG00000196954	CASP4	4458.50	0.25	5.68E-04
ENSG00000221265	MIR1255A	19.54	-0.42	5.69E-04
ENSG00000228835		48.91	-0.35	5.69E-04
ENSG00000215388	ACTG1P3	118.68	-0.18	5.70E-04
ENSG00000136783	NIPSNAP3A	292.98	0.23	5.70E-04
ENSG00000078687	TNRC6C	2579.21	-0.13	5.70E-04
ENSG00000235321		15.08	0.71	5.70E-04
ENSG00000196684	HSH2D	3521.90	0.30	5.71E-04
ENSG00000105499	PLA2G4C	285.73	0.48	5.74E-04
ENSG00000275183	LENG9	163.87	0.28	5.76E-04
ENSG00000173198	CYSLTR1	811.68	0.27	5.76E-04
ENSG00000141101	NOB1	669.49	0.16	5.80E-04
ENSG00000185418	TARS3	691.01	-0.13	5.86E-04
ENSG00000273797		238.94	-0.30	5.89E-04

ENSG00000279722		136.97	-0.24	5.89E-04
ENSG00000181722	ZBTB20	2961.45	-0.15	5.92E-04
ENSG00000252498	RNU6-1016P	98.30	-0.27	5.95E-04
ENSG00000129472	RAB2B	1241.42	-0.37	6.01E-04
ENSG00000183734	ASCL2	134.79	0.43	6.02E-04
ENSG00000147202	DIAPH2	1081.65	0.21	6.03E-04
ENSG00000279913		151.77	0.37	6.03E-04
ENSG00000121413	ZSCAN18	1157.40	-0.17	6.03E-04
ENSG00000119203	CPSF3	429.30	0.13	6.07E-04
ENSG00000102390	PBDC1	243.38	0.19	6.07E-04
ENSG00000198892	SHISA4	117.51	-0.54	6.07E-04
ENSG00000078114	NEBL	74.76	-0.64	6.10E-04
ENSG00000088992	TESC	1066.97	-0.54	6.11E-04
ENSG00000198920	KIAA0753	551.94	-0.17	6.12E-04
ENSG00000132305	IMMT	1301.22	0.12	6.12E-04
ENSG00000184106	TREML3P	111.57	-0.53	6.13E-04
ENSG00000237181	PRKAR1B-AS1	186.38	0.29	6.16E-04
ENSG00000068697	LAPTM4A	2083.41	0.20	6.17E-04
ENSG00000278896		70.73	-0.30	6.17E-04
ENSG00000152439	ZNF773	292.59	-0.18	6.17E-04
ENSG00000184232	OAF	257.08	0.28	6.20E-04
ENSG00000184900	SUMO3	987.23	0.28	6.20E-04
ENSG00000119655	NPC2	2247.74	0.32	6.20E-04
ENSG00000115129	TP53I3	84.42	0.42	6.20E-04
ENSG00000100353	EIF3D	3511.06	-0.09	6.22E-04
ENSG00000186063	AIDA	1650.17	0.14	6.27E-04
ENSG00000169258	GPRIN1	37.11	0.35	6.28E-04
ENSG00000134061	CD180	296.20	0.44	6.29E-04
ENSG00000168288	MMADHC	1667.04	0.13	6.29E-04
ENSG00000211890	IGHA2	704.71	0.41	6.36E-04
ENSG00000012660	ELOVL5	3499.64	-0.17	6.37E-04
ENSG00000241489		146.40	-0.21	6.45E-04
ENSG00000176083	ZNF683	251.10	0.39	6.48E-04
ENSG00000258572		13.74	0.53	6.50E-04
ENSG00000115902	SLC1A4	647.56	0.42	6.53E-04
ENSG00000248208	WDR45P1	27.87	0.84	6.53E-04
ENSG00000250900	TRIM7-AS1	16.80	-0.41	6.55E-04
ENSG00000240230	COX19	1110.73	-0.13	6.57E-04
ENSG00000181894	ZNF329	420.31	-0.12	6.57E-04
ENSG00000198771	RCSD1	5826.38	-0.18	6.62E-04
ENSG00000277301		123.15	-0.33	6.65E-04
ENSG00000234076	TPRG1-AS1	52.73	0.96	6.65E-04
ENSG00000182578	CSF1R	3104.86	0.45	6.66E-04
ENSG00000215458	AATBC	181.96	0.60	6.73E-04
ENSG00000146826	TRAPPC14	1487.11	-0.17	6.81E-04
ENSG00000263335		308.29	-0.26	6.84E-04
ENSG00000101213	PTK6	26.41	0.47	6.86E-04
ENSG00000124299	PEPD	834.62	0.23	6.86E-04
ENSG00000109046	WSB1	7271.96	0.36	6.87E-04
ENSG00000130309	COLGALT1	2669.74	0.18	6.90E-04
ENSG00000132716	DCAF8	2488.68	-0.07	6.95E-04
ENSG00000105058	FAM32A	1117.35	0.12	6.95E-04

ENSG00000082701	GSK3B	2196.03	-0.14	6.95E-04
ENSG00000279108		51.19	-0.33	7.00E-04
ENSG00000198924	DCLRE1A	216.83	0.20	7.00E-04
ENSG00000068912	ERLEC1	751.84	0.13	7.01E-04
ENSG00000105983	LMBR1	1846.96	-0.09	7.02E-04
ENSG00000123384	LRP1	4290.34	0.41	7.02E-04
ENSG00000213445	SIPA1	7424.65	-0.16	7.02E-04
ENSG00000155366	RHOC	496.25	0.30	7.03E-04
ENSG00000125870	SNRPB2	617.93	0.16	7.04E-04
ENSG00000158470	B4GALT5	4110.43	0.37	7.05E-04
ENSG00000211625	IGKV3D-20	17.30	0.77	7.05E-04
ENSG00000113368	LMNB1	1750.89	0.29	7.06E-04
ENSG00000148200	NR6A1	267.56	-0.42	7.06E-04
ENSG00000169019	COMMD8	412.73	0.20	7.08E-04
ENSG00000155115	GTF3C6	454.66	0.27	7.10E-04
ENSG00000275894		36.12	0.49	7.10E-04
ENSG00000272933	TRIM8-DT	106.72	-0.25	7.13E-04
ENSG00000108622	ICAM2	1334.73	0.17	7.14E-04
ENSG00000172159	FRMD3	187.72	0.53	7.16E-04
ENSG00000150782	IL18	235.07	0.40	7.16E-04
ENSG00000130529	TRPM4	62.47	0.55	7.16E-04
ENSG00000169155	ZBTB43	1022.01	0.14	7.16E-04
ENSG00000163661	PTX3	616.48	0.92	7.20E-04
ENSG00000110218	PANX1	444.92	0.23	7.20E-04
ENSG00000103042	SLC38A7	555.56	0.28	7.22E-04
ENSG00000111678	C12orf57	1472.06	-0.24	7.25E-04
ENSG00000158869	FCER1G	3649.34	0.38	7.26E-04
ENSG00000137502	RAB30	1328.46	-0.19	7.27E-04
ENSG00000100281	HMGXB4	735.15	0.10	7.28E-04
ENSG00000158482	SNX29P1	35.56	-0.36	7.29E-04
ENSG00000205659	LIN52	248.14	0.13	7.29E-04
ENSG00000174021	GNG5	688.49	0.22	7.32E-04
ENSG00000159023	EPB41	17966.51	-0.32	7.32E-04
ENSG00000143390	RFX5	1637.87	0.13	7.33E-04
ENSG00000166295	ANAPC16	2977.73	-0.10	7.34E-04
ENSG00000091039	OSBPL8	8629.53	-0.21	7.47E-04
ENSG00000255801		243.28	-0.57	7.48E-04
ENSG00000110315	RNF141	1314.58	-0.31	7.48E-04
ENSG00000211955	IGHV3-33	116.84	0.35	7.50E-04
ENSG00000275379	H3C11	347.04	0.29	7.53E-04
ENSG00000176871	WSB2	1314.18	0.25	7.53E-04
ENSG00000062598	ELMO2	1809.50	0.11	7.56E-04
ENSG00000137814	HAUS2	492.65	0.11	7.56E-04
ENSG00000117362	APH1A	2356.78	0.13	7.59E-04
ENSG00000178935	ZNF552	442.32	-0.20	7.59E-04
ENSG00000164109	MAD2L1	118.18	0.22	7.65E-04
ENSG00000141522	ARHGDI A	5588.67	0.14	7.74E-04
ENSG00000279873	LINC01126	378.24	-0.24	7.76E-04
ENSG00000188785	ZNF548	833.94	-0.11	7.83E-04
ENSG00000055917	PUM2	6068.27	-0.10	7.85E-04
ENSG00000276097		17.72	-0.51	7.86E-04
ENSG00000105676	ARMC6	424.85	0.16	7.87E-04

ENSG00000183828	NUDT14	176.20	0.23	7.92E-04
ENSG00000177842	ZNF620	111.16	0.21	7.92E-04
ENSG00000165288	BRWD3	2549.86	-0.18	7.97E-04
ENSG00000227009	FUNDC2P4	15.54	0.54	8.06E-04
ENSG00000251661		267.23	0.22	8.06E-04
ENSG00000245904	BTG1-DT	247.17	-0.20	8.08E-04
ENSG00000158163	DZIP1L	41.69	0.60	8.08E-04
ENSG00000067606	PRKCZ	585.75	-0.18	8.08E-04
ENSG00000164821	DEFA4	57.87	0.62	8.09E-04
ENSG00000133808		180.72	-0.49	8.11E-04
ENSG00000170190	SLC16A5	724.03	-0.30	8.11E-04
ENSG00000181619	GPR135	130.03	-0.21	8.12E-04
ENSG00000198786	MT-ND5	8985.11	-0.33	8.12E-04
ENSG00000092847	AGO1	2516.78	-0.16	8.13E-04
ENSG00000244313		135.39	-0.17	8.13E-04
ENSG00000108106	UBE2S	597.42	0.22	8.14E-04
ENSG00000259416	LINC02883	37.01	-0.42	8.15E-04
ENSG00000132963	POMP	919.79	0.22	8.15E-04
ENSG00000155016	CYP2U1	272.51	-0.14	8.17E-04
ENSG00000136244	IL6	4881.06	1.10	8.21E-04
ENSG00000146215	CRIP3	42.85	-0.32	8.24E-04
ENSG00000144635	DYNC1LI1	1276.57	-0.16	8.31E-04
ENSG00000141682	PMAIP1	849.03	0.27	8.31E-04
ENSG00000105514	RAB3D	2164.20	-0.37	8.32E-04
ENSG00000162461	SLC25A34	120.75	0.28	8.32E-04
ENSG00000160213	CSTB	2794.80	0.41	8.33E-04
ENSG00000167130	DOLPP1	170.19	0.15	8.38E-04
ENSG00000182141	ZNF708	1066.53	-0.15	8.38E-04
ENSG00000280407		427.78	0.45	8.39E-04
ENSG00000170175	CHRNA1	147.35	0.21	8.40E-04
ENSG00000133488	SEC14L4	34.52	-0.71	8.40E-04
ENSG00000020577	SAMD4A	186.57	0.44	8.43E-04
ENSG00000213600		290.15	-0.28	8.45E-04
ENSG00000106772	PRUNE2	37.06	0.71	8.51E-04
ENSG00000165609	NUDT5	839.74	-0.13	8.52E-04
ENSG00000240563	L1TD1	15.98	0.75	8.55E-04
ENSG00000214194	SMIM30	273.57	0.22	8.55E-04
ENSG00000169762	TAPT1	1256.94	-0.11	8.55E-04
ENSG00000136247	ZDHHC4	400.50	0.12	8.55E-04
ENSG00000211652	IGLV7-43	22.73	0.75	8.61E-04
ENSG00000254826		239.59	-0.62	8.64E-04
ENSG00000144591	GMPPA	573.40	0.13	8.66E-04
ENSG00000169228	RAB24	611.93	0.33	8.69E-04
ENSG00000268743		45.04	-0.30	8.72E-04
ENSG00000130414	NDUFA10	2111.85	-0.07	8.74E-04
ENSG00000180398	MCFD2	1103.26	0.10	8.80E-04
ENSG00000161640	SIGLEC11	58.39	0.63	8.80E-04
ENSG00000135686	KLHL36	3679.85	-0.10	8.84E-04
ENSG00000135414	GDF11	442.45	-0.13	8.85E-04
ENSG00000125844	RRBP1	1285.22	0.19	8.85E-04
ENSG00000171202	TMEM126A	232.90	0.22	8.85E-04
ENSG00000143162	CREG1	2535.33	0.29	8.96E-04

ENSG00000128245	YWHAH	942.50	0.18	9.05E-04
ENSG00000172732	MUS81	1123.31	0.10	9.13E-04
ENSG00000107796	ACTA2	149.50	0.27	9.16E-04
ENSG00000272325	NUDT3	1611.41	-0.19	9.16E-04
ENSG00000225101	OR52K3P	259.90	0.55	9.17E-04
ENSG00000100225	FBXO7	8889.83	-0.40	9.18E-04
ENSG00000118495	PLAGL1	760.91	-0.23	9.21E-04
ENSG00000077380	DYNC1I2	1174.94	0.20	9.23E-04
ENSG00000140398	NEIL1	318.10	-0.32	9.27E-04
ENSG00000079785	DDX1	1210.60	0.12	9.30E-04
ENSG00000119772	DNMT3A	2523.02	-0.13	9.32E-04
ENSG00000224295	OLFM5P	25.26	0.50	9.32E-04
ENSG00000163346	PBXIP1	5810.69	-0.14	9.32E-04
ENSG00000196074	SYCP2	248.45	-0.22	9.32E-04
ENSG00000259332	ST20-MTHFS	68.59	-0.40	9.33E-04
ENSG00000265625		239.86	-0.27	9.35E-04
ENSG00000249763		10.53	0.68	9.37E-04
ENSG00000110046	ATG2A	5013.26	-0.37	9.43E-04
ENSG00000159884	CCDC107	280.53	0.19	9.43E-04
ENSG00000171992	SYNPO	136.45	-0.42	9.44E-04
ENSG00000140406	TLNRD1	1838.41	0.24	9.47E-04
ENSG00000224373	IGHV4-59	79.34	0.40	9.50E-04
ENSG00000168899	VAMP5	495.67	0.45	9.50E-04
ENSG00000168763	CNNM3	1443.18	-0.13	9.56E-04
ENSG00000211663	IGLV3-19	72.74	0.55	9.56E-04
ENSG00000265828	MIR3939	47.99	-0.37	9.56E-04
ENSG00000280332		173.26	-0.26	9.56E-04
ENSG00000169248	CXCL11	25.91	1.75	9.59E-04
ENSG00000142039	CCDC97	1469.61	0.16	9.59E-04
ENSG00000158122	PRXL2C	301.53	0.18	9.60E-04
ENSG00000154589	LY96	464.33	0.36	9.65E-04
ENSG00000163754	GYG1	988.59	0.16	9.66E-04
ENSG00000166710	B2M	125025.04	0.22	9.71E-04
ENSG00000072506	HSD17B10	473.55	0.16	9.71E-04
ENSG00000243290	IGKV1-12	40.76	0.52	9.71E-04
ENSG00000109445	ZNF330	587.28	0.14	9.71E-04
ENSG00000198740	ZNF652	2306.95	-0.20	9.71E-04
ENSG00000112130	RNF8	362.78	0.15	9.72E-04
ENSG00000133731	IMPA1	712.85	0.14	9.82E-04
ENSG00000242372	EIF6	814.44	0.22	9.86E-04
ENSG00000248429	GASK1B-AS1	91.10	0.45	9.87E-04
ENSG00000175166	PSMD2	2211.72	0.13	1.00E-03
ENSG00000260086		37.11	-0.51	1.00E-03
ENSG00000211669	IGLV3-10	22.30	0.67	1.01E-03
ENSG00000134744	TUT4	3807.30	-0.17	1.02E-03
ENSG00000213123	DYNLT2B	28.71	0.36	1.02E-03
ENSG00000224093	BCAR3-AS1	22.84	-0.47	1.02E-03
ENSG00000146859	TMEM140	3945.48	0.29	1.02E-03
ENSG00000137261	KIAA0319	130.92	0.42	1.03E-03
ENSG00000253491	IGHVII-30-1	7.51	-0.91	1.04E-03
ENSG00000132824	SERINC3	3266.33	-0.12	1.04E-03
ENSG00000188227	ZNF793	288.75	-0.17	1.04E-03

ENSG00000174720	LARP7	1038.13	0.14	1.05E-03
ENSG00000124228	DDX27	1315.30	-0.10	1.05E-03
ENSG00000237398	HLA-DPA3	11.87	0.94	1.06E-03
ENSG00000279192	PWAR5	562.54	-0.17	1.07E-03
ENSG00000229106	BTBD6P1	99.19	-0.27	1.07E-03
ENSG00000134697	GNL2	879.05	0.17	1.07E-03
ENSG00000131037	EPS8L1	28.76	0.54	1.08E-03
ENSG00000228403		71.27	-0.39	1.08E-03
ENSG00000163751	CPA3	143.72	-0.30	1.08E-03
ENSG00000137414	FAM8A1	2467.90	0.33	1.09E-03
ENSG00000167434	CA4	278.79	-0.81	1.09E-03
ENSG00000176170	SPHK1	1004.01	0.64	1.10E-03
ENSG00000133816	MICAL2	3571.81	-0.33	1.10E-03
ENSG00000113273	ARSB	727.42	0.24	1.10E-03
ENSG00000234518	PTGES3P1	286.09	0.35	1.10E-03
ENSG00000177570	SAMD12	215.51	-0.17	1.11E-03
ENSG00000204351	SKIV2L	1874.49	-0.15	1.11E-03
ENSG00000167208	SNX20	3191.77	0.20	1.11E-03
ENSG00000268575		383.26	-0.14	1.11E-03
ENSG00000259225	LINC02345	11.45	-0.77	1.11E-03
ENSG00000268713		106.96	-0.20	1.11E-03
ENSG00000099910	KLHL22	1030.22	-0.11	1.11E-03
ENSG00000270164	LINC01480	41.42	-0.29	1.11E-03
ENSG00000273437		88.93	-0.23	1.11E-03
ENSG00000165821	SALL2	102.49	-0.20	1.12E-03
ENSG00000167325	RRM1	538.33	0.14	1.13E-03
ENSG00000113595	TRIM23	986.00	-0.14	1.13E-03
ENSG00000151725	CENPU	110.21	0.33	1.13E-03
ENSG00000280153		329.69	-0.29	1.13E-03
ENSG00000152527	PLEKHH2	55.40	-0.42	1.15E-03
ENSG00000079215	SLC1A3	209.70	0.78	1.15E-03
ENSG00000268154		76.80	-0.25	1.15E-03
ENSG00000256229	ZNF486	278.48	-0.22	1.16E-03
ENSG00000109920	FNBP4	3603.83	-0.07	1.16E-03
ENSG00000211976	IGHV3-73	24.64	0.69	1.16E-03
ENSG00000184613	NELL2	2849.61	-0.20	1.16E-03
ENSG00000197880	MDS2	64.33	-0.35	1.16E-03
ENSG00000263327	TAPT1-AS1	253.45	-0.23	1.16E-03
ENSG00000272316		268.82	-0.17	1.17E-03
ENSG00000177169	ULK1	2086.71	-0.29	1.17E-03
ENSG00000125166	GOT2	581.80	0.11	1.18E-03
ENSG00000065883	CDK13	3518.10	-0.09	1.18E-03
ENSG00000162366	PDZK1IP1	966.50	-0.63	1.18E-03
ENSG00000105173	CCNE1	40.06	0.29	1.18E-03
ENSG00000260977		29.63	-0.34	1.19E-03
ENSG00000147905	ZCCHC7	1576.55	-0.12	1.19E-03
ENSG00000116906	GNPAT	918.64	0.08	1.19E-03
ENSG00000126215	XRCC3	236.90	0.16	1.19E-03
ENSG00000155629	PIK3AP1	11496.52	0.40	1.20E-03
ENSG00000145337	PYURF	559.16	0.16	1.20E-03
ENSG00000162654	GBP4	5320.74	0.48	1.20E-03
ENSG00000110777	POU2AF1	934.79	-0.22	1.21E-03

ENSG00000150672	DLG2	86.62	-0.22	1.21E-03
ENSG00000185721	DRG1	701.75	0.12	1.21E-03
ENSG00000236514		34.47	-0.32	1.21E-03
ENSG00000134802	SLC43A3	2201.23	0.68	1.22E-03
ENSG00000152127	MGAT5	3144.76	-0.18	1.22E-03
ENSG00000144354	CDCA7	70.27	0.31	1.22E-03
ENSG00000140543	DET1	302.42	-0.16	1.22E-03
ENSG00000178538	CA8	46.40	-0.41	1.22E-03
ENSG00000141401	IMPA2	548.59	-0.63	1.22E-03
ENSG00000155561	NUP205	1744.50	0.11	1.22E-03
ENSG00000100027	YPEL1	664.63	0.16	1.22E-03
ENSG00000230753	ZNF341-AS1	12.86	0.79	1.22E-03
ENSG00000160392	C19orf47	360.88	0.10	1.22E-03
ENSG00000168887	C2orf68	1790.53	-0.11	1.22E-03
ENSG00000213197	NUDCP1	9.48	0.92	1.23E-03
ENSG00000127824	TUBA4A	1828.20	-0.27	1.23E-03
ENSG00000198223	CSF2RA	1425.24	-0.27	1.23E-03
ENSG00000148483	TMEM236	24.21	-0.40	1.23E-03
ENSG00000157483	MYO1E	690.89	0.34	1.23E-03
ENSG00000162434	JAK1	12759.84	-0.11	1.23E-03
ENSG00000171766	GATM	75.95	-0.21	1.24E-03
ENSG00000170298	LGALS9B	27.33	0.55	1.24E-03
ENSG00000126822	PLEKHG3	3007.14	-0.41	1.24E-03
ENSG00000279619		14.62	-0.47	1.24E-03
ENSG00000167114	SLC27A4	407.47	0.16	1.25E-03
ENSG00000168405	CMAHP	807.57	0.16	1.25E-03
ENSG00000240875	LINC00886	69.21	-0.23	1.26E-03
ENSG00000177465	ACOT4	28.41	0.37	1.27E-03
ENSG00000117153	KLHL12	974.16	0.12	1.29E-03
ENSG00000106105	GARS1	1376.68	0.14	1.29E-03
ENSG00000099290	WASHC2A	1656.07	0.16	1.30E-03
ENSG00000140153	WDR20	1281.75	-0.09	1.30E-03
ENSG00000168970	JMJD7-PLA2G4B	719.11	-0.16	1.31E-03
ENSG00000100298	APOBEC3H	77.70	0.40	1.33E-03
ENSG00000163395	IGFN1	106.53	1.55	1.34E-03
ENSG00000152253	SPC25	24.03	0.53	1.34E-03
ENSG00000161021	MAML1	3589.83	-0.10	1.34E-03
ENSG00000182885	ADGRG3	5095.02	-0.38	1.35E-03
ENSG00000164989	CCDC171	101.85	-0.19	1.35E-03
ENSG00000065268	WDR18	432.69	0.17	1.35E-03
ENSG00000103064	SLC7A6	2913.26	-0.13	1.35E-03
ENSG00000237596		14.91	1.06	1.35E-03
ENSG00000232869	TRBV29-1	111.91	-0.21	1.36E-03
ENSG00000136828	RALGPS1	442.21	-0.25	1.36E-03
ENSG00000198763	MT-ND2	6601.57	-0.30	1.36E-03
ENSG00000182308	DCAF4L1	45.28	-0.28	1.37E-03
ENSG00000181097	LINC02878	83.09	-0.20	1.38E-03
ENSG00000100060	MFNG	2978.27	-0.16	1.38E-03
ENSG00000266256	LINC00683	6.47	-0.99	1.38E-03
ENSG00000205808	PLPP6	450.45	-0.15	1.38E-03
ENSG00000279369		1290.70	-0.15	1.38E-03
ENSG00000097021	ACOT7	124.51	0.27	1.38E-03

ENSG00000162894	FCMR	5772.24	-0.14	1.38E-03
ENSG00000155393	HEATR3	596.38	0.14	1.38E-03
ENSG00000133131	MORC4	199.74	-0.16	1.38E-03
ENSG00000273828		37.16	-0.37	1.38E-03
ENSG00000257053		16.95	1.07	1.41E-03
ENSG00000125877	ITPA	518.99	0.13	1.41E-03
ENSG00000142959	BEST4	32.62	-0.30	1.41E-03
ENSG00000163545	NUAK2	1915.30	-0.32	1.42E-03
ENSG00000139737	SLAIN1	618.65	-0.10	1.42E-03
ENSG00000160877	NACC1	1486.19	0.23	1.43E-03
ENSG00000113712	CSNK1A1	4169.28	0.09	1.44E-03
ENSG00000242779	ZNF702P	108.64	0.27	1.44E-03
ENSG00000238966		82.12	-0.25	1.44E-03
ENSG00000104976	SNAPC2	225.48	0.18	1.44E-03
ENSG00000134531	EMP1	962.62	0.84	1.44E-03
ENSG00000148400	NOTCH1	7406.82	-0.22	1.44E-03
ENSG00000134684	YARS1	1617.87	0.17	1.44E-03
ENSG00000100348	TXN2	752.15	0.13	1.44E-03
ENSG00000214067		58.16	-0.34	1.45E-03
ENSG00000128039	SRD5A3	172.44	0.22	1.45E-03
ENSG00000146733	PSPH	98.94	0.20	1.46E-03
ENSG00000168016	TRANK1	9140.15	0.23	1.46E-03
ENSG00000068831	RASGRP2	6522.55	-0.15	1.47E-03
ENSG00000235954	TTC28-AS1	444.35	-0.11	1.47E-03
ENSG00000269473	ZNF132-DT	27.85	-0.30	1.47E-03
ENSG00000225470	JPX	1076.34	0.15	1.48E-03
ENSG00000197467	COL13A1	728.07	-1.13	1.48E-03
ENSG00000221957	KIR2DS4	64.77	0.44	1.49E-03
ENSG00000011523	CEP68	1289.15	-0.16	1.50E-03
ENSG00000148110	MFS14B	1549.39	0.13	1.50E-03
ENSG00000248477	NAIP3	25.48	0.55	1.50E-03
ENSG00000164885	CDK5	138.42	0.21	1.50E-03
ENSG00000144724	PTPRG	13.49	-0.54	1.50E-03
ENSG00000137842	TMEM62	564.13	0.25	1.52E-03
ENSG00000100219	XBP1	3665.04	0.23	1.52E-03
ENSG00000158186	MRAS	543.95	0.49	1.52E-03
ENSG00000232381	OR52U1P	34.03	0.41	1.53E-03
ENSG00000154889	MPPE1	1498.60	-0.29	1.53E-03
ENSG00000078081	LAMP3	573.27	0.61	1.53E-03
ENSG00000261061		25.82	0.46	1.53E-03
ENSG00000082213	C5orf22	514.94	0.15	1.54E-03
ENSG00000134121	CHL1	21.92	-0.38	1.54E-03
ENSG00000117020	AKT3	2502.78	-0.14	1.54E-03
ENSG00000267731		261.88	-0.18	1.55E-03
ENSG00000248969		44.85	-0.33	1.55E-03
ENSG00000238105	GOLGA2P5	749.04	-0.17	1.56E-03
ENSG00000167770	OTUB1	1345.88	0.12	1.56E-03
ENSG00000174791	RIN1	142.59	0.46	1.58E-03
ENSG00000165914	TTC7B	246.93	0.28	1.58E-03
ENSG00000188483	IER5L	325.26	-0.32	1.58E-03
ENSG00000141736	ERBB2	253.88	0.29	1.58E-03
ENSG00000012223	LTF	1078.62	0.38	1.59E-03

ENSG00000156313	RPGR	641.48	-0.24	1.59E-03
ENSG00000166484	MAPK7	549.59	0.20	1.59E-03
ENSG00000106733	NMRK1	1239.53	0.13	1.59E-03
ENSG00000165521	EML5	312.51	-0.18	1.59E-03
ENSG00000117308	GALE	218.57	0.19	1.59E-03
ENSG00000205300		8.46	1.37	1.60E-03
ENSG00000134245	WNT2B	52.49	-0.26	1.60E-03
ENSG00000150045	KLRF1	451.14	0.36	1.60E-03
ENSG00000140932	CMTM2	564.74	-0.54	1.60E-03
ENSG00000145545	SRD5A1	314.45	0.14	1.60E-03
ENSG00000104951	IL4I1	839.69	0.92	1.61E-03
ENSG00000129682	FGF13	51.69	0.60	1.61E-03
ENSG00000188822	CNR2	334.49	-0.27	1.61E-03
ENSG00000168916	ZNF608	78.01	-0.35	1.61E-03
ENSG00000134333	LDHA	5265.91	0.21	1.62E-03
ENSG00000126861	OMG	57.98	-0.33	1.62E-03
ENSG00000166888	STAT6	10410.74	-0.12	1.63E-03
ENSG00000241939	RN7SL517P	161.74	-0.26	1.63E-03
ENSG00000151491	EPS8	110.16	0.32	1.63E-03
ENSG00000177103	DSCAML1	32.10	-0.42	1.63E-03
ENSG00000181143	MUC16	16.44	-0.50	1.63E-03
ENSG00000153560	UBP1	2277.52	0.07	1.64E-03
ENSG00000280037		128.93	-0.23	1.64E-03
ENSG00000162521	RBBP4	3431.61	0.06	1.66E-03
ENSG00000235314	LINC00957	200.06	-0.23	1.67E-03
ENSG00000174579	MSL2	3212.41	-0.15	1.67E-03
ENSG00000139718	SETD1B	4424.49	-0.15	1.67E-03
ENSG00000234066	TAS2R62P	18.05	-0.44	1.68E-03
ENSG00000086061	DNAJA1	3250.14	0.25	1.69E-03
ENSG00000174885	NLRP6	936.39	-0.47	1.69E-03
ENSG00000236438	FAM157A	598.22	-0.59	1.70E-03
ENSG00000254985	RSF1-IT2	81.73	-0.19	1.71E-03
ENSG00000164073	MFSD8	694.43	-0.09	1.71E-03
ENSG00000197766	CFD	1031.07	0.37	1.71E-03
ENSG00000129007	CALML4	40.74	0.30	1.71E-03
ENSG00000272333	KMT2B	3052.87	-0.14	1.72E-03
ENSG00000279766		65.21	-0.27	1.72E-03
ENSG00000213762	ZNF134	877.66	-0.12	1.72E-03
ENSG00000169826	CSGALNACT2	2736.48	0.17	1.73E-03
ENSG00000072571	HMMR	105.51	0.41	1.73E-03
ENSG00000198752	CDC42BPB	615.75	0.17	1.73E-03
ENSG00000181804	SLC9A9	418.49	0.23	1.74E-03
ENSG00000184903	IMMP2L	282.26	-0.18	1.74E-03
ENSG00000159433	STARD9	603.66	-0.20	1.74E-03
ENSG00000147684	NDUFB9	869.14	0.13	1.74E-03
ENSG00000278771	RN7SL3	918.38	0.30	1.74E-03
ENSG00000175414	ARL10	723.65	-0.13	1.75E-03
ENSG00000273076		42.78	0.32	1.75E-03
ENSG00000164654	MIOS	1027.89	0.11	1.77E-03
ENSG00000123728	RAP2C	3195.08	0.23	1.77E-03
ENSG00000259673	IQCH-AS1	198.86	-0.16	1.77E-03
ENSG00000044115	CTNNA1	1918.67	0.19	1.78E-03

ENSG00000259062	ACTN1-DT	54.43	-0.28	1.78E-03
ENSG00000106714	CNTNAP3	163.10	-1.01	1.79E-03
ENSG00000074695	LMAN1	1582.47	0.14	1.79E-03
ENSG00000187116	LILRA5	2183.41	0.46	1.80E-03
ENSG00000178226	PRSS36	40.54	-0.39	1.80E-03
ENSG00000054179	ENTPD2	6.62	-1.34	1.80E-03
ENSG00000102081	FMR1	2622.45	0.13	1.80E-03
ENSG00000186687	LYRM7	680.13	-0.10	1.80E-03
ENSG00000166676	TVP23A	32.79	-0.53	1.80E-03
ENSG00000213714	FAM209B	39.18	0.32	1.80E-03
ENSG00000135842	NIBAN1	10438.44	-0.30	1.81E-03
ENSG00000100030	MAPK1	5039.08	-0.15	1.81E-03
ENSG00000230257	NFE4	121.24	-0.59	1.81E-03
ENSG00000122085	MTERF4	3158.90	-0.13	1.82E-03
ENSG00000070444	MNT	1899.93	-0.24	1.82E-03
ENSG00000237973	MTCO1P12	115.35	-0.30	1.83E-03
ENSG00000204789	ZNF204P	157.48	-0.21	1.83E-03
ENSG00000179627	ZBTB42	334.90	0.16	1.84E-03
ENSG00000111670	GNPTAB	2241.73	0.13	1.84E-03
ENSG00000105355	PLIN3	1441.43	0.20	1.85E-03
ENSG00000244701		210.97	-0.15	1.85E-03
ENSG00000166170	BAG5	1421.23	-0.09	1.86E-03
ENSG00000109790	KLHL5	1741.60	-0.25	1.86E-03
ENSG00000189079	ARID2	2926.77	-0.13	1.87E-03
ENSG00000178741	COX5A	632.31	0.16	1.87E-03
ENSG00000140553	UNC45A	1194.45	0.12	1.88E-03
ENSG00000180329	CCDC43	327.65	0.15	1.89E-03
ENSG00000111911	HINT3	633.61	0.21	1.89E-03
ENSG00000138814	PPP3CA	1922.76	-0.20	1.89E-03
ENSG00000251127		18.23	0.81	1.90E-03
ENSG00000261416	CORO1A-AS1	93.35	-0.25	1.92E-03
ENSG00000183347	GBP6	50.67	0.79	1.92E-03
ENSG00000013275	PSMC4	1140.23	0.21	1.92E-03
ENSG00000144648	ACKR2	59.97	-0.45	1.92E-03
ENSG00000256594		1893.87	-0.15	1.92E-03
ENSG00000165406	MARCHF8	5202.62	-0.36	1.93E-03
ENSG00000137992	DBT	645.02	0.11	1.93E-03
ENSG00000197506	SLC28A3	19.64	0.68	1.93E-03
ENSG00000138092	CENPO	210.63	0.15	1.94E-03
ENSG00000163600	ICOS	686.92	0.20	1.94E-03
ENSG00000132541	RIDA	84.77	0.22	1.94E-03
ENSG00000230149		126.41	0.31	1.94E-03
ENSG00000141510	TP53	1301.73	0.13	1.95E-03
ENSG00000140931	CMTM3	1737.92	0.15	1.95E-03
ENSG00000163788	SNRK	5119.97	-0.16	1.95E-03
ENSG00000279886		33.19	0.61	1.95E-03
ENSG00000099194	SCD	330.28	0.41	1.96E-03
ENSG00000244627	TPTEP2	574.38	-0.20	1.97E-03
ENSG00000254979		13.29	0.78	1.97E-03
ENSG00000198522	GPN1	453.46	0.11	1.97E-03
ENSG00000143434	SEMA6C	108.48	-0.23	1.97E-03
ENSG00000147677	EIF3H	3150.06	-0.09	1.98E-03

ENSG00000263648		39.47	-0.31	1.99E-03
ENSG00000167595	PROSER3	452.06	-0.16	1.99E-03
ENSG00000103544	VPS35L	1217.69	0.10	1.99E-03
ENSG00000150991	UBC	22082.12	0.23	1.99E-03
ENSG00000146802	TMEM168	1165.92	-0.08	1.99E-03
ENSG00000009844	VTA1	1023.73	0.17	2.00E-03
ENSG00000171456	ASXL1	3192.38	-0.09	2.00E-03
ENSG00000236056	GAPDHP14	35.81	0.48	2.00E-03
ENSG00000273245		112.41	-0.24	2.00E-03
ENSG00000278897		250.38	-0.16	2.00E-03
ENSG00000087088	BAX	1140.55	0.15	2.01E-03
ENSG00000174130	TLR6	1884.50	-0.32	2.01E-03
ENSG00000261367		23.53	-0.77	2.01E-03
ENSG00000139746	RBM26	3607.44	-0.10	2.01E-03
ENSG00000124713	GNMT	53.21	-0.29	2.01E-03
ENSG00000216937	CCDC7	1215.47	-0.18	2.02E-03
ENSG00000139055	ERP27	469.64	-0.18	2.02E-03
ENSG00000263961	RHEX	195.92	-0.27	2.02E-03
ENSG00000271964		265.89	-0.20	2.03E-03
ENSG00000106153	CHCHD2	2624.46	0.15	2.03E-03
ENSG00000134030	CTIF	353.79	0.16	2.04E-03
ENSG00000106400	ZNHIT1	990.90	0.13	2.06E-03
ENSG00000137441	FGFBP2	1001.33	0.30	2.07E-03
ENSG00000185986	SDHAP3	325.81	-0.12	2.07E-03
ENSG00000131016	AKAP12	205.23	-0.29	2.08E-03
ENSG00000054611	TBC1D22A	2931.35	-0.15	2.08E-03
ENSG00000248671		46.33	-0.27	2.09E-03
ENSG00000124920	MYRF	50.43	0.31	2.10E-03
ENSG00000227945	PTPRK-AS1	20.25	-0.54	2.10E-03
ENSG00000168785	TSPAN5	1336.45	-0.38	2.10E-03
ENSG00000103591	AAGAB	958.19	0.16	2.11E-03
ENSG00000115548	KDM3A	3250.67	-0.18	2.11E-03
ENSG00000122877	EGR2	772.26	0.55	2.14E-03
ENSG00000123737	EXOSC9	620.96	0.14	2.14E-03
ENSG00000196422	PPP1R26	181.36	0.21	2.14E-03
ENSG00000127074	RGS13	17.06	0.57	2.14E-03
ENSG00000263482	ANTXRLP1	584.54	-0.19	2.15E-03
ENSG00000236618	PITPNA-AS1	48.72	-0.23	2.16E-03
ENSG00000213172		17.69	0.58	2.16E-03
ENSG00000269069		126.82	-0.24	2.16E-03
ENSG00000144935	TRPC1	170.78	-0.20	2.16E-03
ENSG00000185658	BRWD1	5916.32	-0.10	2.18E-03
ENSG00000160013	PTGIR	347.14	0.32	2.20E-03
ENSG00000282572		478.60	-0.55	2.20E-03
ENSG00000145495	MARCHF6	5416.62	-0.11	2.21E-03
ENSG00000153879	CEBPG	853.48	0.12	2.22E-03
ENSG00000120658	ENOX1	9.73	-0.78	2.22E-03
ENSG00000267312		146.66	0.26	2.23E-03
ENSG00000158109	TPRG1L	1297.28	-0.13	2.24E-03
ENSG00000126107	HECTD3	1073.18	0.10	2.24E-03
ENSG00000117139	KDM5B	1915.71	-0.12	2.24E-03
ENSG00000135677	GNS	4353.13	0.24	2.26E-03

ENSG00000198393	ZNF26	1253.63	-0.09	2.26E-03
ENSG00000164111	ANXA5	5514.39	0.45	2.26E-03
ENSG00000129292	PHF20L1	4402.65	-0.16	2.26E-03
ENSG00000152291	TGOLN2	9779.85	-0.09	2.26E-03
ENSG00000167393	PPP2R3B	527.22	-0.16	2.27E-03
ENSG00000272909		72.69	-0.25	2.27E-03
ENSG00000166394	CYB5R2	43.29	0.54	2.27E-03
ENSG00000000460	C1orf112	296.51	0.13	2.28E-03
ENSG00000127884	ECHS1	466.58	0.13	2.28E-03
ENSG00000258824		72.22	-0.21	2.28E-03
ENSG00000102678	FGF9	68.98	-0.32	2.28E-03
ENSG00000101182	PSMA7	2507.44	0.17	2.28E-03
ENSG00000241316	SUCLG2-DT	92.81	-0.25	2.29E-03
ENSG00000151006	PRSS53	122.42	-0.19	2.29E-03
ENSG00000138942	RNF185	1114.14	0.21	2.29E-03
ENSG00000139117	CPNE8	281.19	0.30	2.29E-03
ENSG00000091140	DLD	1536.01	0.14	2.30E-03
ENSG00000127561	SYNGR3	80.35	-0.27	2.32E-03
ENSG00000243649	CFB	14.18	1.01	2.32E-03
ENSG00000183579	ZNRF3	56.45	-0.26	2.33E-03
ENSG00000182700	IGIP	409.44	-0.18	2.33E-03
ENSG00000246763	RGMB-AS1	14.22	-0.45	2.34E-03
ENSG00000230042	AK3P3	29.70	-0.29	2.35E-03
ENSG00000272578		392.61	-0.15	2.35E-03
ENSG00000267676	THA1P	166.35	0.48	2.35E-03
ENSG00000269981		259.89	-0.57	2.36E-03
ENSG00000145685	LHFPL2	1654.96	0.70	2.37E-03
ENSG00000166897	ELFN2	26.70	-0.39	2.37E-03
ENSG00000279283		196.45	-0.31	2.37E-03
ENSG00000170627	GTSF1	37.82	0.25	2.37E-03
ENSG00000211513	MIR320E	44.46	0.29	2.38E-03
ENSG00000204599	TRIM39	494.02	-0.12	2.39E-03
ENSG00000214215		29.48	-0.46	2.39E-03
ENSG00000122958	VPS26A	1196.34	0.16	2.39E-03
ENSG00000198899	MT-ATP6	8156.98	-0.30	2.40E-03
ENSG00000096968	JAK2	2618.16	0.27	2.40E-03
ENSG00000115539	PDCL3	214.33	0.19	2.40E-03
ENSG00000184428	TOP1MT	264.25	-0.20	2.41E-03
ENSG00000105875	WDR91	1151.43	-0.18	2.41E-03
ENSG00000196187	TMEM63A	6173.17	-0.12	2.41E-03
ENSG00000050438	SLC4A8	317.81	0.22	2.41E-03
ENSG00000122121	XPNPEP2	16.21	0.53	2.41E-03
ENSG00000270562		104.05	-0.42	2.41E-03
ENSG00000179388	EGR3	2122.30	0.46	2.43E-03
ENSG00000099341	PSMD8	1660.52	0.13	2.43E-03
ENSG00000154945	ANKRD40	867.09	0.14	2.44E-03
ENSG00000101191	DIDO1	5324.87	-0.06	2.44E-03
ENSG00000172349	IL16	10983.02	-0.18	2.44E-03
ENSG00000151726	ACSL1	20408.03	0.41	2.44E-03
ENSG00000138316	ADAMTS14	70.16	0.64	2.45E-03
ENSG00000223820	CFL1P1	26.40	-0.30	2.46E-03
ENSG00000109118	PHF12	4056.39	-0.14	2.46E-03

ENSG00000132424	PNISR	6616.84	-0.11	2.46E-03
ENSG00000260101	AFTPH-DT	34.65	0.32	2.48E-03
ENSG00000204217	BMPR2	1652.57	0.15	2.49E-03
ENSG00000270195		83.73	-0.18	2.49E-03
ENSG0000033178	UBA6	2337.66	0.15	2.49E-03
ENSG00000256223	ZNF10	282.12	-0.17	2.49E-03
ENSG00000143320	CRABP2	38.85	-0.55	2.50E-03
ENSG00000167085	PHB1	1161.43	0.19	2.50E-03
ENSG00000122043	LINC00544	60.13	-0.30	2.51E-03
ENSG00000085063	CD59	1541.75	0.18	2.52E-03
ENSG00000213149	CNN2P9	26.17	-0.34	2.52E-03
ENSG00000105556	MIER2	461.60	0.14	2.52E-03
ENSG00000250771		539.29	0.88	2.52E-03
ENSG00000156127	BATF	518.82	0.24	2.53E-03
ENSG00000104823	ECH1	829.64	0.15	2.54E-03
ENSG00000277589		53.44	-0.24	2.54E-03
ENSG00000196233	LCOR	4439.58	-0.10	2.54E-03
ENSG00000165905	LARGE2	111.14	-0.33	2.55E-03
ENSG00000152240	HAUS1	346.10	0.13	2.55E-03
ENSG00000118263	KLF7	2205.12	-0.25	2.55E-03
ENSG00000203879	GDI1	2800.00	-0.11	2.58E-03
ENSG00000064102	INTS13	432.66	0.14	2.58E-03
ENSG00000141012	GALNS	1517.10	-0.18	2.59E-03
ENSG00000137841	PLCB2	4699.89	-0.28	2.59E-03
ENSG00000203644		296.89	-0.27	2.59E-03
ENSG00000157554	ERG	35.54	0.45	2.59E-03
ENSG0000026025	VIM	20597.06	0.26	2.59E-03
ENSG00000174326	SLC16A11	49.88	-0.34	2.59E-03
ENSG00000253831	ETV3L	19.69	1.20	2.60E-03
ENSG00000182944	EWSR1	5592.13	0.08	2.60E-03
ENSG00000152932	RAB3C	70.32	-0.79	2.61E-03
ENSG00000204345	CD300LD	9.54	-0.86	2.61E-03
ENSG00000116586	LAMTOR2	315.89	0.18	2.61E-03
ENSG00000177054	ZDHHC13	647.37	0.13	2.62E-03
ENSG00000110002	VWA5A	301.91	0.19	2.62E-03
ENSG00000260859		18.51	-0.54	2.62E-03
ENSG00000225450		122.16	0.30	2.63E-03
ENSG00000253540	FAM86HP	108.05	-0.22	2.64E-03
ENSG00000159131	GART	1214.79	0.21	2.64E-03
ENSG00000106686	SPATA6L	98.97	-0.23	2.64E-03
ENSG00000243449	C4orf48	151.64	0.22	2.65E-03
ENSG00000159423	ALDH4A1	58.41	0.34	2.66E-03
ENSG00000273729		298.60	-0.21	2.67E-03
ENSG00000233431	LINC02596	33.43	-1.19	2.67E-03
ENSG00000274272		366.90	-0.27	2.69E-03
ENSG00000161929	SCIMP	519.96	0.39	2.71E-03
ENSG00000180953	ST20	555.92	-0.43	2.71E-03
ENSG00000136143	SUCLA2	499.67	0.11	2.71E-03
ENSG00000055118	KCNH2	82.05	-0.29	2.71E-03
ENSG00000176953	NFATC2IP	2086.50	0.07	2.71E-03
ENSG00000215529	EFCAB8	104.81	-0.24	2.71E-03
ENSG00000273265	CNNM3-DT	75.92	-0.22	2.74E-03

ENSG00000266288	LINC02974	13.10	0.51	2.75E-03
ENSG00000101346	POFUT1	724.62	0.15	2.75E-03
ENSG00000176490	DIRAS1	28.19	-0.36	2.75E-03
ENSG00000145649	GZMA	530.51	0.45	2.76E-03
ENSG00000172766	NAA16	1127.08	-0.11	2.76E-03
ENSG00000107864	CPEB3	325.64	0.17	2.76E-03
ENSG00000105171	POP4	607.53	0.10	2.76E-03
ENSG00000153093	ACOXL	22.81	0.54	2.77E-03
ENSG00000112787	FBRSL1	2480.16	-0.15	2.78E-03
ENSG00000232528		183.69	-0.44	2.79E-03
ENSG00000009307	CSDE1	10567.86	-0.10	2.80E-03
ENSG00000176749	CDK5R1	716.79	-0.28	2.80E-03
ENSG00000178445	GLDC	11.70	0.69	2.82E-03
ENSG00000058262	SEC61A1	4019.13	0.14	2.82E-03
ENSG00000143155	TIPRL	738.07	0.13	2.82E-03
ENSG00000151611	MMAA	228.40	0.15	2.83E-03
ENSG00000160991	ORAI2	5151.63	-0.20	2.83E-03
ENSG00000179091	CYC1	869.78	0.15	2.84E-03
ENSG00000108406	DHX40	1009.26	-0.14	2.85E-03
ENSG00000077044	DGKD	4357.97	-0.12	2.85E-03
ENSG00000117000	RLF	1965.88	-0.13	2.85E-03
ENSG00000140199	SLC12A6	7185.78	-0.19	2.85E-03
ENSG00000166928	MS4A14	382.25	0.41	2.86E-03
ENSG00000127666	TICAM1	1016.40	0.35	2.86E-03
ENSG00000218565		66.12	0.64	2.86E-03
ENSG00000282508	LINC01002	429.94	-0.48	2.87E-03
ENSG00000180867	PDIA3P1	86.44	0.18	2.87E-03
ENSG00000115919	KYNU	3314.74	0.46	2.88E-03
ENSG00000261801	LOXL1-AS1	171.51	-0.18	2.88E-03
ENSG00000114857	NKTR	6264.98	-0.13	2.89E-03
ENSG00000138231	DBR1	464.11	0.12	2.90E-03
ENSG00000091651	ORC6	37.10	0.28	2.90E-03
ENSG00000085185	BCORL1	452.46	-0.22	2.91E-03
ENSG00000140009	ESR2	116.07	-0.61	2.91E-03
ENSG00000120053	GOT1	199.91	0.19	2.93E-03
ENSG00000237440	ZNF737	449.28	-0.15	2.95E-03
ENSG00000284154	MIR3605	45.47	-0.41	2.96E-03
ENSG00000065600	PACC1	473.26	0.23	2.96E-03
ENSG00000270804		144.59	-0.19	2.96E-03
ENSG00000170365	SMAD1	59.95	0.34	2.96E-03
ENSG00000273151		159.53	0.28	2.97E-03
ENSG00000163453	IGFBP7	116.93	0.43	2.97E-03
ENSG00000153162	BMP6	128.63	-0.51	2.97E-03
ENSG00000261556	SMG1P7	420.65	-0.12	2.97E-03
ENSG00000187210	GCNT1	359.54	0.23	2.98E-03
ENSG00000112146	FBXO9	1819.27	-0.19	2.99E-03
ENSG00000108312	UBTF	2884.10	-0.09	2.99E-03
ENSG00000106397	PLOD3	605.22	0.21	2.99E-03
ENSG00000236829		138.89	-0.27	3.00E-03
ENSG00000271347		78.88	-0.23	3.00E-03
ENSG00000187951		217.61	0.16	3.01E-03
ENSG00000280067		54.93	-0.34	3.01E-03

ENSG00000099840	IZUMO4	88.53	-0.23	3.01E-03
ENSG00000211611	IGKV6-21	12.67	0.84	3.01E-03
ENSG00000060688	SNRNP40	857.80	0.11	3.03E-03
ENSG00000279599		18.28	-0.35	3.03E-03
ENSG00000273284		326.09	-0.21	3.04E-03
ENSG00000073150	PANX2	244.76	-0.56	3.06E-03
ENSG00000189325	BNIP5	15.09	0.94	3.07E-03
ENSG00000178074	C2orf69	466.98	0.11	3.07E-03
ENSG00000164251	F2RL1	268.77	-0.37	3.07E-03
ENSG00000149554	CHEK1	82.34	0.32	3.10E-03
ENSG00000283399		161.22	-0.56	3.12E-03
ENSG00000197037	ZSCAN25	1232.03	-0.08	3.13E-03
ENSG00000183684	ALYREF	581.38	0.17	3.15E-03
ENSG00000228242	XPC-AS1	251.72	-0.33	3.15E-03
ENSG00000261226		113.28	-0.34	3.15E-03
ENSG00000082641	NFE2L1	2143.41	0.17	3.17E-03
ENSG00000108352	RAPGEFL1	198.76	-0.21	3.18E-03
ENSG00000117543	DPH5	537.13	-0.15	3.19E-03
ENSG00000269858	EGLN2	2312.27	-0.18	3.19E-03
ENSG00000118816	CCNI	9430.08	-0.15	3.19E-03
ENSG00000116005	PCYOX1	523.00	-0.12	3.19E-03
ENSG00000131446	MGAT1	11567.58	0.19	3.19E-03
ENSG00000042753	AP2S1	813.43	0.20	3.20E-03
ENSG00000111358	GTF2H3	426.97	0.12	3.20E-03
ENSG00000146834	MEPCE	1802.52	-0.09	3.20E-03
ENSG00000129353	SLC44A2	4689.13	-0.26	3.20E-03
ENSG00000198912	C1orf174	664.24	0.09	3.22E-03
ENSG00000168884	TNIP2	2039.58	0.18	3.22E-03
ENSG00000198960	ARMCX6	283.13	0.16	3.23E-03
ENSG00000169813	HNRNPF	5353.71	0.15	3.23E-03
ENSG00000213079	SCAF8	2533.96	-0.08	3.24E-03
ENSG00000180385	EMC3-AS1	247.51	-0.17	3.27E-03
ENSG00000170962	PDGFD	171.05	0.25	3.28E-03
ENSG00000226711	FAM66C	146.98	-0.18	3.30E-03
ENSG00000237438	CECR7	103.20	-0.18	3.31E-03
ENSG00000178718	RPP25	76.00	0.28	3.32E-03
ENSG00000105677	TMEM147	409.40	0.17	3.33E-03
ENSG00000005302	MSL3	2954.33	0.13	3.35E-03
ENSG00000182287	AP1S2	2533.49	0.26	3.36E-03
ENSG00000238201		53.93	-0.49	3.36E-03
ENSG00000146904	EPHA1	328.07	-0.24	3.45E-03
ENSG00000114745	GORASP1	852.28	0.16	3.45E-03
ENSG00000124006	OBSL1	47.25	-0.39	3.46E-03
ENSG00000274776		20.38	-0.35	3.49E-03
ENSG00000008130	NADK	7570.02	0.24	3.49E-03
ENSG00000138463	SLC49A4	832.64	-0.25	3.51E-03
ENSG00000172725	CORO1B	1541.42	0.21	3.52E-03
ENSG00000135407	AVIL	389.90	-0.31	3.53E-03
ENSG00000105327	BBC3	472.02	-0.22	3.54E-03
ENSG00000130584	ZBTB46	232.34	-0.39	3.54E-03
ENSG00000070476	ZXDC	2545.24	-0.11	3.54E-03
ENSG00000093134	VNN3P	1393.70	-0.66	3.54E-03

ENSG00000136960	ENPP2	60.48	0.35	3.55E-03
ENSG00000149196	HIKESHI	415.33	0.13	3.56E-03
ENSG00000105186	ANKRD27	1185.94	0.08	3.57E-03
ENSG00000204304	PBX2	3214.70	-0.17	3.58E-03
ENSG00000187954	CYHR1	2061.31	-0.12	3.59E-03
ENSG00000185803	SLC52A2	489.95	0.20	3.59E-03
ENSG00000125817	CENPB	1634.40	0.12	3.59E-03
ENSG00000228839	PIK3IP1-DT	140.38	-0.23	3.61E-03
ENSG00000166165	CKB	156.20	0.45	3.62E-03
ENSG00000196547	MAN2A2	3505.52	-0.19	3.63E-03
ENSG00000249850	KRT18P31	388.26	-0.15	3.64E-03
ENSG00000162929	SANBR	176.69	0.18	3.65E-03
ENSG00000130940	CASZ1	813.95	0.14	3.65E-03
ENSG00000181915	ADO	779.49	0.14	3.65E-03
ENSG00000162073	PAQR4	114.04	0.43	3.65E-03
ENSG00000224505	HEXIM2-AS1	344.53	-0.12	3.66E-03
ENSG00000120685	PROSER1	982.34	0.11	3.66E-03
ENSG00000108239	TBC1D12	300.17	0.23	3.66E-03
ENSG00000163050	COQ8A	1069.51	-0.27	3.66E-03
ENSG00000234534	CSNK1G2P1	67.80	0.31	3.66E-03
ENSG00000120802	TMPO	4025.13	0.12	3.66E-03
ENSG00000068097	HEATR6	529.69	0.12	3.67E-03
ENSG00000207789	MIR26A2	21.62	-0.42	3.67E-03
ENSG00000157933	SKI	3976.30	-0.29	3.68E-03
ENSG00000151773	CCDC122	88.98	-0.23	3.68E-03
ENSG00000179750	APOBEC3B	83.33	0.53	3.68E-03
ENSG00000211664	IGLV2-18	8.15	0.94	3.69E-03
ENSG00000234773		119.40	-0.19	3.70E-03
ENSG00000184992	BRI3BP	453.47	-0.19	3.70E-03
ENSG00000082146	STRADB	5362.07	-0.50	3.71E-03
ENSG00000266017	MIR4477B	54.75	0.48	3.71E-03
ENSG00000198574	SH2D1B	891.64	0.36	3.71E-03
ENSG00000175782	SLC35E3	868.71	-0.20	3.72E-03
ENSG00000180104	EXOC3	2271.12	-0.09	3.72E-03
ENSG00000246859	STARD4-AS1	21.58	-0.41	3.72E-03
ENSG00000162078	ZG16B	12.61	0.67	3.73E-03
ENSG00000275371		38.48	-0.67	3.73E-03
ENSG00000114796	KLHL24	3342.45	-0.11	3.74E-03
ENSG00000135404	CD63	2700.89	0.28	3.74E-03
ENSG00000110844	PRPF40B	300.59	-0.13	3.75E-03
ENSG00000059145	UNKL	1736.45	-0.19	3.75E-03
ENSG00000229474	PATL2	1191.07	0.24	3.76E-03
ENSG00000147421	HMBBOX1	1953.58	-0.09	3.78E-03
ENSG00000158481	CD1C	131.39	-0.38	3.78E-03
ENSG00000139546	TARBP2	325.31	0.12	3.79E-03
ENSG00000145335	SNCA	7568.34	-0.57	3.79E-03
ENSG00000142156	COL6A1	89.74	-0.29	3.79E-03
ENSG00000139318	DUSP6	5826.19	0.46	3.80E-03
ENSG00000176261	ZBTB80S	579.75	0.09	3.81E-03
ENSG00000116863	ADPRS	614.66	0.15	3.82E-03
ENSG00000255769	GOLGA2P10	335.02	-0.16	3.82E-03
ENSG00000130699	TAF4	712.95	-0.16	3.82E-03

ENSG00000232855		77.42	0.28	3.83E-03
ENSG0000077152	UBE2T	45.20	0.39	3.84E-03
ENSG00000260233	ZNRD2-DT	191.79	-0.19	3.85E-03
ENSG00000204580	DDR1	264.65	-0.24	3.86E-03
ENSG00000230709		9.72	-0.57	3.87E-03
ENSG00000165025	SYK	4641.33	-0.24	3.87E-03
ENSG00000043462	LCP2	18640.80	0.23	3.87E-03
ENSG00000080819	CPOX	495.26	0.13	3.87E-03
ENSG00000138785	INTS12	365.46	0.13	3.88E-03
ENSG00000182093	GET1	407.13	-0.12	3.88E-03
ENSG00000106617	PRKAG2	1520.70	0.15	3.89E-03
ENSG00000224614	TNK2-AS1	80.65	0.30	3.90E-03
ENSG00000103253	HAGHL	308.09	-0.23	3.90E-03
ENSG00000135124	P2RX4	2698.54	0.36	3.90E-03
ENSG00000120265	PCMT1	1178.04	0.14	3.91E-03
ENSG00000148516	ZEB1	2518.21	-0.14	3.91E-03
ENSG00000223776	LGALS8-AS1	19.50	0.36	3.91E-03
ENSG00000146463	ZMYM4	1425.22	0.08	3.91E-03
ENSG00000215790	SLC35E2A	496.98	-0.11	3.92E-03
ENSG00000183741	CBX6	4259.82	0.17	3.93E-03
ENSG00000198888	MT-ND1	7271.14	-0.33	3.94E-03
ENSG00000156853	ZNF689	413.66	0.11	3.94E-03
ENSG00000083168	KAT6A	7401.57	-0.13	3.94E-03
ENSG00000048140	TSPAN17	911.55	0.19	3.94E-03
ENSG00000265195	MIR4312	125.11	-0.29	3.94E-03
ENSG00000141258	SGSM2	2280.26	-0.11	3.96E-03
ENSG00000163534	FCRL1	858.28	-0.42	3.97E-03
ENSG00000163960	UBXN7	2737.64	-0.11	3.97E-03
ENSG00000119729	RHOQ	3166.07	-0.23	3.98E-03
ENSG00000157191	NECAP2	3409.00	0.10	3.98E-03
ENSG00000108946	PRKAR1A	5751.29	-0.15	4.00E-03
ENSG00000177917	ARL6IP6	567.54	0.13	4.00E-03
ENSG00000273559	CWC25	1311.54	-0.15	4.00E-03
ENSG00000143847	PPFIA4	55.62	-0.37	4.00E-03
ENSG00000150687	PRSS23	227.46	0.47	4.00E-03
ENSG00000211829	TRDC	482.67	0.26	4.01E-03
ENSG00000062822	POLD1	572.26	0.14	4.02E-03
ENSG00000103942	HOMER2	160.10	-0.23	4.02E-03
ENSG00000085365	SCAMP1	768.03	0.10	4.02E-03
ENSG00000058056	USP13	321.67	-0.12	4.03E-03
ENSG00000261996		106.58	-0.21	4.03E-03
ENSG00000183207	RUVBL2	609.90	0.16	4.03E-03
ENSG00000260528	FAM157C	722.62	-0.52	4.03E-03
ENSG00000155111	CDK19	1051.38	-0.20	4.05E-03
ENSG00000225830	ERCC6	1206.81	-0.10	4.05E-03
ENSG00000089693	MLF2	1960.93	-0.14	4.06E-03
ENSG00000233822	H2BC15	429.42	0.30	4.08E-03
ENSG00000188404	SELL	13774.66	0.27	4.08E-03
ENSG00000153944	MSI2	2925.13	-0.14	4.08E-03
ENSG00000130997	POLN	127.04	0.18	4.09E-03
ENSG00000186056	MATN1-AS1	399.94	-0.21	4.10E-03
ENSG00000180815	MAP3K15	9.91	-0.80	4.10E-03

ENSG00000139278	GLIPR1	4049.17	-0.18	4.11E-03
ENSG00000132640	BTBD3	159.53	0.26	4.12E-03
ENSG00000263883	EEF1DP7	96.97	-0.28	4.12E-03
ENSG00000005379	TSPOAP1	1636.84	0.21	4.12E-03
ENSG00000100003	SEC14L2	181.12	-0.28	4.13E-03
ENSG00000262979		21.39	0.46	4.15E-03
ENSG00000146426	TIAM2	276.16	-0.18	4.16E-03
ENSG00000273419		22.28	-0.35	4.16E-03
ENSG00000180879	SSR4	1917.23	0.13	4.17E-03
ENSG00000112759	SLC29A1	237.93	0.33	4.17E-03
ENSG00000105492	SIGLEC6	26.93	-0.45	4.18E-03
ENSG00000183077	AFMID	109.04	0.26	4.19E-03
ENSG00000138801	PAPSS1	951.42	0.19	4.20E-03
ENSG00000105220	GPI	1587.32	0.12	4.21E-03
ENSG00000125818	PSMF1	4805.48	-0.30	4.21E-03
ENSG00000102172	SMS	1157.97	0.18	4.21E-03
ENSG00000197747	S100A10	1934.44	0.24	4.22E-03
ENSG00000130513	GDF15	88.21	0.57	4.22E-03
ENSG00000136404	TM6SF1	568.73	-0.37	4.22E-03
ENSG00000272914		85.67	0.35	4.22E-03
ENSG00000255422		38.60	0.37	4.24E-03
ENSG00000168434	COG7	532.16	0.10	4.25E-03
ENSG00000228300	FAM174C	513.78	0.15	4.25E-03
ENSG00000267757	EML2-AS1	53.46	-0.31	4.26E-03
ENSG00000106211	HSPB1	426.65	0.33	4.26E-03
ENSG00000152767	FARP1	14.97	-0.49	4.28E-03
ENSG00000196381	ZNF781	103.62	-0.24	4.29E-03
ENSG00000075213	SEMA3A	50.03	0.54	4.30E-03
ENSG00000143862	ARL8A	1302.34	0.15	4.31E-03
ENSG00000079691	CARMIL1	344.45	-0.16	4.31E-03
ENSG00000152749	GPR180	365.67	0.15	4.31E-03
ENSG00000146192	FGD2	1219.02	0.36	4.32E-03
ENSG00000153029	MR1	2154.27	0.23	4.32E-03
ENSG00000158636	EMSY	1803.31	-0.12	4.33E-03
ENSG00000183666	GUSBP1	338.03	-0.10	4.33E-03
ENSG00000117594	HSD11B1	23.42	0.65	4.36E-03
ENSG00000159479	MED8	673.41	0.14	4.40E-03
ENSG00000196867	ZFP28	157.07	-0.15	4.40E-03
ENSG00000183044	ABAT	630.23	-0.19	4.40E-03
ENSG00000110987	BCL7A	284.93	-0.17	4.41E-03
ENSG00000108342	CSF3	873.17	1.62	4.41E-03
ENSG00000106615	RHEB	1136.79	0.14	4.41E-03
ENSG00000019995	ZRANB1	1477.18	-0.13	4.41E-03
ENSG00000158859	ADAMTS4	31.79	0.31	4.41E-03
ENSG00000221445	MIR1301	27.12	-0.33	4.41E-03
ENSG00000169490	TM2D2	567.26	0.19	4.42E-03
ENSG00000164124	TMEM144	72.13	0.46	4.42E-03
ENSG00000279884		190.43	-0.22	4.42E-03
ENSG00000041880	PARP3	173.53	0.18	4.44E-03
ENSG00000111707	SUDS3	1664.95	-0.08	4.44E-03
ENSG00000254632		26.94	0.93	4.44E-03
ENSG00000086619	ERO1B	708.07	-0.12	4.45E-03

ENSG00000143612	C1orf43	2695.82	0.18	4.45E-03
ENSG00000111727	HCFC2	550.89	0.12	4.45E-03
ENSG0000013016	EHD3	325.21	-0.22	4.46E-03
ENSG00000090989	EXOC1	1516.79	0.12	4.47E-03
ENSG00000150093	ITGB1	7245.51	0.18	4.49E-03
ENSG00000128595	CALU	1013.11	0.16	4.49E-03
ENSG00000115956	PLEK	18660.54	0.28	4.49E-03
ENSG00000189430	NCR1	507.22	0.28	4.50E-03
ENSG00000156172	CFAP418	72.56	-0.20	4.51E-03
ENSG00000239203		20.08	0.34	4.51E-03
ENSG00000231826	LINC01819	49.38	-0.55	4.52E-03
ENSG00000170909	OSCAR	906.20	0.31	4.52E-03
ENSG00000123395	ATG101	399.75	0.22	4.53E-03
ENSG00000171657	GPR82	34.04	0.51	4.53E-03
ENSG00000131473	ACLY	2706.57	0.09	4.54E-03
ENSG00000100628	ASB2	354.37	0.42	4.55E-03
ENSG00000163564	PYHIN1	1678.83	0.16	4.57E-03
ENSG00000269343	ZNF587B	784.08	-0.11	4.57E-03
ENSG00000102753	KPNA3	1146.84	0.11	4.57E-03
ENSG00000100852	ARHGAP5	2165.27	-0.11	4.58E-03
ENSG00000224383	PRR29	17.91	0.53	4.60E-03
ENSG00000084444	FAM234B	187.26	0.15	4.61E-03
ENSG00000181826	RELL1	788.35	-0.28	4.62E-03
ENSG00000113303	BTNL8	383.23	-0.50	4.62E-03
ENSG00000054116	TRAPPC3	869.33	0.12	4.62E-03
ENSG00000142208	AKT1	3553.28	-0.15	4.64E-03
ENSG00000237711	MTCO3P11	49.17	0.32	4.64E-03
ENSG00000283646	LINC02009	71.31	0.51	4.65E-03
ENSG00000135953	MFSD9	356.88	0.13	4.65E-03
ENSG00000011426	ANLN	116.95	0.35	4.65E-03
ENSG00000110888	CAPRIN2	1173.54	-0.13	4.66E-03
ENSG00000109787	KLF3	5388.06	-0.11	4.66E-03
ENSG00000108424	KPNB1	6431.12	0.14	4.68E-03
ENSG00000163431	LMOD1	9.48	-0.90	4.72E-03
ENSG00000171840	NINJ2	395.39	-0.35	4.73E-03
ENSG00000157741	UBN2	2049.58	-0.19	4.73E-03
ENSG00000184270	H2AC21	506.45	0.26	4.73E-03
ENSG00000143409	MINDY1	794.18	-0.22	4.74E-03
ENSG00000010803	SCMH1	628.92	-0.11	4.75E-03
ENSG00000272144		74.96	-0.23	4.75E-03
ENSG00000100647	SUSD6	7763.13	-0.21	4.80E-03
ENSG00000169021	UQCRFS1	999.32	0.14	4.81E-03
ENSG00000259097		23.32	-0.37	4.81E-03
ENSG00000267274		87.61	-0.19	4.81E-03
ENSG00000100162	CENPM	92.41	0.24	4.84E-03
ENSG00000136689	IL1RN	8945.82	0.64	4.84E-03
ENSG00000119707	RBM25	4110.33	-0.10	4.84E-03
ENSG00000254470	AP5B1	4377.76	0.28	4.86E-03
ENSG00000244038	DDOST	1911.48	0.11	4.86E-03
ENSG00000173511	VEGFB	475.84	-0.13	4.86E-03
ENSG00000123836	PFKFB2	509.36	-0.21	4.86E-03
ENSG00000159307	SCUBE1	33.70	-0.40	4.86E-03

ENSG00000204160	ZDHC18	6357.30	-0.26	4.86E-03
ENSG00000100485	SOS2	2864.46	-0.16	4.88E-03
ENSG00000242861		171.18	-0.27	4.89E-03
ENSG00000256706		20.18	-0.47	4.89E-03
ENSG00000189077	TMEM120A	775.89	-0.20	4.91E-03
ENSG00000163156	SCNM1	655.86	0.12	4.92E-03
ENSG00000283573		27.24	0.84	4.92E-03
ENSG00000104687	GSR	1742.35	0.15	4.92E-03
ENSG00000136002	ARHGEF4	43.18	-0.39	4.93E-03
ENSG00000167680	SEMA6B	1839.27	-0.90	4.96E-03
ENSG00000169397	RNASE3	24.79	0.62	4.96E-03
ENSG00000105135	ILVBL	489.75	0.14	5.01E-03
ENSG00000102032	RENBP	990.37	0.24	5.01E-03
ENSG00000157240	FZD1	178.82	0.32	5.02E-03
ENSG00000113597	TRAPPC13	487.17	0.12	5.03E-03
ENSG00000232677	LINC00665	128.30	-0.15	5.04E-03
ENSG00000130592	LSP1	14296.17	-0.18	5.04E-03
ENSG00000171097	KYAT1	227.35	-0.15	5.06E-03
ENSG00000180304	OAZ2	2963.79	-0.22	5.07E-03
ENSG00000162591	MEGF6	1852.91	-0.23	5.08E-03
ENSG00000270012		362.67	-0.13	5.08E-03
ENSG00000085978	ATG16L1	1712.29	-0.08	5.10E-03
ENSG00000107643	MAPK8	1246.40	-0.11	5.11E-03
ENSG00000276241		40.78	0.36	5.13E-03
ENSG00000169607	CKAP2L	117.09	0.57	5.14E-03
ENSG00000225094	SETP20	18.51	-0.41	5.15E-03
ENSG00000101265	RASSF2	12299.26	-0.22	5.17E-03
ENSG00000160888	IER2	6974.97	0.19	5.19E-03
ENSG00000128594	LRRC4	708.42	-0.46	5.20E-03
ENSG00000064651	SLC12A2	645.13	-0.11	5.20E-03
ENSG00000077713	SLC25A43	135.76	0.19	5.22E-03
ENSG00000133477	FAM83F	45.13	-0.29	5.22E-03
ENSG00000173868	PHOSPHO1	3243.32	-0.48	5.22E-03
ENSG00000105397	TYK2	5710.07	-0.14	5.24E-03
ENSG00000157077	ZFYVE9	219.39	-0.14	5.24E-03
ENSG00000143353	LYPLAL1	577.88	-0.12	5.26E-03
ENSG00000196782	MAML3	636.41	-0.22	5.27E-03
ENSG00000260228		52.67	0.32	5.27E-03
ENSG00000105976	MET	605.74	0.99	5.28E-03
ENSG00000162129	CLPB	575.37	0.13	5.28E-03
ENSG00000105323	HNRNPUL1	6779.27	-0.09	5.28E-03
ENSG00000225032		446.79	-0.16	5.28E-03
ENSG00000069849	ATP1B3	1367.89	0.27	5.29E-03
ENSG00000250011	HMGB1P3	33.10	0.33	5.29E-03
ENSG00000229587		40.85	-0.23	5.29E-03
ENSG00000243811	APOBEC3D	80.34	0.24	5.30E-03
ENSG00000228808	HMGB3P4	114.97	-0.17	5.30E-03
ENSG00000081791	DELE1	1788.17	-0.06	5.30E-03
ENSG00000095261	PSMD5	976.89	0.08	5.33E-03
ENSG00000123352	SPATS2	224.22	0.12	5.33E-03
ENSG00000118557	PMFBP1	45.04	0.30	5.40E-03
ENSG00000138166	DUSP5	1731.17	0.29	5.42E-03

ENSG00000184983	NDUFA6	727.07	0.14	5.42E-03
ENSG00000186625	KATNA1	378.06	0.10	5.42E-03
ENSG00000222858	RNU6-920P	45.83	-0.30	5.42E-03
ENSG00000005187	ACSM3	498.09	-0.37	5.42E-03
ENSG00000278431		30.24	-0.36	5.43E-03
ENSG00000207550	MIR99B	45.33	-0.59	5.43E-03
ENSG00000183087	GAS6	125.93	0.36	5.43E-03
ENSG00000105948	TTC26	58.11	0.44	5.48E-03
ENSG00000101888	NXT2	286.68	0.21	5.48E-03
ENSG00000197956	S100A6	4058.21	0.26	5.48E-03
ENSG00000157017	GHRL	601.64	-0.64	5.49E-03
ENSG00000226380		2722.72	-0.18	5.52E-03
ENSG00000180155	LYNX1	58.61	0.49	5.52E-03
ENSG00000179840	PIK3CD-AS1	30.92	0.34	5.52E-03
ENSG00000277972	CISD3	331.14	0.17	5.53E-03
ENSG00000278970	HEIH	1334.29	0.19	5.53E-03
ENSG00000128268	MGAT3	92.00	-0.24	5.54E-03
ENSG00000137955	RABGGTB	1492.61	0.10	5.55E-03
ENSG00000108799	EZH1	3026.51	-0.12	5.55E-03
ENSG00000146070	PLA2G7	1334.91	0.53	5.55E-03
ENSG00000124067	SLC12A4	835.46	-0.13	5.55E-03
ENSG00000140367	UBE2Q2	1117.78	0.10	5.55E-03
ENSG00000092470	WDR76	272.59	0.12	5.55E-03
ENSG00000105953	OGDH	2662.29	0.15	5.57E-03
ENSG00000153066	TXNDC11	1459.00	0.12	5.58E-03
ENSG00000169554	ZEB2	13385.01	0.27	5.59E-03
ENSG00000139629	GALNT6	788.50	0.26	5.59E-03
ENSG00000134046	MBD2	2032.96	0.11	5.59E-03
ENSG00000175395	ZNF25	367.77	0.12	5.60E-03
ENSG00000130052	STARD8	459.60	0.46	5.60E-03
ENSG00000281100		293.57	0.20	5.60E-03
ENSG00000274576	IGHV2-70	12.53	0.58	5.61E-03
ENSG00000211637	IGLV4-69	16.64	0.68	5.61E-03
ENSG00000124574	ABCC10	1388.26	0.10	5.62E-03
ENSG00000182544	MFSD5	452.38	0.13	5.62E-03
ENSG00000263584	MIR4480	20.20	-0.43	5.62E-03
ENSG00000078124	ACER3	541.88	0.17	5.62E-03
ENSG00000174428	GTF2IRD2B	431.53	-0.11	5.62E-03
ENSG00000152503	TRIM36	132.06	0.58	5.62E-03
ENSG00000197586	ENTPD6	1509.02	0.10	5.63E-03
ENSG00000167720	SRR	87.37	0.19	5.64E-03
ENSG00000162368	CMPK1	2476.55	-0.09	5.65E-03
ENSG00000261351		170.85	-0.14	5.65E-03
ENSG00000196872	CRACDL	43.76	-0.27	5.67E-03
ENSG00000101367	MAPRE1	3056.99	0.13	5.67E-03
ENSG00000140287	HDC	612.53	-0.21	5.67E-03
ENSG00000196976	LAGE3	221.76	0.17	5.67E-03
ENSG00000140105	WARS1	4491.30	0.36	5.69E-03
ENSG00000213398	LCAT	120.93	-0.19	5.69E-03
ENSG00000137817	PARP6	1396.82	0.07	5.69E-03
ENSG00000170955	CAVIN3	12.53	0.85	5.71E-03
ENSG00000104064	GABPB1	2622.73	-0.08	5.71E-03

ENSG00000140995	DEF8	1885.82	-0.25	5.71E-03
ENSG00000139726	DENR	911.69	0.11	5.73E-03
ENSG00000149557	FEZ1	179.04	0.50	5.75E-03
ENSG00000246223	LINC01550	870.85	-0.15	5.77E-03
ENSG00000263766	KPNB1-DT	126.78	0.28	5.77E-03
ENSG00000102763	VWA8	1045.11	-0.12	5.77E-03
ENSG00000179967	PPP1R14BP3	78.49	-0.31	5.78E-03
ENSG00000106328	FSCN3	58.08	-0.25	5.79E-03
ENSG00000264468	MIR4520-1	24.06	-0.32	5.79E-03
ENSG00000111669	TPI1	3497.91	0.13	5.79E-03
ENSG00000158796	DEDD	907.69	0.09	5.83E-03
ENSG00000121964	GTDC1	918.96	-0.13	5.85E-03
ENSG00000103051	COG4	1134.78	0.09	5.85E-03
ENSG00000087053	MTMR2	456.36	0.11	5.86E-03
ENSG00000238045	MVP-DT	143.44	0.25	5.88E-03
ENSG00000260350		46.52	-0.25	5.88E-03
ENSG00000084764	MAPRE3	99.91	-0.25	5.88E-03
ENSG00000241217	RN7SL809P	55.67	-0.21	5.89E-03
ENSG00000123612	ACVR1C	184.34	-0.20	5.91E-03
ENSG00000204231	RXRB	1604.12	-0.06	5.93E-03
ENSG00000241155	ARHGAP31-AS1	34.91	0.55	5.93E-03
ENSG00000278828	H3C10	1151.06	0.27	5.93E-03
ENSG00000121039	RDH10	191.19	0.17	5.93E-03
ENSG00000177463	NR2C2	3395.01	-0.08	5.94E-03
ENSG00000182871	COL18A1	2292.12	-0.22	5.95E-03
ENSG00000119632	IFI27L2	192.91	0.20	5.95E-03
ENSG00000197860	SGTB	2522.86	0.21	5.96E-03
ENSG00000115350	POLE4	414.15	0.11	5.96E-03
ENSG00000162645	GBP2	7809.00	0.34	5.97E-03
ENSG00000082269	FAM135A	620.60	-0.13	5.98E-03
ENSG00000169891	REPS2	958.64	-0.32	5.98E-03
ENSG00000012822	CALCOCO1	2623.42	-0.14	6.05E-03
ENSG00000158373	H2BC5	998.68	0.28	6.07E-03
ENSG00000215483	LINC00598	84.22	-0.22	6.09E-03
ENSG00000123360	PDE1B	362.46	0.20	6.09E-03
ENSG00000213988	ZNF90	92.52	-0.17	6.09E-03
ENSG00000236567	TCF3P1	140.63	0.27	6.09E-03
ENSG00000185909	KLHDC8B	471.41	0.39	6.10E-03
ENSG00000134375	TIMM17A	709.81	0.19	6.10E-03
ENSG00000090621	PABPC4	3090.23	-0.09	6.12E-03
ENSG00000157881	PANK4	1474.76	-0.11	6.14E-03
ENSG00000131943	C19orf12	670.04	0.13	6.17E-03
ENSG00000180098	TRNAU1AP	536.66	0.09	6.17E-03
ENSG00000056050	HPF1	165.82	0.16	6.19E-03
ENSG00000238243	OR2W3	369.18	-0.51	6.19E-03
ENSG00000066827	ZFAT	775.92	-0.11	6.20E-03
ENSG00000267547		27.61	0.35	6.20E-03
ENSG00000246363	LINC02458	22.88	-0.43	6.23E-03
ENSG00000204584		253.57	-0.17	6.24E-03
ENSG00000280157		40.87	-0.30	6.24E-03
ENSG00000128159	TUBGCP6	3762.11	-0.09	6.25E-03
ENSG00000138279	ANXA7	2312.36	-0.09	6.29E-03

ENSG00000137942	FBNP1L	141.40	-0.16	6.29E-03
ENSG00000116957		264.65	0.10	6.30E-03
ENSG00000188493	C19orf54	172.07	0.16	6.33E-03
ENSG00000166266	CUL5	1244.95	0.08	6.33E-03
ENSG00000197982	C1orf122	828.81	0.45	6.33E-03
ENSG00000223356		75.38	-0.19	6.34E-03
ENSG00000117091	CD48	6039.31	0.18	6.38E-03
ENSG00000224597	SVIL-AS1	359.10	0.15	6.38E-03
ENSG00000263072	ZNF213-AS1	595.01	-0.11	6.38E-03
ENSG00000136824	SMC2	454.06	0.18	6.40E-03
ENSG00000074370	ATP2A3	8967.06	-0.12	6.41E-03
ENSG00000164136	IL15	270.95	0.28	6.41E-03
ENSG00000100503	NIN	6358.82	-0.15	6.42E-03
ENSG00000214135	SDHAP4	801.48	-0.08	6.42E-03
ENSG00000137869	CYP19A1	17.12	0.97	6.42E-03
ENSG00000007392	LUC7L	1716.32	-0.09	6.43E-03
ENSG00000111361	EIF2B1	841.11	0.09	6.46E-03
ENSG00000279089		195.61	-0.14	6.49E-03
ENSG00000184182	UBE2F	533.38	0.10	6.50E-03
ENSG00000134982	APC	2427.12	-0.11	6.50E-03
ENSG00000116691	MIIP	683.10	0.25	6.51E-03
ENSG00000254415	SIGLEC14	2208.08	0.42	6.51E-03
ENSG00000151923	TIAL1	2552.55	-0.06	6.52E-03
ENSG00000127578	WFIKK1	32.66	-0.37	6.52E-03
ENSG00000267749		41.90	-0.36	6.52E-03
ENSG00000143207	COP1	2910.27	-0.14	6.52E-03
ENSG00000210117	MT-TW	313.90	-0.32	6.54E-03
ENSG00000008277	ADAM22	189.40	-0.14	6.58E-03
ENSG00000173890	GPR160	528.85	-0.26	6.58E-03
ENSG00000273033	LINC02035	545.37	-0.23	6.63E-03
ENSG00000088682	COQ9	449.32	0.12	6.65E-03
ENSG00000277117		221.07	-0.28	6.65E-03
ENSG00000279227		60.93	0.37	6.67E-03
ENSG00000125772	GPCPD1	6554.64	-0.17	6.68E-03
ENSG00000183496	MEX3B	77.15	-0.19	6.69E-03
ENSG00000173545	ZNF622	868.91	0.11	6.72E-03
ENSG00000168259	DNAJC7	2143.45	0.06	6.72E-03
ENSG00000164176	EDIL3	6.26	-0.96	6.72E-03
ENSG00000013306	SLC25A39	16344.61	-0.43	6.72E-03
ENSG00000164048	ZNF589	908.54	-0.11	6.72E-03
ENSG00000132680	KHDC4	1729.10	-0.06	6.74E-03
ENSG00000229808		123.62	-0.16	6.75E-03
ENSG00000183963	SMTN	89.40	0.23	6.80E-03
ENSG00000168395	ING5	1095.59	-0.11	6.81E-03
ENSG00000264112		693.90	-0.18	6.81E-03
ENSG00000262408		46.71	0.40	6.82E-03
ENSG00000179583	CIITA	3999.68	-0.21	6.82E-03
ENSG00000249825	THBS4-AS1	217.26	-0.19	6.82E-03
ENSG00000118855	MFSD1	2367.09	0.18	6.83E-03
ENSG00000143839	REN	9.24	-1.20	6.83E-03
ENSG00000154330	PGM5	29.65	-0.76	6.83E-03
ENSG00000054219	LY75	543.75	-0.18	6.84E-03

ENSG00000075188	NUP37	258.39	0.12	6.84E-03
ENSG00000145390	USP53	895.95	-0.12	6.84E-03
ENSG00000229180	RABGEF1P1	1599.47	-0.10	6.87E-03
ENSG00000141076	UTP4	730.72	0.16	6.91E-03
ENSG00000163507	CIP2A	166.26	0.19	6.92E-03
ENSG00000110852	CLEC2B	2115.84	0.22	6.92E-03
ENSG00000230107		73.54	-0.78	6.92E-03
ENSG00000254521	SIGLEC12	67.20	-0.76	6.95E-03
ENSG00000117054	ACADM	663.70	0.12	6.96E-03
ENSG00000125900	SIRPD	69.71	-0.40	6.97E-03
ENSG00000172006	ZNF554	233.83	-0.13	6.98E-03
ENSG00000114026	OGG1	792.92	-0.09	6.98E-03
ENSG00000119596	YLPM1	2968.66	-0.12	6.99E-03
ENSG00000136997	MYC	2165.95	0.18	7.00E-03
ENSG00000257489		99.76	-0.18	7.01E-03
ENSG00000179082	LINC02913	139.61	-0.37	7.04E-03
ENSG00000181555	SETD2	5894.59	-0.10	7.05E-03
ENSG00000197122	SRC	2941.05	0.53	7.05E-03
ENSG00000279811		336.54	-0.20	7.06E-03
ENSG00000135253	KCP	23.81	0.40	7.06E-03
ENSG00000172531	PPP1CA	3200.29	0.10	7.06E-03
ENSG00000164889	SLC4A2	1585.44	0.22	7.08E-03
ENSG00000183150	GPR19	70.31	-0.22	7.09E-03
ENSG00000163161	ERCC3	1128.98	0.06	7.10E-03
ENSG00000070087	PFN2	129.52	-0.23	7.10E-03
ENSG00000166446	CDYL2	675.25	0.15	7.12E-03
ENSG00000100427	MLC1	111.39	0.42	7.12E-03
ENSG00000222365	SNORD12B	111.09	-0.30	7.12E-03
ENSG00000184307	ZDHHC23	271.06	-0.17	7.12E-03
ENSG00000083937	CHMP2B	1179.52	0.16	7.13E-03
ENSG00000230989	HSBP1	1394.50	0.18	7.14E-03
ENSG00000179023	KLHDC7A	14.41	-0.54	7.15E-03
ENSG00000145945	FAM50B	140.94	0.17	7.16E-03
ENSG00000184060	ADAP2	1129.14	0.49	7.20E-03
ENSG00000111726	CMAS	409.15	0.15	7.20E-03
ENSG00000113068	PFDN1	535.06	0.15	7.20E-03
ENSG00000273141		75.84	-0.33	7.21E-03
ENSG00000141279	NPEPPS	2487.66	-0.11	7.22E-03
ENSG00000100422	CERK	5421.63	-0.17	7.22E-03
ENSG00000248719	PRDM8-AS1	20.85	-0.38	7.22E-03
ENSG00000161031	PGLYRP2	21.88	-0.45	7.23E-03
ENSG00000197912	SPG7	2370.41	-0.10	7.24E-03
ENSG00000215158	GUSBP18	675.75	-0.11	7.24E-03
ENSG00000240038	AMY2B	433.83	-0.17	7.24E-03
ENSG00000273604	EPOP	98.02	0.41	7.24E-03
ENSG00000151470	C4orf33	244.30	0.27	7.25E-03
ENSG00000179348	GATA2	597.96	-0.26	7.26E-03
ENSG00000116117	PARD3B	29.46	-0.32	7.26E-03
ENSG00000258810		46.20	-0.38	7.27E-03
ENSG00000081014	AP4E1	739.60	0.08	7.30E-03
ENSG00000254901	BORCS8	798.85	-0.17	7.30E-03
ENSG00000134970	TMED7	1350.68	0.15	7.30E-03

ENSG00000080546	SESN1	1106.30	-0.13	7.32E-03
ENSG00000172379	ARNT2	173.39	0.99	7.34E-03
ENSG00000117266	CDK18	75.41	0.37	7.35E-03
ENSG00000147669	POLR2K	437.49	0.15	7.35E-03
ENSG00000076351	SLC46A1	213.05	0.30	7.35E-03
ENSG00000225914	TSBP1-AS1	17.96	-0.37	7.36E-03
ENSG00000164022	AIMP1	680.50	0.13	7.36E-03
ENSG00000271270	TMCC1-DT	50.47	-0.42	7.37E-03
ENSG00000254708	MMADHCP2	19.72	0.52	7.37E-03
ENSG00000116191	RALGPS2	1342.42	-0.27	7.37E-03
ENSG00000241549	GUSBP2	189.27	-0.14	7.38E-03
ENSG00000185361	TNFAIP8L1	958.13	-0.27	7.39E-03
ENSG00000162745	OLFML2B	211.57	0.78	7.43E-03
ENSG00000171680	PLEKHG5	131.90	-0.25	7.44E-03
ENSG00000105705	SUGP1	916.86	-0.08	7.48E-03
ENSG00000114030	KPNA1	2229.58	-0.14	7.49E-03
ENSG00000173442	EHBP1L1	7745.85	-0.20	7.50E-03
ENSG00000179057	IGSF22	30.24	-0.34	7.50E-03
ENSG00000140545	MFGE8	585.52	-0.13	7.50E-03
ENSG00000099992	TBC1D10A	1219.40	-0.10	7.50E-03
ENSG00000117500	TMED5	3240.35	0.18	7.50E-03
ENSG00000269482		29.61	-0.29	7.51E-03
ENSG00000134590	RTL8C	166.32	0.15	7.52E-03
ENSG00000159445	THEM4	1115.91	-0.16	7.52E-03
ENSG00000004799	PDK4	638.92	-0.41	7.52E-03
ENSG00000109756	RAPGEF2	2904.17	-0.20	7.55E-03
ENSG00000166228	PCBD1	165.59	0.23	7.55E-03
ENSG00000198911	SREBF2	3231.64	0.13	7.55E-03
ENSG00000162817	C1orf115	54.70	-0.26	7.56E-03
ENSG00000124215	CDH26	127.66	-0.23	7.57E-03
ENSG00000113615	SEC24A	1233.60	0.16	7.57E-03
ENSG00000158717	RNF166	5511.38	-0.12	7.59E-03
ENSG00000253893	FAM85B	31.54	-0.44	7.60E-03
ENSG00000246100	LINC00900	78.10	0.41	7.61E-03
ENSG00000160753	RUSC1	249.55	0.13	7.62E-03
ENSG00000137714	FDX1	553.65	0.13	7.62E-03
ENSG00000181019	NQO1	49.38	0.30	7.64E-03
ENSG00000054148	PHPT1	316.33	0.19	7.64E-03
ENSG00000155657	TTN	3083.40	-0.24	7.64E-03
ENSG00000278730		1175.61	-0.10	7.68E-03
ENSG00000100292	HMOX1	2215.80	0.32	7.68E-03
ENSG00000130254	SAFB2	2591.90	-0.09	7.68E-03
ENSG00000273373	SLC16A4-AS1	224.34	-0.18	7.71E-03
ENSG00000151575	TEX9	185.75	-0.34	7.72E-03
ENSG00000200063		23.51	-0.34	7.73E-03
ENSG00000172771	EFCAB12	127.83	-0.21	7.74E-03
ENSG00000103966	EHD4	1594.48	0.28	7.79E-03
ENSG00000138802	SEC24B	1963.27	-0.09	7.80E-03
ENSG00000175573	C11orf68	823.08	0.12	7.80E-03
ENSG00000079950	STX7	3557.04	-0.15	7.80E-03
ENSG00000257336	PRELID2P1	10.59	0.70	7.81E-03
ENSG00000103035	PSMD7	1263.19	0.11	7.83E-03

ENSG00000196275	GTF2IRD2	182.62	-0.13	7.86E-03
ENSG00000231507	LINC01353	67.67	-0.40	7.87E-03
ENSG00000236021	COP1-DT	36.59	-0.25	7.89E-03
ENSG00000163382	NAXE	438.96	0.13	7.90E-03
ENSG00000159658	EFCAB14	4105.15	0.08	7.90E-03
ENSG00000141699	RETREG3	2514.06	0.06	7.90E-03
ENSG00000169136	ATF5	747.10	0.56	7.92E-03
ENSG00000149970	CNKSR2	214.55	-0.16	7.92E-03
ENSG00000142235	LMTK3	327.88	-0.14	7.92E-03
ENSG00000034510	TMSB10	11827.40	0.27	7.92E-03
ENSG00000077238	IL4R	7331.02	-0.15	7.94E-03
ENSG00000204536	CCHCR1	369.53	0.13	7.95E-03
ENSG00000280205		114.45	-0.33	7.96E-03
ENSG00000274523	RCC1L	816.30	0.12	7.96E-03
ENSG00000228486	C2orf92	185.31	-0.14	7.99E-03
ENSG00000116127	ALMS1	1998.74	-0.11	8.00E-03
ENSG00000103671	TRIP4	722.04	0.10	8.00E-03
ENSG00000173349	SFT2D3	420.68	-0.14	8.00E-03
ENSG00000251149	MTND5P5	21.88	-0.40	8.00E-03
ENSG00000139436	GIT2	4703.70	-0.14	8.03E-03
ENSG00000213085	CFAP45	121.31	-0.63	8.06E-03
ENSG00000076984	MAP2K7	1608.08	-0.13	8.06E-03
ENSG00000171747	LGALS4	54.72	-0.21	8.08E-03
ENSG00000049860	HEXB	1682.47	0.19	8.08E-03
ENSG00000006125	AP2B1	4683.95	0.10	8.09E-03
ENSG00000278022		56.09	-0.33	8.12E-03
ENSG00000102057	KCND1	104.71	0.26	8.12E-03
ENSG00000205181	LINC00654	112.47	-0.29	8.15E-03
ENSG00000166971	AKTIP	1002.49	-0.12	8.15E-03
ENSG00000162913	OBSCN-AS1	83.86	-0.26	8.15E-03
ENSG00000049656	CLPTM1L	1752.30	0.10	8.16E-03
ENSG00000125386	FAM193A	2080.51	-0.08	8.18E-03
ENSG00000257335	MGAM	2771.23	-0.37	8.19E-03
ENSG00000183762	KREMEN1	903.01	-0.45	8.20E-03
ENSG00000274070	CASTOR2	149.47	-0.19	8.20E-03
ENSG00000118292	C1orf54	55.07	0.30	8.21E-03
ENSG00000143322	ABL2	1799.93	0.21	8.26E-03
ENSG00000165934	CPSF2	1828.07	0.12	8.26E-03
ENSG00000175920	DOK7	17.28	-0.52	8.27E-03
ENSG00000170860	LSM3	474.83	0.13	8.31E-03
ENSG00000109184	DCUN1D4	952.93	-0.08	8.32E-03
ENSG00000177410	ZFAS1	1537.62	-0.16	8.32E-03
ENSG00000136026	CKAP4	2093.18	0.33	8.34E-03
ENSG00000163359	COL6A3	113.19	-0.23	8.37E-03
ENSG00000181649	PHLDA2	157.35	0.61	8.42E-03
ENSG00000158715	SLC45A3	233.83	-0.25	8.42E-03
ENSG00000163492	CCDC141	397.37	-0.21	8.43E-03
ENSG00000123472	ATPAF1	699.21	0.09	8.43E-03
ENSG00000272079		53.49	-0.47	8.45E-03
ENSG00000180233	ZNRF2	1341.35	0.14	8.47E-03
ENSG00000133401	PDZD2	41.35	-0.32	8.49E-03
ENSG00000167633	KIR3DL1	78.70	0.30	8.52E-03

ENSG00000272112		28.58	-0.27	8.57E-03
ENSG00000213064	SFT2D2	3793.19	0.11	8.59E-03
ENSG00000114127	XRN1	6246.91	0.17	8.62E-03
ENSG00000172301	COPRS	108.33	0.21	8.63E-03
ENSG00000135070	ISCA1	1186.77	-0.22	8.63E-03
ENSG00000160183	TMPRSS3	82.00	0.22	8.63E-03
ENSG00000166592	RRAD	45.75	0.65	8.64E-03
ENSG00000125618	PAX8	78.38	0.33	8.66E-03
ENSG00000211965	IGHV3-49	31.19	0.38	8.66E-03
ENSG00000143772	ITPKB	7692.76	-0.10	8.68E-03
ENSG00000241839	PLEKHO2	6575.47	0.34	8.68E-03
ENSG00000269653		39.97	-0.26	8.68E-03
ENSG00000204256	BRD2	9232.41	0.07	8.68E-03
ENSG00000150477	KIAA1328	390.75	-0.13	8.68E-03
ENSG00000113407	TARS1	1084.41	0.17	8.68E-03
ENSG00000271335	CCNY-AS1	121.90	-0.17	8.72E-03
ENSG00000105993	DNAJB6	4854.07	-0.10	8.72E-03
ENSG00000224177	LINC00570	59.04	-0.57	8.72E-03
ENSG00000179240	GVQW3	185.94	-0.16	8.72E-03
ENSG00000170873	MTSS1	2210.51	0.19	8.72E-03
ENSG00000257875		18.72	-0.33	8.75E-03
ENSG00000140853	NLRC5	12377.70	0.18	8.75E-03
ENSG00000250222	TRIM7-AS2	32.45	-0.28	8.76E-03
ENSG00000134901	POGLUT2	17.56	0.40	8.77E-03
ENSG00000154814	OXNAD1	3169.41	-0.14	8.77E-03
ENSG00000123975	CKS2	111.07	0.34	8.79E-03
ENSG00000068400	GRIPAP1	2311.50	0.14	8.79E-03
ENSG00000187510	PLEKHG7	50.89	-0.43	8.79E-03
ENSG00000163736	PPBP	4420.55	-0.42	8.79E-03
ENSG00000183621	ZNF438	1488.07	0.31	8.79E-03
ENSG00000225889		719.86	-0.35	8.80E-03
ENSG00000249592	PCGF3-AS1	903.06	-0.13	8.81E-03
ENSG00000246273	SBF2-AS1	105.82	-0.18	8.83E-03
ENSG00000114978	MOB1A	7164.49	0.12	8.85E-03
ENSG00000232680		105.31	0.53	8.89E-03
ENSG00000165879	FRAT1	1018.67	-0.23	8.89E-03
ENSG00000126756	UXT	826.70	-0.12	8.89E-03
ENSG00000227189		45.17	-0.24	8.89E-03
ENSG00000267766		19.41	-0.37	8.89E-03
ENSG00000185033	SEMA4B	1657.51	-0.19	8.89E-03
ENSG00000064419	TNPO3	1777.73	0.08	8.91E-03
ENSG00000243264	IGKV2D-29	10.99	0.53	8.92E-03
ENSG00000160326	SLC2A6	2020.09	0.30	8.96E-03
ENSG00000167384	ZNF180	503.66	-0.11	8.96E-03
ENSG00000254685	FPGT	318.05	0.18	8.96E-03
ENSG00000107745	MICU1	1111.95	0.18	8.97E-03
ENSG00000167740	CYB5D2	209.91	-0.14	8.99E-03
ENSG00000178607	ERN1	4096.44	-0.14	9.00E-03
ENSG00000182648	RNF32-DT	61.08	-0.18	9.03E-03
ENSG00000272282	LINC02084	99.23	0.20	9.03E-03
ENSG00000239665		1550.30	-0.13	9.04E-03
ENSG00000259935		126.46	-0.24	9.04E-03

ENSG00000171155	C1GALT1C1	350.41	0.16	9.04E-03
ENSG00000143952	VPS54	805.51	0.09	9.04E-03
ENSG00000242086	MUC20-OT1	2678.92	-0.09	9.06E-03
ENSG00000170540	ARL6IP1	2190.13	0.14	9.08E-03
ENSG00000129493	HEATR5A	380.87	-0.16	9.19E-03
ENSG00000269374		18.33	0.34	9.24E-03
ENSG00000081913	PHLPP1	591.95	-0.14	9.25E-03
ENSG00000223583		31.32	-0.27	9.29E-03
ENSG00000018189	RUFY3	985.20	0.08	9.30E-03
ENSG00000168256	NKIRAS2	940.19	0.14	9.32E-03
ENSG00000107854	TNKS2	3772.30	0.07	9.32E-03
ENSG00000162413	KLHL21	3590.59	-0.18	9.33E-03
ENSG00000117758	STX12	972.55	0.14	9.33E-03
ENSG00000175662	TOM1L2	1430.33	-0.11	9.36E-03
ENSG00000224029		13.64	-0.45	9.37E-03
ENSG00000131475	VPS25	559.06	0.13	9.39E-03
ENSG00000070367	EXOC5	1602.25	0.12	9.41E-03
ENSG00000134108	ARL8B	2884.31	0.21	9.42E-03
ENSG00000228253	MT-ATP8	353.12	-0.27	9.43E-03
ENSG00000187555	USP7	3962.11	-0.10	9.43E-03
ENSG00000205629	LCMT1	483.74	0.07	9.44E-03
ENSG00000261371	PECAM1	5991.26	-0.37	9.48E-03
ENSG00000148331	ASB6	1095.53	-0.10	9.48E-03
ENSG00000005339	CREBBP	6878.55	-0.14	9.48E-03
ENSG00000224078	SNHG14	1963.00	-0.11	9.49E-03
ENSG00000131149	GSE1	2078.37	-0.12	9.50E-03
ENSG00000136448	NMT1	2031.79	0.12	9.50E-03
ENSG00000249476		403.31	-0.16	9.53E-03
ENSG00000231154	MORF4L2-AS1	55.37	-0.19	9.54E-03
ENSG00000256152		55.90	-0.23	9.54E-03
ENSG00000105610	KLF1	293.25	-0.47	9.54E-03
ENSG00000228382	ITPKB-IT1	223.08	-0.24	9.55E-03
ENSG00000114999	TTL	1062.82	0.16	9.55E-03
ENSG00000104324	CPQ	1293.02	-0.25	9.58E-03
ENSG00000119899	SLC17A5	422.15	0.13	9.58E-03
ENSG00000105708	ZNF14	643.93	-0.14	9.58E-03
ENSG00000255240		63.40	-0.25	9.59E-03
ENSG00000265612	MIR4539	37.43	-0.30	9.60E-03
ENSG00000126216	TUBGCP3	1261.02	-0.11	9.61E-03
ENSG00000141540	TTYH2	543.01	0.29	9.63E-03
ENSG00000164125	GASK1B	928.78	0.39	9.65E-03
ENSG00000185896	LAMP1	4470.95	0.17	9.65E-03
ENSG00000131899	LLGL1	710.43	0.10	9.65E-03
ENSG00000114850	SSR3	2067.65	0.09	9.69E-03
ENSG00000242028	HYPK	513.36	-0.13	9.71E-03
ENSG00000101997	CCDC22	559.38	0.11	9.74E-03
ENSG00000107443	CCNJ	316.50	0.16	9.74E-03
ENSG00000236609	ZNF853	267.25	-0.16	9.74E-03
ENSG00000280351		110.99	-0.20	9.74E-03
ENSG00000099949	LZTR1	1345.22	0.09	9.76E-03
ENSG00000237036	ZEB1-AS1	176.97	-0.17	9.78E-03
ENSG00000169994	MYO7B	84.19	-0.45	9.79E-03

ENSG00000275481		180.44	-0.21	9.79E-03
ENSG0000060491	OGFR	3700.32	0.14	9.86E-03
ENSG00000272746		139.45	-0.30	9.87E-03
ENSG00000123838	C4BPA	22.58	-1.17	9.88E-03
ENSG00000170921	TANC2	1861.31	-0.28	9.89E-03
ENSG00000196739	COL27A1	40.75	-0.27	9.89E-03
ENSG00000112053	SLC26A8	58.86	0.65	9.89E-03
ENSG00000272301		18.17	-0.38	9.92E-03
ENSG00000128218	VPREB3	139.08	-0.25	9.95E-03
ENSG00000198171	DDRGK1	700.03	0.11	1.00E-02
ENSG00000012174	MBTPS2	322.09	0.10	1.00E-02
ENSG00000108557	RAI1	1488.32	-0.10	1.00E-02
ENSG00000167004	PDIA3	3747.47	0.17	1.00E-02
ENSG00000117118	SDHB	823.89	0.11	1.01E-02
ENSG00000205730	ITPRIPL2	789.12	0.32	1.01E-02
ENSG00000121797	CCRL2	4443.83	0.70	1.01E-02
ENSG00000254554	ADM-DT	152.51	0.39	1.02E-02
ENSG00000127527	EPS15L1	2224.88	-0.17	1.02E-02
ENSG00000106305	AIMP2	256.86	0.22	1.02E-02
ENSG00000159202	UBE2Z	3159.79	0.15	1.02E-02
ENSG00000213203	GIMAP1	1757.87	0.12	1.02E-02
ENSG00000148834	GSTO1	2046.09	0.29	1.02E-02
ENSG00000237352	LINC01358	87.14	0.42	1.02E-02
ENSG00000119042	SATB2	43.02	0.34	1.03E-02
ENSG00000166278	C2	187.46	0.22	1.03E-02
ENSG00000168038	ULK4	590.74	-0.15	1.03E-02
ENSG00000147408	CSGALNACT1	2118.69	-0.19	1.03E-02
ENSG00000122224	LY9	1874.23	-0.13	1.03E-02
ENSG00000254965	C1DP5	28.84	0.28	1.03E-02
ENSG00000136810	TXN	1389.99	0.24	1.03E-02
ENSG00000276791		303.43	-0.17	1.03E-02
ENSG00000057704	TMCC3	1656.38	-0.25	1.03E-02
ENSG00000167553	TUBA1C	1253.59	0.32	1.03E-02
ENSG00000229151		134.83	-0.16	1.03E-02
ENSG00000169599	NFU1	349.26	0.12	1.03E-02
ENSG00000130695	CEP85	548.24	0.09	1.04E-02
ENSG00000222112	RN7SKP16	184.16	-0.29	1.04E-02
ENSG00000198466	ZNF587	1725.12	-0.08	1.04E-02
ENSG00000275393		24.16	-0.36	1.04E-02
ENSG00000151746	BICD1	600.66	-0.13	1.04E-02
ENSG00000162636	FAM102B	1024.71	0.19	1.04E-02
ENSG00000160446	ZDHHC12	404.76	0.25	1.04E-02
ENSG00000112249	ASCC3	2228.71	0.11	1.04E-02
ENSG00000122507	BBS9	703.70	-0.08	1.04E-02
ENSG00000167460	TPM4	5187.02	0.18	1.04E-02
ENSG00000161010	MRNIP	1013.79	-0.11	1.04E-02
ENSG00000065970	FOXJ2	1262.46	-0.11	1.05E-02
ENSG00000083812	ZNF324	761.29	-0.15	1.05E-02
ENSG00000123374	CDK2	426.21	0.14	1.06E-02
ENSG00000138286	FAM149B1	490.62	0.08	1.06E-02
ENSG00000164104	HMGB2	1652.07	0.28	1.06E-02
ENSG00000142920	AZIN2	131.07	-0.17	1.06E-02

ENSG00000144401	METTL21A	432.12	-0.10	1.06E-02
ENSG00000150403	TMCO3	1220.89	-0.16	1.06E-02
ENSG00000080189	SLC35C2	2465.86	-0.08	1.06E-02
ENSG00000135047	CTSL	6684.84	0.86	1.07E-02
ENSG00000179818	PCBP1-AS1	3262.74	-0.22	1.07E-02
ENSG00000175324	LSM1	447.93	0.12	1.07E-02
ENSG00000138614	INTS14	544.67	0.11	1.07E-02
ENSG00000138780	GSTCD	171.54	0.12	1.07E-02
ENSG00000179889	PDXDC1	1966.83	0.08	1.08E-02
ENSG00000081087	OSTM1	2643.57	0.22	1.08E-02
ENSG00000132341	RAN	2981.19	0.20	1.08E-02
ENSG00000136715	SAP130	807.16	-0.17	1.08E-02
ENSG00000161298	ZNF382	265.45	-0.11	1.09E-02
ENSG00000104381	GDAP1	161.99	0.14	1.09E-02
ENSG00000105707	HPN	127.68	0.86	1.09E-02
ENSG00000012779	ALOX5	4300.10	-0.27	1.09E-02
ENSG00000113552	GNPDA1	956.39	0.27	1.09E-02
ENSG00000204103	MAFB	7514.17	0.55	1.09E-02
ENSG00000102393	GLA	973.70	0.25	1.10E-02
ENSG00000170871	KIAA0232	2520.26	-0.13	1.10E-02
ENSG00000207808	MIR27A	39.04	-0.39	1.10E-02
ENSG00000165029	ABCA1	6671.65	0.27	1.10E-02
ENSG00000164308	ERAP2	2966.46	0.14	1.10E-02
ENSG00000157796	WDR19	579.63	-0.11	1.10E-02
ENSG00000111711	GOLT1B	832.06	0.13	1.10E-02
ENSG00000113758	DBN1	506.86	0.26	1.10E-02
ENSG00000196998	WDR45	1601.15	-0.16	1.10E-02
ENSG00000271155		44.05	-0.23	1.11E-02
ENSG00000209042	SNORD12C	57.00	-0.31	1.11E-02
ENSG00000092208	GEMIN2	157.92	0.17	1.11E-02
ENSG00000166224	SGPL1	1814.33	0.13	1.11E-02
ENSG00000004838	ZMYND10	53.86	-0.24	1.11E-02
ENSG00000181789	COPG1	2185.49	0.09	1.12E-02
ENSG00000169371	SNUPN	243.52	0.12	1.12E-02
ENSG00000117691	NENF	234.69	0.14	1.12E-02
ENSG00000100345	MYH9	23976.14	-0.17	1.12E-02
ENSG00000214975	PPIAP29	22.00	0.34	1.13E-02
ENSG00000172460	PRSS30P	51.35	0.35	1.13E-02
ENSG00000148297	MED22	1478.83	-0.12	1.13E-02
ENSG00000254799	SLC25A47P1	18.43	-0.48	1.13E-02
ENSG00000109814	UGDH	402.63	0.13	1.13E-02
ENSG00000116604	MEF2D	4416.68	-0.12	1.13E-02
ENSG00000007341	ST7L	530.99	0.10	1.13E-02
ENSG00000268615		8.25	-0.59	1.13E-02
ENSG00000282164	PEG13	401.45	-0.16	1.14E-02
ENSG00000233306	TRGV2	45.83	0.27	1.14E-02
ENSG00000230483		33.40	-0.31	1.14E-02
ENSG00000237693	IRGM	41.99	-0.28	1.15E-02
ENSG00000122025	FLT3	89.74	-0.44	1.15E-02
ENSG00000105656	ELL	3484.06	-0.18	1.15E-02
ENSG00000278053	DDX52	876.35	0.07	1.15E-02
ENSG00000118308	IRAG2	1842.62	-0.26	1.15E-02

ENSG00000075790	BCAP29	637.39	0.10	1.15E-02
ENSG00000173611	SCAI	537.07	-0.12	1.15E-02
ENSG00000164402	SEPTIN8	182.04	0.19	1.15E-02
ENSG00000137731	FXVD2	43.93	-0.28	1.15E-02
ENSG00000262712		44.41	-0.24	1.15E-02
ENSG00000116521	SCAMP3	744.01	0.09	1.16E-02
ENSG00000262766		122.60	-0.28	1.16E-02
ENSG00000197594	ENPP1	10.48	-0.48	1.16E-02
ENSG00000276105		20.70	-0.38	1.16E-02
ENSG00000130787	HIP1R	2384.67	-0.15	1.16E-02
ENSG00000253716	MINCR	81.57	-0.19	1.16E-02
ENSG00000204842	ATXN2	1535.64	-0.13	1.17E-02
ENSG00000110367	DDX6	9944.73	-0.09	1.17E-02
ENSG00000167483	NIBAN3	883.65	-0.35	1.17E-02
ENSG00000260948		67.58	-0.29	1.17E-02
ENSG00000230091	TMEM254-AS1	33.53	-0.27	1.17E-02
ENSG00000211789	TRAV12-2	55.91	0.22	1.17E-02
ENSG00000234473	ZNF101P2	63.64	-0.21	1.17E-02
ENSG00000218809		387.90	-0.46	1.17E-02
ENSG00000180263	FGD6	217.09	0.33	1.18E-02
ENSG00000169902	TPST1	272.92	-0.29	1.18E-02
ENSG00000184838	PRR16	26.49	0.56	1.19E-02
ENSG00000087842	PIR	19.68	0.59	1.19E-02
ENSG00000185000	DGAT1	863.13	-0.18	1.19E-02
ENSG00000133678	TMEM254	193.57	0.12	1.19E-02
ENSG00000135960	EDAR	374.93	-0.16	1.20E-02
ENSG00000136003	ISCU	2060.54	-0.13	1.20E-02
ENSG00000278997		115.48	-0.17	1.20E-02
ENSG00000188505	NCCRP1	30.80	-0.68	1.20E-02
ENSG00000185495	SEPTIN7P13	458.92	-0.13	1.20E-02
ENSG00000119636	BBOF1	237.16	-0.38	1.20E-02
ENSG00000171813	PWWP2B	651.98	0.14	1.20E-02
ENSG00000139725	RHOF	2721.54	-0.12	1.21E-02
ENSG00000124613	ZNF391	64.02	-0.19	1.21E-02
ENSG00000173020	GRK2	11850.85	-0.08	1.21E-02
ENSG00000008869	HEATR5B	1779.49	0.11	1.21E-02
ENSG00000198821	CD247	4142.16	0.09	1.21E-02
ENSG00000251442	LINC01094	208.83	-0.64	1.21E-02
ENSG00000196411	EPHB4	202.31	-0.37	1.22E-02
ENSG00000204054	LINC00963	2313.44	-0.14	1.22E-02
ENSG00000144580	CNOT9	1616.24	0.07	1.22E-02
ENSG00000114346	ECT2	268.96	0.21	1.22E-02
ENSG00000092200	RPGRIP1	68.24	-0.67	1.22E-02
ENSG00000100600	LGMN	1506.23	0.61	1.22E-02
ENSG00000171161	ZNF672	1315.07	0.08	1.22E-02
ENSG00000172322	CLEC12A	1083.76	0.44	1.23E-02
ENSG00000227145	IL21-AS1	18.80	0.64	1.23E-02
ENSG00000133627	ACTR3B	255.73	-0.12	1.23E-02
ENSG00000171135	JAGN1	512.99	0.11	1.23E-02
ENSG00000145555	MYO10	132.81	0.67	1.23E-02
ENSG00000181061	HIGD1A	466.60	0.15	1.23E-02
ENSG00000125505	MBOAT7	4766.68	-0.27	1.23E-02

ENSG00000103043	VAC14	2200.11	0.12	1.23E-02
ENSG00000119321	FKBP15	3541.61	0.17	1.23E-02
ENSG00000168517	HEXIM2	84.14	0.21	1.23E-02
ENSG00000108474	PIGL	660.64	-0.12	1.23E-02
ENSG00000115525	ST3GAL5	1940.02	0.16	1.23E-02
ENSG00000264456		176.21	0.31	1.23E-02
ENSG00000166432	ZMAT1	1199.27	-0.12	1.23E-02
ENSG00000151366	NDUFC2	292.00	0.12	1.23E-02
ENSG00000104432	IL7	52.35	-0.22	1.23E-02
ENSG00000052841	TTC17	2850.27	-0.06	1.24E-02
ENSG00000153094	BCL2L11	1934.67	-0.10	1.24E-02
ENSG00000239556	UPK3BL3P	129.61	-0.17	1.24E-02
ENSG00000166377	ATP9B	2842.02	-0.07	1.25E-02
ENSG00000011243	AKAP8L	1872.90	-0.10	1.25E-02
ENSG00000197937	ZNF347	489.15	-0.14	1.25E-02
ENSG00000107372	ZFAND5	5079.56	0.12	1.26E-02
ENSG00000100441	KHNYN	5218.77	-0.07	1.26E-02
ENSG00000008226	DLEC1	301.96	-0.22	1.26E-02
ENSG00000163617	CCDC191	314.75	-0.13	1.26E-02
ENSG00000149289	ZC3H12C	1090.20	0.55	1.26E-02
ENSG00000187957	DNER	32.78	0.78	1.26E-02
ENSG00000137504	CREBZF	2899.81	-0.07	1.26E-02
ENSG00000213995	NAXD	901.35	0.10	1.26E-02
ENSG00000249685		73.82	-0.22	1.27E-02
ENSG00000035681	NSMAF	2413.57	0.19	1.27E-02
ENSG00000109743	BST1	1105.95	0.34	1.27E-02
ENSG00000232021	LEF1-AS1	282.18	-0.17	1.27E-02
ENSG00000135976	ANKRD36	2609.43	-0.09	1.27E-02
ENSG00000184076	UQCR10	422.56	0.14	1.28E-02
ENSG00000112695	COX7A2	1308.52	0.14	1.28E-02
ENSG00000198682	PAPSS2	305.52	0.34	1.28E-02
ENSG00000163041	H3-3A	11622.35	-0.18	1.28E-02
ENSG00000270154		18.74	-0.37	1.28E-02
ENSG00000064995	TAF11	589.90	0.08	1.29E-02
ENSG00000268279		94.05	-0.20	1.29E-02
ENSG00000178163	ZNF518B	1737.74	-0.07	1.30E-02
ENSG00000263264		1457.49	-0.17	1.30E-02
ENSG00000083290	ULK2	504.98	0.23	1.31E-02
ENSG00000102241	HTATSF1	596.44	0.12	1.31E-02
ENSG00000204576	PRR3	404.06	-0.08	1.31E-02
ENSG00000103342	GSPT1	6006.35	-0.25	1.31E-02
ENSG00000113070	HBEGF	764.45	0.36	1.31E-02
ENSG00000140382	HMG20A	952.78	0.07	1.31E-02
ENSG00000120437	ACAT2	514.77	0.16	1.31E-02
ENSG00000206530	CFAP44	741.17	-0.13	1.31E-02
ENSG00000237637	FRY-AS1	23.21	-0.30	1.31E-02
ENSG00000211959	IGHV4-39	90.77	0.33	1.31E-02
ENSG00000196935	SRGAP1	136.58	0.43	1.31E-02
ENSG00000184863	RBM33	5552.62	-0.09	1.31E-02
ENSG00000143337	TOR1AIP1	2309.48	0.10	1.31E-02
ENSG00000164091	WDR82	4730.89	-0.08	1.31E-02
ENSG00000076356	PLXNA2	303.17	-0.21	1.31E-02

ENSG00000141002	TCF25	3614.94	-0.10	1.32E-02
ENSG00000270069	MIR222HG	552.57	0.48	1.32E-02
ENSG00000111203	ITFG2	1258.32	-0.09	1.32E-02
ENSG00000125871	MGME1	482.01	0.11	1.32E-02
ENSG00000213719	CLIC1	8555.25	0.23	1.32E-02
ENSG00000179528	LBX2	30.60	0.33	1.32E-02
ENSG00000213024	NUP62	2151.05	0.23	1.32E-02
ENSG00000107736	CDH23	1319.06	-0.38	1.33E-02
ENSG00000244879	GABPB1-AS1	2399.34	-0.16	1.33E-02
ENSG00000140265	ZSCAN29	1022.43	0.08	1.33E-02
ENSG00000279057		16.61	-0.34	1.33E-02
ENSG00000122641	INHBA	2080.91	0.66	1.33E-02
ENSG00000120738	EGR1	1708.50	0.54	1.33E-02
ENSG00000090659	CD209	77.70	0.52	1.33E-02
ENSG00000260923	LINC02193	31.23	-0.44	1.33E-02
ENSG00000157404	KIT	95.16	-0.28	1.33E-02
ENSG00000110324	IL10RA	13190.85	0.11	1.33E-02
ENSG00000133104	SPART	1538.01	0.14	1.33E-02
ENSG00000203286		30.72	-0.22	1.33E-02
ENSG00000134107	BHLHE40	4714.07	-0.21	1.34E-02
ENSG00000261349		336.17	-0.13	1.34E-02
ENSG00000162398	LEXM	36.46	0.32	1.34E-02
ENSG00000132128	LRRC41	1326.59	0.09	1.34E-02
ENSG00000233013	FAM157B	283.95	-0.43	1.34E-02
ENSG00000158156	XKR8	845.26	-0.29	1.34E-02
ENSG00000109113	RAB34	291.91	0.23	1.35E-02
ENSG00000126217	MCF2L	312.88	-0.17	1.35E-02
ENSG00000134278	SPIRE1	210.66	0.26	1.35E-02
ENSG00000249667	LINC01259	97.52	-0.21	1.35E-02
ENSG00000143476	DTL	89.07	0.35	1.35E-02
ENSG00000135625	EGR4	16.07	0.75	1.35E-02
ENSG00000127995	CASD1	921.82	-0.09	1.35E-02
ENSG00000124641	MED20	344.61	0.18	1.35E-02
ENSG00000111667	USP5	867.19	0.11	1.35E-02
ENSG00000074410	CA12	90.99	0.70	1.36E-02
ENSG00000123213	NLN	515.24	0.38	1.36E-02
ENSG00000144048	DUSP11	891.37	-0.07	1.36E-02
ENSG00000136040	PLXNC1	9323.22	-0.25	1.36E-02
ENSG00000258092		16.82	-0.29	1.36E-02
ENSG00000155313	USP25	3648.28	0.13	1.37E-02
ENSG00000072042	RDH11	794.16	0.10	1.37E-02
ENSG00000181754	AMIGO1	554.34	-0.13	1.38E-02
ENSG00000154764	WNT7A	223.81	-0.19	1.38E-02
ENSG00000064115	TM7SF3	633.26	0.10	1.39E-02
ENSG00000126821	SGPP1	561.11	0.11	1.39E-02
ENSG00000199165	MIRLET7A1	20.30	-0.36	1.39E-02
ENSG00000182183	SHISAL2A	918.57	-0.20	1.39E-02
ENSG00000006695	COX10	393.53	0.09	1.39E-02
ENSG00000131375	CAPN7	2135.78	-0.09	1.39E-02
ENSG00000116791	CRYZ	339.17	0.10	1.39E-02
ENSG00000100890	PRORP	248.18	-0.10	1.39E-02
ENSG00000187260	WDR86	65.32	-0.31	1.39E-02

ENSG00000211846	TRAJ43	84.28	-0.22	1.39E-02
ENSG00000267288		57.08	0.42	1.39E-02
ENSG00000230839		88.37	-0.38	1.40E-02
ENSG00000113790	EHHADH	40.61	0.19	1.40E-02
ENSG00000253587	IGHV3-30-2	10.38	-0.74	1.40E-02
ENSG00000111319	SCNN1A	24.43	-0.33	1.41E-02
ENSG00000238269	PAGE2B	36.57	-0.52	1.41E-02
ENSG00000126787	DLGAP5	144.57	0.38	1.41E-02
ENSG00000139679	LPAR6	1535.50	0.22	1.41E-02
ENSG00000284526		115.13	-0.34	1.41E-02
ENSG00000272498		190.23	-0.21	1.41E-02
ENSG00000171316	CHD7	2915.59	-0.12	1.42E-02
ENSG00000147383	NSDHL	188.73	0.18	1.42E-02
ENSG00000232368	FTLP2	23.24	0.51	1.42E-02
ENSG00000174306	ZHX3	350.62	-0.17	1.42E-02
ENSG00000261270		107.53	-0.23	1.42E-02
ENSG00000249086		29.17	-0.34	1.42E-02
ENSG00000126247	CAPNS1	2039.24	0.16	1.42E-02
ENSG00000234782	TPT1P9	17.77	-0.35	1.42E-02
ENSG00000106853	PTGR1	40.76	0.37	1.43E-02
ENSG00000119408	NEK6	1350.30	-0.21	1.43E-02
ENSG00000166140	ZFYVE19	531.19	0.08	1.43E-02
ENSG00000274561		174.25	-0.15	1.43E-02
ENSG00000240041	IGHJ4	54.48	-0.27	1.43E-02
ENSG00000102898	NUTF2	763.48	0.13	1.43E-02
ENSG00000066926	FECH	1745.33	-0.38	1.43E-02
ENSG00000160058	BSDC1	2593.08	-0.05	1.43E-02
ENSG00000163171	CDC42EP3	3287.84	0.19	1.43E-02
ENSG00000259158	ADAM20P1	33.93	-0.30	1.43E-02
ENSG00000239282	CASTOR1	64.92	-0.20	1.43E-02
ENSG00000186831	KRT17P2	7.72	-0.58	1.44E-02
ENSG00000230724	LINC01001	301.24	-0.37	1.44E-02
ENSG00000259703		9.21	-0.83	1.44E-02
ENSG00000236086	HMGN2P28	17.90	0.32	1.44E-02
ENSG00000171853	TRAPPC12	2885.61	-0.11	1.44E-02
ENSG00000138688	KIAA1109	8281.83	0.13	1.45E-02
ENSG00000100226	GTPBP1	4981.01	0.14	1.45E-02
ENSG00000002745	WNT16	10.20	-0.45	1.45E-02
ENSG00000234936		82.30	-0.18	1.45E-02
ENSG00000074800	ENO1	8544.87	0.18	1.45E-02
ENSG00000189043	NDUFA4	1239.43	0.16	1.45E-02
ENSG00000278757		8.90	-0.70	1.45E-02
ENSG00000128284	APOL3	4202.95	0.15	1.46E-02
ENSG00000172716	SLFN11	1456.48	0.18	1.46E-02
ENSG00000084731	KIF3C	229.64	-0.33	1.47E-02
ENSG00000143153	ATP1B1	177.67	0.31	1.47E-02
ENSG00000258659	TRIM34	14.24	0.37	1.47E-02
ENSG00000136878	USP20	2221.43	-0.08	1.47E-02
ENSG00000106268	NUDT1	168.91	0.19	1.47E-02
ENSG00000118960	HS1BP3	1250.35	0.15	1.47E-02
ENSG00000178971	CTC1	3483.47	-0.08	1.47E-02
ENSG00000197971	MBP	7494.56	-0.12	1.48E-02

ENSG00000106052	TAX1BP1	4476.94	-0.10	1.48E-02
ENSG00000151694	ADAM17	3278.52	0.30	1.48E-02
ENSG00000136854	STXBP1	181.28	-0.15	1.48E-02
ENSG00000151552	QDPR	272.22	0.14	1.48E-02
ENSG00000117322	CR2	129.54	-0.28	1.48E-02
ENSG00000173915	ATP5MK	667.01	0.14	1.49E-02
ENSG00000214160	ALG3	375.90	0.12	1.49E-02
ENSG00000181163	NPM1	8436.69	-0.11	1.49E-02
ENSG00000281357	ARRDC3-AS1	122.33	0.16	1.49E-02
ENSG00000276449		51.57	-0.24	1.50E-02
ENSG00000235655	H3P6	1835.37	-0.19	1.50E-02
ENSG00000134830	C5AR2	1198.04	-0.31	1.50E-02
ENSG00000101160	CTS2	4770.61	0.21	1.50E-02
ENSG00000090238	YPEL3	4695.62	-0.20	1.50E-02
ENSG00000135940	COX5B	1168.40	0.17	1.51E-02
ENSG00000089876	DHX32	312.49	0.09	1.51E-02
ENSG00000176542	USF3	2368.59	-0.14	1.51E-02
ENSG00000211947	IGHV3-21	65.68	0.35	1.51E-02
ENSG00000173918	C1QTNF1	122.50	1.17	1.51E-02
ENSG00000146425	DYNLT1	1994.54	0.16	1.52E-02
ENSG00000142798	HSPG2	158.54	-0.22	1.52E-02
ENSG00000111087	GLI1	16.62	-0.32	1.52E-02
ENSG00000088881	EBF4	141.10	-0.21	1.52E-02
ENSG00000100519	PSMC6	1495.42	0.10	1.52E-02
ENSG00000100994	PYGB	1555.67	0.09	1.53E-02
ENSG00000009954	BAZ1B	2583.62	0.09	1.53E-02
ENSG00000145287	PLAC8	2946.66	0.26	1.53E-02
ENSG00000228280		14.39	0.42	1.53E-02
ENSG00000146701	MDH2	1214.19	0.09	1.53E-02
ENSG00000172115	CYCS	1108.50	0.13	1.53E-02
ENSG00000197530	MIB2	1116.29	-0.13	1.53E-02
ENSG00000283602		89.51	0.37	1.53E-02
ENSG00000106701	FSD1L	307.42	0.25	1.53E-02
ENSG00000143669	LYST	17430.75	-0.29	1.54E-02
ENSG00000213753	CENPBD2P	796.98	-0.14	1.54E-02
ENSG00000154803	FLCN	2247.36	0.27	1.54E-02
ENSG00000148655	LRMDA	106.10	0.34	1.55E-02
ENSG00000081041	CXCL2	5069.86	0.74	1.55E-02
ENSG00000213742	ZNF337-AS1	153.38	-0.12	1.55E-02
ENSG00000161040	FBXL13	289.65	-0.31	1.55E-02
ENSG00000117360	PRPF3	1813.64	-0.05	1.55E-02
ENSG00000273472		33.46	-0.27	1.55E-02
ENSG00000271553		34.84	-0.29	1.56E-02
ENSG00000204936	CD177	48.08	0.69	1.56E-02
ENSG00000236255		216.48	-0.23	1.56E-02
ENSG00000205352	PRR13	2397.40	0.12	1.56E-02
ENSG00000256116		63.22	-0.21	1.56E-02
ENSG00000267895		21.38	-0.48	1.56E-02
ENSG00000086232	EIF2AK1	3156.12	-0.22	1.57E-02
ENSG00000109381	ELF2	2986.06	-0.10	1.57E-02
ENSG00000217801		91.73	0.56	1.57E-02
ENSG00000168010	ATG16L2	8240.80	-0.27	1.57E-02

ENSG00000177464	GPR4	22.60	-1.14	1.57E-02
ENSG00000175274	TP53I11	1142.64	-0.22	1.57E-02
ENSG00000117305	HMGCL	769.84	0.09	1.58E-02
ENSG00000239213	NCK1-DT	95.63	0.15	1.58E-02
ENSG00000077514	POLD3	556.67	0.10	1.58E-02
ENSG00000225880	LINC00115	146.60	-0.13	1.58E-02
ENSG00000148399	DPH7	707.69	-0.07	1.59E-02
ENSG00000278231		296.16	-0.21	1.59E-02
ENSG00000266338	NBPF15	1350.81	-0.11	1.59E-02
ENSG00000141446	ESCO1	2028.31	-0.10	1.59E-02
ENSG00000133794	ARNTL	1962.45	-0.11	1.59E-02
ENSG00000176619	LMNB2	826.94	0.21	1.60E-02
ENSG00000260805		58.11	0.30	1.60E-02
ENSG00000141098	GFOD2	555.94	-0.14	1.60E-02
ENSG00000158985	CDC42SE2	9206.21	-0.08	1.60E-02
ENSG00000065485	PDIA5	142.95	0.18	1.60E-02
ENSG00000225630	MTND2P28	46.57	-0.27	1.60E-02
ENSG00000066056	TIE1	16.15	-0.47	1.60E-02
ENSG00000179094	PER1	2813.97	-0.33	1.60E-02
ENSG00000100612	DHRS7	1454.08	-0.16	1.61E-02
ENSG00000137500	CCDC90B	965.24	0.10	1.61E-02
ENSG00000047849	MAP4	2136.98	0.11	1.61E-02
ENSG00000272148		61.73	-0.18	1.61E-02
ENSG00000187815	ZFP69	124.03	0.14	1.62E-02
ENSG00000268659		17.28	0.44	1.62E-02
ENSG00000104765	BNIP3L	17262.52	-0.43	1.62E-02
ENSG00000178188	SH2B1	2069.34	-0.07	1.62E-02
ENSG00000099337	KCNK6	829.21	-0.16	1.63E-02
ENSG00000174953	DHX36	2395.72	0.08	1.63E-02
ENSG00000155970	MICU3	205.78	-0.13	1.63E-02
ENSG00000154640	BTG3	591.79	0.19	1.63E-02
ENSG00000279155		12.55	-0.57	1.64E-02
ENSG00000196209	SIRPB2	1335.08	-0.45	1.64E-02
ENSG00000284387	MIR24-2	29.16	-0.47	1.64E-02
ENSG00000198876	DCAF12	13031.59	-0.38	1.64E-02
ENSG00000103196	CRISPLD2	882.46	-0.45	1.64E-02
ENSG00000188396	DYNLT4	61.84	-0.34	1.64E-02
ENSG00000279727	LINC02033	193.81	0.21	1.64E-02
ENSG00000112031	MTRF1L	404.39	0.09	1.64E-02
ENSG00000113456	RAD1	521.07	-0.08	1.64E-02
ENSG00000166562	SEC11C	436.37	0.13	1.64E-02
ENSG00000170545	SMAGP	88.43	0.15	1.65E-02
ENSG00000196890	H2BU1	275.37	0.25	1.65E-02
ENSG00000267275	KLF2-DT	53.89	-0.28	1.65E-02
ENSG00000134686	PHC2	3733.74	-0.22	1.65E-02
ENSG00000159363	ATP13A2	1163.58	0.14	1.65E-02
ENSG00000153071	DAB2	623.86	0.28	1.65E-02
ENSG00000105438	KDELRL1	721.26	0.11	1.65E-02
ENSG00000143416	SELENBP1	1436.18	-0.48	1.65E-02
ENSG00000120533	ENY2	734.40	0.09	1.65E-02
ENSG00000110713	NUP98	6004.47	-0.13	1.65E-02
ENSG00000186866	POFUT2	1363.32	-0.11	1.65E-02

ENSG00000149656		27.76	-0.24	1.65E-02
ENSG00000157916	RER1	2194.90	-0.06	1.67E-02
ENSG00000102174	PHEX	39.79	-0.25	1.67E-02
ENSG00000170558	CDH2	7.87	-0.75	1.68E-02
ENSG00000172663	TMEM134	678.25	-0.10	1.68E-02
ENSG00000134698	AGO4	2658.23	-0.18	1.68E-02
ENSG00000188827	SLX4	513.97	0.10	1.68E-02
ENSG00000257017	HP	50.63	0.52	1.68E-02
ENSG00000100266	PACSIN2	3375.62	-0.20	1.68E-02
ENSG00000166887	VPS39	2385.77	0.08	1.68E-02
ENSG00000196458	ZNF605	448.95	-0.10	1.68E-02
ENSG00000272953		46.51	-0.42	1.68E-02
ENSG00000080503	SMARCA2	6076.51	-0.13	1.68E-02
ENSG00000111640	GAPDH	12175.83	0.16	1.69E-02
ENSG00000100122	CRYBB1	8.20	0.61	1.69E-02
ENSG00000011009	LYPLA2	1145.85	0.09	1.70E-02
ENSG00000070759	TESK2	433.39	-0.16	1.70E-02
ENSG00000234771	SLC25A25-AS1	544.79	-0.15	1.71E-02
ENSG00000281358	RASSF1-AS1	47.78	-0.31	1.71E-02
ENSG00000169032	MAP2K1	1801.04	0.11	1.71E-02
ENSG00000135446	CDK4	622.46	0.15	1.71E-02
ENSG00000187024	PTRH1	164.96	0.18	1.71E-02
ENSG00000133460	SLC2A11	262.26	-0.13	1.71E-02
ENSG00000105711	SCN1B	532.41	0.46	1.72E-02
ENSG00000283103		85.39	-0.16	1.72E-02
ENSG00000036565	SLC18A1	10.76	-0.70	1.72E-02
ENSG00000132718	SYT11	782.29	0.14	1.72E-02
ENSG00000040275	SPDL1	199.57	0.15	1.72E-02
ENSG00000114812	VIPR1	1067.82	-0.23	1.73E-02
ENSG00000057757	PITHD1	1321.24	-0.20	1.73E-02
ENSG00000261338		243.18	-0.14	1.73E-02
ENSG00000183474	GTF2H2C	260.13	0.10	1.73E-02
ENSG00000204394	VAR51	777.71	0.14	1.73E-02
ENSG00000125637	PSD4	6370.13	-0.08	1.74E-02
ENSG00000129932	DOHH	197.65	0.24	1.74E-02
ENSG00000251934	RNU6-1143P	19.86	-0.29	1.74E-02
ENSG00000103226	NOMO3	256.95	-0.15	1.74E-02
ENSG00000230751		69.40	-0.24	1.74E-02
ENSG00000160050	CCDC28B	104.23	0.17	1.75E-02
ENSG00000213380	COG8	314.83	-0.11	1.75E-02
ENSG00000256553	TRAV1-2	65.49	0.17	1.75E-02
ENSG00000246016	LINC01513	14.00	0.53	1.76E-02
ENSG00000169696	ASPSCR1	635.79	0.11	1.77E-02
ENSG00000081870	HSPB11	391.77	0.09	1.77E-02
ENSG00000138459	SLC35A5	678.48	0.12	1.77E-02
ENSG00000173862		18.06	-0.37	1.77E-02
ENSG00000284138	ATP6V0CP4	55.35	-0.20	1.77E-02
ENSG00000198513	ATL1	69.95	-0.19	1.78E-02
ENSG00000196139	AKR1C3	116.19	0.23	1.78E-02
ENSG00000278058		14.45	0.32	1.78E-02
ENSG00000272391	POM121C	2110.27	-0.10	1.78E-02
ENSG00000106723	SPIN1	1039.24	0.08	1.78E-02

ENSG00000279095		50.42	-0.23	1.79E-02
ENSG00000113369	ARRDC3	7999.49	0.16	1.79E-02
ENSG00000102349	KLF8	127.25	-0.30	1.79E-02
ENSG00000119673	ACOT2	162.89	0.18	1.79E-02
ENSG00000153767	GTF2E1	549.07	0.19	1.79E-02
ENSG00000196199	MPHOSPH8	2273.10	-0.07	1.79E-02
ENSG00000080561	MID2	176.65	-0.13	1.80E-02
ENSG00000085760	MTIF2	483.00	0.07	1.80E-02
ENSG00000227374		53.96	-0.23	1.80E-02
ENSG00000157227	MMP14	2348.40	0.39	1.80E-02
ENSG00000135205	CCDC146	392.09	0.14	1.80E-02
ENSG00000126860	EVI2A	2448.61	0.20	1.80E-02
ENSG00000226849		68.95	-0.23	1.80E-02
ENSG00000145293	ENOPH1	510.92	0.11	1.81E-02
ENSG00000099622	CIRBP	5522.47	-0.10	1.81E-02
ENSG00000109854	HTATIP2	818.46	0.14	1.82E-02
ENSG00000132780	NASP	1465.26	0.10	1.82E-02
ENSG00000184860	SDR42E1	310.75	-0.10	1.82E-02
ENSG00000113971	NPHP3	408.79	-0.10	1.82E-02
ENSG00000228784	LINC00954	658.53	-0.10	1.82E-02
ENSG00000138172	CALHM2	839.22	0.24	1.82E-02
ENSG00000213373	LINC00671	28.19	-0.55	1.82E-02
ENSG00000254463	PPIAP41	180.27	-0.13	1.83E-02
ENSG00000166313	APBB1	1321.59	-0.12	1.83E-02
ENSG00000106560	GIMAP2	2918.45	0.14	1.83E-02
ENSG00000166734	GOLM2	2546.30	-0.12	1.83E-02
ENSG00000270441	LAMB2P1	158.81	-0.16	1.83E-02
ENSG00000128342	LIF	543.73	0.72	1.83E-02
ENSG00000112081	SRSF3	7082.88	0.08	1.83E-02
ENSG00000100483	VCPKMT	512.76	-0.13	1.83E-02
ENSG00000267254	ZNF790-AS1	81.09	-0.15	1.83E-02
ENSG00000114487	MORC1	16.66	-0.47	1.83E-02
ENSG00000183354	KIAA2026	2484.31	-0.08	1.83E-02
ENSG00000186918	ZNF395	840.26	-0.13	1.83E-02
ENSG00000275092		75.64	-0.17	1.83E-02
ENSG00000163541	SUCLG1	661.25	0.10	1.84E-02
ENSG00000258337		91.83	-0.25	1.84E-02
ENSG00000155961	RAB39B	331.55	-0.13	1.84E-02
ENSG00000185338	SOCS1	1111.87	0.25	1.84E-02
ENSG00000173273	TNKS	2096.71	-0.07	1.84E-02
ENSG00000117335	CD46	6101.25	-0.23	1.84E-02
ENSG00000108179	PPIF	7551.34	0.40	1.84E-02
ENSG00000123643	SLC36A1	1260.85	0.17	1.84E-02
ENSG00000143951	WDPCP	343.64	-0.11	1.84E-02
ENSG00000005007	UPF1	4299.13	-0.09	1.84E-02
ENSG00000138069	RAB1A	3136.57	0.15	1.84E-02
ENSG00000197520	FAM177B	105.91	-0.30	1.84E-02
ENSG00000087263	OGFOD1	614.77	0.12	1.84E-02
ENSG00000117519	CNN3	120.45	-0.25	1.85E-02
ENSG00000186522	SEPTIN10	179.99	0.31	1.85E-02
ENSG00000270872	SRGAP2D	41.16	0.20	1.85E-02
ENSG00000137672	TRPC6	19.30	0.33	1.85E-02

ENSG00000225528		202.71	-0.14	1.85E-02
ENSG00000090924	PLEKHG2	1577.65	0.18	1.86E-02
ENSG00000100697	DICER1	4057.52	-0.14	1.86E-02
ENSG00000213015	ZNF580	543.07	-0.10	1.86E-02
ENSG00000165118	C9orf64	194.75	0.11	1.88E-02
ENSG00000077721	UBE2A	1183.51	0.10	1.88E-02
ENSG00000205702	CYP2D7	102.48	-0.21	1.88E-02
ENSG00000224638		42.06	-0.28	1.89E-02
ENSG00000105366	SIGLEC8	142.00	0.30	1.89E-02
ENSG00000276934		45.84	0.22	1.89E-02
ENSG00000166164	BRD7	1773.16	0.06	1.89E-02
ENSG00000001617	SEMA3F	23.27	0.49	1.90E-02
ENSG00000269958		490.40	-0.09	1.90E-02
ENSG00000117560	FASLG	258.13	0.49	1.90E-02
ENSG00000271858		167.35	-0.16	1.90E-02
ENSG00000237172	B3GNT9	127.35	-0.16	1.91E-02
ENSG00000076258	FMO4	90.29	0.15	1.91E-02
ENSG00000148346	LCN2	325.28	0.30	1.91E-02
ENSG00000136048	DRAM1	2506.33	0.42	1.91E-02
ENSG00000187239	FNBP1	7047.02	-0.10	1.92E-02
ENSG00000196917	HCAR1	114.60	-0.72	1.92E-02
ENSG00000143753	DEGS1	1281.18	0.10	1.92E-02
ENSG00000244687	UBE2V1	711.03	-0.09	1.92E-02
ENSG00000237980	LINC02773	13.66	0.49	1.93E-02
ENSG00000278829		327.84	-0.19	1.93E-02
ENSG00000081148	IMPG2	156.02	-0.15	1.93E-02
ENSG00000047579	DTNBP1	857.27	0.14	1.94E-02
ENSG00000105520	PLPPR2	927.39	-0.24	1.94E-02
ENSG00000213923	CSNK1E	1022.27	-0.09	1.94E-02
ENSG00000148175	STOM	2617.64	0.22	1.94E-02
ENSG00000205542	TMSB4X	46769.14	0.18	1.94E-02
ENSG00000266998		114.52	-0.18	1.94E-02
ENSG00000162994	CLHC1	239.34	-0.15	1.94E-02
ENSG00000134759	ELP2	2011.26	-0.07	1.94E-02
ENSG00000245812	LINC02202	13.63	-0.39	1.94E-02
ENSG00000240859	LINC03014	118.74	0.24	1.94E-02
ENSG00000211660	IGLV2-23	134.22	0.39	1.95E-02
ENSG00000125977	EIF2S2	1294.96	0.13	1.95E-02
ENSG00000183718	TRIM52	1707.64	-0.10	1.95E-02
ENSG00000107185	RGP1	1561.57	-0.07	1.95E-02
ENSG00000133030	MPRIP	6313.75	-0.10	1.95E-02
ENSG00000204138	PHACTR4	1025.21	0.07	1.96E-02
ENSG00000257557	PPP1R12A-AS1	45.03	0.22	1.96E-02
ENSG00000231964		25.87	-0.32	1.96E-02
ENSG00000156675	RAB11FIP1	4006.52	-0.22	1.96E-02
ENSG00000198840	MT-ND3	457.73	-0.30	1.96E-02
ENSG00000084676	NCOA1	3303.39	-0.17	1.96E-02
ENSG00000278969		31.32	0.54	1.96E-02
ENSG00000135378	PRRG4	273.73	0.43	1.96E-02
ENSG00000279700		141.58	-0.15	1.96E-02
ENSG00000202566	MIR421	40.52	-0.27	1.97E-02
ENSG00000112818	MEP1A	8.73	0.68	1.97E-02

ENSG00000163864	NMNAT3	100.83	-0.16	1.97E-02
ENSG00000058799	YIPF1	466.64	0.18	1.97E-02
ENSG00000155506	LARP1	4149.31	0.10	1.97E-02
ENSG00000100632	ERH	758.61	0.13	1.97E-02
ENSG00000156858	PRR14	1189.84	-0.09	1.97E-02
ENSG00000103569	AQP9	24283.28	0.32	1.98E-02
ENSG00000225806		25.66	-0.27	1.98E-02
ENSG00000106624	AEBP1	188.15	-0.15	1.98E-02
ENSG00000132155	RAF1	5732.84	-0.15	1.98E-02
ENSG00000279166		1257.73	0.25	1.99E-02
ENSG00000162517	PEF1	1042.80	0.10	1.99E-02
ENSG00000232593	KANTR	618.94	-0.12	1.99E-02
ENSG00000183690	EFHC2	71.07	-0.49	1.99E-02
ENSG00000244116	IGKV2-28	19.38	0.41	1.99E-02
ENSG00000103978	TMEM87A	1454.97	0.08	1.99E-02
ENSG00000162542	TMCO4	752.04	0.12	2.00E-02
ENSG00000167377	ZNF23	128.02	-0.14	2.00E-02
ENSG00000163428	LRRC58	1419.31	0.09	2.00E-02
ENSG00000278376		85.11	-0.17	2.00E-02
ENSG00000186260	MRTFB	659.04	-0.11	2.00E-02
ENSG00000175147	TMEM51-AS1	17.24	0.63	2.01E-02
ENSG00000122565	CBX3	2868.58	0.11	2.01E-02
ENSG00000069998	HDHD5	561.57	0.10	2.01E-02
ENSG00000123104	ITPR2	4155.06	-0.11	2.01E-02
ENSG00000116212	LRRC42	177.74	0.13	2.01E-02
ENSG00000114779	ABHD14B	758.21	-0.12	2.02E-02
ENSG00000197976	AKAP17A	3578.54	-0.10	2.02E-02
ENSG00000152380	FAM151B	90.65	0.24	2.02E-02
ENSG00000214140	PRCD	119.48	-0.36	2.02E-02
ENSG00000281649	EBLN3P	2187.93	-0.10	2.02E-02
ENSG00000197978	GOLGA6L9	130.79	-0.15	2.02E-02
ENSG00000271257		27.45	-0.66	2.02E-02
ENSG00000162769	FLVCR1	733.96	-0.21	2.02E-02
ENSG00000196154	S100A4	2939.18	0.26	2.03E-02
ENSG00000167118	URM1	801.88	0.10	2.03E-02
ENSG00000097096	SYDE2	152.85	-0.23	2.04E-02
ENSG00000188895	MSL1	4605.62	-0.18	2.04E-02
ENSG00000175066	GK5	1310.21	0.13	2.04E-02
ENSG00000229512		699.49	0.39	2.04E-02
ENSG00000108344	PSMD3	1313.30	0.08	2.05E-02
ENSG00000075223	SEMA3C	491.67	0.30	2.05E-02
ENSG00000174132	FAM174A	182.76	-0.22	2.05E-02
ENSG00000171408	PDE7B	99.50	-0.22	2.05E-02
ENSG00000156970	BUB1B	58.22	0.29	2.06E-02
ENSG00000129933	MAU2	3264.61	-0.08	2.06E-02
ENSG00000151623	NR3C2	991.50	-0.15	2.06E-02
ENSG00000256658		21.49	-0.28	2.06E-02
ENSG00000184678	H2BC21	2245.66	0.19	2.06E-02
ENSG00000126767	ELK1	807.92	0.11	2.06E-02
ENSG00000201451		39.18	-0.27	2.06E-02
ENSG00000180537	RNF182	142.51	-0.53	2.06E-02
ENSG00000121406	ZNF549	600.09	-0.09	2.06E-02

ENSG00000173163	COMMD1	254.56	0.11	2.06E-02
ENSG00000122376	SHLD2	672.05	0.13	2.06E-02
ENSG00000058335	RASGRF1	31.21	-0.37	2.07E-02
ENSG00000277825		17.55	-0.30	2.07E-02
ENSG00000220201	ZGLP1	36.99	0.22	2.07E-02
ENSG00000147457	CHMP7	4290.58	-0.11	2.08E-02
ENSG00000115507	OTX1	7.62	-0.84	2.08E-02
ENSG00000163634	THOC7	528.97	0.10	2.08E-02
ENSG00000198121	LPAR1	241.21	0.28	2.08E-02
ENSG00000198805	PNP	1793.16	0.34	2.08E-02
ENSG00000155093	PTPRN2	100.80	0.29	2.08E-02
ENSG00000163812	ZDHHC3	1895.98	-0.07	2.09E-02
ENSG00000135749	PCNX2	2129.93	-0.11	2.09E-02
ENSG00000006530	AGK	699.97	0.12	2.09E-02
ENSG00000117791	MTARC2	21.88	-0.28	2.09E-02
ENSG00000234457		13.15	-0.40	2.10E-02
ENSG00000152520	PAN3	3419.12	-0.09	2.10E-02
ENSG00000198026	ZNF335	2063.12	-0.07	2.10E-02
ENSG00000143401	ANP32E	1818.90	0.15	2.10E-02
ENSG00000175305	CCNE2	88.93	0.30	2.10E-02
ENSG00000142655	PEX14	481.78	0.09	2.10E-02
ENSG00000261542		126.51	-0.21	2.11E-02
ENSG00000179841	AKAP5	331.67	0.39	2.11E-02
ENSG00000256525	POLG2	587.03	-0.07	2.11E-02
ENSG00000241772		86.16	-0.24	2.11E-02
ENSG00000113300	CNOT6	1377.34	0.10	2.12E-02
ENSG00000168310	IRF2	3372.23	0.12	2.12E-02
ENSG00000213057	C1orf220	95.23	-0.20	2.13E-02
ENSG00000137171	KLC4	535.58	-0.09	2.13E-02
ENSG00000089723	OTUB2	17.67	0.31	2.13E-02
ENSG00000257151		283.80	-0.20	2.14E-02
ENSG00000119782	FKBP1B	31.97	-0.40	2.14E-02
ENSG00000266236	NARF-IT1	61.62	-0.39	2.14E-02
ENSG00000137767	SQOR	1437.97	0.25	2.15E-02
ENSG00000148842	CNNM2	708.29	-0.13	2.15E-02
ENSG00000277443	MARCKS	15288.81	0.51	2.15E-02
ENSG00000249863		82.12	-0.21	2.15E-02
ENSG00000033011	ALG1	393.80	0.11	2.16E-02
ENSG00000214018	RRM2P3	14.69	-0.50	2.16E-02
ENSG00000255559	ZNF252P-AS1	90.77	-0.21	2.16E-02
ENSG00000172965	MIR4435-2HG	762.20	0.18	2.16E-02
ENSG00000274752	TRBV12-3	20.80	0.29	2.16E-02
ENSG00000007541	PIGQ	679.99	-0.10	2.17E-02
ENSG00000198342	ZNF442	89.21	0.19	2.17E-02
ENSG00000138606	SHF	161.33	-0.13	2.17E-02
ENSG00000175602	CCDC85B	568.86	0.23	2.17E-02
ENSG00000173230	GOLGB1	3252.87	-0.09	2.17E-02
ENSG00000118482	PHF3	5482.32	-0.08	2.17E-02
ENSG00000176845	METRNL	3226.99	0.17	2.18E-02
ENSG00000089639	GMIP	6226.01	-0.11	2.18E-02
ENSG00000136156	ITM2B	16903.28	-0.22	2.18E-02
ENSG00000230587	LINC02580	123.46	-0.18	2.18E-02

ENSG00000124198	ARFGEF2	2438.77	0.09	2.19E-02
ENSG00000174780	SRP72	2284.69	0.10	2.19E-02
ENSG00000175556	LONRF3	687.07	0.20	2.20E-02
ENSG00000139190	VAMP1	1464.65	-0.11	2.20E-02
ENSG00000005469	CROT	249.41	0.10	2.20E-02
ENSG00000124103	FAM209A	106.60	0.16	2.20E-02
ENSG00000169756	LIMS1	4602.46	0.27	2.20E-02
ENSG00000162972	MAIP1	269.03	0.15	2.20E-02
ENSG00000275560		680.91	-0.15	2.20E-02
ENSG00000166716	ZNF592	3038.89	-0.10	2.20E-02
ENSG00000226233		21.23	0.36	2.21E-02
ENSG00000103852	TTC23	40.76	0.25	2.21E-02
ENSG00000065618	COL17A1	29.08	0.62	2.22E-02
ENSG00000243064	ABCC13	108.99	-0.49	2.22E-02
ENSG00000226025		56.45	0.36	2.22E-02
ENSG00000169241	SLC50A1	486.61	0.13	2.22E-02
ENSG00000143786	CNIH3	74.01	-0.20	2.22E-02
ENSG00000168411	RFWD3	996.95	0.08	2.23E-02
ENSG00000141867	BRD4	5451.11	-0.12	2.23E-02
ENSG00000111850	SMIM8	340.26	-0.15	2.23E-02
ENSG00000117400	MPL	16.29	-0.56	2.23E-02
ENSG00000148730	EIF4EBP2	3579.93	-0.09	2.24E-02
ENSG00000117592	PRDX6	3307.95	-0.24	2.24E-02
ENSG00000259421		14.39	-0.35	2.24E-02
ENSG00000104998	IL27RA	1529.04	0.13	2.24E-02
ENSG00000126264	HCST	527.02	0.21	2.24E-02
ENSG00000104331	BPNT2	1374.02	0.08	2.24E-02
ENSG00000141349	G6PC3	338.82	0.14	2.24E-02
ENSG00000236670	KRT18P5	74.18	-0.17	2.24E-02
ENSG00000181790	ADGRB1	270.07	0.34	2.25E-02
ENSG00000205356	TECPR1	2764.91	-0.10	2.25E-02
ENSG00000144306	SCRN3	338.76	0.12	2.25E-02
ENSG00000198492	YTHDF2	1823.24	0.06	2.25E-02
ENSG00000164609	SLU7	1920.40	0.09	2.25E-02
ENSG00000261342		17.31	-0.33	2.26E-02
ENSG00000162433	AK4	537.04	0.77	2.27E-02
ENSG00000185684	EP400P1	778.97	-0.09	2.27E-02
ENSG00000268362		538.75	-0.10	2.27E-02
ENSG00000134255	CEPT1	1658.84	0.17	2.27E-02
ENSG00000124570	SERPINB6	1160.58	0.14	2.27E-02
ENSG00000179361	ARID3B	1397.12	-0.11	2.28E-02
ENSG00000067334	DNTTIP2	2077.78	0.15	2.28E-02
ENSG00000108448	TRIM16L	63.16	-0.20	2.28E-02
ENSG00000258976		18.18	-0.52	2.28E-02
ENSG00000204344	STK19	305.14	-0.10	2.29E-02
ENSG00000206651		116.97	-0.22	2.29E-02
ENSG00000049769	PPP1R3F	502.30	-0.10	2.29E-02
ENSG00000198467	TPM2	207.87	-0.19	2.29E-02
ENSG00000138375	SMARCA1	722.16	0.11	2.29E-02
ENSG00000259735		16.86	0.48	2.29E-02
ENSG00000115762	PLEKHB2	4224.85	0.16	2.29E-02
ENSG00000253008	MIR2355	31.14	-0.30	2.30E-02

ENSG00000223552	CCR5A5	191.09	0.35	2.30E-02
ENSG00000140379	BCL2A1	6841.95	0.29	2.30E-02
ENSG00000185499	MUC1	14.78	0.58	2.30E-02
ENSG00000145423	SFRP2	35.36	-0.56	2.31E-02
ENSG00000225873	C3orf86	101.48	-0.35	2.31E-02
ENSG00000099968	BCL2L13	1310.65	0.08	2.32E-02
ENSG00000255112	CHMP1B	2653.34	-0.14	2.32E-02
ENSG00000248712	CCDC153	24.08	-0.40	2.32E-02
ENSG00000159788	RGS12	314.59	0.24	2.32E-02
ENSG00000152457	DCLRE1C	921.66	0.08	2.33E-02
ENSG00000232184		44.64	-0.27	2.33E-02
ENSG00000233365		7.49	-0.68	2.33E-02
ENSG00000126106	TMEM53	71.67	0.22	2.33E-02
ENSG00000187862	TTC24	130.34	-0.17	2.34E-02
ENSG00000198863	RUNDC1	895.17	-0.13	2.34E-02
ENSG00000256235	SMIM3	377.61	0.19	2.34E-02
ENSG00000234664	HMGN2P5	23.99	0.28	2.35E-02
ENSG00000257803	PIGAP1	24.76	0.49	2.35E-02
ENSG00000168014	C2CD3	2138.43	0.08	2.35E-02
ENSG00000266918		22.70	-0.30	2.35E-02
ENSG00000233006	MIR3936HG	108.24	-0.17	2.35E-02
ENSG00000126070	AGO3	2537.65	-0.08	2.36E-02
ENSG00000233214		63.47	0.51	2.36E-02
ENSG00000188786	MTF1	4117.24	0.34	2.36E-02
ENSG00000174837	ADGRE1	1658.85	0.33	2.36E-02
ENSG00000169203	NPIP12	194.66	-0.17	2.37E-02
ENSG00000264885		66.88	-0.17	2.37E-02
ENSG00000185404	SP140L	1574.67	0.09	2.37E-02
ENSG00000261114		74.97	-0.22	2.38E-02
ENSG00000164733	CTSB	23281.94	0.28	2.38E-02
ENSG00000130962	PRRG1	10.32	0.45	2.38E-02
ENSG00000262039		23.11	-0.26	2.38E-02
ENSG00000162236	STX5	1383.83	-0.08	2.38E-02
ENSG00000218226	TATDN2P2	22.66	0.26	2.39E-02
ENSG00000089006	SNX5	2092.25	0.12	2.39E-02
ENSG00000274307		151.44	0.15	2.39E-02
ENSG00000182809	CRIP2	127.70	-0.34	2.39E-02
ENSG00000266904	LINC00663	105.40	-0.14	2.39E-02
ENSG00000164944	VIRMA	1704.37	-0.06	2.40E-02
ENSG00000271806		9.32	-0.64	2.40E-02
ENSG00000132912	DCTN4	1753.96	0.08	2.40E-02
ENSG00000065357	DGKA	4897.38	-0.10	2.40E-02
ENSG00000078804	TP53INP2	866.06	-0.26	2.41E-02
ENSG00000031691	CENPQ	110.19	0.19	2.41E-02
ENSG00000004961	HCCS	347.03	0.17	2.41E-02
ENSG00000264895		231.34	-0.14	2.41E-02
ENSG00000197622	CDC42SE1	15391.66	-0.08	2.41E-02
ENSG00000244482	LILRA6	1562.78	0.25	2.41E-02
ENSG00000263857	MIR4729	26.02	-0.25	2.41E-02
ENSG00000146143	PRIM2	327.46	0.09	2.41E-02
ENSG00000183508	TENT5C	11420.06	-0.32	2.41E-02
ENSG00000102218	RP2	1553.56	0.15	2.42E-02

ENSG00000004399	PLXND1	3426.92	0.14	2.42E-02
ENSG00000118363	SPCS2	1284.19	0.11	2.42E-02
ENSG00000143369	ECM1	39.20	0.28	2.42E-02
ENSG00000131203	IDO1	1571.90	0.47	2.42E-02
ENSG00000186106	ANKRD46	537.97	-0.10	2.43E-02
ENSG00000214776		120.31	-0.17	2.43E-02
ENSG00000167613	LAIR1	2867.66	0.28	2.43E-02
ENSG00000110801	PSMD9	299.01	0.11	2.43E-02
ENSG00000100325	ASCC2	4140.14	-0.24	2.43E-02
ENSG00000016864	GLT8D1	493.66	0.08	2.43E-02
ENSG00000163806	SPDYA	196.09	-0.22	2.44E-02
ENSG00000235072	ARNILA	73.92	-0.26	2.44E-02
ENSG00000169018	FEM1B	2173.66	0.07	2.44E-02
ENSG00000149136	SSRP1	1319.61	0.09	2.44E-02
ENSG00000231249	ITPR1-DT	32.54	-0.33	2.44E-02
ENSG00000148339	SLC25A25	854.02	0.13	2.44E-02
ENSG00000251381	LINC00958	10.71	-0.73	2.45E-02
ENSG00000184489	PTP4A3	612.25	-0.28	2.45E-02
ENSG00000120705	ETF1	3492.60	0.13	2.45E-02
ENSG00000100154	TTC28	107.89	-0.22	2.45E-02
ENSG00000243440		40.86	0.63	2.46E-02
ENSG00000272636	DOC2B	17.75	0.47	2.46E-02
ENSG00000162407	PLPP3	1308.37	0.76	2.46E-02
ENSG00000112763	BTN2A1	2664.92	0.14	2.46E-02
ENSG00000168566	SNRNP48	671.55	-0.08	2.47E-02
ENSG00000150540	HNMT	1115.99	0.41	2.47E-02
ENSG00000242076	IGKV1-33	11.39	0.46	2.47E-02
ENSG00000012048	BRCA1	439.14	0.16	2.47E-02
ENSG00000187583	PLEKHN1	51.19	0.25	2.48E-02
ENSG00000143382	ADAMTSL4	458.93	0.33	2.48E-02
ENSG00000256628	ZBTB11-AS1	303.06	-0.10	2.49E-02
ENSG00000240233	RN7SL587P	40.38	0.26	2.49E-02
ENSG00000196072	BLOC1S2	902.28	0.11	2.49E-02
ENSG00000254017	IGHEP2	82.01	0.25	2.49E-02
ENSG00000237940	LINC01238	144.32	-0.30	2.49E-02
ENSG00000110917	MLEC	2067.11	0.15	2.49E-02
ENSG00000260565	ERVK13-1	1975.98	-0.08	2.49E-02
ENSG00000155252	PI4K2A	726.58	0.15	2.49E-02
ENSG00000207008	SNORA54	54.14	-0.20	2.50E-02
ENSG00000167083	GNGT2	181.49	0.15	2.51E-02
ENSG00000100354	TNRC6B	8948.71	-0.11	2.51E-02
ENSG00000272990		26.66	-0.32	2.51E-02
ENSG00000160712	IL6R	5876.94	-0.18	2.51E-02
ENSG00000028528	SNX1	3574.56	0.05	2.52E-02
ENSG00000263220		23.65	-0.26	2.52E-02
ENSG00000169217	CD2BP2	1842.29	0.09	2.52E-02
ENSG00000204356	NELFE	1059.35	0.08	2.52E-02
ENSG00000117115	PADI2	3312.86	-0.33	2.53E-02
ENSG00000201558	RNVU1-6	17.18	0.50	2.53E-02
ENSG00000263731		130.12	-0.16	2.53E-02
ENSG00000107242	PIP5K1B	217.82	-0.19	2.53E-02
ENSG00000260766		67.63	-0.21	2.53E-02

ENSG00000241490		136.26	-0.17	2.53E-02
ENSG00000197969	VPS13A	3086.35	-0.08	2.54E-02
ENSG00000148219	ASTN2	88.61	-0.17	2.54E-02
ENSG00000164258	NDUFS4	297.17	0.12	2.54E-02
ENSG00000272980		66.60	-0.20	2.54E-02
ENSG00000177889	UBE2N	1565.22	0.11	2.54E-02
ENSG00000088854	DNAAF9	634.70	0.11	2.54E-02
ENSG00000170615	SLC26A5	15.09	-0.45	2.54E-02
ENSG00000214894	LINC00243	568.23	-0.23	2.54E-02
ENSG00000028137	TNFRSF1B	21565.22	0.19	2.55E-02
ENSG00000078747	ITCH	3472.07	-0.09	2.55E-02
ENSG00000166770	ZNF667-AS1	48.75	-0.22	2.55E-02
ENSG00000179299	NSUN7	176.62	-0.31	2.56E-02
ENSG00000235008		19.09	-0.34	2.56E-02
ENSG00000260190		26.37	-0.27	2.56E-02
ENSG00000262380		141.53	-0.18	2.56E-02
ENSG00000248283	CCNL2P1	128.29	-0.14	2.56E-02
ENSG00000215039	CD27-AS1	186.67	0.15	2.56E-02
ENSG00000135336	ORC3	664.44	0.09	2.56E-02
ENSG00000254876	SUGT1P4-STRA6LP	122.52	-0.13	2.57E-02
ENSG00000160767	FAM189B	263.23	0.11	2.57E-02
ENSG00000228140	EFHD2-AS1	103.40	0.24	2.57E-02
ENSG00000279355		336.88	0.25	2.57E-02
ENSG00000023287	RB1CC1	3442.17	-0.12	2.57E-02
ENSG00000111012	CYP27B1	83.73	0.43	2.57E-02
ENSG00000221926	TRIM16	163.14	-0.12	2.57E-02
ENSG00000265354	TIMM23	591.94	0.11	2.57E-02
ENSG00000137103	TMEM8B	190.29	-0.15	2.57E-02
ENSG00000121644	DESI2	859.05	0.08	2.57E-02
ENSG00000243789	JMJD7	116.88	-0.15	2.57E-02
ENSG00000171940	ZNF217	5329.63	-0.16	2.57E-02
ENSG00000272606	PPP4R3B-DT	154.69	-0.14	2.58E-02
ENSG00000130748	TMEM160	240.52	0.17	2.58E-02
ENSG00000184465	WDR27	1000.12	-0.12	2.58E-02
ENSG00000183735	TBK1	1700.13	0.17	2.58E-02
ENSG00000111276	CDKN1B	6432.38	-0.09	2.59E-02
ENSG00000136108	CKAP2	534.53	0.13	2.59E-02
ENSG00000224897	POT1-AS1	24.25	-0.26	2.59E-02
ENSG00000179950	PUF60	1888.20	0.07	2.60E-02
ENSG00000221855	TAS2R41	13.41	-0.40	2.60E-02
ENSG00000215068	ANXA2R-AS1	599.87	-0.10	2.60E-02
ENSG00000123064	DDX54	1433.40	0.09	2.60E-02
ENSG00000057663	ATG5	954.11	0.08	2.60E-02
ENSG00000136235	GNPNMB	734.05	0.78	2.60E-02
ENSG00000142347	MYO1F	13757.12	-0.22	2.60E-02
ENSG00000129158	SERGEF	458.74	-0.09	2.60E-02
ENSG00000214530	STARD10	531.00	-0.19	2.60E-02
ENSG00000255669		43.48	-0.24	2.61E-02
ENSG00000280069		148.34	-0.15	2.61E-02
ENSG00000111837	MAK	156.53	-0.42	2.61E-02
ENSG00000268392		27.03	-0.24	2.61E-02
ENSG00000026297	RNASET2	3933.92	-0.20	2.61E-02

ENSG00000184009	ACTG1	22391.26	0.14	2.62E-02
ENSG00000260940		223.48	-0.22	2.62E-02
ENSG00000204305	AGER	551.73	-0.15	2.63E-02
ENSG00000109685	NSD2	1822.69	0.07	2.63E-02
ENSG00000100100	PIK3IP1	11542.31	-0.12	2.63E-02
ENSG00000100796	PPP4R3A	3984.39	-0.05	2.63E-02
ENSG00000264937		16.02	-0.30	2.63E-02
ENSG00000135862	LAMC1	125.62	-0.24	2.63E-02
ENSG00000242294	STAG3L5P	688.40	-0.10	2.63E-02
ENSG00000100201	DDX17	39027.28	-0.06	2.63E-02
ENSG00000118873	RAB3GAP2	1939.80	0.07	2.63E-02
ENSG00000238227	TMEM250	1054.96	0.12	2.64E-02
ENSG00000077585	GPR137B	709.41	0.21	2.64E-02
ENSG00000152242	C1orf25	2102.48	0.14	2.64E-02
ENSG00000197121	PGAP1	630.22	0.29	2.64E-02
ENSG00000196419	XRCC6	3769.80	0.10	2.64E-02
ENSG00000121417	ZNF211	799.98	-0.07	2.64E-02
ENSG00000265874	MIR4489	32.81	-0.26	2.64E-02
ENSG00000162614	NEXN	53.12	0.34	2.65E-02
ENSG00000276758		35.80	0.44	2.65E-02
ENSG00000137078	SIT1	540.61	0.14	2.66E-02
ENSG00000088038	CNOT3	1301.11	-0.09	2.66E-02
ENSG00000206418	RAB12	643.40	0.11	2.66E-02
ENSG00000120158	RCL1	608.79	-0.14	2.66E-02
ENSG00000182732	RGS6	51.65	-0.41	2.66E-02
ENSG00000197329	PELI1	5637.88	-0.23	2.67E-02
ENSG00000250790		34.38	-0.25	2.69E-02
ENSG00000145990	GFOD1	805.15	0.22	2.69E-02
ENSG00000069956	MAPK6	2025.87	0.26	2.69E-02
ENSG00000114573	ATP6V1A	2728.03	-0.17	2.69E-02
ENSG00000118564	FBXL5	6435.19	0.18	2.69E-02
ENSG00000100461	RBM23	3015.79	-0.10	2.69E-02
ENSG00000207087	RNU6-242P	48.28	-0.20	2.69E-02
ENSG00000168300	PCMTD1	4570.04	-0.18	2.69E-02
ENSG00000211445	GPX3	132.96	-0.43	2.70E-02
ENSG00000111802	TDP2	2686.12	0.18	2.70E-02
ENSG00000124795	DEK	3550.01	0.11	2.70E-02
ENSG00000113555	PCDH12	51.78	0.67	2.70E-02
ENSG00000166128	RAB8B	6263.04	0.21	2.71E-02
ENSG00000250602		15.62	-0.32	2.71E-02
ENSG00000137411	VAR52	652.68	0.09	2.71E-02
ENSG00000270108		211.68	-0.12	2.71E-02
ENSG00000168827	GFM1	1002.01	0.09	2.71E-02
ENSG00000134049	IER3IP1	288.86	0.13	2.72E-02
ENSG00000226450	CYP2D8P	117.39	-0.16	2.72E-02
ENSG00000258733	LINC02328	225.42	0.13	2.72E-02
ENSG00000280376		24.68	-0.30	2.72E-02
ENSG00000266097	MIR5192	29.53	0.25	2.72E-02
ENSG00000206077	ZDHHC11B	99.72	-0.25	2.72E-02
ENSG00000151023	ENKUR	88.80	-0.36	2.73E-02
ENSG00000161643	SIGLEC16	71.51	0.48	2.73E-02
ENSG00000235821	IFITM4P	21.50	0.30	2.73E-02

ENSG00000136827	TOR1A	1268.94	0.16	2.73E-02
ENSG00000244021		52.77	-0.28	2.73E-02
ENSG00000119912	IDE	764.90	0.07	2.74E-02
ENSG00000150455	TIRAP	459.82	-0.14	2.74E-02
ENSG00000156976	EIF4A2	8472.36	0.09	2.74E-02
ENSG00000132388	UBE2G1	1378.82	-0.08	2.74E-02
ENSG00000183023	SLC8A1	1567.09	0.28	2.75E-02
ENSG00000225039	LINC01058	19.07	-0.30	2.75E-02
ENSG00000180917	CMTR2	974.88	0.16	2.76E-02
ENSG00000197063	MAFG	1854.89	0.28	2.76E-02
ENSG00000177485	ZBTB33	1170.01	0.11	2.76E-02
ENSG00000174788	PCP2	36.98	-0.21	2.76E-02
ENSG00000116489	CAPZA1	10551.84	0.15	2.76E-02
ENSG00000108349	CASC3	3306.03	-0.09	2.76E-02
ENSG00000154305	MIA3	2394.90	0.09	2.76E-02
ENSG00000099901	RANBP1	544.71	0.14	2.76E-02
ENSG00000168883	USP39	1118.03	0.05	2.76E-02
ENSG00000164241	C5orf63	318.88	-0.12	2.76E-02
ENSG00000184588	PDE4B	8184.35	-0.20	2.76E-02
ENSG00000103381	CPPED1	2349.61	-0.41	2.77E-02
ENSG00000090273	NUDC	642.40	0.12	2.77E-02
ENSG00000174851	YIF1A	507.73	0.17	2.77E-02
ENSG00000250361	GYPB	241.83	-0.46	2.78E-02
ENSG00000130202	NECTIN2	674.97	0.29	2.78E-02
ENSG00000260296		66.70	-0.18	2.78E-02
ENSG00000283236		83.35	-0.17	2.78E-02
ENSG00000174807	CD248	86.09	-0.21	2.78E-02
ENSG00000164535	DAGLB	1161.82	-0.17	2.79E-02
ENSG00000243066	RN7SL842P	13.44	-0.43	2.79E-02
ENSG00000162976	SLC66A3	465.26	0.20	2.79E-02
ENSG00000159685	CHCHD6	131.20	-0.13	2.79E-02
ENSG00000279031		34.14	-0.21	2.80E-02
ENSG00000197776	KLHDC1	232.98	-0.10	2.80E-02
ENSG00000165516	KLHDC2	1240.81	-0.15	2.80E-02
ENSG00000135473	PAN2	1284.47	-0.07	2.80E-02
ENSG00000170315	UBB	23048.12	-0.30	2.80E-02
ENSG00000204366	ZBTB12	53.39	-0.24	2.80E-02
ENSG00000084733	RAB10	4376.70	0.20	2.80E-02
ENSG00000144028	SNRNP200	6394.93	-0.08	2.81E-02
ENSG00000260220	CCDC187	18.28	-0.30	2.81E-02
ENSG00000143344	RGL1	1686.18	0.68	2.81E-02
ENSG00000166946	CCNDBP1	2768.66	-0.13	2.81E-02
ENSG00000240853	RN7SL328P	180.21	-0.17	2.81E-02
ENSG00000158352	SHROOM4	20.69	-0.53	2.81E-02
ENSG00000138722	MMRN1	108.54	-0.37	2.82E-02
ENSG00000268861		13.16	-0.36	2.82E-02
ENSG00000180822	PSMG4	1280.40	-0.10	2.82E-02
ENSG00000114125	RNF7	940.58	0.09	2.82E-02
ENSG00000279407		235.44	-0.15	2.82E-02
ENSG00000087074	PPP1R15A	9331.21	0.21	2.83E-02
ENSG00000276603		162.36	-0.11	2.83E-02
ENSG00000188559	RALGAP2	3397.28	-0.13	2.83E-02

ENSG00000238228	OR7E7P	77.48	-0.17	2.84E-02
ENSG00000163599	CTLA4	518.17	0.14	2.84E-02
ENSG00000113734	BNIP1	158.93	0.18	2.84E-02
ENSG00000260793		194.34	-0.13	2.84E-02
ENSG00000132846	ZBED3	88.58	-0.21	2.85E-02
ENSG00000272182		45.69	-0.18	2.85E-02
ENSG00000106636	YKT6	1655.24	0.08	2.86E-02
ENSG00000230330	HMGN2P3	47.13	0.22	2.87E-02
ENSG00000238446	RNU7-38P	35.05	0.36	2.87E-02
ENSG00000278467		134.44	-0.13	2.87E-02
ENSG00000169955	ZNF747	281.58	-0.11	2.87E-02
ENSG00000259151	CAP2P1	94.87	-0.23	2.87E-02
ENSG00000166479	TMX3	1777.23	0.09	2.87E-02
ENSG00000274322		77.76	-0.25	2.87E-02
ENSG00000164961	WASHC5	1500.09	0.11	2.88E-02
ENSG00000182670	TTC3	4758.28	-0.08	2.89E-02
ENSG00000182742	HOXB4	129.55	0.17	2.90E-02
ENSG00000070018	LRP6	137.00	-0.15	2.90E-02
ENSG00000111845	PAK1IP1	245.34	0.17	2.90E-02
ENSG00000279861		241.36	0.34	2.90E-02
ENSG00000136379	ABHD17C	167.78	0.26	2.90E-02
ENSG00000248714	ZNF652-AS1	51.61	-0.18	2.90E-02
ENSG00000196323	ZBTB44	3397.39	-0.08	2.91E-02
ENSG00000064726	BTBD1	1371.12	0.06	2.91E-02
ENSG00000105738	SIPA1L3	2108.62	-0.10	2.91E-02
ENSG00000134440	NARS1	1846.49	0.08	2.91E-02
ENSG00000174775	HRAS	191.82	0.12	2.92E-02
ENSG00000122873	CISD1	157.35	0.13	2.92E-02
ENSG00000155849	ELMO1	3200.38	-0.11	2.92E-02
ENSG00000188725	SMIM15	659.02	0.17	2.92E-02
ENSG00000212907	MT-ND4L	859.35	-0.34	2.92E-02
ENSG00000176659	LINC02910	76.95	-0.32	2.92E-02
ENSG00000130147	SH3BP4	46.71	-0.30	2.93E-02
ENSG00000139132	FGD4	1602.60	0.23	2.93E-02
ENSG00000183258	DDX41	876.73	0.08	2.93E-02
ENSG00000185112	FAM43A	529.44	-0.24	2.93E-02
ENSG00000164023	SGMS2	280.34	0.24	2.93E-02
ENSG00000121486	TRMT1L	996.96	0.15	2.93E-02
ENSG00000196391	ZNF774	17.82	0.29	2.94E-02
ENSG00000143742	SRP9	1942.13	0.09	2.94E-02
ENSG00000119682	AREL1	2449.67	-0.10	2.94E-02
ENSG00000101049	SGK2	21.14	-0.26	2.94E-02
ENSG00000179542	SLITRK4	30.56	0.55	2.94E-02
ENSG00000172053	QARS1	1781.60	-0.13	2.95E-02
ENSG00000087338	GMCL1	902.48	-0.14	2.95E-02
ENSG00000164296	TIGD6	119.56	0.15	2.95E-02
ENSG00000141627	DYM	1676.84	-0.06	2.95E-02
ENSG00000171552	BCL2L1	9867.24	-0.33	2.95E-02
ENSG00000160223	ICOSLG	244.66	-0.23	2.96E-02
ENSG00000065328	MCM10	51.84	0.32	2.96E-02
ENSG00000161533	ACOX1	1930.42	-0.19	2.96E-02
ENSG00000259641		9.64	-0.59	2.96E-02

ENSG00000279425		202.82	-0.14	2.96E-02
ENSG00000204248	COL11A2	47.34	-0.25	2.96E-02
ENSG00000140307	GTF2A2	623.59	0.11	2.97E-02
ENSG00000231187	SYT15-AS1	8.68	0.53	2.97E-02
ENSG00000243477	NAA80	232.19	-0.12	2.98E-02
ENSG00000267990		39.44	-0.36	2.98E-02
ENSG00000145491	ROPN1L	102.56	0.39	2.99E-02
ENSG00000164266	SPINK1	93.21	1.10	2.99E-02
ENSG00000214999		99.05	-0.16	2.99E-02
ENSG00000232953	HSPA8P18	19.51	-0.36	3.00E-02
ENSG00000170638	TRABD	3045.49	-0.09	3.00E-02
ENSG00000171860	C3AR1	4238.04	0.58	3.00E-02
ENSG00000115685	PPP1R7	925.61	0.07	3.01E-02
ENSG00000165626	BEND7	19.47	-0.56	3.01E-02
ENSG00000076928	ARHGEF1	12592.40	-0.09	3.01E-02
ENSG00000029364	SLC39A9	1439.05	0.06	3.01E-02
ENSG00000160190	SLC37A1	1126.73	0.11	3.01E-02
ENSG00000259940		49.28	-0.19	3.02E-02
ENSG00000105974	CAV1	14.67	0.43	3.02E-02
ENSG00000206635	RNU6-1062P	15.99	-0.38	3.02E-02
ENSG00000196449	YRDC	591.76	0.15	3.02E-02
ENSG00000196549	MME	1910.87	-0.53	3.02E-02
ENSG00000107949	BCCIP	695.48	0.13	3.02E-02
ENSG00000165699	TSC1	1710.65	-0.06	3.02E-02
ENSG00000165304	MELK	84.11	0.32	3.03E-02
ENSG00000197540	GZMM	765.72	0.17	3.03E-02
ENSG00000120519	SLC10A7	355.02	0.09	3.03E-02
ENSG00000250317	SMIM20	183.68	0.14	3.03E-02
ENSG00000134871	COL4A2	55.56	0.44	3.03E-02
ENSG00000156136	DCK	1439.95	0.07	3.03E-02
ENSG00000121350	PYROXD1	971.85	0.11	3.03E-02
ENSG00000196597	ZNF782	511.67	-0.09	3.03E-02
ENSG00000273176		67.14	0.39	3.03E-02
ENSG00000112234	FBXL4	1156.91	-0.09	3.03E-02
ENSG00000241770		19.42	-0.28	3.03E-02
ENSG00000199179	MIRLET7I	21.53	0.33	3.04E-02
ENSG00000125968	ID1	35.73	0.44	3.04E-02
ENSG00000249307	LINC01088	12.57	-0.40	3.04E-02
ENSG00000271819	RNU6-94P	40.60	-0.20	3.05E-02
ENSG00000173715	C11orf80	191.89	-0.16	3.05E-02
ENSG00000211943	IGHV3-15	51.00	0.28	3.06E-02
ENSG00000277203		178.12	-0.16	3.06E-02
ENSG00000174151	CYB561D1	1298.41	-0.07	3.06E-02
ENSG00000100425	BRD1	3010.38	-0.08	3.06E-02
ENSG00000242110	AMACR	66.48	-0.24	3.07E-02
ENSG00000181109	OR52P1	14.68	0.40	3.07E-02
ENSG00000137168	PPIL1	225.13	0.25	3.07E-02
ENSG00000160075	SSU72	3168.41	-0.06	3.07E-02
ENSG00000112983	BRD8	1054.13	-0.12	3.07E-02
ENSG00000163785	RYK	1188.96	-0.06	3.08E-02
ENSG00000165457	FOLR2	20.92	0.56	3.08E-02
ENSG00000091844	RGS17	9.75	0.45	3.08E-02

ENSG00000177200	CHD9	2894.39	-0.10	3.09E-02
ENSG00000079462	PAFAH1B3	143.82	0.23	3.09E-02
ENSG00000105352	CEACAM4	552.39	-0.43	3.09E-02
ENSG00000205639	MFSD2B	139.86	-0.35	3.10E-02
ENSG00000148719	DNAJB12	1588.80	-0.09	3.10E-02
ENSG00000157343	ARMC12	18.30	-0.28	3.10E-02
ENSG00000171631	P2RY6	194.06	0.43	3.11E-02
ENSG00000198879	SFMBT2	1996.84	0.13	3.11E-02
ENSG00000138641	HERC3	2965.23	-0.13	3.11E-02
ENSG00000162775	RBM15	1907.61	-0.06	3.11E-02
ENSG00000163126	ANKRD23	103.16	-0.13	3.11E-02
ENSG00000153048	CARHSP1	759.14	-0.13	3.11E-02
ENSG00000188305	PEAK3	333.02	-0.27	3.11E-02
ENSG00000100448	CTSG	24.61	0.40	3.12E-02
ENSG00000180964	TCEAL8	249.03	0.14	3.14E-02
ENSG00000235453	SMIM27	87.73	-0.20	3.14E-02
ENSG00000166598	HSP90B1	5309.03	0.20	3.15E-02
ENSG00000257621	PSMA3-AS1	3703.90	-0.08	3.15E-02
ENSG00000136634	IL10	131.57	0.47	3.15E-02
ENSG00000014914	MTMR11	157.32	0.22	3.15E-02
ENSG00000111775	COX6A1	633.94	0.15	3.15E-02
ENSG00000279549		130.47	-0.26	3.15E-02
ENSG00000270062		89.13	-0.23	3.15E-02
ENSG00000171222	SCAND1	741.83	0.16	3.16E-02
ENSG00000161277	THAP8	74.44	0.18	3.16E-02
ENSG00000159147	DONSON	172.29	0.11	3.17E-02
ENSG00000182247	UBE2E2	303.44	0.13	3.18E-02
ENSG00000232814	COL4A2-AS1	21.50	0.56	3.18E-02
ENSG00000204520	MICA	453.80	0.14	3.18E-02
ENSG00000162373	BEND5	81.76	-0.16	3.19E-02
ENSG00000113384	GOLPH3	1921.69	0.06	3.19E-02
ENSG00000204220	PFDN6	143.76	0.12	3.19E-02
ENSG00000105619	TFPT	202.08	0.10	3.19E-02
ENSG00000121741	ZMYM2	3852.15	-0.12	3.19E-02
ENSG00000273682		39.09	-0.16	3.19E-02
ENSG00000187695		38.05	-0.46	3.19E-02
ENSG00000131100	ATP6V1E1	2176.29	0.14	3.19E-02
ENSG00000163354	DCST2	16.60	-0.39	3.19E-02
ENSG00000073536	NLE1	417.11	-0.12	3.19E-02
ENSG00000140368	PSTPIP1	2999.48	-0.12	3.19E-02
ENSG00000273742	MIR6075	89.82	-0.24	3.19E-02
ENSG00000250138		242.11	0.56	3.19E-02
ENSG00000112796	ENPP5	92.12	0.19	3.19E-02
ENSG00000181634	TNFSF15	3550.95	1.11	3.19E-02
ENSG00000167371	PRRT2	23.38	-0.26	3.20E-02
ENSG00000158773	USF1	2234.44	0.10	3.21E-02
ENSG00000152894	PTPRK	116.11	-0.23	3.21E-02
ENSG00000281106	TMEM272	379.49	-0.26	3.21E-02
ENSG00000240972	MIF	239.70	0.15	3.21E-02
ENSG00000215305	VPS16	1068.98	0.10	3.21E-02
ENSG00000279430		68.53	-0.44	3.21E-02
ENSG00000277895		25.26	0.42	3.21E-02

ENSG00000260425		30.25	-0.23	3.22E-02
ENSG00000188732	FAM221A	150.25	0.12	3.22E-02
ENSG00000275395	FCGBP	991.17	-0.23	3.22E-02
ENSG00000276291	FRG1HP	817.34	-0.06	3.22E-02
ENSG00000179598	PLD6	182.87	0.19	3.22E-02
ENSG00000211842	TRAJ47	80.93	-0.21	3.22E-02
ENSG00000136169	SETDB2	1466.40	0.10	3.22E-02
ENSG00000283234		21.82	-0.35	3.22E-02
ENSG00000073060	SCARB1	294.49	-0.27	3.22E-02
ENSG00000005812	FBXL3	2230.46	-0.08	3.23E-02
ENSG00000150753	CCT5	2789.10	0.21	3.24E-02
ENSG00000240857	RDH14	289.76	0.12	3.24E-02
ENSG00000159210	SNF8	833.55	0.06	3.25E-02
ENSG00000130024	PHF10	2112.02	-0.07	3.25E-02
ENSG00000090316	MAEA	3011.33	-0.13	3.26E-02
ENSG00000186976	EFCAB6	22.15	-0.28	3.27E-02
ENSG00000198478	SH3BGRL2	403.77	-0.33	3.27E-02
ENSG00000125827	TMX4	2532.19	-0.21	3.27E-02
ENSG00000107593	PKD2L1	16.21	0.44	3.27E-02
ENSG00000121211	MND1	15.20	0.42	3.29E-02
ENSG00000127311	HELB	3107.48	0.10	3.29E-02
ENSG00000011258	MBTD1	1465.93	-0.07	3.29E-02
ENSG00000164081	TEX264	833.45	0.11	3.30E-02
ENSG00000105732	ZNF574	509.28	-0.13	3.30E-02
ENSG00000049618	ARID1B	6118.61	-0.08	3.31E-02
ENSG00000235385	LINC02154	98.35	0.90	3.31E-02
ENSG00000101901	ALG13	1755.43	-0.08	3.31E-02
ENSG00000168282	MGAT2	1393.46	0.13	3.31E-02
ENSG00000279589		23.20	-0.24	3.31E-02
ENSG00000145907	G3BP1	4444.31	0.09	3.31E-02
ENSG00000262222		117.64	-0.33	3.31E-02
ENSG00000115840	SLC25A12	500.14	0.09	3.31E-02
ENSG00000221944	TIGD1	538.94	-0.17	3.31E-02
ENSG00000232788	ITGA6-AS1	38.71	-0.19	3.32E-02
ENSG00000154736	ADAMTS5	6.93	-1.52	3.32E-02
ENSG00000133805	AMPD3	4409.95	-0.35	3.32E-02
ENSG00000197265	GTF2E2	676.80	0.07	3.33E-02
ENSG00000211642	IGLV10-54	13.40	0.66	3.34E-02
ENSG00000198089	SFI1	3239.90	-0.10	3.34E-02
ENSG00000239521	CASTOR3	901.33	-0.11	3.34E-02
ENSG00000102043	MTMR8	166.85	-0.10	3.34E-02
ENSG00000186710	CFAP73	8.34	-0.48	3.35E-02
ENSG00000119986	AVPI1	172.70	0.21	3.35E-02
ENSG00000076242	MLH1	1086.18	0.08	3.35E-02
ENSG00000132507	EIF5A	5298.10	0.14	3.36E-02
ENSG00000225864		46.76	0.32	3.36E-02
ENSG00000237892	KLF7-IT1	131.65	-0.22	3.36E-02
ENSG00000159753	CARMIL2	1293.63	-0.12	3.37E-02
ENSG00000090686	USP48	2376.47	-0.10	3.37E-02
ENSG00000270589		194.16	-0.17	3.37E-02
ENSG00000169242	EFNA1	38.89	-0.30	3.37E-02
ENSG00000233716	MTFR2P1	15.94	-0.29	3.38E-02

ENSG00000247287	PRKCH-AS1	230.46	-0.12	3.38E-02
ENSG00000242550	SERPINB10	23.40	0.43	3.38E-02
ENSG00000197299	BLM	333.22	0.13	3.38E-02
ENSG00000144893	MED12L	145.06	-0.26	3.39E-02
ENSG00000042445	RETSAT	509.81	0.08	3.39E-02
ENSG00000108479	GALK1	287.27	0.24	3.40E-02
ENSG00000227591	HSD11B1-AS1	52.15	-0.31	3.40E-02
ENSG00000164010	ERMAP	328.28	0.13	3.40E-02
ENSG00000246582	TNFRSF10A-DT	102.57	-0.12	3.40E-02
ENSG00000136732	GYPC	10275.42	-0.31	3.40E-02
ENSG00000197147	LRRC8B	843.92	-0.10	3.41E-02
ENSG00000099940	SNAP29	932.69	0.09	3.41E-02
ENSG00000214439	FAM185BP	136.70	-0.14	3.41E-02
ENSG00000144504	ANKMY1	1667.06	-0.08	3.42E-02
ENSG00000255200	PGAM1P8	30.10	-0.25	3.42E-02
ENSG00000050405	LIMA1	318.43	0.15	3.42E-02
ENSG00000183527	PSMG1	215.32	0.10	3.43E-02
ENSG00000273341		54.91	0.45	3.43E-02
ENSG00000159674	SPON2	937.39	0.25	3.43E-02
ENSG00000276568		29.01	0.44	3.43E-02
ENSG00000133059	DSTYK	1058.77	-0.08	3.43E-02
ENSG00000131115	ZNF227	731.30	-0.09	3.43E-02
ENSG00000089327	FXYD5	3143.67	-0.08	3.44E-02
ENSG00000237877	LINC01473	47.13	-0.21	3.44E-02
ENSG00000279106		90.39	-0.22	3.44E-02
ENSG00000250995	TMEM30BP1	60.48	-0.31	3.45E-02
ENSG00000134470	IL15RA	556.63	0.19	3.45E-02
ENSG00000122390	NAA60	1521.52	0.06	3.45E-02
ENSG00000253352	TUG1	4861.05	-0.08	3.45E-02
ENSG00000010361	FUZ	270.10	-0.17	3.46E-02
ENSG00000276744		85.01	-0.17	3.46E-02
ENSG00000273783		39.07	-0.27	3.46E-02
ENSG00000252908	RNU6-1003P	35.37	-0.35	3.47E-02
ENSG00000109016	DHRS7B	344.68	0.09	3.47E-02
ENSG00000265817	FSBP	35.56	-0.22	3.47E-02
ENSG00000156261	CCT8	1854.32	0.11	3.48E-02
ENSG00000168350	DEGS2	19.41	-0.36	3.48E-02
ENSG00000228702		15.18	0.35	3.48E-02
ENSG00000154229	PRKCA	1986.45	-0.11	3.48E-02
ENSG00000226530		27.22	-0.25	3.48E-02
ENSG00000261131		32.76	-0.28	3.49E-02
ENSG00000143384	MCL1	27981.22	0.15	3.49E-02
ENSG00000166401	SERPINB8	992.51	0.22	3.49E-02
ENSG00000197045	GMFB	1715.95	0.12	3.51E-02
ENSG00000131174	COX7B	757.39	0.13	3.52E-02
ENSG00000100335	MIEF1	1220.19	0.06	3.52E-02
ENSG0000026652	AGPAT4	1314.09	0.17	3.52E-02
ENSG00000176945	MUC20	98.76	-0.23	3.52E-02
ENSG00000178917	ZNF852	384.36	-0.10	3.52E-02
ENSG00000211848	TRAJ41	119.05	-0.21	3.53E-02
ENSG00000136986	DERL1	1939.16	0.07	3.53E-02
ENSG00000151239	TWF1	1227.45	0.11	3.53E-02

ENSG00000106829	TLE4	3042.32	0.10	3.53E-02
ENSG00000239005		36.86	-0.22	3.53E-02
ENSG00000254413	CHKB-CPT1B	50.76	0.17	3.53E-02
ENSG00000074696	HACD3	592.36	0.09	3.53E-02
ENSG00000132475	H3-3B	19069.25	0.16	3.53E-02
ENSG00000196850	PPTC7	2184.67	-0.09	3.53E-02
ENSG00000268051		23.19	-0.36	3.54E-02
ENSG00000178567	EPM2AIP1	3017.83	-0.13	3.54E-02
ENSG00000212127	TAS2R14	81.16	-0.16	3.54E-02
ENSG00000087086	FTL	59691.80	0.21	3.55E-02
ENSG00000064607	SUGP2	2842.75	-0.05	3.55E-02
ENSG00000220205	VAMP2	1589.54	-0.15	3.55E-02
ENSG00000253816	GUSBP14	83.55	-0.16	3.55E-02
ENSG00000205903	ZNF316	3131.46	-0.19	3.55E-02
ENSG00000233602	ERI3-IT1	69.60	-0.18	3.56E-02
ENSG00000213937	CLDN9	49.53	-0.39	3.56E-02
ENSG00000117697	NSL1	675.14	0.08	3.57E-02
ENSG00000211825	TRDJ1	43.03	0.26	3.57E-02
ENSG00000146574	CCZ1B	560.06	0.07	3.57E-02
ENSG00000197561	ELANE	52.90	0.35	3.57E-02
ENSG00000186854	TRABD2A	1974.46	-0.15	3.58E-02
ENSG00000271022		66.63	-0.23	3.58E-02
ENSG00000197816	CCDC180	119.85	-0.14	3.58E-02
ENSG00000135185	TMEM243	1122.95	-0.12	3.58E-02
ENSG00000103150	MLYCD	1330.49	-0.09	3.58E-02
ENSG00000183655	KLHL25	386.30	-0.20	3.58E-02
ENSG00000223711		59.69	-0.16	3.59E-02
ENSG00000242324		40.44	-0.33	3.60E-02
ENSG00000147650	LRP12	310.77	0.27	3.61E-02
ENSG00000177542	SLC25A22	431.41	0.11	3.62E-02
ENSG00000159352	PSMD4	2273.16	0.14	3.63E-02
ENSG00000272343		17.31	-0.29	3.63E-02
ENSG00000108671	PSMD11	1462.19	0.09	3.63E-02
ENSG00000111321	LTBR	929.02	0.19	3.63E-02
ENSG00000237276	ANO7L1	60.27	0.28	3.63E-02
ENSG00000169967	MAP3K2	5537.26	-0.13	3.65E-02
ENSG00000267640		10.28	-0.40	3.65E-02
ENSG00000269578		75.81	-0.19	3.65E-02
ENSG00000130956	HABP4	453.69	-0.11	3.65E-02
ENSG00000182973	CNOT10	914.45	-0.06	3.66E-02
ENSG00000270750		24.32	-0.23	3.66E-02
ENSG00000169230	PRELID1	2196.37	0.15	3.66E-02
ENSG00000124486	USP9X	6110.69	-0.10	3.66E-02
ENSG00000148229	POLE3	929.63	0.07	3.66E-02
ENSG00000136830	NIBAN2	1815.01	0.40	3.67E-02
ENSG00000244405	ETV5	180.63	-0.72	3.67E-02
ENSG00000109107	ALDOC	257.19	-0.20	3.67E-02
ENSG00000163093	BB55	51.29	0.22	3.67E-02
ENSG00000131871	SELENOS	690.97	0.11	3.67E-02
ENSG00000243438	LARP1BP2	13.77	-0.47	3.68E-02
ENSG00000134152	KATNBL1	2345.83	-0.26	3.68E-02
ENSG00000268889	LIM2-AS1	40.93	0.27	3.68E-02

ENSG00000035687	ADSS2	1617.93	0.07	3.69E-02
ENSG00000168795	ZBTB5	618.90	-0.10	3.69E-02
ENSG00000161905	ALOX15	337.65	0.27	3.69E-02
ENSG00000188986	NELFB	1180.31	0.07	3.69E-02
ENSG00000135482	ZC3H10	726.35	-0.11	3.69E-02
ENSG00000183779	ZNF703	129.71	0.49	3.70E-02
ENSG00000172922	RNASEH2C	1064.62	0.11	3.70E-02
ENSG00000211934	IGHV1-2	81.81	0.28	3.70E-02
ENSG00000183291	SELENOF	3277.75	0.09	3.70E-02
ENSG00000155008	APOOL	355.42	0.09	3.71E-02
ENSG00000205664		490.65	-0.08	3.71E-02
ENSG00000232656	IDI2-AS1	17.91	-0.29	3.71E-02
ENSG00000119403	PHF19	1725.70	0.11	3.71E-02
ENSG00000124831	LRRFIP1	6920.49	-0.15	3.72E-02
ENSG00000267090		24.76	-0.26	3.72E-02
ENSG00000103121	CMC2	665.43	0.11	3.72E-02
ENSG00000125995	ROMO1	269.68	0.16	3.72E-02
ENSG00000269902		98.74	0.45	3.72E-02
ENSG00000164211	STARD4	876.42	0.30	3.74E-02
ENSG00000126088	UROD	516.64	0.13	3.74E-02
ENSG00000266931		23.85	-0.25	3.74E-02
ENSG00000273253	TRABD-AS1	228.91	-0.20	3.75E-02
ENSG00000171428	NAT1	218.34	0.20	3.75E-02
ENSG00000145416	MARCHF1	1280.77	0.27	3.75E-02
ENSG00000189190	ZNF600	724.11	0.10	3.75E-02
ENSG00000124226	RNF114	2147.49	0.08	3.75E-02
ENSG00000074590	NUAK1	48.69	0.28	3.75E-02
ENSG00000071189	SNX13	2606.98	-0.10	3.75E-02
ENSG00000160688	FLAD1	655.98	0.10	3.75E-02
ENSG00000159640	ACE	118.94	0.22	3.76E-02
ENSG00000163798	SLC4A1AP	667.94	0.07	3.76E-02
ENSG00000169193	CCDC126	367.59	-0.11	3.76E-02
ENSG00000155850	SLC26A2	816.86	0.14	3.76E-02
ENSG00000106554	CHCHD3	589.64	0.08	3.77E-02
ENSG00000198746	GPATCH3	587.18	0.09	3.77E-02
ENSG00000121073	SLC35B1	701.22	0.08	3.77E-02
ENSG00000124469	CEACAM8	148.75	0.29	3.78E-02
ENSG00000117395	EBNA1BP2	430.10	0.23	3.78E-02
ENSG00000176160	HSF5	91.30	-0.14	3.78E-02
ENSG00000136159	NUDT15	107.56	0.13	3.78E-02
ENSG00000213619	NDUFS3	413.56	0.13	3.79E-02
ENSG00000258867	LINC01146	224.13	0.29	3.79E-02
ENSG00000267221	C17orf113	34.22	-0.26	3.80E-02
ENSG00000227825	SLC9A7P1	108.00	0.32	3.80E-02
ENSG00000173692	PSMD1	1357.54	0.13	3.80E-02
ENSG00000135441	BLOC1S1	336.56	0.14	3.80E-02
ENSG00000178425	NT5DC1	760.21	-0.10	3.81E-02
ENSG00000213523	SRA1	987.36	0.12	3.81E-02
ENSG00000279344		50.28	-0.18	3.81E-02
ENSG00000267587		53.04	-0.16	3.81E-02
ENSG00000179115	FARSA	977.69	0.15	3.81E-02
ENSG00000117586	TNFSF4	148.18	-0.21	3.81E-02

ENSG00000138443	ABI2	1026.47	-0.08	3.81E-02
ENSG00000100462	PRMT5	567.98	0.16	3.82E-02
ENSG00000127870	RNF6	1097.58	0.07	3.82E-02
ENSG00000107937	GTPBP4	971.79	0.14	3.82E-02
ENSG00000272264		28.48	-0.30	3.83E-02
ENSG00000203999	LINC01270	756.36	-0.38	3.84E-02
ENSG00000245888	NSMCE1-DT	50.15	-0.26	3.84E-02
ENSG00000241294	IGKV2-24	27.53	0.34	3.84E-02
ENSG00000136770	DNAJC1	744.65	0.10	3.84E-02
ENSG00000150457	LATS2	970.07	0.14	3.84E-02
ENSG00000235194	PPP1R3E	1431.63	-0.09	3.84E-02
ENSG00000094880	CDC23	452.93	0.09	3.85E-02
ENSG00000168092	PAFAH1B2	2088.25	-0.07	3.85E-02
ENSG00000185222	TCEAL9	38.84	0.37	3.85E-02
ENSG00000103707	MTFMT	299.33	-0.09	3.85E-02
ENSG00000184208	C22orf46	388.16	0.12	3.85E-02
ENSG00000270137		48.62	-0.24	3.86E-02
ENSG00000136153	LMO7	496.55	-0.13	3.86E-02
ENSG00000244198	ARHGEF35-AS1	71.58	-0.17	3.87E-02
ENSG00000167088	SNRPD1	434.95	0.12	3.87E-02
ENSG00000184047	DIABLO	431.26	-0.17	3.87E-02
ENSG00000267767	LINC01801	113.28	-0.14	3.88E-02
ENSG00000042062	RIPOR3	63.71	-0.31	3.89E-02
ENSG00000011566	MAP4K3	711.73	0.18	3.89E-02
ENSG00000214425	LRRC37A4P	1349.49	-0.11	3.90E-02
ENSG00000136935	GOLGA1	904.14	-0.06	3.91E-02
ENSG00000198189	HSD17B11	2121.32	-0.16	3.91E-02
ENSG00000197142	ACSL5	3282.46	0.29	3.91E-02
ENSG00000122042	UBL3	2320.29	-0.09	3.93E-02
ENSG00000197771	MCMBP	2071.58	0.10	3.93E-02
ENSG00000145700	ANKRD31	73.62	-0.18	3.93E-02
ENSG00000182325	FBXL6	358.02	0.11	3.93E-02
ENSG00000244617	ASPRV1	296.18	0.31	3.94E-02
ENSG00000279977		180.25	-0.14	3.94E-02
ENSG00000103540	CCP110	834.39	0.09	3.95E-02
ENSG00000197721	CR1L	307.57	-0.39	3.95E-02
ENSG00000054983	GALC	2073.94	0.15	3.95E-02
ENSG00000163684	RPP14	465.71	-0.08	3.95E-02
ENSG00000105516	DBP	671.15	-0.17	3.95E-02
ENSG00000260260	SNHG19	103.06	-0.19	3.96E-02
ENSG00000175756	AURKAIP1	1052.17	0.10	3.96E-02
ENSG00000179820	MYADM	3228.55	-0.21	3.98E-02
ENSG00000279145		277.77	-0.19	3.98E-02
ENSG00000135272	MDFIC	1759.09	0.11	3.98E-02
ENSG00000013441	CLK1	6710.89	-0.09	3.98E-02
ENSG00000235505	CASP4LP	154.19	0.17	3.99E-02
ENSG00000102699	PARP4	3999.64	0.08	3.99E-02
ENSG00000179914	ITLN1	44.64	-0.42	3.99E-02
ENSG00000103197	TSC2	1970.62	-0.10	4.00E-02
ENSG00000172943	PHF8	1836.48	-0.06	4.00E-02
ENSG00000125144	MT1G	47.98	0.89	4.00E-02
ENSG00000039523	RIPOR1	2183.50	-0.20	4.00E-02

ENSG00000140459	CYP11A1	15.70	-0.35	4.01E-02
ENSG00000100867	DHRS2	15.13	0.83	4.01E-02
ENSG00000186049	KRT73	312.14	-0.17	4.01E-02
ENSG00000106266	SNX8	823.84	0.25	4.01E-02
ENSG00000125375	DMAC2L	854.28	-0.09	4.02E-02
ENSG00000136877	FPGS	1316.08	0.08	4.02E-02
ENSG00000080298	RFX3	1259.61	-0.10	4.03E-02
ENSG00000218596		103.56	-0.20	4.03E-02
ENSG00000249173	LINC01093	202.11	0.75	4.03E-02
ENSG00000087087	SRRT	1926.46	-0.05	4.03E-02
ENSG00000114867	EIF4G1	4884.18	0.12	4.04E-02
ENSG00000162959	MEMO1	249.46	-0.10	4.04E-02
ENSG00000251093		19.48	-0.42	4.05E-02
ENSG00000253616		67.07	-0.40	4.05E-02
ENSG00000154723	ATP5PF	417.44	0.10	4.06E-02
ENSG00000188419	CHM	808.01	0.11	4.06E-02
ENSG00000002822	MAD1L1	1338.22	0.10	4.07E-02
ENSG00000263465	SRSF8	1399.73	-0.09	4.07E-02
ENSG00000277089	CCL3-AS1	79.16	0.25	4.08E-02
ENSG00000251179	TMEM92-AS1	71.24	-0.69	4.09E-02
ENSG00000131127	ZNF141	887.61	-0.09	4.09E-02
ENSG00000105339	DENND3	10629.41	-0.18	4.10E-02
ENSG00000101216	GMEB2	1135.05	-0.07	4.10E-02
ENSG00000101751	POLI	762.85	-0.07	4.10E-02
ENSG00000273196		17.69	0.40	4.11E-02
ENSG00000108953	YWHAE	3492.29	0.17	4.12E-02
ENSG0000010310	GIPR	232.71	0.16	4.12E-02
ENSG00000165507	DEPP1	19.00	0.46	4.12E-02
ENSG00000170486	KRT72	350.14	-0.17	4.12E-02
ENSG00000119121	TRPM6	355.80	-0.43	4.12E-02
ENSG00000185261	KIAA0825	308.07	-0.22	4.12E-02
ENSG00000224729	PCOLCE-AS1	43.48	-0.18	4.12E-02
ENSG00000174231	PRPF8	6541.54	-0.12	4.12E-02
ENSG00000279744		189.68	-0.23	4.12E-02
ENSG00000136014	USP44	137.00	-0.15	4.12E-02
ENSG00000205930	C21orf62-AS1	142.48	-0.13	4.13E-02
ENSG00000255874	PRECSIT	42.62	0.41	4.13E-02
ENSG00000255733	IFNG-AS1	127.55	-0.21	4.14E-02
ENSG00000259877	ZNF778-DT	130.32	-0.13	4.16E-02
ENSG00000266074	BAHCC1	90.84	0.36	4.16E-02
ENSG00000086548	CEACAM6	44.40	0.37	4.16E-02
ENSG00000184216	IRAK1	3922.32	0.20	4.16E-02
ENSG00000113013	HSPA9	3170.31	0.08	4.16E-02
ENSG00000135519	KCNH3	103.94	-0.31	4.16E-02
ENSG00000167995	BEST1	2718.83	-0.21	4.17E-02
ENSG00000237854	LINC00674	393.54	-0.09	4.17E-02
ENSG00000260861		13.96	-0.43	4.17E-02
ENSG00000145743	FBXL17	738.81	-0.10	4.18E-02
ENSG00000168070	MAJIN	28.71	0.42	4.18E-02
ENSG00000272009		24.74	-0.23	4.18E-02
ENSG00000204899	MZT1	226.42	0.13	4.18E-02
ENSG00000133318	RTN3	2854.89	-0.22	4.18E-02

ENSG00000257261	SLC38A4-AS1	143.15	-0.13	4.18E-02
ENSG00000196693	ZNF33B	983.00	-0.10	4.18E-02
ENSG00000170458	CD14	6360.72	0.30	4.18E-02
ENSG00000245060	LINC00847	1293.35	0.15	4.18E-02
ENSG00000163995	ABLIM2	133.87	-0.17	4.18E-02
ENSG00000117713	ARID1A	5162.24	-0.11	4.18E-02
ENSG00000215041	NEURL4	809.84	-0.08	4.18E-02
ENSG00000166145	SPINT1	237.02	-0.26	4.18E-02
ENSG00000108883	EFTUD2	1899.94	0.08	4.19E-02
ENSG00000277687		151.72	-0.28	4.19E-02
ENSG00000103249	CLCN7	4522.14	0.17	4.20E-02
ENSG00000102900	NUP93	841.69	0.07	4.20E-02
ENSG00000252118	RNU6ATAC39P	13.88	-0.44	4.20E-02
ENSG00000003509	NDUFAF7	511.69	-0.08	4.20E-02
ENSG00000272758	WDR5B-DT	233.77	-0.12	4.21E-02
ENSG00000197808	ZNF461	201.86	-0.10	4.21E-02
ENSG00000176714	CCDC121	34.28	-0.24	4.21E-02
ENSG00000256576	LINC02361	179.98	-0.14	4.21E-02
ENSG00000013563	DNASE1L1	643.20	0.11	4.21E-02
ENSG00000229036	VDAC1P8	111.87	-0.14	4.22E-02
ENSG00000141179	PCTP	645.98	-0.21	4.22E-02
ENSG00000162676	GFI1	937.78	0.16	4.23E-02
ENSG00000277715		43.87	-0.21	4.23E-02
ENSG00000107874	CUEDC2	455.63	0.15	4.23E-02
ENSG00000246430	LINC00968	15.02	0.61	4.23E-02
ENSG00000101166	PRELID3B	1078.25	0.11	4.24E-02
ENSG00000241014	GPR199P	347.87	-0.12	4.24E-02
ENSG00000008516	MMP25	4157.29	-0.40	4.24E-02
ENSG00000276494		23.02	-0.28	4.25E-02
ENSG00000254709	IGLL5	82.68	0.34	4.25E-02
ENSG00000134186	PRPF38B	2768.86	-0.09	4.25E-02
ENSG00000048392	RRM2B	1465.70	-0.16	4.25E-02
ENSG00000165660	ABRAXAS2	514.12	0.08	4.26E-02
ENSG00000111231	GPN3	259.21	0.16	4.26E-02
ENSG00000129625	REEP5	1692.92	0.09	4.26E-02
ENSG00000151445	VIPAS39	692.03	0.09	4.26E-02
ENSG00000180871	CXCR2	4259.63	-0.45	4.27E-02
ENSG00000248098	BCKDHA	36.02	-0.19	4.28E-02
ENSG00000258297		301.10	-0.20	4.28E-02
ENSG00000155966	AFF2	599.26	-0.22	4.28E-02
ENSG00000225361	PPP1R26-AS1	12.61	0.28	4.28E-02
ENSG00000128050	PAICS	851.71	0.18	4.28E-02
ENSG00000228079		53.37	-0.32	4.29E-02
ENSG00000182195	LDLOC1	69.66	-0.16	4.29E-02
ENSG00000100982	PCIF1	1739.68	-0.09	4.29E-02
ENSG00000259762		24.52	-0.29	4.29E-02
ENSG00000282320	TRBJ1-1	23.09	0.31	4.29E-02
ENSG00000163602	RYBP	1841.16	-0.13	4.29E-02
ENSG00000110108	TMEM109	959.31	0.11	4.29E-02
ENSG00000269385		31.93	0.47	4.29E-02
ENSG00000092964	DPYSL2	1083.47	0.29	4.29E-02
ENSG00000167851	CD300A	2343.44	0.19	4.30E-02

ENSG00000260428	SCX	15.29	-0.30	4.30E-02
ENSG00000065717	TLE2	199.62	-0.14	4.31E-02
ENSG00000139842	CUL4A	2566.34	0.08	4.31E-02
ENSG00000250131	AGA-DT	31.02	-0.18	4.31E-02
ENSG00000262903	CTNS-AS1	20.97	-0.26	4.32E-02
ENSG00000259269		13.09	0.79	4.32E-02
ENSG00000160752	FDPS	918.99	0.07	4.32E-02
ENSG00000064652	SNX24	118.18	0.16	4.32E-02
ENSG00000108819	PPP1R9B	4482.94	-0.12	4.33E-02
ENSG00000160087	UBE2J2	1639.80	-0.06	4.33E-02
ENSG00000173535	TNFRSF10C	3184.44	-0.39	4.34E-02
ENSG00000147180	ZNF711	68.43	-0.19	4.34E-02
ENSG00000115109	EPB41L5	248.62	-0.10	4.34E-02
ENSG00000259319	JDP2-AS1	32.66	0.26	4.34E-02
ENSG00000262670		6.92	-0.49	4.34E-02
ENSG00000160714	UBE2Q1	1324.74	0.06	4.34E-02
ENSG00000233836		144.85	-0.13	4.34E-02
ENSG00000167797	CDK2AP2	561.40	0.11	4.35E-02
ENSG00000100804	PSMB5	402.47	0.20	4.35E-02
ENSG00000171634	BPTF	6231.86	-0.08	4.35E-02
ENSG00000008311	AASS	107.09	-0.13	4.36E-02
ENSG00000160226	CFAP410	750.41	-0.11	4.36E-02
ENSG00000113441	LNPEP	6034.61	0.09	4.36E-02
ENSG00000101188	NTSR1	76.39	0.50	4.36E-02
ENSG00000198839	ZNF277	732.51	0.08	4.36E-02
ENSG00000274904		33.95	-0.20	4.36E-02
ENSG00000153113	CAST	4524.12	0.13	4.36E-02
ENSG00000135083	CCNJL	368.34	-0.54	4.36E-02
ENSG00000111653	ING4	789.06	0.07	4.36E-02
ENSG00000273972		24.43	0.33	4.36E-02
ENSG00000205581	HMG1	2735.53	0.07	4.36E-02
ENSG00000271503	CCL5	6588.28	0.14	4.36E-02
ENSG00000138073	PREB	1130.94	0.10	4.36E-02
ENSG00000272690	LINC02018	46.04	-0.17	4.37E-02
ENSG00000164172	MOCS2	403.47	0.09	4.37E-02
ENSG00000141622	RNF165	124.61	0.38	4.37E-02
ENSG00000143674	MAP3K21	89.11	-0.15	4.37E-02
ENSG00000168214	RBPJ	2868.52	-0.12	4.37E-02
ENSG00000258860		17.79	0.64	4.38E-02
ENSG00000105507	CABP5	13.68	-0.51	4.39E-02
ENSG00000115289	PCGF1	190.11	0.10	4.39E-02
ENSG00000171101	SIGLEC17P	47.40	-0.38	4.39E-02
ENSG00000182118	FAM89A	160.14	0.15	4.39E-02
ENSG00000262209	PCDHGB3	38.37	-0.21	4.39E-02
ENSG00000126746	ZNF384	1312.15	-0.06	4.39E-02
ENSG00000147454	SLC25A37	26332.80	-0.25	4.39E-02
ENSG00000197562	RAB40C	486.45	-0.14	4.39E-02
ENSG00000213563	C8orf82	295.79	0.14	4.39E-02
ENSG00000027697	IFNGR1	5895.01	-0.20	4.39E-02
ENSG00000269194		55.15	-0.20	4.40E-02
ENSG00000168487	BMP1	121.35	0.14	4.40E-02
ENSG00000171466	ZNF562	1162.07	0.10	4.40E-02

ENSG00000131844	MCCC2	715.77	0.07	4.40E-02
ENSG00000185483	ROR1	32.13	-0.30	4.40E-02
ENSG00000272341		152.25	-0.23	4.40E-02
ENSG00000065243	PKN2	2984.50	-0.17	4.40E-02
ENSG00000170619	COMMD5	968.60	0.10	4.40E-02
ENSG00000166923	GREM1	65.09	1.09	4.40E-02
ENSG00000211945	IGHV1-18	75.03	0.23	4.41E-02
ENSG00000105855	ITGB8	2952.56	0.55	4.41E-02
ENSG00000271581		52.64	0.25	4.41E-02
ENSG00000013583	HEBP1	350.26	0.20	4.42E-02
ENSG00000228192	ZNF691-DT	49.26	0.34	4.42E-02
ENSG00000107438	PDLIM1	329.54	-0.20	4.42E-02
ENSG00000123159	GIPC1	441.54	0.14	4.42E-02
ENSG00000207067	SNORA72	33.04	-0.20	4.43E-02
ENSG00000188315	C3orf62	876.98	-0.13	4.43E-02
ENSG00000101104	PABPC1L	766.21	-0.10	4.43E-02
ENSG00000268500	SIGLEC5	10.02	0.59	4.44E-02
ENSG00000120659	TNFSF11	18.82	-0.31	4.44E-02
ENSG00000071205	ARHGAP10	617.11	0.16	4.46E-02
ENSG00000103353	UBFD1	975.22	0.07	4.46E-02
ENSG0000038532	CLEC16A	2184.43	-0.09	4.46E-02
ENSG00000134001	EIF2S1	1361.33	0.20	4.46E-02
ENSG00000142687	KIAA0319L	2430.43	0.10	4.46E-02
ENSG00000183763	TRAIP	50.36	0.17	4.47E-02
ENSG00000228903	RASA4CP	360.46	-0.11	4.47E-02
ENSG00000178057	NDUFAF3	717.37	0.09	4.48E-02
ENSG00000178397	FAM220A	366.04	-0.13	4.48E-02
ENSG00000011485	PPP5C	689.66	0.09	4.48E-02
ENSG00000165156	ZHX1	732.70	0.08	4.48E-02
ENSG00000107341	UBE2R2	2352.83	-0.11	4.48E-02
ENSG00000241769	EOLA1-DT	170.16	-0.15	4.49E-02
ENSG00000130653	PNPLA7	285.07	-0.17	4.49E-02
ENSG00000269959	SPACA6-AS1	13.12	-0.48	4.49E-02
ENSG00000185065	UFD1-AS1	28.99	-0.20	4.49E-02
ENSG00000148943	LIN7C	1475.57	0.10	4.49E-02
ENSG00000120029	ARMH3	1082.24	0.06	4.49E-02
ENSG00000169727	GPS1	1054.38	0.08	4.49E-02
ENSG00000207092		35.33	-0.21	4.49E-02
ENSG00000240288	GHRLOS	369.56	-0.13	4.50E-02
ENSG00000248794		15.66	-0.30	4.50E-02
ENSG00000263753	LINC00667	1171.99	-0.09	4.50E-02
ENSG00000277151		120.47	-0.16	4.50E-02
ENSG00000091947	TMEM101	422.24	0.10	4.51E-02
ENSG00000120008	WDR11	2537.01	0.12	4.51E-02
ENSG00000124523	SIRT5	508.82	-0.08	4.51E-02
ENSG00000176014	TUBB6	399.36	0.22	4.51E-02
ENSG00000219409		21.35	0.29	4.51E-02
ENSG00000080824	HSP90AA1	13965.60	0.22	4.51E-02
ENSG00000269837	IPO5P1	254.59	-0.10	4.51E-02
ENSG00000104825	NFKBIB	820.25	0.12	4.52E-02
ENSG00000213366	GSTM2	293.97	-0.18	4.52E-02
ENSG00000100554	ATP6V1D	1016.40	0.13	4.52E-02

ENSG00000229619	MBNL1-AS1	79.20	-0.14	4.52E-02
ENSG00000065427	KARS1	2420.61	0.08	4.53E-02
ENSG00000106348	IMPDH1	2468.10	-0.24	4.53E-02
ENSG00000164983	TMEM65	1175.59	-0.15	4.53E-02
ENSG00000211670	IGLV3-9	34.01	0.37	4.53E-02
ENSG00000153989	NUS1	1767.96	0.14	4.53E-02
ENSG00000198106		121.73	-0.18	4.54E-02
ENSG00000223509	WHAMMP1	1270.40	-0.13	4.54E-02
ENSG00000261687		48.11	-0.20	4.54E-02
ENSG00000169084	DHRX	653.53	-0.11	4.55E-02
ENSG00000171033	PKIA	304.11	-0.15	4.55E-02
ENSG00000123610	TNFAIP6	8527.43	0.65	4.56E-02
ENSG00000180448	ARHGAP45	16280.83	-0.09	4.56E-02
ENSG00000108551	RASD1	47.05	-0.31	4.57E-02
ENSG00000239857	GET4	317.80	-0.14	4.58E-02
ENSG00000119906	SLF2	1559.62	0.07	4.58E-02
ENSG00000166016	ABTB2	283.26	0.31	4.58E-02
ENSG00000111142	METAP2	837.86	0.10	4.59E-02
ENSG00000152689	RASGRP3	691.72	0.18	4.59E-02
ENSG00000243566	UPK3B	119.01	-0.21	4.59E-02
ENSG00000225697	SLC26A6	496.49	0.11	4.59E-02
ENSG00000149582	TMEM25	187.76	-0.12	4.59E-02
ENSG00000168874	ATOH8	133.38	-0.52	4.60E-02
ENSG00000115207	GTF3C2	1246.27	-0.05	4.60E-02
ENSG00000068024	HDAC4	4006.48	0.12	4.60E-02
ENSG00000257698	GIHCG	55.29	0.19	4.61E-02
ENSG00000114107	CEP70	405.12	-0.13	4.61E-02
ENSG00000198901	PRC1	149.12	0.16	4.61E-02
ENSG00000132405	TBC1D14	3111.29	-0.19	4.62E-02
ENSG00000136197	C7orf25	54.36	-0.18	4.62E-02
ENSG00000108523	RNF167	1513.34	-0.08	4.62E-02
ENSG00000231856		161.12	-0.19	4.62E-02
ENSG00000252464	RN7SKP70	41.79	-0.19	4.63E-02
ENSG00000149534	MS4A2	67.33	0.41	4.63E-02
ENSG00000261072		47.56	-0.20	4.63E-02
ENSG00000187922	LCN10	9.84	-0.41	4.63E-02
ENSG00000159882	ZNF230	564.55	0.18	4.63E-02
ENSG00000157954	WIPI2	2275.06	-0.09	4.64E-02
ENSG00000163993	S100P	573.60	-0.34	4.65E-02
ENSG00000272977		198.81	-0.15	4.65E-02
ENSG00000116649	SRM	570.20	0.19	4.65E-02
ENSG00000038945	MSR1	2581.69	0.70	4.65E-02
ENSG00000279930		20.26	-0.31	4.66E-02
ENSG00000173473	SMARCC1	2592.16	-0.08	4.66E-02
ENSG00000055609	KMT2C	8856.51	-0.11	4.67E-02
ENSG00000159592	GPBP1L1	4060.84	0.05	4.67E-02
ENSG00000242330	RN7SL683P	55.74	-0.29	4.68E-02
ENSG00000135269	TES	2290.73	0.08	4.68E-02
ENSG00000258325	ITFG2-AS1	32.70	-0.18	4.69E-02
ENSG00000118689	FOXO3	4448.41	-0.18	4.70E-02
ENSG00000204277	LINC01993	13.92	0.45	4.70E-02
ENSG00000135250	SRPK2	1826.43	-0.19	4.71E-02

ENSG00000110274	CEP164	988.02	0.08	4.71E-02
ENSG00000156471	PTDSS1	1864.92	-0.06	4.71E-02
ENSG00000169683	LRRC45	256.15	0.14	4.71E-02
ENSG00000267046	E2F3P1	15.84	-0.36	4.72E-02
ENSG00000082458	DLG3	390.31	0.10	4.72E-02
ENSG00000160679	CHTOP	3124.41	-0.05	4.72E-02
ENSG00000085377	PREP	998.31	0.08	4.73E-02
ENSG00000116030	SUMO1	1190.30	0.08	4.73E-02
ENSG00000198995	MIR340	22.44	-0.29	4.75E-02
ENSG00000089159	PXN	5766.08	-0.16	4.76E-02
ENSG00000158488	CD1E	16.63	-0.51	4.76E-02
ENSG00000272056		34.65	-0.18	4.76E-02
ENSG00000163734	CXCL3	4851.84	0.82	4.77E-02
ENSG00000054277	OPN3	358.50	0.14	4.77E-02
ENSG00000139974	SLC38A6	382.02	0.13	4.78E-02
ENSG00000275854		41.82	-0.19	4.78E-02
ENSG00000277590	MIR7845	30.24	-0.29	4.78E-02
ENSG00000174749	FAM241A	292.28	0.13	4.78E-02
ENSG00000232891		37.31	-0.36	4.79E-02
ENSG00000251079	BMS1P2	42.95	0.17	4.79E-02
ENSG00000238311	SNORD13E	30.67	-0.32	4.79E-02
ENSG00000186792	HYAL3	72.95	-0.16	4.79E-02
ENSG00000100234	TIMP3	55.37	-0.63	4.80E-02
ENSG00000226688	ENTPD1-AS1	236.19	-0.10	4.80E-02
ENSG00000121022	COP55	1214.63	0.06	4.81E-02
ENSG00000197301	HMGA2-AS1	22.18	0.44	4.81E-02
ENSG00000037280	FLT4	297.31	-0.14	4.81E-02
ENSG00000185236	RAB11B	1512.46	-0.11	4.81E-02
ENSG00000137710	RDX	1063.36	0.16	4.82E-02
ENSG00000235162	C12orf75	342.08	0.17	4.83E-02
ENSG00000143815	LBR	4758.09	-0.12	4.83E-02
ENSG00000267263		368.04	-0.21	4.84E-02
ENSG00000183647	ZNF530	204.48	-0.10	4.84E-02
ENSG00000163110	PDLIM5	1662.36	0.17	4.85E-02
ENSG00000067248	DHX29	923.16	0.07	4.85E-02
ENSG00000180354	MTURN	1164.12	-0.19	4.85E-02
ENSG00000182841	RRP7BP	787.85	-0.08	4.85E-02
ENSG00000197555	SIPA1L1	5499.05	-0.14	4.85E-02
ENSG00000273203		17.27	-0.27	4.85E-02
ENSG00000130368	MAS1	19.48	0.90	4.85E-02
ENSG00000150961	SEC24D	1484.62	0.15	4.85E-02
ENSG00000215105	TTC3P1	67.13	-0.18	4.85E-02
ENSG00000269951		48.24	-0.19	4.85E-02
ENSG00000065518	NDUFB4	722.10	0.11	4.86E-02
ENSG00000278383		16.29	-0.25	4.87E-02
ENSG00000254789		21.45	-0.55	4.87E-02
ENSG00000276136		258.09	-0.16	4.87E-02
ENSG00000085998	POMGNT1	592.76	0.07	4.87E-02
ENSG00000197928	ZNF677	222.57	-0.09	4.87E-02
ENSG00000100319	ZMAT5	390.35	0.09	4.87E-02
ENSG00000261898		25.20	-0.41	4.87E-02
ENSG00000104611	SH2D4A	9.70	0.51	4.87E-02

ENSG00000175746	LINC02915	35.59	-0.40	4.88E-02
ENSG00000168389	MFSD2A	1418.32	0.45	4.88E-02
ENSG00000116711	PLA2G4A	144.29	0.20	4.88E-02
ENSG00000255495		29.71	-0.31	4.88E-02
ENSG00000168385	SEPTIN2	4568.22	0.05	4.88E-02
ENSG00000168159	RNF187	1556.08	0.11	4.88E-02
ENSG00000244398		40.89	-0.19	4.89E-02
ENSG00000247624	CPEB2-DT	66.00	-0.17	4.91E-02
ENSG00000224988		29.39	-0.23	4.91E-02
ENSG00000233901	LINC01503	76.25	-0.33	4.93E-02
ENSG00000142552	RCN3	364.62	-0.33	4.94E-02
ENSG00000104695	PPP2CB	684.04	0.17	4.94E-02
ENSG00000149781	FERMT3	6830.34	0.20	4.94E-02
ENSG00000253106		227.80	-0.11	4.94E-02
ENSG00000105662	CRTC1	905.58	-0.13	4.95E-02
ENSG00000143575	HAX1	856.46	0.09	4.95E-02
ENSG00000279253		275.52	-0.10	4.96E-02
ENSG00000204070	SYS1	1301.94	-0.06	4.96E-02
ENSG00000215148	PRSS41	14.35	0.38	4.96E-02
ENSG00000206535	LNP1	28.17	-0.21	4.96E-02
ENSG00000169609	C15orf40	1129.02	-0.12	4.97E-02
ENSG00000164828	SUN1	1433.21	-0.06	4.98E-02
ENSG00000138629	UBL7	716.78	-0.10	4.98E-02
ENSG00000182827	ACBD3	1159.21	0.07	4.98E-02
ENSG00000218175		28.66	-0.22	4.99E-02
ENSG00000150510	FAM124A	84.93	0.65	4.99E-02
ENSG00000134755	DSC2	375.01	-0.43	4.99E-02
ENSG00000155324	GRAMD2B	175.52	0.11	4.99E-02
ENSG00000173451	THAP2	382.28	0.12	4.99E-02
ENSG00000228544	CCDC183-AS1	269.26	-0.11	4.99E-02
ENSG00000207870	MIR221	30.31	0.58	4.99E-02
ENSG00000212027	MIR374B	33.14	-0.23	5.00E-02
ENSG00000274010	ZFP91P1	19.57	-0.30	5.00E-02
ENSG00000135624	CCT7	2427.15	0.11	5.00E-02

Supplementary Table 5**Significant pathways identified using IPA for *BCG: Influenza***

Gene filters for IPA analysis: adjusted p ≤0.05

Ingenuity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	z-score	Molecules
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	6.67	2.14E-07	0.088	-2.65	IRF7,MX1,MYD88,OAS1,OAS2,OAS3,RSAD2
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	3.9	1.26E-04	0.041		IRF7,LEP,MYD88,OAS1,OAS2,OAS3
Interferon Signaling	3.9	1.26E-04	0.111	-2.00	IFI35,IFI6,MX1,OAS1
Coronavirus Pathogenesis Pathway	2.23	5.89E-03	0.026	2.24	BST2,IRF7,OAS1,OAS2,OAS3
VDR/RXR Activation	1.43	3.72E-02	0.039		CD14,CDKN1A,SEMA3B
Hepatic Cholestasis	1.42	3.80E-02	0.022		CD14,LEP,MYD88,PRKAG2

Supplementary Table 6

Significant pathways identified using IPA for BCG

Gene filters for IPA analysis: adjusted p ≤ 0.0001 and absolute log2 fold change >1

Ingenuity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	z-score	Molecules
Granulocyte Adhesion and Diapedesis	11.7	2.00E-12	0.282		CCL18,CCL20,CCL23,CCL3,CCL3L3,CCL4,CCL4L1/CCL4L2,CCL8,CCR10,CCR2,CCR3,CCR4,CCR5,CCR7,CLDN9,CSF3,CXCL1,CXCL2,CXCL3,CXCL8,CXCR1,CXCR2,GNAI2,HRH1,HRH2,ICAM1,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,ITGB2,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,PECAM1,RDX,SDC2,SDC3,SDC4,SELP,LF,TNF,TNFRSF1B
Pathogen Induced Cytokine Storm Signaling Pathway	11.1	7.94E-12	0.211	3.92	C3,CCL18,CCL20,CCL23,CCL3,CCL3L3,CCL4,CCL4L1/CCL4L2,CCL8,CCR3,CCR5,CLEC7A,COL13A1,COL17A1,COL1A1,COL4A2,COL8A2,CXCL1,CXCL2,CXCL3,CXCL8,CXCR1,CXCR2,FASLG,FOS,FTH1,GSDME,HLA-DOB,IFIH1,IFNGR2,IL10,IL12B,IL17C,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL121R,IL36G,IL36RN,IL4,IL6,LEP,LF,MAPK11,MAPK3,MAPK6,NFKB1,NFKB2,NLRP12,NLRP6,OSM,P2RX7,PDGFC,PCYCARD,SOC3,TICAM1,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TNFRSF1B,TNFSF13,TNFSF13B,TNFSF14,TNFSF15,VEGFA
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	9.21	6.17E-10	0.274	0.50	C3,C3AR1,CLEC7A,CXCL8,FASLG,IFIH1,IL10,IL12B,IL17C,IL18,IL1A,IL1B,IL12,IL36G,IL4,IL6,LEP,LF,MAPK3,NFKB1,NFKB2,OAS2,OAS3,OSM,PRKCB,PTX3,REL,REL,TICAM1,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15
Phagosome Formation	9.17	6.76E-10	0.160	-1.06	ADGRA2,ADGRB1,ADGRB2,ADGRD1,ADGRE1,ADGRE5,ADORA2A,ADRB1,AP153,C3,C3AR1,C5AR2,CALCR1,CARD9,CCR10,CCR2,CCR3,CCR4,CCR5,CCR7,CCR2,CD36,CFL2,CHRM4,CLEC4E,CLEC7A,COLEC12,CR1,CX3CR1,CXCR1,CYSLTR2,EDNRB,F2RL1,FCAR,FCER1A,FCER2,FCGR1A,FCGR2C,FCGR3A/FCGR3B,FFAR2,FFAR3,FZD2,GABBR1,GPR108,GPR132,GPR137B,GPR150,GPR157,GPR162,GPR171,GPR27,GPR4,GPR65,GPR84,GPRC5A,GPRC5C,GRM2,HCAIR1,HCAIR2,HCAIR3,HRH1,HRH2,HTR6,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,LGR4,LIMK2,MAP2K6,MAPK3,MAPK6,MARCKS,MAS1,MRAS,MRC1,NMUR1,OPRL1,P2RY13,P2RY6,PLA2G4C,PLA2G7,PLB1,PLD1,PRKCB,PTAFR,PTGDR2,PTGER4,RAPGEF3,RRAS,S1PR2,S1PR3,SPHK1,SRG,STR3,SUCNR1,TAS1R3,TLR2,TLR5,TLR6,TLR8,TLR9,VAWI,WAS
Toll-like Receptor Signaling	8.62	2.40E-09	0.351	2.00	FOS,IL12B,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IRAK2,IRAK3,MAP2K6,MAPK11,NFKB1,NFKB2,NFKBIA,REL,REL,TICAM1,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TNFAIP3,TRAF1
Atherosclerosis Signaling	8.35	4.47E-09	0.278		ALOX15B,CCR2,CCR3,CD36,COL1A1,CSF1,CXCL8,F3,ICAM1,IL18,IL1A,IL1B,IL1RL1,IL36G,IL36RN,IL6,ITGB2,LP1,LYZ,NFKB1,NFKB2,ORM1,ORM2,PDGFC,PLA2G4C,PLA2G7,PLB1,REL,REL,S100A8,SELP,LF,TNF,TNFRSF12A,TNFSF12,TNFSF14
Role Of Chondrocytes In Rheumatoid Arthritis Signaling Pathway	8.33	4.68E-09	0.264	1.48	ADAMTS,ASIC1,CAMKK2,CEBPA,CXCL8,EGF1,FOS,IL17RA,IL17RB,IL17RC,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL6,LRP1,MAPK11,MAPK3,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,NFKB1,NFKB2,PDGFC,PLAU,PYCARD,TLR2,TNF,TNFRSF1B,VEGFA
Agranulocyte Adhesion and Diapedesis	8.33	4.68E-09	0.233		AO3,CCL18,CCL20,CCL23,CCL3,CCL3L3,CCL4,CCL4L1/CCL4L2,CCL8,CCR10,CCR2,CCR3,CCR4,CCR5,CCR7,CLDN9,CXCL1,CXCL2,CXCL3,CXCL8,CXCR1,CXCR2,GNAI2,HRH1,ICAM1,IL18,IL1A,IL1B,IL1RL1,IL36G,IL36RN,ITGB2,ITGB7,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,PECAM1,RDX,SDC4,SELP,LF,TNF
G-Protein Coupled Receptor Signaling	8.09	8.13E-09	0.152	-0.10	ADGRA2,ADGRB1,ADGRB2,ADGRD1,ADGRE1,ADGRE5,ADORA2A,ADRB1,ARRB1,C3AR1,C5AR2,CALCR1,CAMK2G,CCR10,CCR2,CCR3,CCR4,CCR5,CCR7,CCR2,CHRM4,CREB5,CX3CR1,CXCR1,CXCR2,CYSLTR2,DUSP1,DUSP4,EDNRB,F2RL1,FFAR2,FFAR3,FOS,FZD2,GABBR1,GNAI2,GNAQ,GNAZ,GNB3,GNG2,GNG4,GNG7,GPR108,GPR132,GPR137B,GPR150,GPR157,GPR162,GPR171,GPR27,GPR4,GPR65,GPR84,GPRC5A,GPRC5C,GRM2,HCAIR1,HCAIR2,HCAIR3,HRH1,HRH2,HTR6,LGR4,MAP2K6,MAP3K13,MAP3K6,MAP3K8,MAPK11,MAPK3,MAS1,MPPE1,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NMUR1,OPRL1,P2RY13,P2RY6,PDE1B,PDE6G,PLCB2,PRKCB,PTAFR,PTGDR2,PTGER4,PXN,RAPGEF3,REL,REL,RGS12,RGS16,RGS16,RRAS,S1PR2,S1PR3,SMPDL3A,SRG,STR3,SUCNR1,TAS1R3
TREM1 Signaling	8.09	8.13E-09	0.347	1.46	CASP5,CCL3,CD83,CXCL3,CXCL8,ICAM1,IL10,IL18,IL1B,IL1RL1,IL6,MAPK3,MPO,NFKB1,NFKB2,NLRP12,NLRP6,REL,REL,TLR2,TLR5,TLR6,TLR8,TLR9,TNF
Multiple Sclerosis Signaling Pathway	7.79	1.62E-08	0.219	1.47	ASIC1,BID,C3,CXCL1,CXCL8,DUSP1,FASLG,HLA-DOB,IFNGR2,IL10,IL12B,IL17C,IL17RA,IL17RB,IL17RC,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,LEP,LF,MAPK11,MAPK3,MPO,NFKB1,NFKB2,NLRP12,OSM,P2RX7,PLAU,PYCARD,SLC8A1,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis	7.64	2.29E-08	0.188		CAMK2G,CEBPA,CREB5,CSF1,CXCL8,DKK3,F2RL1,FCGR1A,FCGR3A/FCGR3B,FOS,FZD2,GNAQ,CAM1,IL10,IL17RA,IL17RB,IL17RC,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL6,IRAK2,IRAK3,LRP1,MAP2K6,MAPK3,MRAS,NFKB1,NFKBIA,NFKBID,NFKBIE,OSM,PDGFC,PLCB2,PLCD3,PLCH2,PRKCB,ROR2,RRAS,SOC1,SOC3,SRG,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TNFRSF1B,TNFSF13B,TRAF1,TRAF3,VEGFA,WNT10A,WNT5A,WNT5B
HMGB1 Signaling	7.46	3.47E-08	0.239	3.40	CXCL8,FASLG,FOS,ICAM1,IFNGR2,IL12B,IL17C,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,LEP,LF,MAP2K6,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,OSM,PLAT,REL,REL,RHOBTB2,RHOU,RHOV,RND1,RRAS,TNF,TNFRSF1B,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15
IL-10 Signaling	7.46	3.47E-08	0.333		CCR5,FCGR2A,FCGR2C,FOS,IL10,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL6,MAP2K6,MAPK11,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,REL,SOC3,TNF
CREB Signaling in Neurons	7.13	7.41E-08	0.153	-1.21	ADGRA2,ADGRB1,ADGRB2,ADGRD1,ADGRE1,ADGRE5,ADORA2A,ADRB1,C3AR1,C5AR2,CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CALCR1,CAMK2G,CATSPER1,CCR10,CCR2,CCR3,CCR4,CCR5,CCR7,CCR2,CHRM4,CREB5,CX3CR1,CXCR1,CYSLTR2,EDNRB,F2RL1,FFAR2,FFAR3,FLT1,FZD2,GABBR1,GNAI2,GNAQ,GNAZ,GNB3,GNG2,GNG4,GNG7,GPR108,GPR132,GPR137B,GPR150,GPR157,GPR162,GPR171,GPR27,GPR4,GPR65,GPR84,GPRC5A,GPRC5C,GRIK4,GRM2,HCAIR1,HCAIR2,HCAIR3,HRH1,HRH2,HTR6,INSR,LGR4,MAPK3,MAS1,MRAS,NMUR1,OPRL1,P2RY13,P2RY6,PLCB2,PLCD3,PLCH2,POLR2F,PRKCB,PTAFR,PTGDR2,PTGER4,RRAS,S1PR2,S1PR3,SSTR3,SUCNR1,TAS1R3,TNFRSF11A,VEGFA
Cardiac Hypertrophy Signaling (Enhanced)	6.98	1.05E-07	0.157	-0.38	ADRB1,ATP2A1,CACNA1D,CACNA1E,CACNA2D3,CACNB4,CAMK2G,CXCL8,CXCR1,CXCR2,EDN1,EDNRB,FASLG,FZD2,GNAI2,GNAQ,GNB3,GNG2,GNG4,GNG7,HDAC11,HDAC9,IL12B,IL13RA1,IL17C,IL17RA,IL17RB,IL17RC,IL17RE,IL18,IL1A,IL1B,IL1RL1,IL21R,IL13RA,IL36G,IL4,IL5RA,IL6,IL9R,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,LEP,LF,MAP2K6,MAP3K13,MAP3K6,MAP3K8,MAPK11,MAPK3,MAPKAPK3,MPPE1,MRAS,NFKB1,NFKB2,OSM,PDE1B,PDE6G,PLCB2,PLCD3,PLCH2,PRKCB,PTEN,REL,REL,RRAS,SMPDL3A,TNF,TNFRSF1B,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15,WNT10A,WNT5A,WNT5B
TNFR2 Signaling	6.98	1.05E-07	0.484	1.51	BIRC3,FOS,NAIP,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,REL,TANK,TNF,TNFAIP3,TNFRSF1B,TRAF1
Erythropoietin Signaling Pathway	6.89	1.29E-07	0.226	-2.67	BIRC3,CXCL8,FASLG,FOS,IFIH1,IL12B,IL17C,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,IRS2,LEP,LF,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NOS3,OSM,PRKCB,REL,REL,RRAS,SRG,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15,TRPC3
IL-17 Signaling	6.62	2.40E-07	0.218	2.72	CCL20,CSF3,CXCL1,CXCL3,CXCL8,FASLG,FOS,IL12B,IL17C,IL17RA,IL17RB,IL17RC,IL17RE,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,LEP,LF,MAP2K6,MAPK11,MAPK3,MRAS,NFKB1,OSM,PDGFC,RGS13,RGS16,RRAS,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15,VEGFA
Macrophage Classical Activation Signaling Pathway	6.59	2.57E-07	0.217	3.04	ACOD1,CCL20,CD80,CXCL8,FASLG,IFIH1,HLA-DOB,IFNGR2,IL10,IL12B,IL13RA1,IL17C,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,LEP,LF,MERTK,mir-27,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,OSM,SOC1,SOC3,TICAM1,TLR9,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	6.59	2.57E-07	0.300	4.08	CCL3,CCL4,CXCL3,CXCL8,IL10,IL12B,IL18,IL1A,IL1B,IL1RN,IL36G,IL36RN,IL6,ISG15,MX1,NFKB1,NFKB2,OAS2,OAS3,PYCARD,RSAD2,TICAM1,TLR9,TNF
Role of PKR in Interferon Induction and Antiviral Response	6.52	3.02E-07	0.242	0.60	ATF3,BID,CASP5,COLEC12,FASLG,FCGR1A,FOS,HSPA1A/HSPA1B,HSPA2,HSPA6,IFIH1,IFNGR2,IL18,IL1B,IL24,MAP2K6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NLRP12,NLRP6,PDGFC,PYCARD,REL,REL,TLR9,TNF,TRAF3
Wound Healing Signaling Pathway	6.3	5.01E-07	0.193	2.95	COL13A1,COL17A1,COL1A1,COL4A2,COL8A2,CXCL8,FASLG,FOS,IFNGR2,IL12B,IL17C,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL2,IL36G,IL36RN,IL4,IL6,ITGB4,LAMB3,LEP,LF,MAP2K6,MAPK3,mir-132,MMP10,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,OSM,PDGFC,RRAS,TNF,TNFRSF1B,TNFSF12,TNFSF13,TNFSF14,TNFSF15,VEGFA
Hepatic Cholestasis	6.3	5.01E-07	0.211		CXCL8,CYP27A1,CYP3A5,FASLG,HSD3B7,IL12B,IL17C,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL2,IL36G,IL36RN,IL4,IL6,INSR,IRAK2,IRAK3,LEP,LF,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,OSM,PRKCB,REL,REL,TJ2,TNF,TNFRSF1B,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15

Hepatic Fibrosis Signaling Pathway	5.82	1.51E-06	0.159	2.29	CACNA1D,CACNA1E,CACNA2D3,CACNB4,CCL3,COL1A1,CREB5,CXCL8,EDN1,FLT1,FOS,FTH1,FZD2,GLIS2,GNAI2,HIF1A,ICAM1,IL17RA,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IRAK2,IRAK3,IRS2,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,KLF9,LEP,LRP1,MAP2K6,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PDGFC,PRKCB,PTCH1,PTEN,REL,RELB,RHOBTB2,RHO,PHOV,RND1,RRAS,SOD2,SUCNR1,TIMP1,TNF,TNFRSF1B,VEGFA,WNT10A,WNT5A,WNT5B
IL-6 Signaling	5.78	1.66E-06	0.234	2.89	COL1A1,CXCL8,CYP19A1,FOS,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL6,MAP2K6,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,RRAS,SOD2,SUCNR1,TIMP1,TNF,TNFRSF1B,VEGFA
IL-17A Signaling in Fibroblasts	5.7	2.00E-06	0.395		FOS,IL17RA,IL17RB,IL17RC,IL6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NFKBIZ,REL,RELB
Pyroptosis Signaling Pathway	5.64	2.29E-06	0.267	0.41	CASP5,GSDME,GZMA,IL18,IL1A,IL1B,MAPK11,NAIP,NFKB1,NFKB2,NLRP12,NLRP6,P2RX7,PTGER4,PYCARD,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TNFRSF1B,TRAF3,TXNIP
Hepatic Fibrosis / Hepatic Stellate Cell Activation	5.56	2.75E-06	0.200		CCR5,CCR7,COL13A1,COL17A1,COL1A1,COL4A2,COL8A2,CSF1,CXCL3,CXCL8,CYP2E1,ECE1,EDN1,EDNRB,FASLG,FLT1,HGF,ICAM1,IFNGR2,IGFBP4,IL10,IL1A,IL1B,IL1RL1,IL4,IL6,LEP,MET,NFKB1,NFKB2,PDGFC,REL,RELB,TIMP1,TIMP2,TNF,TNFRSF1B,VEGFA
Acute Phase Response Signaling	5.48	3.31E-06	0.201	1.57	C1R,C1S,C3,C4BPA,CFB,FOS,HPX,IL18,IL1A,IL1B,IL1RN,IL36G,IL36RN,IL6,MAP2K6,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,ORM1,ORM2,OSM,RBP7,REL,RELB,RRAS,SERPINF1,SERPINF1,SOC31,SOC33,SOD2,TNF,TNFRSF1B
Osteoarthritis Pathway	5.42	3.80E-06	0.185	1.67	ACVRL1,ADAMTS5,ALPL,ANKX5,CASP5,CREB5,CXCL8,CXCR2,ELF3,FZD2,GLIS2,HES1,HIF1A,HTRA1,IL1B,IL1RL1,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,JAG1,LEP,LRP1,MMP10,MTF1,NFKB1,NFKB2,P2RX7,PDGFC,PTCH1,REL,RELB,S100A8,S1PR2,S1PR3,SOD4,SPHK1,TLR2,TNF,TNFRSF1B,VEGFA
Airway Pathology in Chronic Obstructive Pulmonary Disease	5.4	3.98E-06	0.239		CCL20,CXCL1,CXCL3,CXCL8,FASLG,IL12B,IL17C,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,LEP,LIF,MPO,ORM1,ORM2,OSM,PTGDS,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15
Role Of Osteoclasts In Rheumatoid Arthritis Signaling Pathway	5.3	5.01E-06	0.171	0.15	ADAM15,ADAM17,BIRC3,COL13A1,COL17A1,COL1A1,COL4A2,COL8A2,CREB5,CSF1,CSF1R,CTSK,FCGR1A,FCGR2A,FCGR2C,FCGR3A/FCGR3B,FOS,IL10,IL18,IL1B,IL1RL1,IL4,ITGB3,ICP2,MAP2K6,MAPK11,MAPK3,MITF,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,MRAS,NAIP,NFKB1,NFKBIA,NFKBID,NFKBIE,RHOBTB2,RHO,PHOV,RND1,RRAS,SRC,TNF,TNFRSF11A,TNFRSF1B
TWEAK Signaling	5.27	5.37E-06	0.389	-0.58	BID,BIRC3,NAIP,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TNFRSF12A,TNFSF12,TRAF1,TRAF3
IL-8 Signaling	5.15	7.08E-06	0.189	-0.18	ANGPT1,CND3,CSTB,CXCL1,CXCL8,CXCR1,CXCR2,FLT1,FOS,GNAI2,GNAQ,GNAZ,GNB3,GNG2,GNG4,GNG7,ICAM1,IRAK2,IRAK3,ITGB2,ITGB3,LIMK2,MAPK3,MPO,MRAS,NFKB1,NFKBIA,NFKBIE,PDGFC,PLCB2,PLD1,PRKCB,RHOBTB2,RHO,PHOV,RND1,RRAS,SRC,VEGFA
Role Of Osteoblasts In Rheumatoid Arthritis Signaling Pathway	5.05	8.91E-06	0.183	1.72	ALPL,COL1A1,CTSK,CTSL,CTSS,CXCL8,FASLG,FZD2,IL12B,IL17C,IL18,IL1A,IL1B,IL2,IL36G,IL4,IL6,LEP,LIF,LRP1,MAPK3,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,OSM,PDGFC,SRC,TNF,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15,VEGFA,WNT10A,WNT5A,WNT5B
Role of IL-17A in Arthritis	4.66	2.19E-05	0.298		CCL20,CXCL1,CXCL3,CXCL8,IL17RA,IL17RB,IL17RC,MAP2K6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB
IL-17A Signaling in Gastric Cells	4.49	3.24E-05	0.423	-0.38	CCL20,CXCL1,CXCL8,FOS,IL17RA,IL17RB,IL17RC,MAPK11,MAPK3,NFKB1,TNF
Crosstalk between Dendritic Cells and Natural Killer Cells	4.48	3.31E-05	0.242	1.50	CAMK2G,CCR7,CD80,CD83,FASLG,FSCN1,FSCN2,ICAM3,IL12B,IL18,IL2,IL4,IL6,ITGAL,NCR3,NFKB1,NFKB2,REL,RELB,TLR9,TNF,TNFRSF1B
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	4.46	3.47E-05	0.186	2.27	CAT,FOS,IFNGR2,IL4,LYZ,MAPK3K13,MAP3K3,MAP3K6,MAP3K8,MAPK11,MAPK3,MPO,NCF4,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,ORM1,ORM2,PPM11,PPP1R14A,PPP2R2B,PRKCB,REL,RELB,RHOBTB2,RHO,PHOV,RND1,S100A8,SIRPA,TLR2,TNF,TNFRSF1B
STAT3 Pathway	4.41	3.89E-05	0.207	-0.50	CDKN1A,CISH,CXCR1,CXCR2,FLT1,HGF,IL13RA1,IL17RA,IL17RB,IL17RC,IL17RE,IL1A,IL1B,IL1RL1,IL21R,IL31RA,IL5RA,IL9R,INSR,MAPK11,MAPK3,MRAS,RRAS,SOC31,SOC33,SRC,TNFRSF11A,VEGFA
Role of IL-17A in Psoriasis	4.36	4.37E-05	0.571	0.71	CCL20,CXCL1,CXCL3,CXCL8,IL17RA,IL17RB,IL17RC,S100A8
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	4.35	4.47E-05	0.500	3.00	CCL3,CCL4,CSF3,CXCL1,IL10,IL12B,IL1B,IL6,TNF
Inhibition of Matrix Metalloproteases	4.24	5.75E-05	0.342	0.30	ADAM17,LRP1,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,SDC2,TFPI2,TIMP1,TIMP2
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis	4.18	6.61E-05	0.174		ADAM17,ADAMTS5,ALPL,BIRC3,COL1A1,CSF1,CSF1R,CTSK,DKK3,FOS,FZD2,IL10,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL4,IL6,ITGB3,LRP1,MAP2K6,MAPK3,MMP14,NAIP,NFKB1,NFKBIA,NFKBID,NFKBIE,SRC,TNF,TNFRSF11A,TNFRSF1B,WNT10A,WNT5A,WNT5B
Xenobiotic Metabolism Signaling	4.08	8.32E-05	0.162		ALDH1A1,ALDH2,ALDH3B1,CAMK1,CAMK1G,CAMK2G,CAT,CE1,CHST13,CHST7,CYP3A5,GAL3ST2,GRIP1,GSTM2,H3ST2,H3ST3A1,H3ST3B1,IL1A,IL1B,IL4I1,IL6,MAP2K6,MAP3K13,MAP3K3,MAP3K6,MAP3K8,MAPK11,MAPK3,MGST2,MRAS,NDST1,NFE2L2,NFKB1,NFKB2,NQO1,PPM11,PPP2R2B,PRKCB,REL,RELB,RRAS,SULT1A1,SULT1A2,TNF
Type II Diabetes Mellitus Signaling	3.97	1.07E-04	0.192	1.51	ACSL1,ACSL5,CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CATSPER1,CD36,INSR,IRS2,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NSMAF,PRKCB,REL,RELB,SLC27A1,SLC27A3,SMPD3,SMPD5,SOC31,SOC33,TNF,TNFRSF1B
Role of IL-17F in Allergic Inflammatory Airway Diseases	3.97	1.07E-04	0.304	1.67	CCL4,CREB5,CXCL1,CXCL8,IL17RA,IL17RB,IL17RC,IL1B,IL6,MAPK3,NFKB1,NFKB2,REL,RELB
Role of Cytokines in Mediating Communication between Immune Cells	3.97	1.07E-04	0.288		CSF3,CXCL8,IL10,IL12B,IL18,IL1A,IL1B,IL1RN,IL2,IL24,IL36G,IL36RN,IL4,IL6,TNF
CD40 Signaling	3.84	1.45E-04	0.258	-0.83	FCER2,FOS,ICAM1,MAP2K6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TANK,TNFAIP3,TRAF1,TRAF3
Neuroinflammation Signaling Pathway	3.78	1.66E-04	0.153	1.44	BACE1,BIRC3,CCL3,CD80,CREB5,CSF1R,CX3CR1,CXCL8,FASLG,FOS,GABBR1,HLA-DOB,ICAM1,IFNGR2,IL10,IL12B,IL18,IL1B,IL34,IL4,IL6,IRAK2,IRAK3,MAPK11,MAPK3,MAPK6,NAIP,NFE2L2,NFKB1,NFKB2,P2RX7,PLA2G4C,PYCARD,REL,RELB,SLC1A2,SLC1A3,SOD2,TICAM1,TLR2,TLR5,TLR6,TLR8,TLR9,TNF,TRAF3,ZBTB12
IL-17A Signaling in Airway Cells	3.77	1.70E-04	0.254	-0.30	CCL20,CXCL1,CXCL3,IL17RA,IL17RB,IL17RC,IL6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PTEN,REL,RELB
Axonal Guidance Signaling	3.77	1.70E-04	0.136		ADAM15,ADAM17,ADAMDEC1,ADAMTS1,ADAMTS17,ADAMTS5,CFL2,DPLYSL2,ECE2,EPHB1,EPHB2,EPHB4,FE5,FZD2,GLIS2,GNAI2,GNAQ,GNAZ,GNB3,GNG2,GNG4,GNG7,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,KALRN,LIMK2,MAPK3,MET,MMP10,MMP14,MMP17,MMP23B,MMP25,MMP7,MRAS,NRP2,NTN1,NTN5,NTNG2,PDGFC,PLCB2,PLCD3,PLCH2,PLXNA1,PRKCB,PTCH1,PXN,RND1,RRAS,SDC2,SEMA3G,SEMA6A,SEMA6C,SLIT1,TUBA1A,TUBB4A,VEGFA,WAS,WNT10A,WNT5A,WNT5B
GNRH Signaling	3.7	2.00E-04	0.175	-2.71	CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CAMK2G,CATSPER1,CREB5,EGR1,FOS,GNAI2,GNAQ,GNB3,GNG2,GNG4,GNG7,MAP2K6,MAP3K13,MAP3K3,MAP3K6,MAP3K8,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,PLCB2,PRKCB,PXN,REL,RELB,RRAS,SRC

IL-1 Signaling	3.68	2.09E-04	0.219	2.11	FOS,GNAI2,GNAQ,GNAZ,GNB3,GNB2,GNB4,GNB7,IL1A,IRAK2,IRAK3,MAP2K6,MAPK11,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB
PPAR Signaling	3.63	2.34E-04	0.212	-2.24	FOS,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,INSR,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PDGFC,REL,RELB,RRAS,TNF,TNFRSF1B
TNFR1 Signaling	3.58	2.63E-04	0.280	1.51	BID,BIRC3,FOS,NAIP,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TANK,TNF,TNFAIP3
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17A and IL-17F	3.42	3.80E-04	0.391	3.00	CCL3,CCL4,CSF3,CXCL1,IL10,IL12B,IL1A,IL18,TNF
cAMP-mediated signaling	3.39	4.07E-04	0.160	-1.18	ADORA2A,ADRB1,AKAP5,AKAP6,CAMK1,CAMK1G,CAMK2G,CCR4,CHRM4,CREB5,CREM,CXCR2,DUSP1,DUSP4,FFAR3,GABBR1,GNAI2,GRM2,HCAR2,HCAR3,HRH2,HTR6,MAPK3,MPPE1,OPRL1,P2RY13,PDE1B,PDE6G,PTGER4,RAPGEF3,SGS12,SGS14,SGS2,S1PR3,SMPDL3A,SRG,SSTR3
Leukocyte Extravasation Signaling	3.36	4.37E-04	0.169	-1.51	ACTN1,ARHGAP8/PRRS-ARHGAP8,BMX,CD44,CLDN9,DLC1,GNAI2,ICAM1,ICAM3,ITGAL,ITGB2,MAPK11,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,NCF4,PECAM1,PRKCB,PXN,RAPGEF3,RDX,SELPLG,SRC,TIMP1,TIMP2,VAV1,VCL,WAS
Th1 and Th2 Activation Pathway	3.23	5.89E-04	0.174		CCR3,CCR4,CCR5,CD274,CD80,CRLF2,DLL1,DLL4,HLA-DOB,ICAM1,IFNGR2,IL10,IL12B,IL17RB,IL18,IL1RL1,IL2,IL24,IL4,IL6,ITGB2,JAG1,MAP2K6,NFKB1,PTGDR2,SOC51,SOC53,TNFRSF4,VAV1
RANK Signaling in Osteoclasts	3.2	6.31E-04	0.213	0.28	BIRC3,FOS,MAP2K6,MAP3K13,MAP3K3,MAP3K6,MAP3K8,MAPK11,MAPK3,MITF,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,SRG,TNFRSF11A
April Mediated Signaling	3.15	7.08E-04	0.286	-0.33	FOS,MAPK11,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TNFSF13,TRAF1,TRAF3
CD27 Signaling in Lymphocytes	3.13	7.41E-04	0.255	-0.33	BID,FOS,MAP2K6,MAP3K13,MAP3K3,MAP3K6,MAP3K8,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB
Signaling by Rho Family GTPases	3.13	7.41E-04	0.151	0.00	ARHGEF18,ARHGEF4,CD42EP1,CD42EP2,CD42EP4,CD42EP5,CDH2,CDH23,CDH26,CFL2,FOS,GNAI2,GNAQ,GNAZ,GNB3,GNB2,GNB4,GNB7,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,UMK2,MAPK3,MRAS,NEDD4,NFKB1,NFKB2,PLD1,RDX,REL,RELB,RHOBTB2,RHOV,RHOV,RND1,SEPTIN5,WAS
Inflammasome pathway	3.13	7.41E-04	0.400	1.41	CASP5,IL18,IL18,NAIP,NFKB1,NFKB2,P2RX7,PYCARD
LPS/IL-1 Mediated Inhibition of RXR Function	3.13	7.41E-04	0.158	2.12	ACSL1,ACSL5,ALDH1A1,ALDH2,ALDH3B1,CAT,CHST13,CHST7,CYP2E1,CYP2S1,CYP3A5,FABP3,GAL3ST2,GSTM2,HS3ST2,HS3ST3A1,HS3ST3B1,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL4I1,MGST2,NDST1,SCARB1,SLC27A1,SLC27A3,SLC35A2,SULT1A1,SULT1A2,TNF,TNFRSF1B
B Cell Activating Factor Signaling	3.07	8.51E-04	0.279	1.34	FOS,MAPK11,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TNFSF13B,TRAF1,TRAF3
Chemokine Signaling	3.06	8.71E-04	0.221	-1.00	CAMK1,CAMK1G,CAMK2G,CCL4,CCR3,CCR5,FOS,GNAI2,GNAQ,UMK2,MAPK11,MAPK3,MRAS,PLCB2,PRKCB,RRAS,SRG
Induction of Apoptosis by HIV1	3.06	8.71E-04	0.238	1.39	BID,BIRC3,FASLG,NAIP,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,SLC25A13,TNF,TNFRSF1B,TRAF1
LXR/RXR Activation	3.04	9.12E-04	0.187	-2.24	C3,CD36,HPX,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IL6,LPL,LYZ,NFKB1,NFKB2,ORM1,ORM2,REL,RELB,S100A8,SERPINF1,TNF,TNFRSF1B
Gαi Signaling	3	1.00E-03	0.179	-0.66	CCR4,CHRM4,CXCR2,FFAR3,GABBR1,GNAI2,GNAQ,GNAZ,GNB3,GNB2,GNB4,GNB7,GRM2,HCAR2,MAPK3,MRAS,OPRL1,P2RY13,RALGDS,SGS12,SGS14,RRAS,S1PR3,SRG,SSTR3
Cholecystokinin/Gastrin-mediated Signaling	2.95	1.12E-03	0.188	0.89	CREM,FOS,GNAQ,IL18,IL1A,IL1B,IL1RN,IL36G,IL36RN,MAP2K6,MAPK3,MRAS,PLCB2,PRKCB,PXN,RHOBTB2,RHOV,RHOV,RND1,RRAS,SRG,TNF
Ephrin B Signaling	2.93	1.17E-03	0.222	-2.11	CFL2,EPHB1,EPHB2,EPHB4,GNAI2,GNAQ,GNAZ,GNB3,GNB2,GNB4,GNB7,KALRN,MAPK3,MRAS,PXN,VAV1
Oxytocin In Brain Signaling Pathway	2.91	1.23E-03	0.161	-2.34	CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CAMKK2,CASP5,CATSPER1,CREB5,GNAI2,GNAQ,GNB3,GNB2,GNB4,GNB7,IL1B,IL6,MAPK3,MRAS,NFKB1,NFKB2,NLRP12,NLRP6,PLA2G4C,PLA2G7,PLB1,PRKCB,PYCARD,SGS2,RAS,TNF
Natural Killer Cell Signaling	2.91	1.23E-03	0.161	0.93	CFL2,COL1A1,FASLG,FCGR2A,FCGR3B,HSPA1A/HSPA1B,HSPA2,HSPA6,IL12B,IL18,IL2,ITGAL,LCP2,LIMK2,MAP3K13,MAP3K3,MAP3K6,MAP3K8,MAPK11,MAPK3,MRAS,NCR3,NFKB1,NFKB2,PXN,REL,RELB,RRAS,SIGLEC7,VAV1,WAS
iNOS Signaling	2.82	1.51E-03	0.261	2.33	FOS,IFNGR2,IRAK2,IRAK3,MAPK11,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB
ILK Signaling	2.8	1.58E-03	0.158	0.00	ACTN1,CFL2,CREB5,FERMT2,FOS,HIF1A,IRS2,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,LIMS1,MAP2K6,MAPK3,NFKB1,NFKB2,PDGFC,PPM1,PPP2R2B,PTEN,PXN,REL,RELB,RHOBTB2,RHOV,RHOV,RND1,TNF,VCL,VEGFA
4-1BB Signaling in T Lymphocytes	2.77	1.70E-03	0.294	1.00	MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TRAF1
Aryl Hydrocarbon Receptor Signaling	2.71	1.95E-03	0.170	1.00	ALDH1A1,ALDH2,ALDH3B1,CCND3,CDKN1A,CYP3A5,ESR2,FASLG,FOS,GSTM2,IL1A,IL1B,IL6,MAPK3,MGST2,NFE2L2,NFIC,NFKB1,NFKB2,NQO1,REL,RELB,SLC35A2,SRG,TNF
HGF Signaling	2.69	2.04E-03	0.176	-1.29	CDKN1A,ELF3,ETS2,FOS,GAB1,HGF,IL6,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,MAP3K13,MAP3K3,MAP3K6,MAP3K8,MAPK3,MET,MAS,PRKCB,PXN,RRAS
Ceramide Signaling	2.69	2.04E-03	0.198	0.28	FOS,MAPK3,MRAS,NFKB1,NFKB2,NSMAF,PPM1,PPP2R2B,REL,RELB,RRAS,S1PR2,S1PR3,SMPD3,SMPD5,SPHK1,TNF,TNFRSF1B
RHO GDI Signaling	2.66	2.19E-03	0.151	-0.73	ARHGAP8/PRRS-ARHGAP8,ARHGEF18,ARHGEF4,CD44,CDH2,CDH23,CDH26,CFL2,DGKZ,DLC1,ESR2,GNAI2,GNAQ,GNAZ,GNB3,GNB2,GNB4,GNB7,GRIP1,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,LIMK2,MAS,RDX,RHOBTB2,RHOV,RHOV,RND1,SRG
PI3K Signaling in B Lymphocytes	2.66	2.19E-03	0.171	0.89	ATF3,C3,CAMK2G,FOS,IL4,IRS2,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PIK3AP1,PLCB2,PLCD3,PLCH2,PLEKHA4,PRKCB,PTEN,REL,RELB,RRAS,VAV1

Dermatan Sulfate Biosynthesis (Late Stages)	2.62	2.40E-03	0.262	0.30	CHST13,CHST7,DSE,DSEL,GAL3ST2,HS3ST2,HS3ST3A1,HS3ST3B1,NDST1,SULT1A1,SULT1A2
Opioid Signaling Pathway	2.6	2.51E-03	0.142	-2.06	ARRB1,CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CAMK1,CAMK1G,CAMK2G,CATSPER1,CLTCL1,CREB5,EGFR4,FOS,GNAI2,GNAQ,GNAZ,GNB3,GN2,GN4,GN7,MAP2K6,MAPK3,MAPK6,MRAS,NFKB1,NFKB2,NFKBIA,NO S3,OPRL1,PDE1B,PRKCB,RGS1,RGS12,RGS13,RGS14,RGS16,RRAS,SR
Activation of IRF by Cytosolic Pattern Recognition Receptors	2.59	2.57E-03	0.222	0.58	IFIH1,IL10,IL6,JSG15,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TANK,TNF,TRAF3
Complement System	2.59	2.57E-03	0.278	0.71	C1R,C15,C3,C3AR1,C4BPA,CD46,CFB,CR1,ITGB2,SERPING1
HIF1α Signaling	2.54	2.88E-03	0.152	-0.18	ADM,CAMK1,CAMK1G,CAMK2G,CCNG2,CDKN1A,EDN1,EGLN1,FLT1,HGF,HIF1A,HK3,HSPA1A/HSPA18,HSPA2,HSPA6,IL6,MAP2K6,MAPK3,MET,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,MRAS,PDGFC,PRKCB,RAS,VEGFA
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	2.47	3.39E-03	0.667	1.00	HAAO,IDO1,KMO,KYNU
Pulmonary Healing Signaling Pathway	2.47	3.39E-03	0.152	1.46	CFL2,FZD2,HIF1A,JAG1,MAPK11,MAPK3,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,MRAS,NFKB1,NFKB2,NFKBIA,PDGFC,PECAM1,PRKCB,RRAS,SR,THBS1,TLR2,TNF,TNFRSF1B,VEGFA,WNT10A,WNT5A,WNT5B
Gαq Signaling	2.36	4.37E-03	0.158	0.50	GNAI2,GNAQ,GNAZ,GNB3,GN2,GN4,GN7,HRH1,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLCB2,PLD1,PRKCB,REL,RELB,RGS16,RGS2,RHOBTB2,RHO, RHOV,RND1
Role of MAPK Signaling in Inhibiting the Pathogenesis of Influenza	2.36	4.37E-03	0.203	0.78	CXCL8,IL1B,IL6,MAP2K6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLA2G4C,PLA2G7,PLB1,TNF
Ephrin Receptor Signaling	2.35	4.47E-03	0.149	-1.41	ANGPT1,CFL2,CREB5,EPHB1,EPHB2,EPHB4,GNAI2,GNAQ,GNAZ,GNB3,GN2,GN4,GN7,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,KALRN,LIMK2,MAPK3,MRAS,PDGFC,PNX,RRAS,SDC2,SR,VEGFA,WAS
Macropinocytosis Signaling	2.26	5.50E-03	0.197	0.00	CSF1,CSF1R,HGF,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,MET,MRAS,MRC1,PDGFC,PRKCB,RRAS,SR
Th2 Pathway	2.26	5.50E-03	0.165	2.36	CCR3,CCR4,CCR5,CD80,CRLF2,DLL1,HLA-DOB,ICAM1,IL10,IL12B,IL17RB,IL1RL1,IL2,IL24,IL4,ITGB2,JAG1,NFKB1,PTGDR2,SOC53,TNFRSF4,VAV1
Th1 Pathway	2.23	5.89E-03	0.171	1.21	CCR5,CD274,CD80,DLL1,DLL4,HLA-DOB,ICAM1,IFNGR2,IL10,IL12B,IL18,IL2,IL4,IL6,ITGB2,MAP2K6,NFKB1,SOC51,SOC53,VAV1
Apoptosis Signaling	2.16	6.92E-03	0.176	1.50	BCL2A1,BID,BIRC3,CDK1,FASLG,MAPK3,MRAS,NAIP,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,RRAS,TNF,TNFRSF1B
Pulmonary Fibrosis Idiopathic Signaling Pathway	2.13	7.41E-03	0.130	1.54	ADAMTS1,CDH2,COL13A1,COL17A1,COL1A1,COL4A2,COL8A2,EDN1,EGF1,EPHB4,FOS,FZD2,HE51,IL13RA1,IL17RA,IL1B,IL4,IL6,JAG1,MAP2K6,MAPK11,MAPK3,MMP10,MMP11,MMP14,MMP17,MMP23B,MMP25,MMP7,MRAS,NFKB1,NFKB2,PDGFC,PLAU,PTEN,REL,RELB,RRAS,THBS1,WNT10A,WNT5A,WNT5B
IL-9 Signaling	2.1	7.94E-03	0.257	0.82	CISH,IL9R,IRS2,NFKB1,NFKB2,REL,RELB,SOC53,TNF
Role of NFAT in Cardiac Hypertrophy	2.08	8.32E-03	0.142	-2.35	AKAP5,CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CAMK1,CAMK1G,CAMK2G,CATSPER1,GNAI2,GNAQ,GNB3,GN2,GN4,GN7,HDAC11,HDAC9,IL6,ILF,MAP2K6,MAPK11,MAPK3,MRAS,PLCB2,PLCD3,PLCH2,PRKCB,RRAS,SLC8A1,SR
Hematopoiesis from Multipotent Stem Cells	2.05	8.91E-03	0.417		CSF1,CSF3,IL2,IL4,KITLG
MIF-mediated Glucocorticoid Regulation	2.02	9.55E-03	0.250	1.89	MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLA2G4C,REL,RELB
G Protein Signaling Mediated by Tubby	2.01	9.77E-03	0.233		GNAI2,GNAQ,GNAZ,GNB3,GN2,GN4,GN7,INSR,MRAS,PLCB2
P2Y Purigenic Receptor Signaling Pathway	1.98	1.05E-02	0.159	-1.21	CREB5,FOS,GNAI2,GNAQ,GNB3,GN2,GN4,GN7,ITGB3,MAPK3,MRAS,NFKB1,NFKB2,P2RY6,PLCB2,PLCD3,PLCH2,PRKCB,REL,RELB,RRAS
Antioxidant Action of Vitamin C	1.96	1.10E-02	0.168	-1.07	MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLA2G4C,PLA2G7,PLB1,PLCB2,PLCD3,PLCH2,PLD1,REL,RELB,TNF,TXNRD1
Gαs Signaling	1.96	1.10E-02	0.161	0.00	ADORA2A,ADRB1,CREB5,GNAI2,GNAQ,GNAZ,GNB3,GN2,GN4,GN7,HCAR2,HCAR3,HRH2,HTR6,MAPK3,MRAS,PTGER4,RAPGEF3,RGS2,SR
MIF Regulation of Innate Immunity	1.96	1.10E-02	0.227	1.41	FOS,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLA2G4C,REL,RELB
Role of RIG1-like Receptors in Antiviral Innate Immunity	1.96	1.10E-02	0.227	2.24	IFIH1,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TANK,TRAF3
GADD45 Signaling	1.95	1.12E-02	0.203	-1.73	CCND3,CDK1,CDKN1A,GADD45B,IL1B,MAP2K6,MAPK11,NFKB1,NFKB2,REL,RELB,TNF
MSP-ROn Signaling In Macrophages Pathway	1.95	1.12E-02	0.164	-1.70	ARG1,CREB5,FOS,HLA-DOB,IFNGR2,IL10,IL12B,ITGB2,MAPK3,MRAS,NFKB1,NFKB2,NFKBIZ,REL,RELB,RRAS,SOC51,SOC53,TNF
Relaxin Signaling	1.95	1.12E-02	0.152	-0.83	FOS,GNAI2,GNAQ,GNAZ,GNB3,GN2,GN4,GN7,MAPK3,MPPE1,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NOS3,PDE1B,PDE6G,REL,RELB,SMPDL3A,VEGFA
Semaphorin Signaling in Neurons	1.95	1.12E-02	0.203		CFL2,DPLYSL2,DPLYSL3,FE5,LIMK2,MAPK3,MET,PLXNA1,RHOBTB2,RHO, RHOV,RND1
IL-12 Signaling and Production in Macrophages	1.94	1.15E-02	0.157		FOS,IL10,IL12B,IL18,IL4,LYZ,MAP3K8,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBIE,ORM1,ORM2,PRKCB,REL,RELB,S100A8,TLR2,TNF

GPCR-Mediated Nutrient Sensing in Enteroendocrine Cells	1.92	1.20E-02	0.162	-2.36	CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CATSPER1,FFAR2,FFAR3,GNAI2,GNAQ,GNQ2,GNQ4,GNQ7,GPBAR1,PLCB2,PLCD3,PLCH2,PRKCB,TAS1R3
Immunogenic Cell Death Signaling Pathway	1.89	1.29E-02	0.179	1.29	DAPK2,GZMA,HSPA1A/HSPA1B,HSPA2,HSPA6,IFNGR2,IL1B,IL6,LRP1,NFKB1,NFKB2,P2RX7,PYCARD,TNF,TNFRSF1B
Thrombin Signaling	1.84	1.45E-02	0.136	-0.94	ARHGEF18,ARHGEF4,ARHGEF40,CAMK1,CAMK1G,CAMK2G,GNAI2,GNAQ,GNQZ,GNB3,GNQ2,GNQ4,GNQ7,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,PLCB2,PLCD3,PLCH2,PRKCB,REL,RELB,RHOBTB2,RHOV,RHOV,RND1,RRAS,SRC
Heparan Sulfate Biosynthesis (Late Stages)	1.84	1.45E-02	0.197	0.63	ALDH2,CHST13,CHST7,GAL3ST2,H3ST2,H3ST3A1,H3ST3B1,NDST1,PLA1A,SULT1A1,SULT1A2,TNFAIP6
IL-23 Signaling Pathway	1.84	1.45E-02	0.217	1.41	HIF1A,IL12B,IL18,NFKB1,NFKB2,NFKBIA,REL,RELB,SOC3,TNF
Death Receptor Signaling	1.82	1.51E-02	0.170	0.83	BID,BIRC3,FASLG,NAIP,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,TANK,TNF,TNFRSF1B,TNFSF12,TNFSF15
p38 MAPK Signaling	1.81	1.55E-02	0.158	2.83	CREB5,DUSP1,FASLG,IL18,IL1A,IL1B,IL1RL1,IL1RN,IL36G,IL36RN,IRAK2,IRAK3,MAP2K6,MAPK11,MAPKAPK3,PLA2G4C,TIFA,TNF,TNFRSF1B
fMLP Signaling in Neutrophils	1.77	1.70E-02	0.154	-1.81	GNAI2,GNAQ,GNQZ,GNB3,GNQ2,GNQ4,GNQ7,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLCB2,PRKCB,REL,RELB,RRAS,WAS
Adrenomedullin signaling pathway	1.77	1.70E-02	0.139	0.82	ADM,C3,CALCRL,FOS,GNAQ,HIF1A,IL18,IL1A,IL1B,IL1RN,IL36G,IL36RN,MAP2K6,MAPK11,MAPK3,MAPK6,MRAS,NFKB1,NFKB2,NOS3,PLCB2,PLCD3,PLCH2,REL,RELB,RRAS,TNF
Ethanol Degradation IV	1.76	1.74E-02	0.300	-1.63	ACSL1,ACSS3,ALDH1A1,ALDH2,ALDH3B1,CAT
Dermatan Sulfate Biosynthesis	1.76	1.74E-02	0.200	0.30	CHST13,CHST7,DSE,DSEL,GAL3ST2,H3ST2,H3ST3A1,H3ST3B1,NDST1,SULT1A1,SULT1A2
Xenobiotic Metabolism AHR Signaling Pathway	1.76	1.74E-02	0.177	0.58	ALDH1A1,ALDH2,ALDH3B1,GSTM2,IL1A,IL1B,IL6,MGST2,NFKB1,NFKB2,NQO1,REL,RELB,TNF
Autophagy	1.76	1.74E-02	0.136	1.30	ARL8B,ATG7,CAMKK2,CREB5,DAPK2,DRAM1,FOS,GABARAPL2,HGF,HIF1A,INSR,IRS2,MAP1LC3A,MAPK3,NFKB1,NFKB2,PPM1J,PPP2R2B,PTEN,SLC3A2,SLC7A5,SQSTM1,TICAM1,TNF,TNFRSF1B,TRAF3,ULK1,VEGFA,VP518
Airway Inflammation in Asthma	1.76	1.74E-02	0.242		CCL20,CXCL8,IFNGR2,IL10,IL12B,IL4,OSM,RNASE2
Apelin Endothelial Signaling Pathway	1.75	1.78E-02	0.150	-0.83	ANGPT1,FOS,GNAI2,GNAQ,GNQZ,GNB3,GNQ2,GNQ4,GNQ7,HIF1A,CAM1,MAPK3,MRAS,NFKB1,NFKB2,NOS3,PLCB2,PRKCB,REL,RELB,RRAS
Androgen Signaling	1.74	1.82E-02	0.143	-0.91	CACNA1D,CACNA1E,CACNA1I,CACNA2D3,CACNB4,CATSPER1,GNAI2,GNAQ,GNQZ,GNB3,GNQ2,GNQ4,GNQ7,GTTF2H1,MAPK3,MRAS,NFKB1,NFKB2,POLR2F,PRKCB,REL,RELB,SRC,TAF4B
Regulation of Cellular Mechanics by Calpain Protease	1.74	1.82E-02	0.170	-0.45	ACTN1,CNND3,CDK1,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,MAPK3,MRAS,PXN,RRAS,SRC,VCL
Oxytocin Signaling Pathway	1.7	2.00E-02	0.127	-0.85	ARRB1,ATP2B1,CACNA1D,CACNA1E,CACNA2D3,CACNB4,CAMKK2,CD36,CREB5,CXCL8,FOS,GNAI2,GNAQ,GNB3,GNQ2,GNQ4,GNQ7,IL6,LEP,LPL,MAPK11,MAPK3,MAPK6,MRAS,NFE2L2,NFKB1,NFKB2,NOS3,PLA2G4C,PLCB2,PPP1R14A,PRKCB,REL,RELB,RRAS
Eicosanoid Signaling	1.67	2.14E-02	0.185	1.00	ALOX15B,ALOX5AP,CYSLTR2,DPEP2,DPEP3,PLA2G4C,PLA2G7,PLB1,PTGDS,PTGER4,PTGES,TBXA51
JAK/STAT Signaling	1.64	2.29E-02	0.171	-1.16	CDKN1A,CISH,FOS,GNQZ,IL6,MAPK3,MRAS,NFKB1,NFKB2,REL,RELB,RRAS,SOC1,SOC3
Sphingosine-1-phosphate Signaling	1.63	2.34E-02	0.154	-1.60	ACER1,CASP5,GNAI2,GNAQ,MAPK3,NAAA,PDGFC,PLCB2,PLCD3,PLCH2,RHOBTB2,RHOV,RHOV,RND1,S1PR2,S1PR3,SMPD3,SPHK1
Prostanoid Biosynthesis	1.63	2.34E-02	0.400		CYP251,PTGDS,PTGES,TBXA51
Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway	1.6	2.51E-02	0.135	0.00	CDH2,EGR1,FASLG,FOS,GAB1,HGF,IL6,MAP2K6,MAPK11,MAPK3,MET,MRAS,NFKB1,NFKB2,PDGFC,REL,RELB,RRAS,TNF,TNFRSF1B,TNFSF12,TNFSF13,TNFSF13B,TNFSF14,TNFSF15,TNFSF18
Role of JAK1 and JAK3 in γ c Cytokine Signaling	1.57	2.69E-02	0.179		CRLF2,FES,IL2,IL21R,IL4,IL9,IRS2,MAPK3,MRAS,RRAS,SOC1,SOC3
PEDF Signaling	1.56	2.75E-02	0.167	0.00	FASLG,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,REL,RELB,RRAS,SERPINF1,SOD2
Coronavirus Pathogenesis Pathway	1.55	2.82E-02	0.134	1.80	ADAM17,CCR2,CTSL,CXCL8,FASLG,FOS,HDAC11,HDAC9,HIF1A,IL17RA,IL1B,IL6,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,OAS2,OAS3,PYCARD,REL,RELB,TICAM1,TRAF3
IL-15 Production	1.54	2.88E-02	0.150	-1.00	BMX,CSF1R,EPHB1,EPHB2,EPHB4,FES,FLT1,IL6,INSR,MAP2K6,MERTK,MET,NFKB1,NFKB2,REL,RELB,ROR2,SRC
Triacylglycerol Degradation	1.54	2.88E-02	0.205	0.82	ABHD2,ALDH2,CES1,LPL,MGLL,NDST1,PLA1A,PLB1,TNFAIP6
Endothelin-1 Signaling	1.53	2.95E-02	0.134	-1.28	CASP5,ECE1,ECE2,EDN1,EDNRB,FOS,GAB1,GNAI2,GNAQ,GNQZ,MAPK11,MAPK3,MAPK6,MRAS,NOS3,PLA2G4C,PLA2G7,PLB1,PLCB2,PLCD3,PLCH2,PLD1,PRKCB,RRAS,SRC
Sperm Motility	1.53	2.95E-02	0.127	-1.00	BMX,CACNA1I,CATSPER1,CSF1R,EPHB1,EPHB2,EPHB4,FES,FLT1,GNAI2,GNAQ,GNQZ,GNB3,GNQ2,GNQ4,GNQ7,INSR,MAP2K6,MERTK,MET,MRAS,PDE1B,PLA2G4C,PLA2G7,PLB1,PLCB2,PLCD3,PLCH2,PRKCB,ROR2,SRC

LPS-stimulated MAPK Signaling	1.53	2.95E-02	0.165	-0.30	FOS,MAP2K6,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PRKCB,REL,RELB,RRAS
Heparan Sulfate Biosynthesis	1.53	2.95E-02	0.176	0.63	ALDH2,CHST13,CHST7,GAL3ST2,HS3ST2,HS3ST3A1,HS3ST3B1,NDST1,PLA1A,SULT1A1,SULT1A2,TNFAIP6
Regulation Of The Epithelial Mesenchymal Transition In Development Pathway	1.53	2.95E-02	0.165	1.73	ADAM17,FZD2,GLIS2,HIF1A,JAG1,NFKB1,NFKB2,PTCH1,REL,RELB,S100A4,WNT10A,WNT5A,WNT5B
Cardiac β -adrenergic Signaling	1.51	3.09E-02	0.136	-0.58	ADRB1,AKAP5,AKAP6,ATP2A1,CACNA1D,CACNA1E,CACNA2D3,CACNB4,GNAI2,GNAQ,GNAZ,GNB3,GNG2,GNG4,GNG7,MPPE1,MRAS,PDE1B,PDE6G,PPM11,PPP1R14A,PPP2R2B,SLC8A1,SMPDL3A
Oxidative Ethanol Degradation III	1.5	3.16E-02	0.233	-1.34	ACSL1,ACSS3,ALDH1A1,ALDH2,ALDH3B1,CYP2E1,CYP2S1
Chondroitin Sulfate Biosynthesis (Late Stages)	1.5	3.16E-02	0.200	0.33	CHST13,CHST7,GAL3ST2,HS3ST2,HS3ST3A1,HS3ST3B1,NDST1,SULT1A1,SULT1A2
NAD biosynthesis II (from tryptophan)	1.5	3.16E-02	0.364	1.00	HAAO,IDO1,KMO,KYNU
NF- κ B Activation by Viruses	1.48	3.31E-02	0.167	0.63	CCRS,ITGB3,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PRKCB,REL,RELB,RRAS
Dopamine Degradation	1.44	3.63E-02	0.250	-1.63	ALDH1A1,ALDH2,ALDH3B1,IL4I1,SULT1A1,SULT1A2
Lymphotoxin β Receptor Signaling	1.44	3.63E-02	0.185	1.13	CXCL1,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,RELB,TNFSF14,TRAF1,TRAF3
IL-13 Signaling Pathway	1.43	3.72E-02	0.148	-1.21	ALOX15B,ARG1,CD36,DUSP1,IL10,IL13RA1,IL17RA,IL17RB,IL17RC,IL24,IL4,MAPK11,MAPK3,SOC51,SOC53,SPDEF,SRC
Glucocorticoid Receptor Signaling	1.41	3.89E-02	0.109		CCL3,CDKN1A,CDKN1C,CEBPA,CXCL3,CXCL8,CXCR1,CXCR2,DUSP1,FBP1,FCGR1A,FOS,GF2ZH1,HLA-DOB,HSPA1A/HSPA1B,HSPA2,HSPA6,ICAM1,IL10,IL13RA1,IL17RA,IL17RB,IL17RC,IL17RE,IL1A,IL1B,IL1RL1,IL1RN,IL2,IL21R,IL31RA,IL4,IL5RA,IL6,IL9R,KRT5,MAPK11,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NOS3,PKD4,PIA2,GAC,PIA11,POI,B7E,BBAS,SGK1,SLPI,SMABCD3,SRC,TAF4B,TI B2,TNF,TSC2,ZD3,ZBTB12
Protein Kinase A Signaling	1.39	4.07E-02	0.114	-2.69	AKAP5,AKAP6,CAMK2G,CREB5,CREM,DUSP1,DUSP16,DUSP2,DUSP4,DUSP5,EBI3,GNAI2,GNAQ,GNB3,GNG2,GNG4,GNG7,H1-0,H1-10,H1-4,MAPK3,MPPE1,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,NOS3,NTN1,PDE1B,PDE6G,PLCB2,PLCD3,PLCH2,PPP1R14A,PRKCB,PTCH1,PTEN,PXN,PYGL,REL,RELB,SIRPA,SMPDL3A,TNNI2
Dendritic Cell Maturation	1.39	4.07E-02	0.114	2.29	CCR7,CD1A,CD1D,CD58,CD80,CD83,COL1A1,CREB5,FCGR1A,FCGR2A,FCGR2C,FCGR3A/FCGR3B,FSCN1,FSCN2,HLA-DOB,ICAM1,IL10,IL12B,IL18,IL1A,IL1B,IL1RN,IL36G,IL36RN,IL6,LEP,MAPK11,MAPK3,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLCB2,PLCD3,PLCH2,REL,RELB,TLR2,TLR9,TNF,TNFRSF1B,TRG/P1,ZBTB12
PPAR α /RXR α Activation	1.38	4.17E-02	0.131	-1.81	CD36,GK,GNAQ,IL1B,IL1RL1,IL6,INSR,LPL,MAP2K6,MAPK3,MRAS,NFKB1,NFKB2,NFKBIA,NFKBID,NFKBIE,PLCB2,PLCD3,PLCH2,PRKCB,REL,RELB,RRAS,SLC27A1
Semaphorin Neuronal Repulsive Signaling Pathway	1.37	4.27E-02	0.138	2.36	CD44,CFL2,DPYSL2,DPYSL3,FES,ITGAL,ITGB2,ITGB3,ITGB4,ITGB7,ITGB8,LIMK2,MAP2K6,NRP2,PLXNA1,RND1,RRAS,SEMA6A,SEMA6C,VCAN
Role of JAK family kinases in IL-6-type Cytokine Signalling	1.37	4.27E-02	0.240		IL6,MAPK11,MAPK3,OSM,SOC51,SOC53
D-myo-inositol-5-phosphate Metabolism	1.35	4.47E-02	0.129	-1.53	ALPL,DOT1L,DUSP1,DUSP16,DUSP2,DUSP4,DUSP5,ITPK1,NOCT,NUDT16,PIP4P2,PLCB2,PLCD3,PLCH2,PLPP7,PPFIA4,PPM11,PPP1R14A,PPP2R2B,PPP4R1,PTEN,SGPP2,SIRPA,SOC53,SSH3
Apelin Muscle Signaling Pathway	1.35	4.47E-02	0.188		GNAI2,GNAQ,GNAZ,GNB3,GNG2,GNG4,GNG7,MRAS,NOS3
Germ Cell-Sertoli Cell Junction Signaling	1.33	4.68E-02	0.133		ACTN1,CDH2,CFL2,LIMK2,MAP2K6,MAP3K13,MAP3K3,MAP3K6,MAP3K8,MAPK3,MRAS,PXN,RHOBTB2,RHOU,RHOV,RND1,RRAS,SRF,TNF,TUBA1A,TUBB4A,VCL
Ceramide Biosynthesis	1.33	4.68E-02	0.429		DEGS2,KDSR,SPTSSB
Adenine and Adenosine Salvage III	1.33	4.68E-02	0.429		ADA,ADA2,LACC1
γ -linolenate Biosynthesis II (Animals)	1.31	4.90E-02	0.263	-0.45	ACSL1,ACSL5,FADS1,SLC27A1,SLC27A3
Purine Nucleotides Degradation II (Aerobic)	1.31	4.90E-02	0.263	0.00	ACP3,ADA,ADA2,GDA,LACC1
Tryptophan Degradation III (Eukaryotic)	1.31	4.90E-02	0.231	1.00	CYP2S1,HAAO,IDO1,KMO,KYNU,TBXA1
Role of JAK1, JAK2 and TYK2 in Interferon Signaling	1.31	4.90E-02	0.231		IFNGR2,NFKB1,NFKB2,REL,RELB,SOC51

Supplementary Table 7

Significant pathways identified using IPA for *Influenza*

Gene filters for IPA analysis: adjusted p ≤ 0.0001 and absolute log2 fold change > 0.5

Ingenuity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	z-score	Molecules
Systemic Lupus Erythematosus In B Cell Signaling Pathway	17.2	6.31E-18	0.102	3.50	IFIH1,IFIT2,IFIT3,IGHA1,IGHG1,IGHG2,IGHG4,IGHV3-7,IGHV6-1,IGKC,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV4-1,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-8,IGLV3-1,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,IRF7,IRF9,ISG15,ILIR8A,RRAS,STAT1,STAT2,TLR3,TLR7,TNFSF10,TNFSF13B
IL-15 Signaling	15.5	3.16E-16	0.128		GZMB,IGHA1,IGHG1,IGHG2,IGHG4,IGHV3-7,IGHV6-1,IGKC,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV4-1,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-8,IGLV3-1,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,RRAS
Interferon Signaling	11.3	5.01E-12	0.361	3.46	IFI35,IFI6,IFIT1,IFIT3,IFITM1,IFITM3,IRF9,ISG15,MX1,OAS1,STAT1,STAT2,TAP1
B Cell Receptor Signaling	11.3	5.01E-12	0.092		IGHA1,IGHG1,IGHG2,IGHG4,IGHV3-7,IGHV6-1,IGKC,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV4-1,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-8,IGLV3-1,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,JCHAIN,RRAS
Communication between Innate and Adaptive Immune Cells	11.3	5.01E-12	0.082		CD80,IGHA1,IGHG1,IGHG2,IGHG4,IGHV3-7,IGHV6-1,IGKC,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV4-1,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-8,IGLV3-1,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,JCHAIN,TLR3,TLR7,TNFRSF17,TNFSF13B
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	11	1.00E-11	0.212	4.12	CASP1,DDX58,EIF2AK2,IFIT2,IFIT3,IRF7,IRF9,ISG15,MX1,OAS1,OAS2,OAS3,RSAD2,STAT1,STAT2,TLR3,TLR7
Kinetochore Metaphase Signaling Pathway	9.93	1.17E-10	0.168	2.18	AURKB,BIRC5,BUB1,CDC20,CDC48,CDK1,CENPA,ESPL1,KIF2C,NEK2,NUF2,PLK1,PTTG1,REC8,SKA1,SPC24,TTK,ZWINT
Primary Immunodeficiency Signaling	5.72	1.91E-06	0.196		ADA,IGHA1,IGHG1,IGHG2,IGHG4,IGKC,IGLC2,IGLC3,JCHAIN,TAP1
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	5.19	6.46E-06	0.103	3.16	C1QA,C1QB,C1QC,CASP1,DDX58,EIF2AK2,IFIH1,IRF7,OAS1,OAS2,OAS3,TLR3,TLR7,TNFSF10,TNFSF13B
Activation of IRF by Cytosolic Pattern Recognition Receptors	4.91	1.23E-05	0.159	1.90	DDX58,DHX58,IFIH1,IFIT2,IRF7,IRF9,ISG15,STAT1,STAT2,ZBP1
Estrogen-mediated S-phase Entry	4.8	1.58E-05	0.269	1.89	CCNA1,CCNA2,CDC25A,CDK1,CDKN1A,E2F7,E2F8
Multiple Sclerosis Signaling Pathway	3.97	1.07E-04	0.076	4.00	C1QA,C1QB,C1QC,CASP1,GRIN2D,GRIN3A,PARP10,PARP12,PARP14,PARP9,RNF213,STAT1,TLR3,TLR7,TNFSF10,TNFSF13B
Pathogen Induced Cytokine Storm Signaling Pathway	3.48	3.31E-04	0.059	2.00	AIM2,CASP1,CCL8,CCR1,CCR5,COL4A3,COL4A4,DDX58,DHX58,GZMB,IFIH1,IL1RAP,IRF7,IRF9,STAT1,TLR3,TLR7,TNFSF10,TNFSF13B,ZBP1
Coronavirus Pathogenesis Pathway	3.19	6.46E-04	0.072	-3.21	BST2,CASP1,DDX58,E2F7,E2F8,IRF7,IRF9,OAS1,OAS2,OAS3,STAT1,STAT2,TLR3,TLR7
Ribonucleotide Reductase Signaling Pathway	3.19	6.46E-04	0.077	1.94	BIRC5,CDC25A,CDK1,CDKN1A,E2F7,E2F8,FOXO1,MYBL2,PARP10,PARP12,PARP14,PARP9,RRM2
Mitotic Roles of Polo-Like Kinase	3.13	7.41E-04	0.125	1.13	CCNB2,CDC20,CDC25A,CDK1,ESPL1,PKMYT1,PLK1,PTTG1
Role of PKR in Interferon Induction and Antiviral Response	2.94	1.15E-03	0.083	3.16	ATF3,CASP1,DDX58,EIF2AK2,IFIH1,IRF9,MARCO,PDGFRB,STAT1,STAT2,TLR3
Role of CHK Proteins in Cell Cycle Checkpoint Control	2.59	2.57E-03	0.121	-1.34	CDC25A,CDK1,CDKN1A,CLSPN,E2F7,E2F8,PLK1
Cyclins and Cell Cycle Regulation	2.36	4.37E-03	0.095	2.12	CCNA1,CCNA2,CCNB2,CDC25A,CDK1,CDKN1A,E2F7,E2F8
Cell Cycle: G2/M DNA Damage Checkpoint Regulation	2.13	7.41E-03	0.120	-0.82	CCNB2,CDK1,CDKN1A,PKMYT1,PLK1,TOP2A
NAD Signaling Pathway	2.02	9.55E-03	0.069	3.16	CD38,H1-0,H1-5,H2BC10,H2BC17,PARP10,PARP12,PARP14,PARP9,SLC12A8
Salvage Pathways of Pyrimidine Deoxyribonucleotides	2.01	9.77E-03	0.333		APOBEC3A,TK1,TYMP
Cell Cycle Control of Chromosomal Replication	1.92	1.20E-02	0.107	2.45	CDC45,CDC6,CDK1,CDT1,ORC1,TOP2A
Necroptosis Signaling Pathway	1.9	1.26E-02	0.065	3.16	AXL,CASP1,EIF2AK2,IRF9,STAT1,STAT2,TIMM10,TLR3,TNFSF10,ZBP1
Phagosome Formation	1.7	2.00E-02	0.037	3.55	ADGRE3,CCR1,CCR5,CMKLR1,CX3CR1,FCGR3A/FCGR3B,FFAR2,FFAR3,GPR157,IGHA1,IGHG1,IGHG2,IGHG4,IGKC,IGLC2,IGLC3,ITGA7,JCHAIN,KISS1R,MARCO,RRAS,S1PR3,SUCNR1,TLR3,TLR7
Phenylethylamine Degradation I	1.48	3.31E-02	0.500		AOC2,AOC3
Salvage Pathways of Pyrimidine Ribonucleotides	1.43	3.72E-02	0.073	2.65	APOBEC3A,CDK1,CMPK2,EIF2AK2,NEK2,PLK1,TTK

Supplementary Table 8

Significantly differentially expressed genes (adjusted $p \leq 0.05$) identified in DESeq2 with the cell-adjusted model for the variable *BCG: Influenza*

Ensembl gene ID	Gene symbol	baseMean	log2FoldChange	adj. p
ENSG00000160932	LY6E	4292.38	-1.28	7.59E-05
ENSG00000109756	RAPGEF2	2904.17	0.42	2.90E-03
ENSG00000134602	STK26	1539.36	0.37	5.53E-03
ENSG00000151490	PTPRO	276.70	-0.64	5.54E-03
ENSG00000140526	ABHD2	4844.66	0.38	6.70E-03
ENSG00000197965	MPZL1	705.07	0.69	6.70E-03
ENSG00000141664	ZCCHC2	4219.23	-0.56	6.70E-03
ENSG00000233030		98.27	-1.09	6.70E-03
ENSG00000280270		15.70	-1.33	6.70E-03
ENSG00000169607	CKAP2L	117.09	-1.09	6.91E-03
ENSG00000133106	EPSTI1	2612.65	-0.90	6.91E-03
ENSG00000183844	FAM3B	18.59	-1.60	1.07E-02
ENSG00000100220	RTCB	1096.23	-0.26	1.31E-02
ENSG00000111331	OAS3	8080.81	-1.24	1.82E-02
ENSG00000108100	CCNY	2522.40	0.22	2.29E-02
ENSG00000124762	CDKN1A	3697.72	-0.70	2.68E-02
ENSG00000174697	LEP	31.78	-1.33	2.68E-02
ENSG00000012171	SEMA3B	82.54	-0.55	2.68E-02
ENSG00000261055		48.89	-0.83	2.68E-02
ENSG00000251127		18.23	-1.29	2.68E-02
ENSG00000226380	NA	2722.72	0.32	3.33E-02
ENSG00000111335	OAS2	4954.94	-0.88	3.33E-02
ENSG00000188313	PLSCR1	4203.92	-0.71	3.33E-02
ENSG00000258922		49.05	-0.71	3.33E-02
ENSG00000084070	SMAP2	8850.54	0.37	3.60E-02
ENSG00000104450	SPAG1	153.12	0.29	3.60E-02
ENSG00000105011	ASF1B	133.00	0.52	3.65E-02
ENSG00000242802	AP5Z1	2899.56	0.28	3.79E-02
ENSG00000099998	GGT5	62.26	1.18	3.79E-02
ENSG00000172936	MYD88	4409.67	-0.36	3.79E-02
ENSG00000130489	NA	133.57	-0.55	3.79E-02
ENSG00000258860		17.79	-1.20	3.79E-02
ENSG00000173825	TIGD3	86.72	0.79	4.20E-02
ENSG00000280228		109.51	-1.27	4.39E-02
ENSG00000199179	MIRLET7I	21.53	-0.69	4.53E-02
ENSG00000180530	NRIP1	2211.31	-0.31	4.53E-02
ENSG00000105705	SUGP1	916.86	0.15	4.53E-02
ENSG00000257878		117.51	-0.87	4.53E-02
ENSG00000166411	IDH3A	782.51	-0.20	4.62E-02

Supplementary Table 9

Significantly differentially expressed genes (adjusted $p \leq 0.05$) identified in DESeq2 with the cell-adjusted model for the variable *BCG*.

Ensembl gene ID	Gene symbol	baseMean	log2FoldChange	adj. p
ENSG00000113302	IL12B	289.93	7.77	3.20E-10
ENSG00000171517	LPAR3	31.28	-5.60	2.78E-09
ENSG00000125810	CD93	5322.12	-3.30	6.84E-09
ENSG00000198363	ASPH	1802.78	-2.72	8.30E-09
ENSG00000106089	STX1A	216.98	-3.56	9.13E-09
ENSG00000170873	MTSS1	2210.51	-1.68	2.33E-08
ENSG00000255491		50.12	-9.05	2.85E-08
ENSG00000116285	ERRFI1	104.61	-3.42	4.03E-08
ENSG00000213694	S1PR3	191.87	-4.16	4.03E-08
ENSG00000178726	THBD	1376.91	-4.41	4.03E-08
ENSG00000122591	FAM126A	1180.18	-1.41	4.24E-08
ENSG00000169902	TPST1	272.92	-2.68	5.36E-08
ENSG00000124875	CXCL6	299.59	-8.19	6.68E-08
ENSG00000173083	HPSE	1291.00	-4.37	6.68E-08
ENSG00000156711	MAPK13	3560.01	-2.53	6.68E-08
ENSG00000072694	FCGR2B	458.74	1.91	1.03E-07
ENSG00000006327	TNFRSF12A	183.33	-2.95	1.27E-07
ENSG00000180875	GREM2	38.62	3.19	1.92E-07
ENSG00000084731	KIF3C	229.64	-2.85	1.92E-07
ENSG00000186407	CD300E	3177.05	-4.62	1.92E-07
ENSG00000177272	KCNA3	2109.04	0.92	2.15E-07
ENSG00000233746	LINC00656	42.26	-4.24	2.31E-07
ENSG00000186354	NA	82.71	-3.94	3.04E-07
ENSG00000185477	GPRIN3	4381.74	1.60	4.59E-07
ENSG00000197140	ADAM32	26.66	-2.99	4.59E-07
ENSG00000176659	LINC02910	76.95	-3.16	4.59E-07
ENSG00000107249	GLIS3	161.59	-2.56	5.22E-07
ENSG00000197747	S100A10	1934.44	-1.77	5.45E-07
ENSG00000175066	GK5	1310.21	-1.08	5.79E-07
ENSG00000196460	RFX8	29.98	-4.07	6.01E-07
ENSG00000117020	AKT3	2502.78	-0.76	6.56E-07
ENSG00000033867	SLC4A7	2706.02	-2.27	6.56E-07
ENSG00000169372	CRADD	417.02	-1.71	6.56E-07
ENSG00000249992	TMEM158	105.99	-5.66	6.74E-07
ENSG00000124882	EREG	2413.13	-5.25	7.21E-07
ENSG00000235750	KIAA0040	1771.04	1.51	7.88E-07
ENSG00000133056	PIK3C2B	1157.00	1.24	1.33E-06
ENSG00000187957	DNER	32.78	-5.50	1.51E-06
ENSG00000153823	PID1	1673.12	-4.08	1.92E-06
ENSG00000235944	ZNF815P	757.66	-1.38	2.12E-06
ENSG00000153208	MERTK	773.55	-5.44	2.38E-06
ENSG00000175556	LONRF3	687.07	-1.47	2.75E-06
ENSG00000113758	DBN1	506.86	-1.92	3.03E-06
ENSG00000251179	TMEM92-AS1	71.24	-6.17	3.03E-06
ENSG00000104805	NUCB1	2647.51	1.36	3.15E-06

ENSG00000119681	LTBP2	213.24	-2.80	3.44E-06
ENSG00000071575	TRIB2	1986.27	1.90	3.63E-06
ENSG00000115594	IL1R1	1486.31	-3.99	3.63E-06
ENSG00000115598	IL1RL2	61.66	-6.76	3.69E-06
ENSG00000196498	NCOR2	6173.75	-1.54	3.73E-06
ENSG00000147883	CDKN2B	140.40	-5.18	3.74E-06
ENSG00000156011	PSD3	357.84	-4.02	3.78E-06
ENSG00000106100	NOD1	836.68	0.82	3.84E-06
ENSG00000051128	HOMER3	267.86	-3.17	3.84E-06
ENSG00000188404	SELL	13774.66	1.59	4.28E-06
ENSG00000163739	CXCL1	6077.39	-4.81	4.28E-06
ENSG00000122012	SV2C	64.40	-4.64	4.72E-06
ENSG00000106366	SERPINE1	187.52	-5.35	5.17E-06
ENSG00000178209	PLEC	14183.94	-1.61	5.17E-06
ENSG00000148516	ZEB1	2518.21	-0.83	5.17E-06
ENSG00000163491	NEK10	95.09	-4.38	5.57E-06
ENSG00000271361	HTATSF1P2	167.11	-2.14	5.60E-06
ENSG00000198142	SOWAHC	288.39	-3.23	5.92E-06
ENSG00000104549	SQLE	558.21	-4.01	5.92E-06
ENSG00000140455	USP3	4957.49	-0.77	6.44E-06
ENSG00000100612	DHRS7	1454.08	-1.18	6.47E-06
ENSG00000091436	MAP3K20	906.26	-2.95	6.61E-06
ENSG00000237943	PRKCQ-AS1	1391.38	1.06	7.26E-06
ENSG00000088899	LZTS3	279.79	-1.59	7.57E-06
ENSG00000032742	IFT88	456.34	-0.70	8.80E-06
ENSG00000249806		78.88	2.01	9.24E-06
ENSG00000158201	ABHD3	1355.78	1.12	9.24E-06
ENSG00000213420	GPC2	250.72	-2.01	1.06E-05
ENSG00000172927	MYEOV	46.26	-4.60	1.06E-05
ENSG00000155287	SLC25A28	1141.28	1.31	1.06E-05
ENSG00000141576	RNF157	949.59	2.12	1.06E-05
ENSG00000005059	MCUB	1494.91	-0.67	1.09E-05
ENSG00000156127	BATF	518.82	1.54	1.14E-05
ENSG00000152242	C18orf25	2102.48	0.95	1.14E-05
ENSG00000186522	SEPTIN10	179.99	-2.15	1.17E-05
ENSG00000068024	HDAC4	4006.48	1.02	1.30E-05
ENSG00000132274	TRIM22	10182.40	2.02	1.30E-05
ENSG00000104613	INTS10	1571.22	0.64	1.32E-05
ENSG00000064932	SBNO2	7920.62	1.21	1.34E-05
ENSG00000213373	LINC00671	28.19	-4.72	1.39E-05
ENSG00000091409	ITGA6	1920.67	2.32	1.51E-05
ENSG00000058799	YIPF1	466.64	1.18	1.54E-05
ENSG00000089195	TRMT6	424.23	-1.79	1.55E-05
ENSG00000183019	MCEMP1	1324.91	-4.03	1.58E-05
ENSG00000134744	TUT4	3807.30	-0.91	1.69E-05
ENSG00000172159	FRMD3	187.72	2.41	1.69E-05
ENSG00000099250	NRP1	735.20	-4.01	1.69E-05
ENSG00000205426	KRT81	20.47	-4.64	1.69E-05
ENSG00000161638	ITGA5	5622.53	-1.94	1.69E-05
ENSG00000135678	CPM	641.89	1.96	1.69E-05

ENSG00000110880	CORO1C	2745.93	-1.56	1.69E-05
ENSG00000198964	SGMS1	1374.60	-0.62	1.75E-05
ENSG00000065054	SLC9A3R2	43.31	-1.69	1.75E-05
ENSG00000105223	PLD3	1628.54	1.84	1.75E-05
ENSG00000085511	MAP3K4	1587.16	-0.64	1.85E-05
ENSG00000102760	RGCC	1254.22	-2.01	1.85E-05
ENSG00000062822	POLD1	572.26	0.91	1.85E-05
ENSG00000222041	CYTOR	658.44	-1.25	1.85E-05
ENSG00000240184	PCDHGC3	22.13	-3.16	1.85E-05
ENSG00000108239	TBC1D12	300.17	-1.26	1.85E-05
ENSG00000119537	KDSR	808.51	1.08	1.86E-05
ENSG00000182179	UBA7	2717.69	1.19	1.98E-05
ENSG00000175352	NRIP3	452.40	-4.15	1.98E-05
ENSG00000124299	PEPD	834.62	1.13	2.02E-05
ENSG00000169660	HEXD	1170.66	1.05	2.06E-05
ENSG00000177469	CAVIN1	46.88	-6.04	2.09E-05
ENSG00000166532	RIMKLB	528.05	-0.85	2.13E-05
ENSG00000198805	PNP	1793.16	-2.32	2.13E-05
ENSG00000133943	DGLUCY	2902.11	1.00	2.13E-05
ENSG00000169255	B3GALNT1	60.09	-3.04	2.20E-05
ENSG00000102096	PIM2	6117.73	1.43	2.20E-05
ENSG00000136960	ENPP2	60.48	2.17	2.20E-05
ENSG00000117335	CD46	6101.25	1.09	2.21E-05
ENSG00000118200	CAMSAP2	522.05	-3.22	2.24E-05
ENSG00000163785	RYK	1188.96	-0.46	2.25E-05
ENSG00000147872	PLIN2	4932.47	-3.48	2.36E-05
ENSG00000178234	GALNT11	964.90	-0.72	2.47E-05
ENSG00000170442	KRT86	46.05	-5.25	2.51E-05
ENSG00000181896	ZNF101	3168.17	1.06	2.55E-05
ENSG00000197442	MAP3K5	2533.72	1.52	2.79E-05
ENSG00000148680	HTR7	63.45	-3.10	2.79E-05
ENSG00000163734	CXCL3	4851.84	-6.02	2.94E-05
ENSG00000261618	LINC02605	78.91	3.06	2.94E-05
ENSG00000050438	SLC4A8	317.81	-1.19	3.07E-05
ENSG00000182287	AP1S2	2533.49	-1.55	3.30E-05
ENSG00000010319	SEMA3G	19.58	4.03	3.31E-05
ENSG00000150093	ITGB1	7245.51	-1.06	3.31E-05
ENSG00000100422	CERK	5421.63	-0.97	3.31E-05
ENSG00000181577	C6orf223	113.99	-6.36	3.37E-05
ENSG00000163600	ICOS	686.92	1.15	3.37E-05
ENSG00000042493	CAPG	2126.36	-1.53	3.51E-05
ENSG00000163697	APBB2	85.33	-2.67	3.51E-05
ENSG00000167553	TUBA1C	1253.59	-2.12	3.51E-05
ENSG00000134905	CARS2	1949.90	1.11	3.51E-05
ENSG00000099860	GADD45B	5099.14	1.48	3.51E-05
ENSG00000136830	NIBAN2	1815.01	-3.09	3.63E-05
ENSG00000177082	WDR73	938.80	-0.64	3.64E-05
ENSG00000231123	SPATA20P1	10.73	-7.11	3.67E-05
ENSG00000115687	PASK	2970.66	-1.28	3.80E-05
ENSG00000167291	TBC1D16	273.55	-1.83	4.01E-05

ENSG00000131943	C19orf12	670.04	0.74	4.03E-05
ENSG00000132514	CLEC10A	276.11	3.84	4.09E-05
ENSG00000253006	RN7SKP283	49.49	-4.59	4.12E-05
ENSG00000140368	PSTPIP1	2999.48	-0.87	4.12E-05
ENSG00000167850	CD300C	395.28	-2.15	4.17E-05
ENSG00000113504	SLC12A7	1681.88	0.98	4.49E-05
ENSG00000054282	SDCCAG8	990.94	-1.23	4.56E-05
ENSG00000166707	ZCCHC18	149.75	-1.90	4.66E-05
ENSG00000141655	TNFRSF11A	281.81	-5.31	4.86E-05
ENSG00000044446	PHKA2	1610.88	0.83	4.96E-05
ENSG00000215267	AKR1C7P	66.58	-2.17	5.08E-05
ENSG00000143702	CEP170	3703.28	-2.54	5.24E-05
ENSG00000248208	WDR45P1	27.87	-3.85	5.24E-05
ENSG00000060982	BCAT1	1773.63	-3.89	5.24E-05
ENSG00000142227	EMP3	2518.29	-1.39	5.24E-05
ENSG00000183347	GBP6	50.67	3.93	5.41E-05
ENSG00000013364	MVP	4775.60	1.11	5.41E-05
ENSG00000140968	IRF8	2287.27	1.60	5.51E-05
ENSG00000213722	DDAH2	830.36	-1.45	5.55E-05
ENSG00000154447	SH3RF1	134.51	-2.26	5.81E-05
ENSG00000138413	IDH1	810.31	1.44	5.85E-05
ENSG00000108854	SMURF2	1494.70	-1.30	5.85E-05
ENSG00000133027	PEMT	140.64	1.40	5.86E-05
ENSG00000101298	SNPH	562.58	-1.10	5.86E-05
ENSG00000172493	AFF1	4977.18	0.93	6.05E-05
ENSG00000196396	PTPN1	3897.45	0.85	6.22E-05
ENSG00000262061	RPH3AL-AS1	13.96	-5.25	6.32E-05
ENSG00000100350	FOXRED2	75.54	1.74	6.48E-05
ENSG00000266274	RN7SL138P	36.27	-3.88	6.66E-05
ENSG00000166825	ANPEP	6020.00	-2.33	7.13E-05
ENSG00000070759	TESK2	433.39	0.87	7.27E-05
ENSG00000157827	FMNL2	340.62	-2.76	7.27E-05
ENSG00000167378	IRGQ	1493.69	-1.39	7.30E-05
ENSG00000104689	TNFRSF10A	779.04	-0.68	7.36E-05
ENSG00000227051	C14orf132	321.55	-2.39	7.39E-05
ENSG00000145555	MYO10	132.81	-3.98	7.59E-05
ENSG00000026103	FAS	1713.39	1.54	7.59E-05
ENSG00000136156	ITM2B	16903.28	1.02	7.85E-05
ENSG00000127418	FGFRL1	488.46	-1.06	7.95E-05
ENSG00000019582	CD74	23666.05	0.92	8.00E-05
ENSG00000162645	GBP2	7809.00	1.78	8.16E-05
ENSG00000136160	EDNRB	112.12	-5.81	8.16E-05
ENSG00000213719	CLIC1	8555.25	-1.46	8.16E-05
ENSG00000176749	CDK5R1	716.79	-1.55	8.17E-05
ENSG00000135723	FHOD1	1822.71	-2.34	8.21E-05
ENSG00000168615	ADAM9	1784.83	-2.27	8.41E-05
ENSG00000168297	PXK	1446.23	-1.18	8.42E-05
ENSG00000092036	HAUS4	304.21	1.15	8.44E-05
ENSG00000148459	PDSS1	257.87	1.26	8.47E-05
ENSG00000163827	LRRC2	52.83	-3.43	8.68E-05

ENSG00000181192	DHTKD1	794.84	0.86	8.86E-05
ENSG00000151692	RNF144A	1035.90	1.80	8.89E-05
ENSG00000038427	VCAN	10596.38	-2.94	8.89E-05
ENSG00000197712	FAM114A1	87.26	-2.46	8.95E-05
ENSG00000101347	SAMHD1	7288.34	1.12	9.80E-05
ENSG00000164023	SGMS2	280.34	-1.80	9.87E-05
ENSG00000250771		539.29	-4.26	9.87E-05
ENSG00000236453		36.56	-6.31	9.92E-05
ENSG00000073712	FERMT2	69.39	-3.84	9.92E-05
ENSG00000165655	ZNF503	131.21	-3.34	1.06E-04
ENSG00000177575	CD163	3793.60	-4.88	1.07E-04
ENSG00000159640	ACE	118.94	1.67	1.08E-04
ENSG00000137094	DNAJB5	362.90	-3.18	1.08E-04
ENSG00000111674	ENO2	831.20	-0.71	1.09E-04
ENSG00000186174	BCL9L	6365.21	-1.14	1.10E-04
ENSG00000183386	FHL3	855.03	-2.72	1.10E-04
ENSG00000162976	SLC66A3	465.26	1.25	1.11E-04
ENSG00000215475	SIAH3	203.16	-4.66	1.12E-04
ENSG00000187676	B3GLCT	287.32	-0.85	1.18E-04
ENSG00000003436	TFPI	208.35	-2.25	1.18E-04
ENSG00000142303	ADAMTS10	1186.08	-1.15	1.19E-04
ENSG00000132669	RIN2	1328.64	2.09	1.19E-04
ENSG00000010810	FYN	11439.83	-1.01	1.23E-04
ENSG00000089057	SLC23A2	1906.04	0.86	1.23E-04
ENSG00000154309	DISP1	159.01	-1.52	1.25E-04
ENSG00000172594	SMPDL3A	363.73	2.35	1.25E-04
ENSG00000184216	IRAK1	3922.32	-1.41	1.25E-04
ENSG00000238113	LINC01410	205.45	1.94	1.25E-04
ENSG00000198561	CTNND1	1096.60	-1.84	1.25E-04
ENSG00000139289	PHLDA1	3056.74	-4.55	1.25E-04
ENSG00000129538	RNASE1	649.15	-6.98	1.25E-04
ENSG00000135503	ACVR1B	935.40	-1.45	1.27E-04
ENSG00000130787	HIP1R	2384.67	-0.82	1.31E-04
ENSG00000258976		18.18	-3.70	1.31E-04
ENSG00000197208	SLC22A4	764.81	-1.41	1.35E-04
ENSG00000153989	NUS1	1767.96	-1.05	1.37E-04
ENSG00000235834		16.51	4.81	1.39E-04
ENSG00000014257	ACP3	175.71	2.81	1.39E-04
ENSG00000254732		15.15	-3.04	1.48E-04
ENSG00000109452	INPP4B	1732.62	2.26	1.51E-04
ENSG00000162636	FAM102B	1024.71	-1.18	1.51E-04
ENSG00000130956	HABP4	453.69	-0.80	1.51E-04
ENSG00000168575	SLC20A2	875.80	-0.79	1.52E-04
ENSG00000273812	LINC02970	53.11	-3.48	1.53E-04
ENSG00000246526	LINC02481	249.77	-1.17	1.53E-04
ENSG00000163395	IGFN1	106.53	-6.17	1.60E-04
ENSG00000184675	AMER1	356.31	0.88	1.60E-04
ENSG00000221946	FXYP7	140.86	-1.59	1.64E-04
ENSG00000168405	CMAHP	807.57	0.79	1.66E-04
ENSG00000168758	SEMA4C	1141.53	-1.25	1.67E-04

ENSG00000125351	UPF3B	388.19	-0.88	1.70E-04
ENSG0000010219	DYRK4	179.35	1.07	1.71E-04
ENSG00000270069	MIR222HG	552.57	-2.60	1.73E-04
ENSG00000110057	UNC93B1	1979.85	1.42	1.73E-04
ENSG00000161647	MPP3	13.16	-2.94	1.73E-04
ENSG00000101188	NTSR1	76.39	-3.75	1.73E-04
ENSG00000267128	RNF157-AS1	142.45	-2.80	1.76E-04
ENSG00000071859	FAM50A	959.64	-0.98	1.76E-04
ENSG00000186318	BACE1	62.19	3.18	1.82E-04
ENSG00000140511	HAPLN3	1991.84	1.35	1.86E-04
ENSG00000226149		31.94	-3.50	1.91E-04
ENSG00000106070	GRB10	254.93	-1.29	1.92E-04
ENSG00000105612	DNASE2	732.44	1.15	1.93E-04
ENSG00000138678	GPAT3	616.20	-2.48	1.94E-04
ENSG00000245261		164.71	-1.33	1.94E-04
ENSG00000197448	GSTK1	2814.85	1.47	1.94E-04
ENSG00000146192	FGD2	1219.02	1.70	2.01E-04
ENSG00000259704		24.29	3.16	2.01E-04
ENSG00000146376	ARHGAP18	1081.77	-2.75	2.07E-04
ENSG00000167987	VPS37C	1084.89	-2.03	2.07E-04
ENSG00000143256	PFDN2	267.58	-1.25	2.10E-04
ENSG00000196878	LAMB3	1661.28	-3.60	2.12E-04
ENSG00000151247	EIF4E	1254.23	-0.94	2.16E-04
ENSG00000196923	PDLIM7	2622.86	-2.09	2.16E-04
ENSG00000111145	ELK3	1578.86	-1.00	2.16E-04
ENSG00000159228	CBR1	253.20	1.34	2.18E-04
ENSG00000168899	VAMP5	495.67	1.75	2.21E-04
ENSG00000169251	NMD3	1114.68	-0.82	2.21E-04
ENSG00000133657	ATP13A3	10509.76	-2.42	2.21E-04
ENSG00000008283	CYB561	543.48	1.04	2.24E-04
ENSG00000121579	NAA50	3164.95	-1.23	2.24E-04
ENSG00000183431	SF3A3	1593.12	-0.91	2.27E-04
ENSG00000091157	WDR7	1704.77	0.46	2.27E-04
ENSG00000127419	TMEM175	627.84	1.27	2.28E-04
ENSG00000108679	LGALS3BP	551.91	1.82	2.36E-04
ENSG00000006283	CACNA1G	18.11	-5.33	2.38E-04
ENSG00000280433		162.13	-0.84	2.38E-04
ENSG00000145247	OCIAD2	827.52	-1.43	2.38E-04
ENSG00000047579	DTNBP1	857.27	0.90	2.38E-04
ENSG00000165434	PGM2L1	622.84	-1.28	2.38E-04
ENSG00000140470	ADAMTS17	194.04	2.03	2.38E-04
ENSG00000023892	DEF6	4261.75	-0.61	2.39E-04
ENSG00000156795	NTAQ1	130.34	1.26	2.39E-04
ENSG00000278730		1175.61	-0.60	2.44E-04
ENSG00000121858	TNFSF10	2342.61	2.30	2.44E-04
ENSG00000196664	TLR7	208.89	2.26	2.50E-04
ENSG00000105221	AKT2	4257.34	0.47	2.50E-04
ENSG00000070731	ST6GALNAC2	244.28	1.60	2.51E-04
ENSG00000085563	ABCB1	1054.40	-1.41	2.55E-04
ENSG00000251441	RTEL1P1	425.32	1.49	2.63E-04

ENSG00000205302	SNX2	1981.14	-0.77	2.65E-04
ENSG00000132170	PPARG	380.21	-6.16	2.66E-04
ENSG00000160932	LY6E	4292.38	2.71	2.67E-04
ENSG00000165474	GJB2	452.51	3.76	2.67E-04
ENSG00000108924	HLF	48.79	1.56	2.67E-04
ENSG00000177426	TGIF1	2043.43	-1.49	2.67E-04
ENSG00000254788	CKLF-CMTM1	97.40	-2.68	2.69E-04
ENSG00000170396	ZNF804A	74.41	-1.64	2.74E-04
ENSG00000073331	ALPK1	3026.59	1.57	2.74E-04
ENSG00000177697	CD151	598.13	-1.45	2.74E-04
ENSG00000128918	ALDH1A2	456.28	-3.73	2.74E-04
ENSG00000139629	GALNT6	788.50	-1.32	2.74E-04
ENSG00000100364	KIAA0930	1780.47	1.27	2.76E-04
ENSG00000177989	ODF3B	1164.72	1.88	2.76E-04
ENSG00000135127	BICDL1	1948.94	-1.50	2.77E-04
ENSG00000184292	TACSTD2	35.75	-4.40	2.81E-04
ENSG00000121807	CCR2	502.05	2.03	2.81E-04
ENSG00000149418	ST14	952.06	-2.03	2.81E-04
ENSG00000200419		15.55	2.31	2.81E-04
ENSG00000048140	TSPAN17	911.55	1.06	2.84E-04
ENSG00000100897	DCAF11	2039.61	0.80	2.84E-04
ENSG00000235304	LINC01281	64.00	-2.70	2.85E-04
ENSG00000152760	DYNLT5	123.97	-5.78	2.86E-04
ENSG00000110002	VWA5A	301.91	1.03	2.86E-04
ENSG00000113263	ITK	8563.16	0.72	2.88E-04
ENSG00000166813	KIF7	20.35	-2.47	2.88E-04
ENSG00000138448	ITGAV	1211.57	-2.37	2.89E-04
ENSG00000138443	ABI2	1026.47	-0.57	2.89E-04
ENSG00000129103	SUMF2	2100.07	0.62	2.91E-04
ENSG00000167566	NCKAP5L	1134.14	-1.38	2.92E-04
ENSG00000169860	P2RY1	175.05	-2.32	2.92E-04
ENSG00000181744	DIPK2A	1173.09	-1.04	2.93E-04
ENSG00000179104	TMTC2	283.14	0.96	2.93E-04
ENSG00000267123	SCAT1	107.49	-1.85	2.94E-04
ENSG00000108010	GLRX3	1079.95	-0.73	3.07E-04
ENSG00000131797	CLUHP3	1564.02	1.24	3.09E-04
ENSG00000217555	CKLF	550.14	-1.69	3.09E-04
ENSG00000269902		98.74	-2.79	3.10E-04
ENSG00000148154	UGCG	1464.48	0.81	3.10E-04
ENSG00000258227	CLEC5A	2868.60	-6.78	3.13E-04
ENSG00000143418	CERS2	2468.57	-0.66	3.13E-04
ENSG00000278909		152.18	-3.28	3.13E-04
ENSG00000102908	NFAT5	6353.34	-1.20	3.14E-04
ENSG00000173166	RAPH1	634.48	-4.46	3.21E-04
ENSG00000144668	ITGA9	93.48	2.62	3.21E-04
ENSG00000198563	DDX39B	6266.15	-0.36	3.21E-04
ENSG00000261150	EPPK1	521.30	-1.39	3.21E-04
ENSG00000172985	SH3RF3	574.88	-1.54	3.25E-04
ENSG00000163961	RNF168	1645.53	-0.46	3.35E-04
ENSG00000100036	SLC35E4	116.56	-1.56	3.35E-04

ENSG00000139946	PELI2	1146.13	1.52	3.35E-04
ENSG00000257704	INAFM1	196.54	1.17	3.35E-04
ENSG00000116663	FBXO6	372.83	1.62	3.37E-04
ENSG00000160214	RRP1	643.02	-1.05	3.42E-04
ENSG00000130035	GALNT8	23.56	1.91	3.47E-04
ENSG00000238121	LINC00426	972.93	-1.29	3.48E-04
ENSG00000134215	VAV3	1808.26	-1.11	3.58E-04
ENSG00000185344	ATP6V0A2	1240.87	0.49	3.61E-04
ENSG00000283445		18.67	-5.41	3.65E-04
ENSG00000229124	VIM-AS1	727.40	-0.76	3.69E-04
ENSG00000104131	EIF3J	1192.32	-1.11	3.72E-04
ENSG00000178927	CYBC1	5750.37	0.76	3.72E-04
ENSG00000168268	NT5DC2	239.69	-2.18	3.75E-04
ENSG00000084070	SMAP2	8850.54	1.12	3.75E-04
ENSG00000102007	PLP2	1117.91	-1.03	3.75E-04
ENSG00000228794	LINC01128	769.90	-1.32	3.77E-04
ENSG00000173372	C1QA	90.41	2.97	3.86E-04
ENSG00000109762	SNX25	749.13	-1.00	3.92E-04
ENSG00000100221	JOSD1	3178.68	-1.13	3.93E-04
ENSG00000262222	NA	117.64	2.10	3.93E-04
ENSG00000135945	REV1	1387.50	-0.43	3.94E-04
ENSG00000222182	RNA5SP156	11.77	-6.80	3.95E-04
ENSG00000167105	TMEM92	16.16	-5.26	3.96E-04
ENSG00000204977	TRIM13	898.73	-0.77	3.98E-04
ENSG00000177464	GPR4	22.60	-6.23	3.98E-04
ENSG00000227076		35.39	-2.66	3.99E-04
ENSG00000224959	NA	83.89	-1.84	4.03E-04
ENSG00000058091	CDK14	993.70	-1.23	4.03E-04
ENSG00000007350	TKTL1	343.56	-3.00	4.03E-04
ENSG00000175518	UBQLNL	20.48	2.57	4.03E-04
ENSG00000010610	CD4	2740.92	0.92	4.03E-04
ENSG00000179776	CDH5	11.54	-7.02	4.03E-04
ENSG00000010404	IDS	4315.70	-0.75	4.04E-04
ENSG00000282780	TRBJ1-6	229.48	-1.62	4.08E-04
ENSG00000130559	CAMSAP1	1322.47	-0.76	4.08E-04
ENSG00000155329	ZCCHC10	509.43	-1.09	4.09E-04
ENSG00000229852	KHDC1-AS1	255.42	-1.66	4.13E-04
ENSG00000251322	SHANK3	15.47	-3.93	4.22E-04
ENSG00000082074	FYB1	15268.50	0.69	4.25E-04
ENSG00000182534	MXRA7	533.94	-1.50	4.25E-04
ENSG00000106952	TNFSF8	2632.87	-2.88	4.35E-04
ENSG00000137218	FRS3	175.49	0.91	4.38E-04
ENSG00000269019	HOMER3-AS1	20.27	-3.90	4.41E-04
ENSG00000135404	CD63	2700.89	-1.34	4.43E-04
ENSG00000107798	LIPA	2105.38	1.41	4.43E-04
ENSG00000108953	YWHAE	3492.29	-1.10	4.46E-04
ENSG00000279164		51.84	-2.62	4.52E-04
ENSG00000139354	GAS2L3	294.06	-3.03	4.60E-04
ENSG00000149636	DSN1	259.89	0.81	4.60E-04
ENSG00000127507	ADGRE2	3707.21	-1.72	4.60E-04

ENSG00000261334		65.43	-2.40	4.63E-04
ENSG00000164626	KCNK5	141.36	-2.52	4.63E-04
ENSG00000110108	TMEM109	959.31	0.71	4.63E-04
ENSG00000258303		34.88	-2.44	4.63E-04
ENSG00000103888	CEMIP	884.31	-5.33	4.64E-04
ENSG00000175274	TP53I11	1142.64	-1.29	4.70E-04
ENSG00000139318	DUSP6	5826.19	-2.36	4.73E-04
ENSG00000113273	ARSB	727.42	1.16	4.77E-04
ENSG00000127951	FGL2	4630.14	1.90	4.77E-04
ENSG00000167984	NLRC3	4356.85	-0.81	4.77E-04
ENSG00000160953	PWWP3A	1161.80	-0.97	4.77E-04
ENSG00000077312	SNRPA	721.43	0.70	4.79E-04
ENSG00000113161	HMGCR	1497.48	-1.24	4.80E-04
ENSG00000109466	KLHL2	1211.13	-0.80	4.84E-04
ENSG00000163191	S100A11	3904.41	-1.65	4.92E-04
ENSG00000100714	MTHFD1	498.48	0.85	4.92E-04
ENSG00000151552	QDPR	272.22	0.87	4.95E-04
ENSG00000094631	HDAC6	979.04	0.67	5.00E-04
ENSG00000116473	RAP1A	3655.69	-0.70	5.00E-04
ENSG00000169398	PTK2	749.86	-1.54	5.00E-04
ENSG00000236345	SCAT8	44.80	-2.73	5.01E-04
ENSG00000161800	RACGAP1	328.52	-1.25	5.01E-04
ENSG00000267702	NA	1049.89	-1.78	5.01E-04
ENSG00000105643	ARRDC2	5883.98	-1.72	5.01E-04
ENSG00000122188	LAX1	711.79	-0.72	5.04E-04
ENSG00000254362		82.46	-1.55	5.04E-04
ENSG00000233056	ERVH48-1	22.24	-3.89	5.04E-04
ENSG00000147118	ZNF182	354.92	-0.77	5.15E-04
ENSG00000038945	MSR1	2581.69	-5.08	5.15E-04
ENSG00000108091	CCDC6	1119.73	0.72	5.15E-04
ENSG00000107819	SFXN3	1283.51	-0.72	5.15E-04
ENSG00000158023	CFAP251	42.37	-1.68	5.17E-04
ENSG00000204257	HLA-DMA	1328.86	1.06	5.18E-04
ENSG00000154122	ANKH	2501.53	-1.04	5.19E-04
ENSG00000140859	KIFC3	1329.70	-2.84	5.24E-04
ENSG00000107890	ANKRD26	938.37	-1.05	5.29E-04
ENSG00000006459	KDM7A	5269.88	-0.83	5.29E-04
ENSG00000136891	TEX10	796.12	-0.66	5.37E-04
ENSG00000237499	WAKMAR2	921.48	-1.53	5.42E-04
ENSG00000175505	CLCF1	319.76	-1.26	5.45E-04
ENSG00000169379	ARL13B	221.99	-0.97	5.46E-04
ENSG00000102265	TIMP1	4530.37	-3.32	5.55E-04
ENSG00000139631	CSAD	941.37	1.18	5.55E-04
ENSG00000188811	NHLRC3	713.64	0.69	5.55E-04
ENSG00000188522	FAM83G	534.38	-1.47	5.55E-04
ENSG00000177301	KCNA2	64.16	2.10	5.56E-04
ENSG00000141510	TP53	1301.73	0.62	5.61E-04
ENSG00000100985	MMP9	2943.62	-4.03	5.66E-04
ENSG00000066923	STAG3	163.64	-1.72	5.71E-04
ENSG00000008517	IL32	2285.28	1.80	5.73E-04

ENSG00000222898	RN7SKP97	15.02	-2.62	5.73E-04
ENSG00000023734	STRAP	1455.40	-0.55	5.73E-04
ENSG00000107614	TRDMT1	712.16	-0.68	5.73E-04
ENSG00000177675	CD163L1	87.60	-4.68	5.73E-04
ENSG00000142405	NLRP12	1233.87	-2.01	5.74E-04
ENSG00000102181	CD99L2	582.25	0.96	5.86E-04
ENSG00000184060	ADAP2	1129.14	-2.77	5.95E-04
ENSG00000134864	GGACT	120.95	1.21	5.97E-04
ENSG00000070413	DGCR2	3302.23	0.76	6.02E-04
ENSG00000117500	TMED5	3240.35	-0.97	6.03E-04
ENSG00000112378	PERP	128.35	-1.42	6.03E-04
ENSG00000282173	TRBJ1-5	201.16	-1.53	6.03E-04
ENSG00000274737		106.55	-1.37	6.07E-04
ENSG00000078269	SYNJ2	1351.95	-1.22	6.08E-04
ENSG00000198785	GRIN3A	11.73	4.39	6.08E-04
ENSG00000124225	PMEPA1	1101.58	-3.70	6.15E-04
ENSG00000114812	VIPR1	1067.82	-1.30	6.18E-04
ENSG00000163605	PPP4R2	2678.00	-0.71	6.18E-04
ENSG00000135124	P2RX4	2698.54	-1.57	6.18E-04
ENSG00000167191	GPRC5B	7.92	5.42	6.18E-04
ENSG00000131467	PSME3	1969.98	-0.86	6.23E-04
ENSG00000164684	ZNF704	122.24	-3.72	6.23E-04
ENSG00000171208	NETO2	338.23	-3.02	6.23E-04
ENSG00000104518	GSDMD	2603.48	0.92	6.31E-04
ENSG00000087258	GNAO1	411.55	-1.94	6.41E-04
ENSG00000171617	ENC1	691.94	-1.85	6.42E-04
ENSG00000188001	TPRG1	561.87	-2.38	6.51E-04
ENSG00000133805	AMPD3	4409.95	-2.11	6.53E-04
ENSG00000271022		66.63	-1.45	6.64E-04
ENSG00000175130	MARCKSL1	2573.86	-3.50	6.72E-04
ENSG00000134375	TIMM17A	709.81	-0.90	6.72E-04
ENSG00000269743	SLC25A53	608.67	-1.44	6.77E-04
ENSG00000151689	INPP1	327.58	-1.77	6.80E-04
ENSG00000106537	TSPAN13	211.46	1.52	6.81E-04
ENSG00000196126	HLA-DRB1	4452.88	0.92	6.83E-04
ENSG00000189050	RNFT1	526.26	-1.10	6.83E-04
ENSG00000155659	VSIG4	341.55	-4.93	6.93E-04
ENSG00000137834	SMAD6	109.61	-2.80	6.93E-04
ENSG00000268947		81.32	-1.43	6.93E-04
ENSG00000262001	DLGAP1-AS2	442.69	-1.37	6.96E-04
ENSG00000155906	RMND1	292.91	-1.02	6.96E-04
ENSG00000127399	LRRC61	237.35	0.89	6.96E-04
ENSG00000099204	ABLIM1	7409.31	-1.03	7.22E-04
ENSG00000148834	GSTO1	2046.09	-1.52	7.24E-04
ENSG00000011566	MAP4K3	711.73	-1.13	7.24E-04
ENSG00000188725	SMIM15	659.02	-1.09	7.25E-04
ENSG00000134531	EMP1	962.62	-3.75	7.26E-04
ENSG00000224593		10.50	4.27	7.27E-04
ENSG00000132003	ZSWIM4	779.74	-1.91	7.29E-04
ENSG00000145014	TMEM44	67.17	-1.33	7.38E-04

ENSG00000088854	DNAAF9	634.70	-0.72	7.46E-04
ENSG00000170892	TSEN34	997.59	1.52	7.46E-04
ENSG00000096070	BRPF3	2013.92	-1.36	7.46E-04
ENSG00000184557	SOCS3	8120.25	2.76	7.48E-04
ENSG00000151694	ADAM17	3278.52	-1.45	7.50E-04
ENSG00000134460	IL2RA	877.51	1.48	7.57E-04
ENSG00000089094	KDM2B	2810.94	-0.88	7.61E-04
ENSG00000169756	LIMS1	4602.46	-1.44	7.61E-04
ENSG00000281958	TRBJ1-4	106.68	-1.68	7.70E-04
ENSG00000137309	HMGA1	3146.87	-2.06	7.76E-04
ENSG00000078124	ACER3	541.88	-0.90	7.79E-04
ENSG00000118762	PKD2	535.17	-1.10	7.84E-04
ENSG00000177112	IRAG1-AS1	59.67	-2.64	7.87E-04
ENSG00000105726	ATP13A1	1921.31	0.55	7.88E-04
ENSG00000178802	MPI	781.91	0.50	7.93E-04
ENSG00000178773	CPNE7	68.91	-2.99	7.95E-04
ENSG00000171867	PRNP	1689.39	-1.17	7.95E-04
ENSG00000204110	LINC02520	198.79	-1.68	7.95E-04
ENSG00000256862	PARP11-AS1	66.65	-1.56	7.95E-04
ENSG00000105953	OGDH	2662.29	-0.80	8.04E-04
ENSG00000223969		32.15	-1.84	8.11E-04
ENSG00000136630	HLX	730.50	1.79	8.12E-04
ENSG00000281852	LINC00891	23.03	-1.87	8.15E-04
ENSG00000179583	CIITA	3999.68	0.99	8.15E-04
ENSG00000208018	MIR645	82.75	1.59	8.15E-04
ENSG00000162745	OLFML2B	211.57	-4.28	8.23E-04
ENSG00000137343	ATAT1	170.14	-0.86	8.24E-04
ENSG00000257495	KRT73-AS1	122.12	-1.82	8.24E-04
ENSG00000069345	DNAJA2	1773.75	-0.64	8.24E-04
ENSG00000181481	RNF135	797.58	-1.16	8.24E-04
ENSG00000074181	NOTCH3	139.37	-3.08	8.24E-04
ENSG00000160789	LMNA	1043.44	-2.50	8.25E-04
ENSG00000157657	ZNF618	165.80	1.26	8.27E-04
ENSG00000135047	CTSL	6684.84	-4.32	8.29E-04
ENSG00000135722	FBXL8	204.08	1.07	8.31E-04
ENSG00000069956	MAPK6	2025.87	-1.36	8.37E-04
ENSG00000002587	HS3ST1	502.25	-5.04	8.38E-04
ENSG00000164111	ANXA5	5514.39	-1.84	8.38E-04
ENSG00000168610	STAT3	8269.37	0.70	8.42E-04
ENSG00000143851	PTPN7	2530.91	-1.17	8.48E-04
ENSG00000197714	ZNF460	1820.41	0.45	8.58E-04
ENSG00000076248	UNG	257.40	0.72	8.60E-04
ENSG00000117724	CENPF	268.45	-1.64	8.63E-04
ENSG00000133256	PDE6B	178.85	1.05	8.63E-04
ENSG00000128039	SRD5A3	172.44	1.02	8.63E-04
ENSG00000256633	PDE2A-AS2	52.63	-2.37	8.63E-04
ENSG00000129353	SLC44A2	4689.13	0.99	8.63E-04
ENSG00000168675	LDLRAD4	2958.41	-1.55	8.68E-04
ENSG00000237149	ZNF503-AS2	28.30	-4.22	8.74E-04
ENSG00000127946	HIP1	3527.54	-2.38	8.76E-04

ENSG00000135074	ADAM19	2832.10	1.19	8.94E-04
ENSG00000125863	MKKS	558.35	-1.11	8.99E-04
ENSG00000143067	ZNF697	476.22	-2.24	9.12E-04
ENSG00000135424	ITGA7	103.52	-1.72	9.15E-04
ENSG00000175262	C1orf127	7.08	5.53	9.15E-04
ENSG00000197696	NMB	74.38	-1.61	9.23E-04
ENSG00000233355	CHRM3-AS2	371.85	1.86	9.25E-04
ENSG00000175356	SCUBE2	39.84	-1.93	9.31E-04
ENSG00000128881	TTBK2	1398.30	0.58	9.31E-04
ENSG00000122085	MTERF4	3158.90	-0.50	9.43E-04
ENSG00000114030	KPNA1	2229.58	-0.68	9.46E-04
ENSG00000119318	RAD23B	2855.79	-0.52	9.46E-04
ENSG00000262655	SPON1	425.91	-3.13	9.46E-04
ENSG00000151702	FLI1	4183.54	0.68	9.46E-04
ENSG00000060339	CCAR1	1941.67	-0.48	9.46E-04
ENSG00000113580	NR3C1	8232.05	-0.89	9.51E-04
ENSG00000175592	FOSL1	143.80	-2.59	9.55E-04
ENSG00000123342	MMP19	1404.44	-5.56	9.84E-04
ENSG00000140367	UBE2Q2	1117.78	-0.52	9.92E-04
ENSG00000119408	NEK6	1350.30	-1.23	9.97E-04
ENSG00000205220	PSMB10	1064.57	0.91	1.01E-03
ENSG00000174010	KLHL15	596.96	1.43	1.01E-03
ENSG00000129450	SIGLEC9	1352.39	-1.71	1.02E-03
ENSG00000101665	SMAD7	2028.71	-2.33	1.03E-03
ENSG00000246379	GNAO1-DT	11.45	-3.11	1.03E-03
ENSG00000111224	PARP11	1028.12	0.85	1.03E-03
ENSG00000278330		84.78	2.70	1.03E-03
ENSG00000109654	TRIM2	99.89	-1.44	1.05E-03
ENSG00000138835	RGS3	1256.30	-1.02	1.06E-03
ENSG00000079805	DNM2	12277.00	-0.66	1.07E-03
ENSG00000135905	DOCK10	6752.90	-0.80	1.07E-03
ENSG00000136108	CKAP2	534.53	-0.79	1.08E-03
ENSG00000105699	LSR	727.93	-1.02	1.09E-03
ENSG00000280153		329.69	1.20	1.09E-03
ENSG00000266237		23.51	2.17	1.09E-03
ENSG00000137776	SLTM	2516.42	-0.65	1.09E-03
ENSG00000054219	LY75	543.75	0.79	1.10E-03
ENSG00000163362	INAVA	38.58	-3.80	1.10E-03
ENSG00000138741	TRPC3	34.31	-2.50	1.12E-03
ENSG00000125657	TNFSF9	120.05	2.13	1.12E-03
ENSG00000073111	MCM2	306.38	1.07	1.12E-03
ENSG00000141384	TAF4B	914.49	1.00	1.12E-03
ENSG00000254521	SIGLEC12	67.20	-4.06	1.12E-03
ENSG00000136153	LMO7	496.55	-0.79	1.12E-03
ENSG00000102524	TNFSF13B	1409.72	2.00	1.12E-03
ENSG00000143079	CTTNBP2NL	300.23	-2.42	1.12E-03
ENSG00000125633	CCDC93	3772.68	-0.84	1.13E-03
ENSG00000261428	NA	72.03	1.43	1.14E-03
ENSG00000089472	HEPH	18.44	-4.47	1.15E-03
ENSG00000262678	CAMTA2-AS1	16.20	-3.05	1.15E-03

ENSG00000060558	GNA15	1366.86	-1.95	1.15E-03
ENSG00000271780		204.45	1.38	1.15E-03
ENSG00000154016	GRAP	1285.45	-1.07	1.17E-03
ENSG00000280237	NA	187.03	-1.42	1.17E-03
ENSG00000008382	MPND	273.89	1.01	1.17E-03
ENSG00000063761	ADCK1	175.70	0.72	1.19E-03
ENSG00000167106	FAM102A	8760.09	-0.98	1.20E-03
ENSG00000123200	ZC3H13	1872.20	-0.67	1.20E-03
ENSG00000213928	IRF9	982.25	1.13	1.21E-03
ENSG00000163629	PTPN13	226.69	1.08	1.21E-03
ENSG00000111266	DUSP16	4100.40	-1.73	1.22E-03
ENSG00000197782	ZNF780A	1122.52	-1.20	1.22E-03
ENSG00000164687	FABP5	1044.51	-4.38	1.23E-03
ENSG00000187556	NANOS3	18.36	-2.75	1.23E-03
ENSG00000107263	RAPGEF1	12323.54	-1.08	1.23E-03
ENSG00000107130	NCS1	189.48	-4.40	1.23E-03
ENSG00000224950		1048.72	-3.78	1.24E-03
ENSG00000185885	IFITM1	4258.01	1.87	1.25E-03
ENSG00000197635	DPP4	628.27	1.00	1.25E-03
ENSG00000135046	ANXA1	6894.96	-1.12	1.25E-03
ENSG00000072163	LIMS2	155.52	-1.44	1.26E-03
ENSG00000267288		57.08	-2.39	1.26E-03
ENSG00000162804	SNED1	1422.28	-1.14	1.27E-03
ENSG00000138821	SLC39A8	7554.14	-4.55	1.27E-03
ENSG00000175967	LINC02880	21.07	-4.92	1.27E-03
ENSG00000197077	KIAA1671	570.72	-1.81	1.27E-03
ENSG00000171792	RHNO1	389.74	1.11	1.28E-03
ENSG00000108821	COL1A1	34.71	-2.70	1.28E-03
ENSG00000109189	USP46	498.54	-0.61	1.28E-03
ENSG00000154359	LONRF1	1044.54	0.88	1.28E-03
ENSG00000076706	MCAM	37.76	-1.75	1.29E-03
ENSG00000204525	HLA-C	63508.34	0.66	1.30E-03
ENSG00000202019		32.43	3.23	1.30E-03
ENSG00000105483	CARD8	6508.53	-1.15	1.31E-03
ENSG00000251442	LINC01094	208.83	-3.55	1.31E-03
ENSG00000069493	CLEC2D	7489.05	-0.63	1.32E-03
ENSG00000169231	THBS3	502.63	1.00	1.33E-03
ENSG00000226423		78.05	-2.30	1.33E-03
ENSG00000135604	STX11	2206.12	1.15	1.33E-03
ENSG00000248187		18.61	-5.94	1.33E-03
ENSG00000101290	CDS2	3227.25	0.91	1.34E-03
ENSG00000107796	ACTA2	149.50	1.11	1.35E-03
ENSG00000124222	STX16	2973.57	0.58	1.36E-03
ENSG00000135823	STX6	2285.54	-2.35	1.38E-03
ENSG00000166126	AMN	122.13	1.01	1.38E-03
ENSG00000158321	AUTS2	1822.03	-1.90	1.38E-03
ENSG00000225938	S1PR1-DT	136.73	-1.59	1.39E-03
ENSG00000144152	FBLN7	393.25	-1.71	1.39E-03
ENSG00000279355	NA	336.88	-1.38	1.39E-03
ENSG00000272953		46.51	-2.50	1.39E-03

ENSG00000260822	NA	603.78	0.72	1.39E-03
ENSG00000231389	HLA-DPA1	4601.83	0.85	1.41E-03
ENSG00000154451	GBP5	10739.30	2.49	1.41E-03
ENSG00000185811	IKZF1	13631.90	0.61	1.41E-03
ENSG00000243649	CFB	14.18	4.30	1.43E-03
ENSG00000155100	OTUD6B	488.55	-0.67	1.44E-03
ENSG00000234882	EIF3EP1	48.92	-1.48	1.44E-03
ENSG00000008952	SEC62	3427.77	-0.65	1.45E-03
ENSG00000196932	TMEM26	33.62	4.41	1.45E-03
ENSG00000089505	CMTM1	357.67	-2.22	1.45E-03
ENSG00000264456		176.21	-1.76	1.45E-03
ENSG00000143507	DUSP10	1051.85	-1.27	1.46E-03
ENSG00000171298	GAA	1566.48	1.51	1.46E-03
ENSG00000178078	STAP2	17.31	1.95	1.46E-03
ENSG00000214922	HLA-F-AS1	175.56	1.01	1.47E-03
ENSG00000118307	DNAI7	16.23	-1.79	1.47E-03
ENSG00000197879	MYO1C	658.49	-0.89	1.48E-03
ENSG00000198574	SH2D1B	891.64	-1.64	1.48E-03
ENSG00000106003	LFNG	4447.19	-0.98	1.49E-03
ENSG00000015532	XYLT2	728.11	0.56	1.49E-03
ENSG00000249485	RBBP4P1	67.26	-1.66	1.50E-03
ENSG00000196547	MAN2A2	3505.52	0.70	1.50E-03
ENSG00000159860	TCAF2P1	51.20	1.24	1.52E-03
ENSG00000100867	DHRS2	15.13	-4.98	1.53E-03
ENSG00000239732	TLR9	35.64	-2.50	1.54E-03
ENSG00000102796	DHRS12	461.09	1.39	1.54E-03
ENSG00000283709	FAM238C	103.78	-1.98	1.54E-03
ENSG00000130449	ZSWIM6	1889.46	-1.05	1.54E-03
ENSG00000105983	LMBR1	1846.96	-0.39	1.55E-03
ENSG00000178732	GP5	135.49	1.17	1.55E-03
ENSG00000269524		21.67	2.40	1.55E-03
ENSG00000173456	RNF26	419.69	0.77	1.58E-03
ENSG00000120318	ARAP3	1716.11	-1.72	1.60E-03
ENSG00000027697	IFNGR1	5895.01	-1.25	1.60E-03
ENSG00000146476	ARMT1	792.08	-1.64	1.60E-03
ENSG00000109929	SC5D	883.56	-1.66	1.60E-03
ENSG00000182379	NXPH4	79.82	-4.31	1.60E-03
ENSG00000227757		11.54	-2.57	1.60E-03
ENSG00000172965	MIR4435-2HG	762.20	-0.99	1.62E-03
ENSG00000002549	LAP3	2035.23	1.74	1.62E-03
ENSG00000005238	FAM214B	1669.37	-1.08	1.62E-03
ENSG00000196935	SRGAP1	136.58	-2.21	1.62E-03
ENSG00000137502	RAB30	1328.46	-0.70	1.63E-03
ENSG00000221963	APOL6	6651.82	1.48	1.63E-03
ENSG00000104918	RETN	160.67	-2.60	1.64E-03
ENSG00000125538	IL1B	41833.50	-3.84	1.65E-03
ENSG00000107020	PLGRKT	250.16	0.94	1.65E-03
ENSG00000225194	LINC00092	14.78	3.09	1.66E-03
ENSG00000139508	SLC46A3	465.15	0.90	1.66E-03
ENSG00000162542	TMCO4	752.04	0.64	1.67E-03

ENSG00000113555	PCDH12	51.78	-3.98	1.67E-03
ENSG00000133561	GIMAP6	4173.64	0.64	1.68E-03
ENSG00000149932	TMEM219	703.60	0.95	1.70E-03
ENSG00000184232	OAF	257.08	-1.22	1.70E-03
ENSG00000166226	CCT2	2099.15	-1.08	1.70E-03
ENSG00000166670	MMP10	51.40	-5.61	1.70E-03
ENSG00000137877	SPTBN5	392.88	-2.20	1.70E-03
ENSG00000155115	GTF3C6	454.66	-0.94	1.70E-03
ENSG00000110172	CHORDC1	2109.63	-0.85	1.71E-03
ENSG00000170921	TANC2	1861.31	-1.45	1.71E-03
ENSG00000151718	WWC2	395.57	-1.34	1.71E-03
ENSG00000100258	LMF2	1706.91	0.72	1.71E-03
ENSG00000136688	IL36G	99.06	4.23	1.71E-03
ENSG00000238160	LINC02863	283.25	-1.66	1.71E-03
ENSG00000180182	MED14	1774.75	-0.91	1.71E-03
ENSG00000226025		56.45	1.97	1.72E-03
ENSG00000169429	CXCL8	132801.87	-2.41	1.72E-03
ENSG00000140688	RUSF1	1405.05	0.49	1.72E-03
ENSG00000066117	SMARCD1	1402.79	0.36	1.73E-03
ENSG00000104885	DOT1L	3082.36	-1.58	1.73E-03
ENSG00000050165	DKK3	215.70	-2.41	1.73E-03
ENSG00000168010	ATG16L2	8240.80	0.99	1.73E-03
ENSG00000256020		38.39	-2.41	1.73E-03
ENSG00000133789	SWAP70	2041.65	-1.51	1.73E-03
ENSG00000197312	DDI2	2203.94	-0.99	1.73E-03
ENSG00000282420	TRBJ1-2	95.13	-1.55	1.73E-03
ENSG00000280333		15.53	-4.33	1.74E-03
ENSG00000168653	NDUFS5	351.87	-0.83	1.75E-03
ENSG00000129116	PALLD	220.27	1.61	1.75E-03
ENSG00000106771	TMEM245	2235.35	-0.60	1.75E-03
ENSG00000110330	BIRC2	5466.26	-1.36	1.77E-03
ENSG00000163635	ATXN7	4325.23	0.62	1.78E-03
ENSG00000164889	SLC4A2	1585.44	-1.01	1.78E-03
ENSG00000276293	PIP4K2B	1290.65	0.52	1.78E-03
ENSG00000103056	SMPD3	305.06	1.88	1.81E-03
ENSG00000073008	PVR	310.33	-1.46	1.81E-03
ENSG00000160013	PTGIR	347.14	-1.30	1.81E-03
ENSG00000073910	FRY	1943.01	1.44	1.81E-03
ENSG00000156500	PABIR3	294.52	0.58	1.82E-03
ENSG00000081923	ATP8B1	7.21	-4.08	1.82E-03
ENSG00000169554	ZEB2	13385.01	-1.19	1.83E-03
ENSG00000116260	QSOX1	2657.88	-1.19	1.84E-03
ENSG00000171530	TBCA	238.22	-0.79	1.84E-03
ENSG00000137101	CD72	431.52	0.96	1.84E-03
ENSG00000139625	MAP3K12	374.17	0.77	1.84E-03
ENSG00000198743	SLC5A3	3185.66	-1.42	1.84E-03
ENSG00000225107		99.73	-8.18	1.86E-03
ENSG00000230084	ZBTB47-AS1	28.60	-3.07	1.87E-03
ENSG00000110958	PTGES3	3784.71	-0.56	1.87E-03
ENSG00000101082	SLA2	2621.28	-1.49	1.87E-03

ENSG00000172005	MAL	491.92	1.57	1.87E-03
ENSG00000137692	DCUN1D5	335.06	-0.69	1.87E-03
ENSG00000081059	TCF7	11269.37	0.90	1.89E-03
ENSG00000184508	HDDC3	296.95	0.87	1.91E-03
ENSG00000178184	PARD6G	50.05	-2.48	1.91E-03
ENSG00000116584	ARHGEF2	7759.71	-0.95	1.91E-03
ENSG00000272908		204.40	-1.46	1.94E-03
ENSG00000282133	TRBJ1-3	205.88	-1.61	1.94E-03
ENSG00000179163	FUCA1	902.14	2.07	1.94E-03
ENSG00000071626	DAZAP1	4224.40	-0.69	1.94E-03
ENSG00000168792	ABHD15	1023.64	-0.80	1.95E-03
ENSG00000175536	LIPT2	73.89	1.39	1.96E-03
ENSG00000174206	KICS2	367.14	0.58	1.97E-03
ENSG00000108515	ENO3	375.41	-1.06	1.97E-03
ENSG00000146776	ATXN7L1	1492.68	-0.72	1.98E-03
ENSG00000126709	IFI6	4115.00	2.77	2.00E-03
ENSG00000156395	SORCS3	16.21	6.20	2.01E-03
ENSG00000183741	CBX6	4259.82	0.69	2.01E-03
ENSG00000263897	MIR4669	43.90	-2.38	2.01E-03
ENSG00000206190	ATP10A	1564.22	0.64	2.01E-03
ENSG00000132394	EEFSEC	505.08	0.61	2.03E-03
ENSG00000218565		66.12	-2.58	2.03E-03
ENSG00000197405	C5AR1	6921.45	-1.32	2.05E-03
ENSG00000099139	PCSK5	529.72	1.18	2.05E-03
ENSG00000075303	SLC25A40	805.18	-0.92	2.06E-03
ENSG00000104228	TRIM35	795.33	0.48	2.06E-03
ENSG00000197142	ACSL5	3282.46	-1.46	2.08E-03
ENSG00000115415	STAT1	14996.62	1.78	2.09E-03
ENSG00000149639	SOGA1	525.00	-1.20	2.11E-03
ENSG00000086015	MAST2	558.88	-1.04	2.12E-03
ENSG00000120889	TNFRSF10B	1992.70	-1.32	2.13E-03
ENSG00000221890	NPTXR	254.02	-0.98	2.16E-03
ENSG00000138029	HADHB	1629.50	0.49	2.16E-03
ENSG00000137413	TAF8	1327.07	0.54	2.17E-03
ENSG00000115840	SLC25A12	500.14	0.60	2.17E-03
ENSG00000084234	APLP2	8448.26	-1.32	2.17E-03
ENSG00000211455	STK38L	1509.95	-1.76	2.17E-03
ENSG00000261064	LINC02256	57.09	1.52	2.17E-03
ENSG00000253882		211.45	0.90	2.18E-03
ENSG00000137491	SLCO2B1	288.60	-6.08	2.18E-03
ENSG00000255507	UVRAG-DT	33.37	2.16	2.19E-03
ENSG00000152782	PANK1	83.57	-1.23	2.19E-03
ENSG00000257524		174.26	-1.12	2.20E-03
ENSG00000154608	CEP170P1	22.63	-2.50	2.20E-03
ENSG00000102595	UGGT2	204.51	-1.38	2.21E-03
ENSG00000101452	DHX35	423.95	0.44	2.21E-03
ENSG00000228340	MIR646HG	158.53	-1.64	2.21E-03
ENSG00000158623	COPG2	274.44	1.08	2.21E-03
ENSG00000166833	NAV2	187.08	-1.81	2.21E-03
ENSG00000151650	VENTX	172.47	-1.71	2.21E-03

ENSG00000163257	DCAF16	1668.38	0.59	2.22E-03
ENSG00000104894	CD37	4965.39	0.70	2.22E-03
ENSG00000151136	BTBD11	1741.20	-1.25	2.23E-03
ENSG00000174373	RALGAPA1	3410.58	-0.93	2.23E-03
ENSG00000169194	IL13	24.79	3.34	2.24E-03
ENSG00000198001	IRAK4	1764.16	0.44	2.24E-03
ENSG00000102030	NAA10	598.07	-0.66	2.24E-03
ENSG00000211771	TRBJ2-7	99.41	-1.22	2.25E-03
ENSG00000170581	STAT2	6244.89	1.31	2.25E-03
ENSG00000112893	MAN2A1	3248.68	0.45	2.26E-03
ENSG00000105501	SIGLEC5	289.58	-2.80	2.26E-03
ENSG00000131389	SLC6A6	11550.45	-1.07	2.27E-03
ENSG00000184047	DIABLO	431.26	0.93	2.27E-03
ENSG00000170606	HSPA4	2173.96	-0.81	2.29E-03
ENSG00000198369	SPRED2	296.91	-2.55	2.30E-03
ENSG00000013288	MAN2B2	2235.53	0.54	2.32E-03
ENSG00000169180	XPO6	10871.37	0.90	2.32E-03
ENSG00000064490	RFXANK	650.80	0.66	2.32E-03
ENSG00000108604	SMARCD2	1618.94	0.45	2.33E-03
ENSG00000088986	DYNLL1	1160.20	-1.42	2.33E-03
ENSG00000092096	SLC22A17	158.29	-1.27	2.33E-03
ENSG00000131238	PPT1	2997.74	0.94	2.34E-03
ENSG00000086730	LAT2	3687.42	-1.61	2.34E-03
ENSG00000100731	PCNX1	8467.31	-0.69	2.34E-03
ENSG00000141349	G6PC3	338.82	0.75	2.34E-03
ENSG00000160209	PDXK	4971.48	-1.17	2.34E-03
ENSG00000274307	NA	151.44	0.88	2.34E-03
ENSG00000169826	CSGALNACT2	2736.48	-0.67	2.35E-03
ENSG00000252242	RNU7-115P	23.96	1.81	2.35E-03
ENSG00000248632	NA	32.77	-1.63	2.35E-03
ENSG00000215533	LINC00189	45.77	2.02	2.35E-03
ENSG00000255299		73.86	-1.90	2.37E-03
ENSG00000079393	DUSP13	42.29	-2.82	2.37E-03
ENSG00000140307	GTF2A2	623.59	-0.61	2.37E-03
ENSG00000082212	ME2	2858.17	-1.44	2.37E-03
ENSG00000105875	WDR91	1151.43	0.79	2.39E-03
ENSG00000188596	CFAP54	45.89	-1.79	2.40E-03
ENSG00000143479	DYRK3	128.38	-1.66	2.40E-03
ENSG00000163328	GPR155	1709.81	0.96	2.40E-03
ENSG00000174945	AMZ1	163.17	-1.99	2.40E-03
ENSG00000077782	FGFR1	382.93	-0.79	2.40E-03
ENSG00000067955	CBFB	1975.31	-0.63	2.40E-03
ENSG00000167775	CD320	310.00	0.95	2.40E-03
ENSG00000164934	DCAF13	752.12	-0.93	2.41E-03
ENSG00000140854	KATNB1	506.26	0.79	2.42E-03
ENSG00000152684	PELO	371.60	-1.12	2.44E-03
ENSG00000186810	CXCR3	407.73	-1.75	2.44E-03
ENSG00000095794	CREM	2388.19	-1.47	2.44E-03
ENSG00000213859	KCTD11	241.26	-1.17	2.44E-03
ENSG00000198133	TMEM229B	823.25	0.64	2.45E-03

ENSG00000159388	BTG2	14565.12	0.80	2.45E-03
ENSG00000184428	TOP1MT	264.25	0.92	2.45E-03
ENSG00000121380	BCL2L14	34.70	2.74	2.45E-03
ENSG00000232586	KIAA1614-AS1	198.42	-2.49	2.46E-03
ENSG00000181830	SLC35C1	459.92	0.71	2.46E-03
ENSG00000101916	TLR8	1197.26	2.00	2.47E-03
ENSG00000218510	LINC00339	333.11	0.59	2.47E-03
ENSG00000248008	NRAV	42.81	-1.92	2.47E-03
ENSG00000155846	PPARGC1B	367.16	1.73	2.48E-03
ENSG00000049247	UTS2	9.88	2.68	2.50E-03
ENSG00000079277	MKNK1	3270.85	-1.33	2.50E-03
ENSG00000138411	HECW2	107.12	-1.94	2.50E-03
ENSG00000154889	MPPE1	1498.60	0.89	2.50E-03
ENSG00000279764		39.24	-2.55	2.52E-03
ENSG00000197381	ADARB1	1140.40	-0.69	2.52E-03
ENSG00000240350	SOCAR	13.20	-2.58	2.53E-03
ENSG00000259293	LIPC-AS1	79.78	-3.50	2.54E-03
ENSG00000186350	RXRA	5749.55	-1.34	2.55E-03
ENSG00000182173	TSEN54	1122.08	-0.71	2.57E-03
ENSG00000279447		41.32	-2.67	2.58E-03
ENSG00000116641	DOCK7	508.19	-0.99	2.58E-03
ENSG00000226979	LTA	118.08	1.59	2.58E-03
ENSG00000187951		217.61	-0.69	2.58E-03
ENSG00000183340	JRKL	370.15	-0.98	2.58E-03
ENSG00000204934	ATP6V0E2-AS1	258.97	-1.61	2.59E-03
ENSG00000273314		39.71	1.56	2.60E-03
ENSG00000169925	BRD3	1302.95	0.70	2.60E-03
ENSG00000138646	HERC5	2264.45	2.59	2.62E-03
ENSG00000136827	TOR1A	1268.94	-0.87	2.62E-03
ENSG00000125731	SH2D3A	793.61	1.13	2.66E-03
ENSG00000164211	STARD4	876.42	-1.74	2.66E-03
ENSG00000171033	PKIA	304.11	-0.81	2.67E-03
ENSG00000142669	SH3BGRL3	2933.64	-0.98	2.69E-03
ENSG00000100060	MFNG	2978.27	-0.65	2.69E-03
ENSG00000128641	MYO1B	49.04	2.24	2.70E-03
ENSG00000175073	VCPIP1	4045.07	0.52	2.74E-03
ENSG00000130338	TULP4	1844.63	-0.68	2.76E-03
ENSG00000118369	USP35	693.57	-1.37	2.76E-03
ENSG00000064270	ATP2C2	81.02	-3.20	2.77E-03
ENSG00000162378	ZYG11B	987.97	0.78	2.78E-03
ENSG00000029725	RABEP1	2520.96	-0.44	2.78E-03
ENSG00000172554	SNTG2	28.79	2.87	2.79E-03
ENSG00000103495	MAZ	3465.99	-0.46	2.79E-03
ENSG00000141556	TBCD	3999.96	-1.39	2.80E-03
ENSG00000173391	OLR1	3193.82	-5.51	2.82E-03
ENSG00000160803	UBQLN4	908.99	-0.82	2.83E-03
ENSG00000214013	GANC	1006.99	0.54	2.83E-03
ENSG00000279605		22.03	-2.20	2.83E-03
ENSG00000139372	TDG	885.06	-0.60	2.83E-03
ENSG00000213197	NUDCP1	9.48	-3.55	2.88E-03

ENSG00000003400	CASP10	1482.46	0.67	2.88E-03
ENSG00000088827	SIGLEC1	1193.92	3.66	2.88E-03
ENSG00000161040	FBXL13	289.65	-1.48	2.89E-03
ENSG00000164509	IL31RA	30.64	3.98	2.92E-03
ENSG00000149131	SERPING1	412.90	3.60	2.93E-03
ENSG00000130826	DKC1	945.79	-0.85	2.93E-03
ENSG00000110066	KMT5B	1532.90	-0.49	2.93E-03
ENSG00000164938	TP53INP1	2648.90	1.41	2.97E-03
ENSG00000168778	TCTN2	148.35	-0.73	2.98E-03
ENSG00000115170	ACVR1	606.52	-1.03	2.99E-03
ENSG00000169583	CLIC3	446.54	-1.78	3.00E-03
ENSG00000268041	ERFL	145.56	-1.34	3.01E-03
ENSG00000084754	HADHA	2842.94	0.52	3.01E-03
ENSG00000121989	ACVR2A	591.29	-1.39	3.01E-03
ENSG00000173338	KCNK7	89.53	2.09	3.01E-03
ENSG00000114270	COL7A1	64.53	-1.66	3.04E-03
ENSG00000169093	ASMTL	775.35	0.93	3.04E-03
ENSG00000182858	ALG12	735.37	0.59	3.04E-03
ENSG00000084092	NOA1	687.62	0.61	3.05E-03
ENSG00000075884	ARHGAP15	3895.58	0.97	3.05E-03
ENSG00000148175	STOM	2617.64	1.04	3.06E-03
ENSG00000188735	TMEM120B	295.10	1.10	3.07E-03
ENSG00000105639	JAK3	8254.00	0.91	3.08E-03
ENSG00000128342	LIF	543.73	-3.55	3.08E-03
ENSG00000162300	ZFPL1	546.25	0.67	3.11E-03
ENSG00000213593	TMX2	752.03	-1.08	3.11E-03
ENSG00000013725	CD6	7304.92	-0.60	3.11E-03
ENSG00000184220	CMSS1	287.65	-0.85	3.13E-03
ENSG00000160446	ZDHHC12	404.76	1.10	3.18E-03
ENSG00000204536	CCHCR1	369.53	0.61	3.19E-03
ENSG00000116871	MAP7D1	5290.07	-0.72	3.19E-03
ENSG00000137965	IFI44	2605.46	2.90	3.19E-03
ENSG00000250461		78.18	-1.21	3.19E-03
ENSG00000106244	PDAP1	1111.29	-0.53	3.19E-03
ENSG00000165997	ARL5B	2741.71	0.93	3.20E-03
ENSG00000213516	RBMXL1	987.31	0.54	3.22E-03
ENSG00000038219	BOD1L1	7173.52	-0.69	3.22E-03
ENSG00000223865	HLA-DPB1	3624.32	0.70	3.22E-03
ENSG00000054965	FAM168A	1459.84	0.52	3.23E-03
ENSG00000277406	SEC22B4P	147.48	-1.25	3.23E-03
ENSG00000160179	ABCG1	2188.76	-1.44	3.26E-03
ENSG00000133961	NUMB	5950.58	-0.79	3.29E-03
ENSG00000279829		11.16	2.78	3.29E-03
ENSG00000185499	MUC1	14.78	3.15	3.30E-03
ENSG00000085231	AK6	148.69	-1.12	3.31E-03
ENSG00000137497	NUMA1	7306.38	-0.57	3.31E-03
ENSG00000152454	ZNF256	241.54	0.98	3.34E-03
ENSG00000105866	SP4	1423.75	0.69	3.34E-03
ENSG00000133619	KRBA1	419.23	0.52	3.35E-03
ENSG00000123395	ATG101	399.75	-0.90	3.36E-03

ENSG00000173905	GOLIM4	281.23	-0.89	3.36E-03
ENSG00000100311	PDGFB	261.48	-2.08	3.36E-03
ENSG00000177990	DPY19L2	89.45	-1.17	3.37E-03
ENSG00000165006	UBAP1	2362.36	-0.71	3.38E-03
ENSG00000167889	MGAT5B	60.49	-3.00	3.39E-03
ENSG00000280003		42.13	-1.87	3.40E-03
ENSG00000115756	HPCAL1	2483.72	-1.04	3.40E-03
ENSG00000160219	GAB3	1341.61	-0.60	3.40E-03
ENSG00000179841	AKAP5	331.67	-1.88	3.40E-03
ENSG00000026950	BTN3A1	6396.47	0.62	3.42E-03
ENSG00000238005	LNCATV	581.93	-2.77	3.47E-03
ENSG00000242574	HLA-DMB	1126.44	1.43	3.47E-03
ENSG00000120694	HSPH1	2360.62	-2.04	3.52E-03
ENSG00000166401	SERPINB8	992.51	-1.06	3.53E-03
ENSG00000183655	KLHL25	386.30	-1.07	3.53E-03
ENSG00000261040	WFDC21P	53.70	-2.87	3.54E-03
ENSG00000049249	TNFRSF9	557.25	-3.20	3.54E-03
ENSG00000136068	FLNB	2719.16	-1.07	3.54E-03
ENSG00000251661		267.23	0.87	3.55E-03
ENSG00000142910	TINAGL1	96.37	-6.37	3.56E-03
ENSG00000164054	SHISA5	4484.24	0.88	3.56E-03
ENSG00000146535	GNA12	2332.86	-1.22	3.57E-03
ENSG00000171223	JUNB	15986.55	1.03	3.57E-03
ENSG00000283399		161.22	-2.31	3.58E-03
ENSG00000075223	SEMA3C	491.67	-1.53	3.59E-03
ENSG00000047644	WWC3	2288.79	0.54	3.59E-03
ENSG00000234062	TM9SF5P	53.52	-1.33	3.60E-03
ENSG00000111640	GAPDH	12175.83	-0.86	3.62E-03
ENSG00000164535	DAGLB	1161.82	-1.01	3.63E-03
ENSG00000092098	RNF31	1010.32	0.60	3.65E-03
ENSG00000130052	STARD8	459.60	-2.00	3.65E-03
ENSG00000197780	TAF13	441.69	-1.03	3.67E-03
ENSG00000156345	CDK20	120.41	-0.92	3.67E-03
ENSG00000069966	GNB5	1550.89	-0.51	3.67E-03
ENSG00000181885	CLDN7	25.31	2.54	3.67E-03
ENSG00000177337	DLGAP1-AS1	959.69	-0.96	3.67E-03
ENSG00000159189	C1QC	106.51	2.77	3.69E-03
ENSG00000143819	EPHX1	48.55	1.52	3.69E-03
ENSG00000227191	TRGC2	788.26	-0.87	3.69E-03
ENSG00000107960	STN1	543.42	1.06	3.69E-03
ENSG00000161944	ASGR2	81.96	4.02	3.69E-03
ENSG00000085117	CD82	5268.68	-1.48	3.70E-03
ENSG00000139291	TMEM19	471.97	0.55	3.70E-03
ENSG00000163956	LRPAP1	2053.95	0.55	3.70E-03
ENSG00000183444	OR7E38P	226.89	0.63	3.70E-03
ENSG00000279401		8.82	-4.36	3.71E-03
ENSG00000114503	NCBP2	939.03	-0.66	3.71E-03
ENSG00000063601	MTMR1	1249.54	0.86	3.71E-03
ENSG00000109814	UGDH	402.63	-0.61	3.74E-03
ENSG00000154822	PLCL2	2600.75	0.79	3.76E-03

ENSG00000270542		58.49	-1.74	3.76E-03
ENSG00000260261		211.69	-0.92	3.76E-03
ENSG00000224034	LINC02561	35.20	-1.87	3.77E-03
ENSG00000109471	IL2	11.31	3.57	3.77E-03
ENSG00000116406	EDEM3	2270.74	-0.59	3.77E-03
ENSG00000157445	CACNA2D3	18.82	5.52	3.77E-03
ENSG00000164124	TMEM144	72.13	1.94	3.81E-03
ENSG00000124334	IL9R	187.92	-2.63	3.81E-03
ENSG00000133678	TMEM254	193.57	0.61	3.81E-03
ENSG00000211864	TRAJ25	94.58	-1.20	3.81E-03
ENSG00000185338	SOCS1	1111.87	1.32	3.81E-03
ENSG00000170425	ADORA2B	62.34	-2.79	3.81E-03
ENSG00000111817	DSE	5046.71	-2.96	3.81E-03
ENSG00000155097	ATP6V1C1	2467.25	-1.41	3.81E-03
ENSG00000131459	GFPT2	134.46	-1.76	3.82E-03
ENSG00000001630	CYP51A1	82.50	-1.43	3.83E-03
ENSG00000241106	HLA-DOB	174.41	1.28	3.83E-03
ENSG00000107742	SPOCK2	18543.17	-0.74	3.83E-03
ENSG00000183684	ALYREF	581.38	-0.75	3.83E-03
ENSG00000246082	NUDT16L2P	67.63	1.74	3.84E-03
ENSG00000203666	EFCAB2	122.35	1.09	3.85E-03
ENSG00000145428	RNF175	93.68	-0.97	3.87E-03
ENSG00000243155		142.01	-2.09	3.87E-03
ENSG00000111181	SLC6A12	117.04	1.91	3.87E-03
ENSG00000204267	TAP2	1896.43	0.98	3.87E-03
ENSG00000182873	PRKCZ-AS1	28.32	1.61	3.88E-03
ENSG00000270157		271.13	-0.59	3.88E-03
ENSG00000168495	POLR3D	746.37	0.45	3.88E-03
ENSG00000133243	BTBD2	1086.63	0.88	3.88E-03
ENSG00000081041	CXCL2	5069.86	-3.05	3.90E-03
ENSG00000136379	ABHD17C	167.78	-1.38	3.92E-03
ENSG00000106080	FKBP14	147.44	0.78	3.94E-03
ENSG00000138756	BMP2K	2714.95	-1.44	3.94E-03
ENSG00000267121	FMNL1-DT	2570.29	-1.80	3.98E-03
ENSG00000159423	ALDH4A1	58.41	1.46	3.98E-03
ENSG00000244405	ETV5	180.63	-4.13	3.98E-03
ENSG00000119522	DENND1A	1820.63	0.76	3.98E-03
ENSG00000175773	ZBTB44-DT	45.23	-1.16	3.98E-03
ENSG00000258476	LINC02207	78.09	-3.11	3.98E-03
ENSG00000272825		60.75	-2.24	3.99E-03
ENSG00000273306		50.58	1.10	3.99E-03
ENSG00000064687	ABCA7	3955.59	0.94	4.00E-03
ENSG00000213172		17.69	2.40	4.01E-03
ENSG00000163481	RNF25	419.17	-0.79	4.01E-03
ENSG00000170275	CRTAP	1335.54	1.37	4.01E-03
ENSG00000152818	UTRN	9084.36	0.95	4.01E-03
ENSG00000185222	TCEAL9	38.84	-1.91	4.01E-03
ENSG00000048828	FAM120A	4700.60	0.31	4.01E-03
ENSG00000136828	RALGPS1	442.21	0.87	4.01E-03
ENSG00000196611	MMP1	351.94	-4.83	4.01E-03

ENSG00000165506	DNAAF2	231.60	-0.72	4.01E-03
ENSG00000156831	NSMCE2	706.75	-0.62	4.02E-03
ENSG00000105402	NAPA	3205.83	0.94	4.04E-03
ENSG00000116815	CD58	2442.98	-2.03	4.06E-03
ENSG00000169507	SLC38A11	26.83	2.77	4.06E-03
ENSG00000114841	DNAH1	2999.30	0.72	4.06E-03
ENSG00000165685	TMEM52B	46.48	-3.98	4.07E-03
ENSG00000028116	VRK2	1201.60	-0.82	4.08E-03
ENSG00000005187	ACSM3	498.09	-1.57	4.08E-03
ENSG00000106546	AHR	2260.12	-1.02	4.10E-03
ENSG00000257093	DENND11	3550.77	-0.44	4.10E-03
ENSG00000182107	TMEM30B	70.70	1.31	4.10E-03
ENSG00000085719	CPNE3	1441.16	0.71	4.13E-03
ENSG00000137845	ADAM10	6089.08	-0.54	4.13E-03
ENSG00000211688	TRGJP2	64.25	-1.65	4.13E-03
ENSG00000249978	TRGV7	101.89	-1.56	4.13E-03
ENSG00000227200		118.40	-1.60	4.13E-03
ENSG00000226688	ENTPD1-AS1	236.19	0.59	4.14E-03
ENSG00000107554	DNMBP	631.35	-0.79	4.14E-03
ENSG00000171425	ZNF581	347.86	0.94	4.14E-03
ENSG00000115211	EIF2B4	482.69	-0.45	4.14E-03
ENSG00000267882		28.00	-4.02	4.14E-03
ENSG00000088808	PPP1R13B	582.55	-0.63	4.15E-03
ENSG00000197070	ARRDC1	926.98	0.79	4.15E-03
ENSG00000106144	CASP2	1450.45	0.60	4.16E-03
ENSG00000183060	LYSMD4	356.82	0.62	4.16E-03
ENSG00000197019	SERTAD1	619.91	-1.11	4.16E-03
ENSG00000231991	ANXA2P2	16.48	-1.87	4.16E-03
ENSG00000160408	ST6GALNAC6	3880.87	-1.09	4.16E-03
ENSG00000109046	WSB1	7271.96	-1.20	4.16E-03
ENSG00000089127	OAS1	2728.18	2.57	4.16E-03
ENSG00000093072	ADA2	2992.79	1.09	4.18E-03
ENSG00000215012	RTL10	933.28	-0.66	4.18E-03
ENSG00000162545	CAMK2N1	73.09	-1.10	4.19E-03
ENSG00000259717	LINC00677	64.18	1.77	4.20E-03
ENSG00000019144	PHLDB1	281.52	-2.92	4.20E-03
ENSG00000272512		523.53	2.85	4.21E-03
ENSG00000107560	RAB11FIP2	1098.53	0.51	4.21E-03
ENSG00000090659	CD209	77.70	2.46	4.21E-03
ENSG00000090447	TFAP4	452.44	1.27	4.21E-03
ENSG00000026508	CD44	26801.28	-0.93	4.25E-03
ENSG00000140262	TCF12	2144.27	-0.55	4.25E-03
ENSG00000102878	HSF4	84.76	1.37	4.27E-03
ENSG00000107937	GTPBP4	971.79	-0.67	4.30E-03
ENSG00000197272	IL27	22.82	2.87	4.32E-03
ENSG00000278962		198.53	-1.71	4.32E-03
ENSG00000234076	TPRG1-AS1	52.73	-3.51	4.32E-03
ENSG00000038002	AGA	333.85	0.60	4.32E-03
ENSG00000081181	ARG2	43.67	-2.18	4.32E-03
ENSG00000075413	MARK3	4147.79	-0.55	4.32E-03

ENSG00000068079	IFI35	1175.15	1.59	4.32E-03
ENSG00000100053	CRYBB3	30.63	-2.07	4.32E-03
ENSG00000172939	OXSR1	2271.37	-0.85	4.33E-03
ENSG00000132185	FCRLA	188.03	1.13	4.33E-03
ENSG00000230257	NFE4	121.24	-2.25	4.33E-03
ENSG00000133574	GIMAP4	5055.88	0.84	4.33E-03
ENSG00000273002	ARHGEF2-AS2	190.70	-1.90	4.34E-03
ENSG00000166033	HTRA1	66.20	-3.49	4.34E-03
ENSG00000125970	RALY	3721.87	0.55	4.34E-03
ENSG00000100376	FAM118A	2648.06	-1.16	4.37E-03
ENSG00000279861		241.36	1.68	4.38E-03
ENSG00000185436	IFNLR1	328.27	-1.07	4.38E-03
ENSG00000154134	ROBO3	141.16	1.31	4.38E-03
ENSG00000230107		73.54	-3.68	4.39E-03
ENSG00000153975	ZUP1	433.58	-0.73	4.39E-03
ENSG00000128594	LRRC4	708.42	-1.95	4.39E-03
ENSG00000124788	ATXN1	4732.11	-1.09	4.40E-03
ENSG00000125266	EFNB2	16.60	-1.76	4.40E-03
ENSG00000188282	RUFY4	44.22	2.69	4.41E-03
ENSG00000228218	ATF4P3	38.61	1.85	4.41E-03
ENSG00000264911		16.34	1.88	4.41E-03
ENSG00000092445	TYRO3	15.71	-3.50	4.41E-03
ENSG00000225339		56.76	-1.32	4.54E-03
ENSG00000198756	COLGALT2	177.77	-1.43	4.55E-03
ENSG00000163624	CDS1	38.72	-1.95	4.56E-03
ENSG00000279693		57.75	1.79	4.58E-03
ENSG00000203797	DDO	13.74	3.17	4.60E-03
ENSG00000116691	MIIP	683.10	1.05	4.60E-03
ENSG00000110848	CD69	1826.66	1.57	4.62E-03
ENSG00000171791	BCL2	2378.67	1.23	4.62E-03
ENSG00000088970	KIZ	775.72	0.66	4.63E-03
ENSG00000106991	ENG	2139.34	-3.25	4.64E-03
ENSG00000112701	SENP6	3809.70	-0.48	4.64E-03
ENSG00000116809	ZBTB17	1219.86	-0.60	4.64E-03
ENSG00000169245	CXCL10	459.52	-6.40	4.67E-03
ENSG00000110876	SELPLG	3890.10	0.92	4.67E-03
ENSG00000258461		91.38	1.19	4.67E-03
ENSG00000155926	SLA	13524.36	-1.16	4.74E-03
ENSG00000157933	SKI	3976.30	-1.20	4.77E-03
ENSG00000232021	LEF1-AS1	282.18	0.77	4.77E-03
ENSG00000178338	ZNF354B	476.50	-0.69	4.77E-03
ENSG00000157927	RADIL	28.87	-3.80	4.77E-03
ENSG00000241975	ELOCP19	84.90	1.52	4.78E-03
ENSG00000108950	FAM20A	163.23	2.14	4.78E-03
ENSG00000105939	ZC3HAV1	6746.36	0.70	4.78E-03
ENSG00000084733	RAB10	4376.70	-1.01	4.79E-03
ENSG00000114439	BBX	3014.92	0.44	4.79E-03
ENSG00000260236	PTPN23-DT	77.37	-1.22	4.80E-03
ENSG00000113319	RASGRF2	1101.68	0.99	4.80E-03
ENSG00000135362	PRR5L	3262.94	-1.99	4.80E-03

ENSG00000108479	GALK1	287.27	1.23	4.80E-03
ENSG00000101146	RAE1	843.23	-0.40	4.80E-03
ENSG00000170365	SMAD1	59.95	1.42	4.80E-03
ENSG00000152503	TRIM36	132.06	-2.18	4.81E-03
ENSG0000010704	HFE	76.67	2.21	4.84E-03
ENSG00000169490	TM2D2	567.26	-0.79	4.84E-03
ENSG00000166979	EVA1C	280.23	0.78	4.85E-03
ENSG00000226822	LINC02785	63.54	-1.70	4.86E-03
ENSG00000260198		47.80	-2.51	4.87E-03
ENSG00000180263	FGD6	217.09	1.43	4.88E-03
ENSG00000188868	ZNF563	178.89	-0.90	4.91E-03
ENSG00000083838	ZNF446	300.19	0.72	4.92E-03
ENSG00000245958	SEPTIN7P14	888.88	0.79	4.98E-03
ENSG00000242258	LINC00996	146.10	-2.08	4.98E-03
ENSG00000065361	ERBB3	28.12	-2.19	4.98E-03
ENSG00000279175		186.94	-1.34	4.98E-03
ENSG00000233154	LINC01762	296.92	-3.31	5.00E-03
ENSG00000067992	PKD3	575.80	0.62	5.00E-03
ENSG00000057704	TMCC3	1656.38	-1.04	5.01E-03
ENSG00000163611	SPICE1	809.11	-0.79	5.05E-03
ENSG00000124608	AARS2	693.88	0.43	5.05E-03
ENSG00000136436	CALCOCO2	2574.28	0.53	5.05E-03
ENSG00000131408	NR1H2	2277.40	0.54	5.06E-03
ENSG00000128805	ARHGAP22	179.94	-1.60	5.08E-03
ENSG00000152256	PKD1	2807.58	1.31	5.09E-03
ENSG00000149782	PLCB3	619.04	-0.93	5.09E-03
ENSG00000165527	ARF6	4647.99	-0.60	5.11E-03
ENSG00000235770	LINC00607	14.02	-4.73	5.15E-03
ENSG00000101220	C20orf27	291.30	1.60	5.16E-03
ENSG00000158106	RHPN1	422.25	1.09	5.25E-03
ENSG00000176619	LMNB2	826.94	-0.94	5.25E-03
ENSG00000123268	ATF1	672.97	-0.54	5.25E-03
ENSG00000164327	RICTOR	6772.38	0.64	5.26E-03
ENSG00000198909	MAP3K3	3405.53	0.87	5.26E-03
ENSG00000105472	CLEC11A	54.20	2.03	5.26E-03
ENSG00000213071	LPAL2	88.98	1.36	5.28E-03
ENSG00000148344	PTGES	2578.57	-4.54	5.30E-03
ENSG00000116157	GPX7	287.67	-0.64	5.30E-03
ENSG00000233885	YEATS2-AS1	24.54	1.91	5.30E-03
ENSG00000167193	CRK	1823.07	-0.90	5.30E-03
ENSG00000091106	NLRC4	772.92	-1.98	5.31E-03
ENSG00000075340	ADD2	309.57	1.56	5.31E-03
ENSG00000103365	GGA2	5546.43	-0.76	5.31E-03
ENSG00000144747	TMF1	3438.39	-0.49	5.33E-03
ENSG00000120875	DUSP4	1443.41	-2.17	5.33E-03
ENSG00000136026	CKAP4	2093.18	-1.41	5.36E-03
ENSG00000136738	STAM	889.05	-0.43	5.37E-03
ENSG00000163602	RYBP	1841.16	-0.65	5.37E-03
ENSG00000070610	GBA2	1702.64	-0.67	5.37E-03
ENSG00000162231	NXF1	4302.23	-0.51	5.38E-03

ENSG00000170027	YWHAG	2322.24	-1.47	5.41E-03
ENSG00000135094	SDS	733.90	-4.14	5.44E-03
ENSG00000270339	PPIAL4H	41.44	-2.30	5.46E-03
ENSG00000047346	FAM214A	3176.01	-0.64	5.46E-03
ENSG00000136444	RSAD1	897.35	0.47	5.49E-03
ENSG00000100099	HPS4	1265.83	0.39	5.50E-03
ENSG00000213930	GALT	843.99	0.55	5.51E-03
ENSG00000150527	MIA2	232.95	-0.66	5.51E-03
ENSG00000108588	CCDC47	1164.13	-0.71	5.51E-03
ENSG00000136895	GARNL3	66.31	1.30	5.51E-03
ENSG00000116525	TRIM62	568.41	0.77	5.52E-03
ENSG00000041880	PARP3	173.53	0.73	5.53E-03
ENSG00000228203	GRASLND	34.35	1.47	5.53E-03
ENSG00000100628	ASB2	354.37	-1.64	5.53E-03
ENSG00000154269	ENPP3	50.64	1.68	5.53E-03
ENSG00000198879	SFMBT2	1996.84	0.72	5.56E-03
ENSG00000267241	CYP4F10P	12.39	-3.14	5.56E-03
ENSG00000069849	ATP1B3	1367.89	-1.12	5.57E-03
ENSG00000172171	TEFM	308.25	-0.79	5.59E-03
ENSG00000026297	RNASET2	3933.92	0.89	5.60E-03
ENSG00000066322	ELOVL1	1096.39	-0.73	5.62E-03
ENSG00000225026		17.67	-4.79	5.62E-03
ENSG00000185112	FAM43A	529.44	-1.22	5.62E-03
ENSG00000196639	HRH1	174.82	-4.29	5.64E-03
ENSG00000066379	POLR1H	404.17	-0.88	5.67E-03
ENSG00000130147	SH3BP4	46.71	1.70	5.69E-03
ENSG00000000971	CFH	107.71	1.16	5.70E-03
ENSG00000213626	LBH	5895.70	-0.73	5.70E-03
ENSG00000114541	FRMD4B	586.27	1.21	5.70E-03
ENSG00000078140	UBE2K	1604.72	-0.50	5.70E-03
ENSG00000113300	CNOT6	1377.34	-0.48	5.70E-03
ENSG00000204394	VARS1	777.71	0.70	5.70E-03
ENSG00000136404	TM6SF1	568.73	-1.61	5.70E-03
ENSG00000196646	ZNF136	830.23	0.47	5.70E-03
ENSG00000220412		34.72	-2.34	5.70E-03
ENSG00000089048	ESF1	374.31	-0.92	5.71E-03
ENSG00000176170	SPHK1	1004.01	-2.08	5.72E-03
ENSG00000170310	STX8	341.82	0.72	5.72E-03
ENSG00000201451		39.18	-1.35	5.74E-03
ENSG00000177173	NAP1L4P1	793.79	-1.58	5.74E-03
ENSG00000161996	WDR90	311.32	-0.81	5.74E-03
ENSG00000274180	NATD1	1049.49	1.16	5.74E-03
ENSG00000167925	GHDC	486.89	0.91	5.78E-03
ENSG00000168092	PAFAH1B2	2088.25	-0.39	5.79E-03
ENSG00000032444	PNPLA6	3959.53	-0.78	5.79E-03
ENSG00000162711	NLRP3	1542.77	1.18	5.79E-03
ENSG00000102871	TRADD	1469.35	0.56	5.79E-03
ENSG00000275793	RIMBP3	160.79	-1.81	5.79E-03
ENSG00000176974	SHMT1	298.78	0.82	5.80E-03
ENSG00000215788	TNFRSF25	3846.33	-1.12	5.82E-03

ENSG00000135932	CAB39	3626.69	-0.47	5.82E-03
ENSG00000184178	SCFD2	364.12	0.79	5.82E-03
ENSG00000150627	WDR17	42.67	1.64	5.82E-03
ENSG00000154582	ELOC	706.20	-0.68	5.82E-03
ENSG00000136811	ODF2	768.51	-0.46	5.82E-03
ENSG00000181649	PHLDA2	157.35	-2.43	5.82E-03
ENSG00000204161	TMEM273	1519.13	-2.01	5.82E-03
ENSG00000084734	GCKR	7.30	4.19	5.85E-03
ENSG00000135930	EIF4E2	1804.42	-0.49	5.85E-03
ENSG00000112367	FIG4	834.45	0.53	5.85E-03
ENSG00000178202	POGLUT3	228.90	0.61	5.85E-03
ENSG00000180376	CCDC66	1736.23	-0.57	5.88E-03
ENSG00000122884	P4HA1	1013.11	-1.00	5.90E-03
ENSG00000144485	HES6	65.67	-1.38	5.90E-03
ENSG00000134574	DDB2	724.40	0.73	5.90E-03
ENSG00000118961	LDAH	444.75	0.51	5.91E-03
ENSG00000172824	CES4A	151.23	1.14	5.91E-03
ENSG00000171443	ZNF524	450.95	0.65	5.91E-03
ENSG00000143061	IGSF3	36.34	-2.41	5.91E-03
ENSG00000143498	TAF1A	217.15	-1.02	5.91E-03
ENSG00000237693	IRGM	41.99	1.36	5.91E-03
ENSG00000071205	ARHGAP10	617.11	-0.90	5.95E-03
ENSG00000177707	NECTIN3	125.94	-0.96	5.96E-03
ENSG00000140416	TPM1	482.62	-0.69	5.97E-03
ENSG00000184117	NIPSNAP1	539.57	0.67	5.97E-03
ENSG00000175643	RMI2	91.79	1.58	5.97E-03
ENSG00000163050	COQ8A	1069.51	1.02	6.00E-03
ENSG00000144476	ACKR3	173.95	-1.34	6.00E-03
ENSG00000109787	KLF3	5388.06	-0.42	6.00E-03
ENSG00000226179	LINC00685	25.20	-1.49	6.00E-03
ENSG00000090661	CERS4	655.33	-0.59	6.00E-03
ENSG00000118518	RNF146	914.29	-0.48	6.00E-03
ENSG00000170248	PDCD6IP	4123.19	-0.36	6.02E-03
ENSG00000207205	RNVU1-15	34.12	-1.57	6.03E-03
ENSG00000112699	GMDS	302.26	0.64	6.04E-03
ENSG00000167613	LAIR1	2867.66	-1.37	6.07E-03
ENSG00000135378	PRRG4	273.73	1.80	6.07E-03
ENSG00000128185	DGCR6L	481.21	0.82	6.09E-03
ENSG00000247626	MARS2	380.21	0.48	6.09E-03
ENSG00000120685	PROSER1	982.34	0.44	6.10E-03
ENSG00000167792	NDUFV1	1369.17	0.64	6.10E-03
ENSG00000186185	KIF18B	40.84	-1.92	6.10E-03
ENSG00000135605	TEC	222.64	1.12	6.10E-03
ENSG00000110031	LPXN	2731.87	-1.03	6.13E-03
ENSG00000137331	IER3	9978.87	-2.63	6.15E-03
ENSG00000173212	MAB21L3	13.36	-2.51	6.17E-03
ENSG00000148288	GBGT1	924.39	-1.21	6.17E-03
ENSG00000119471	HSDL2	818.02	1.28	6.17E-03
ENSG00000124145	SDC4	594.32	-2.46	6.17E-03
ENSG00000275131	PDE4DIPP2	1541.09	-0.73	6.18E-03

ENSG00000207870	MIR221	30.31	-3.00	6.18E-03
ENSG00000104660	LEPROTL1	4144.94	-0.61	6.19E-03
ENSG00000081189	MEF2C	1512.76	-0.84	6.19E-03
ENSG00000279821		208.36	-2.05	6.19E-03
ENSG00000109534	GAR1	117.19	-1.13	6.19E-03
ENSG00000258311		61.20	0.91	6.19E-03
ENSG00000239911	PRKAG2-AS1	61.77	1.46	6.20E-03
ENSG00000115762	PLEKHB2	4224.85	-0.70	6.21E-03
ENSG00000100802	C14orf93	289.22	0.56	6.21E-03
ENSG00000120833	SOCS2	222.75	1.55	6.23E-03
ENSG00000239726	RN7SL688P	54.59	-1.33	6.24E-03
ENSG00000107959	PITRM1	1132.32	0.42	6.25E-03
ENSG00000178988	MRFAP1L1	1164.36	-0.67	6.26E-03
ENSG00000180316	PNPLA1	613.50	-3.07	6.27E-03
ENSG00000009413	REV3L	2284.16	-0.83	6.27E-03
ENSG00000189369	GSPT2	225.67	0.80	6.27E-03
ENSG00000156017	CARNMT1	639.26	-0.69	6.27E-03
ENSG00000213047	DENND1B	1404.84	-0.65	6.35E-03
ENSG00000198429	ZNF69	175.14	-0.73	6.35E-03
ENSG00000116106	EPHA4	956.73	-0.80	6.36E-03
ENSG00000175782	SLC35E3	868.71	-0.85	6.36E-03
ENSG00000139832	RAB20	1244.10	1.30	6.36E-03
ENSG00000244682	FCGR2C	1245.51	1.76	6.36E-03
ENSG00000170185	USP38	1722.71	0.61	6.37E-03
ENSG00000126249	PDCD2L	51.25	1.01	6.40E-03
ENSG00000167996	FTH1	90377.63	-1.24	6.40E-03
ENSG00000102554	KLF5	222.61	1.32	6.41E-03
ENSG00000154240	CEP112	81.69	-1.52	6.41E-03
ENSG00000141506	PIK3R5	13414.56	-1.15	6.42E-03
ENSG00000080824	HSP90AA1	13965.60	-1.21	6.44E-03
ENSG00000141376	BCAS3	1194.55	0.60	6.44E-03
ENSG00000130487	KLHDC7B	263.91	1.23	6.45E-03
ENSG00000214140	PRCD	119.48	-1.65	6.47E-03
ENSG00000173692	PSMD1	1357.54	-0.66	6.48E-03
ENSG00000163558	PRKCI	768.70	-0.67	6.48E-03
ENSG00000153391	INO80C	240.35	-0.60	6.49E-03
ENSG00000082293	COL19A1	501.80	-0.79	6.49E-03
ENSG00000108576	SLC6A4	12.17	3.29	6.49E-03
ENSG00000173369	C1QB	100.33	2.32	6.49E-03
ENSG00000163738	MTHFD2L	374.45	-0.51	6.50E-03
ENSG00000139531	SUOX	201.11	1.00	6.50E-03
ENSG00000187621	TCL6	128.46	1.11	6.50E-03
ENSG00000006282	SPATA20	340.46	1.18	6.50E-03
ENSG00000135766	EGLN1	1696.15	1.16	6.53E-03
ENSG00000236946	HNRNPA1P70	52.07	1.59	6.53E-03
ENSG00000177150	FAM210A	355.65	-0.75	6.53E-03
ENSG00000131697	NPHP4	510.28	-0.62	6.54E-03
ENSG00000152127	MGAT5	3144.76	-0.64	6.54E-03
ENSG00000197324	LRP10	9297.81	0.50	6.54E-03
ENSG00000143179	UCK2	263.54	-1.14	6.56E-03

ENSG00000255186		86.95	-1.87	6.61E-03
ENSG00000121691	CAT	1814.91	1.41	6.63E-03
ENSG00000105976	MET	605.74	-3.47	6.63E-03
ENSG00000169495	HTRA4	117.83	-2.10	6.64E-03
ENSG00000135960	EDAR	374.93	-0.62	6.65E-03
ENSG00000232629	HLA-DQB2	77.46	1.10	6.65E-03
ENSG00000100097	LGALS1	3167.00	-1.47	6.68E-03
ENSG00000153898	MCOLN2	420.10	0.79	6.71E-03
ENSG00000170242	USP47	2643.48	-0.42	6.71E-03
ENSG00000253368	TRNP1	13.26	-2.78	6.71E-03
ENSG00000188921	HACD4	1321.43	1.06	6.71E-03
ENSG00000260461	NA	175.77	0.93	6.71E-03
ENSG00000115355	CCDC88A	2509.49	-0.93	6.73E-03
ENSG00000008086	CDKL5	385.35	0.56	6.73E-03
ENSG00000147394	ZNF185	504.30	1.82	6.73E-03
ENSG00000224020	MIR181A2HG	30.52	-2.11	6.75E-03
ENSG00000262097	LINC02185	4.08	5.12	6.75E-03
ENSG00000125384	PTGER2	962.86	1.16	6.75E-03
ENSG00000243845	RN7SL30P	28.66	-1.28	6.76E-03
ENSG00000125454	SLC25A19	486.64	-1.63	6.76E-03
ENSG00000225423	TNPO1P1	170.26	-1.11	6.76E-03
ENSG00000184719	RNLS	45.40	1.34	6.76E-03
ENSG00000111331	OAS3	8080.81	2.68	6.76E-03
ENSG00000236438	FAM157A	598.22	1.98	6.77E-03
ENSG00000102218	RP2	1553.56	-0.65	6.77E-03
ENSG00000125166	GOT2	581.80	0.39	6.82E-03
ENSG00000180353	HCLS1	10088.27	-0.75	6.82E-03
ENSG00000004478	FKBP4	1391.45	-1.57	6.87E-03
ENSG00000065802	ASB1	1296.55	-0.45	6.89E-03
ENSG00000151012	SLC7A11	2177.53	-3.48	6.89E-03
ENSG00000162377	COA7	226.44	-1.75	6.90E-03
ENSG00000198898	CAPZA2	4752.83	-0.69	6.90E-03
ENSG00000263482	ANTXRPL1	584.54	-0.73	6.93E-03
ENSG00000173786	CNP	1592.73	0.86	6.93E-03
ENSG00000136052	SLC41A2	297.80	-2.33	6.93E-03
ENSG00000114023	FAM162A	274.55	0.78	6.94E-03
ENSG00000164494	PDSS2	290.64	0.47	6.95E-03
ENSG00000090776	EFNB1	167.40	0.75	6.95E-03
ENSG00000152642	GPD1L	409.54	0.54	6.95E-03
ENSG00000168275	COA6	202.07	-1.00	6.96E-03
ENSG00000161911	TREML1	117.01	2.80	6.96E-03
ENSG00000200651		88.78	-1.32	6.97E-03
ENSG00000188033	ZNF490	221.06	-0.74	7.03E-03
ENSG00000148297	MED22	1478.83	-0.58	7.03E-03
ENSG00000141994	DUS3L	585.73	0.68	7.03E-03
ENSG00000051382	PIK3CB	1573.82	-0.46	7.03E-03
ENSG00000168874	ATOH8	133.38	3.11	7.04E-03
ENSG00000114648	KLHL18	989.29	-0.40	7.04E-03
ENSG00000123124	WWP1	2404.87	0.40	7.04E-03
ENSG00000119242	CCDC92	882.09	-0.51	7.04E-03

ENSG00000163412	EIF4E3	2392.29	0.93	7.04E-03
ENSG00000154429	CCSAP	658.80	0.73	7.05E-03
ENSG00000141574	SECTM1	1565.46	2.60	7.05E-03
ENSG00000129250	KIF1C	1240.80	-0.66	7.06E-03
ENSG00000021355	SERPINB1	4301.75	0.76	7.07E-03
ENSG00000185697	MYBL1	995.64	1.17	7.07E-03
ENSG00000127526	SLC35E1	1389.00	-0.56	7.10E-03
ENSG00000267521		105.87	-2.54	7.11E-03
ENSG00000154127	UBASH3B	1532.76	0.75	7.11E-03
ENSG00000136450	SRSF1	3909.27	-0.53	7.11E-03
ENSG00000053254	FOXN3	3569.46	0.76	7.12E-03
ENSG00000130313	PGLS	980.30	0.75	7.12E-03
ENSG00000250057		39.83	-2.20	7.13E-03
ENSG00000124786	SLC35B3	527.33	-0.71	7.13E-03
ENSG00000023697	DERA	325.17	0.55	7.13E-03
ENSG00000258831		30.02	-3.55	7.13E-03
ENSG00000143452	HORMAD1	61.01	1.29	7.13E-03
ENSG00000170266	GLB1	936.45	0.49	7.13E-03
ENSG00000144824	PHLDB2	402.76	-0.80	7.13E-03
ENSG00000179344	HLA-DQB1	2466.33	0.78	7.13E-03
ENSG00000169439	SDC2	2091.31	-2.88	7.13E-03
ENSG00000152117	SMPD4BP	968.66	0.62	7.14E-03
ENSG00000071246	VASH1	1322.51	-1.84	7.14E-03
ENSG00000107018	RLN1	47.65	-1.74	7.15E-03
ENSG00000154957	ZNF18	520.25	0.53	7.15E-03
ENSG00000149485	FADS1	323.78	-0.86	7.18E-03
ENSG00000137936	BCAR3	179.73	-1.84	7.18E-03
ENSG00000228327		429.11	0.86	7.19E-03
ENSG00000013275	PSMC4	1140.23	-0.77	7.19E-03
ENSG00000163040	CCDC74A	14.38	-3.13	7.20E-03
ENSG00000036054	TBC1D23	1521.36	-0.52	7.21E-03
ENSG00000204580	DDR1	264.65	-0.88	7.24E-03
ENSG00000107954	NEURL1	101.19	2.01	7.27E-03
ENSG00000182700	IGIP	409.44	-0.62	7.28E-03
ENSG00000166920	C15orf48	6590.84	-5.03	7.28E-03
ENSG00000123908	AGO2	6682.56	-0.75	7.28E-03
ENSG00000145901	TNIP1	17643.72	-1.65	7.33E-03
ENSG00000158715	SLC45A3	233.83	1.04	7.34E-03
ENSG00000269893	SNHG8	643.58	-0.71	7.34E-03
ENSG00000103319	EEF2K	662.03	0.82	7.35E-03
ENSG00000185052	SLC24A3	98.80	-1.25	7.35E-03
ENSG00000187164	SHTN1	385.62	-0.98	7.37E-03
ENSG00000179598	PLD6	182.87	1.08	7.37E-03
ENSG00000085491	SLC25A24	1132.84	-0.75	7.38E-03
ENSG00000178562	CD28	2599.80	0.54	7.38E-03
ENSG00000217801		91.73	-2.24	7.38E-03
ENSG00000183520	UTP11	418.15	-1.05	7.39E-03
ENSG00000034510	TMSB10	11827.40	1.05	7.42E-03
ENSG00000100813	ACIN1	7837.03	-0.34	7.48E-03
ENSG00000255050		12.44	-2.62	7.48E-03

ENSG00000167680	SEMA6B	1839.27	-3.81	7.49E-03
ENSG00000130433	CACNG6	38.08	1.95	7.50E-03
ENSG00000182511	FES	1110.34	1.42	7.51E-03
ENSG00000156983	BRPF1	1223.39	0.44	7.53E-03
ENSG00000120899	PTK2B	12694.48	-0.70	7.54E-03
ENSG00000185246	PRPF39	891.90	-0.41	7.54E-03
ENSG00000173597	SULT1B1	678.57	2.12	7.54E-03
ENSG00000173200	PARP15	1342.87	0.88	7.55E-03
ENSG00000149499	EML3	3167.01	-0.58	7.56E-03
ENSG00000278058		14.45	1.63	7.56E-03
ENSG00000167074	TEF	186.81	0.85	7.56E-03
ENSG00000072042	RDH11	794.16	-0.47	7.57E-03
ENSG00000048740	CELF2	10584.60	0.87	7.59E-03
ENSG00000157184	CPT2	606.03	0.41	7.60E-03
ENSG00000204086	RPA4	36.00	-1.38	7.60E-03
ENSG00000196924	FLNA	39293.04	-0.94	7.64E-03
ENSG00000163006	CCDC138	234.72	-0.50	7.64E-03
ENSG00000114062	UBE3A	2959.05	-0.41	7.70E-03
ENSG00000197046	SIGLEC15	26.91	4.48	7.70E-03
ENSG00000127947	PTPN12	4850.05	-1.06	7.70E-03
ENSG00000198832	SELENOM	222.71	1.11	7.72E-03
ENSG00000112232	KHDRBS2	46.01	1.70	7.72E-03
ENSG00000161929	SCIMP	519.96	1.38	7.72E-03
ENSG00000143147	GPR161	21.84	-2.34	7.79E-03
ENSG00000144959	NCEH1	452.15	-1.64	7.79E-03
ENSG00000279589		23.20	-1.36	7.80E-03
ENSG00000144381	HSPD1	2791.01	-1.36	7.81E-03
ENSG00000140391	TSPAN3	839.00	-0.48	7.81E-03
ENSG00000172086	KRCC1	842.29	-0.82	7.83E-03
ENSG00000172840	PDP2	390.56	-0.75	7.85E-03
ENSG00000179362	HMGN2P46	151.10	-4.31	7.86E-03
ENSG00000103415	HMOX2	947.50	0.51	7.88E-03
ENSG00000007392	LUC7L	1716.32	-0.37	7.93E-03
ENSG00000172530	BANP	2657.81	-0.70	7.93E-03
ENSG00000168591	TMUB2	1242.32	0.47	7.93E-03
ENSG00000121057	AKAP1	804.74	0.53	7.93E-03
ENSG00000130299	GTPBP3	364.80	0.63	7.93E-03
ENSG00000151612	ZNF827	944.93	-0.59	7.94E-03
ENSG00000224295	OLFM5P	25.26	1.86	7.94E-03
ENSG00000239521	CASTOR3	901.33	-0.59	7.94E-03
ENSG00000130783	CCDC62	77.44	-0.83	7.94E-03
ENSG00000111885	MAN1A1	2378.35	0.74	7.95E-03
ENSG00000107021	TBC1D13	1017.01	0.36	7.96E-03
ENSG00000163931	TKT	5590.91	1.03	7.98E-03
ENSG00000144909	OSBPL11	1707.48	-0.76	7.98E-03
ENSG00000163155	LYSMD1	68.20	-1.57	8.01E-03
ENSG00000229931	ATXN1-AS1	92.15	-1.14	8.02E-03
ENSG00000091127	PUS7	227.30	-1.26	8.02E-03
ENSG00000146409	SLC18B1	340.11	0.73	8.03E-03
ENSG00000163220	S100A9	29447.72	-1.32	8.04E-03

ENSG00000229689		61.93	-2.63	8.05E-03
ENSG00000115145	STAM2	1513.77	-0.84	8.05E-03
ENSG00000123453	SARDH	452.70	-1.46	8.06E-03
ENSG00000166801	FAM111A	2429.85	0.52	8.06E-03
ENSG00000179630	LACC1	755.68	-2.75	8.06E-03
ENSG00000147155	EBP	273.00	1.07	8.07E-03
ENSG00000248323	LUCAT1	2624.59	-2.02	8.08E-03
ENSG00000111424	VDR	1478.43	-1.92	8.08E-03
ENSG00000139725	RHOF	2721.54	-0.55	8.08E-03
ENSG00000101150	TPD52L2	4476.32	-0.80	8.11E-03
ENSG00000123838	C4BPA	22.58	4.79	8.12E-03
ENSG00000107282	APBA1	38.15	1.40	8.12E-03
ENSG00000267980		36.51	1.18	8.12E-03
ENSG00000160877	NACC1	1486.19	-0.84	8.12E-03
ENSG00000171302	CANT1	2370.59	0.38	8.15E-03
ENSG00000182183	SHISAL2A	918.57	-0.85	8.15E-03
ENSG00000157227	MMP14	2348.40	1.72	8.15E-03
ENSG00000102910	LONP2	2636.85	0.40	8.15E-03
ENSG00000259416	LINC02883	37.01	-1.42	8.17E-03
ENSG00000136504	KAT7	3490.27	0.68	8.17E-03
ENSG00000162734	PEA15	2473.42	-1.77	8.17E-03
ENSG00000222043		35.15	1.92	8.17E-03
ENSG00000110660	SLC35F2	180.38	-0.72	8.17E-03
ENSG00000116977	LGALS8	2787.89	0.58	8.21E-03
ENSG00000101846	STS	141.49	0.97	8.21E-03
ENSG00000261971	MMP25-AS1	624.93	0.91	8.21E-03
ENSG00000125735	TNFSF14	1344.59	-1.82	8.21E-03
ENSG00000052802	MSMO1	382.05	-1.05	8.22E-03
ENSG00000223387	LINC02068	15.30	3.92	8.26E-03
ENSG00000136603	SKIL	10440.54	-2.48	8.26E-03
ENSG00000006118	TMEM132A	31.81	-2.53	8.26E-03
ENSG00000124593		40.00	1.31	8.26E-03
ENSG00000162433	AK4	537.04	-3.31	8.32E-03
ENSG00000145214	DGKQ	1493.91	0.67	8.32E-03
ENSG00000237172	B3GNT9	127.35	0.69	8.32E-03
ENSG00000260647		33.91	1.40	8.32E-03
ENSG00000228594	FNDC10	53.09	1.62	8.34E-03
ENSG00000097007	ABL1	1561.20	-0.71	8.37E-03
ENSG00000136874	STX17	1013.38	0.40	8.37E-03
ENSG00000132357	CARD6	525.84	-1.06	8.39E-03
ENSG00000172175	MALT1	2562.91	0.56	8.45E-03
ENSG00000138709	LARP1B	453.66	-0.87	8.48E-03
ENSG00000234964	FABP5P7	8.89	-4.58	8.49E-03
ENSG00000223799	IL10RB-DT	92.07	-1.69	8.54E-03
ENSG00000187650	VMAC	500.14	0.60	8.60E-03
ENSG00000138172	CALHM2	839.22	-1.21	8.61E-03
ENSG00000183486	MX2	9775.02	1.37	8.61E-03
ENSG00000279110		11.34	-3.15	8.65E-03
ENSG00000258749		68.38	1.32	8.65E-03
ENSG00000130699	TAF4	712.95	-0.66	8.67E-03

ENSG00000198863	RUNDC1	895.17	-0.64	8.70E-03
ENSG00000272746	NA	139.45	-1.28	8.77E-03
ENSG00000169136	ATF5	747.10	-2.43	8.81E-03
ENSG00000125744	RTN2	503.84	-2.68	8.82E-03
ENSG00000173011	TADA2B	2044.74	0.56	8.84E-03
ENSG00000169230	PRELID1	2196.37	-0.80	8.88E-03
ENSG00000211689	TRGC1	626.32	-1.05	8.88E-03
ENSG00000244038	DDOST	1911.48	0.45	8.88E-03
ENSG00000106069	CHN2	253.47	1.69	8.91E-03
ENSG00000180155	LYNX1	58.61	2.00	8.93E-03
ENSG00000228672	PROB1	49.47	1.16	8.94E-03
ENSG00000175602	CCDC85B	568.86	1.13	8.94E-03
ENSG00000104763	ASAH1	7887.33	1.36	8.94E-03
ENSG00000176049	JAKMIP2	677.82	-1.48	8.94E-03
ENSG00000222365	SNORD12B	111.09	1.14	8.95E-03
ENSG00000258499	LINC02287	14.37	3.79	8.99E-03
ENSG00000267470	ZNF571-AS1	21.61	1.30	8.99E-03
ENSG00000215421	ZNF407	1780.03	-0.39	9.02E-03
ENSG00000235449		18.23	1.63	9.02E-03
ENSG00000121064	SCPEP1	866.33	1.40	9.03E-03
ENSG00000004838	ZMYND10	53.86	-1.13	9.04E-03
ENSG00000176533	GNG7	486.98	1.28	9.04E-03
ENSG00000163297	ANTXR2	2358.43	-0.72	9.06E-03
ENSG00000169499	PLEKHA2	6409.66	-0.82	9.06E-03
ENSG00000027001	MIPEP	218.18	0.79	9.06E-03
ENSG00000234788	HSPA8P3	24.20	1.45	9.09E-03
ENSG00000215424	MCM3AP-AS1	143.12	1.13	9.12E-03
ENSG00000174574	AKIRIN1	2318.80	-0.38	9.12E-03
ENSG00000067334	DNTTIP2	2077.78	-0.63	9.12E-03
ENSG00000231249	ITPR1-DT	32.54	-1.48	9.12E-03
ENSG00000122733	PHF24	32.43	-4.16	9.12E-03
ENSG00000107281	NPDC1	221.07	1.40	9.12E-03
ENSG00000166471	TMEM41B	862.26	-0.74	9.12E-03
ENSG00000119686	FLVCR2	341.99	0.87	9.12E-03
ENSG00000116679	IVNS1ABP	16519.32	-1.27	9.13E-03
ENSG00000198818	SFT2D1	1085.87	-0.86	9.14E-03
ENSG00000267359		35.10	-1.57	9.16E-03
ENSG00000184083	FAM120C	416.77	0.47	9.18E-03
ENSG00000122545	SEPTIN7	3547.39	-0.44	9.18E-03
ENSG00000156587	UBE2L6	3105.63	1.27	9.18E-03
ENSG00000099917	MED15	5410.22	-0.51	9.20E-03
ENSG00000224934	GOT1-DT	112.13	-1.40	9.21E-03
ENSG00000236255		216.48	-0.97	9.22E-03
ENSG00000126215	XRCC3	236.90	0.57	9.22E-03
ENSG00000181019	NQO1	49.38	1.30	9.23E-03
ENSG00000197083	ZNF300P1	14.46	-3.35	9.25E-03
ENSG00000169249	ZRSR2	482.88	0.44	9.28E-03
ENSG00000073737	DHRS9	575.89	-2.16	9.29E-03
ENSG00000137166	FOXP4	610.30	-0.78	9.29E-03
ENSG00000215114	UBXN2B	2092.00	-1.12	9.29E-03

ENSG00000040633	PHF23	1092.53	-0.90	9.29E-03
ENSG00000141622	RNF165	124.61	1.89	9.29E-03
ENSG00000006451	RALA	901.87	-0.57	9.30E-03
ENSG00000058866	DGKG	175.61	2.05	9.31E-03
ENSG00000134955	SLC37A2	1164.18	-1.90	9.31E-03
ENSG00000183479	TREX2	59.68	0.94	9.32E-03
ENSG00000010310	GIPR	232.71	-0.89	9.33E-03
ENSG00000147050	KDM6A	3050.78	0.30	9.34E-03
ENSG00000132434	LANCL2	246.03	0.78	9.35E-03
ENSG00000184831	APOO	91.63	1.05	9.40E-03
ENSG00000277476		481.79	-0.51	9.40E-03
ENSG00000084774	CAD	1022.17	0.58	9.42E-03
ENSG00000259762		24.52	-1.54	9.47E-03
ENSG00000138795	LEF1	4621.92	0.67	9.47E-03
ENSG00000280187		15.81	-1.57	9.47E-03
ENSG00000075142	SRI	1004.29	0.48	9.47E-03
ENSG00000152213	ARL11	1062.62	-1.65	9.47E-03
ENSG00000225733	FGD5-AS1	2584.73	0.34	9.49E-03
ENSG00000108578	BLMH	805.34	-0.63	9.50E-03
ENSG00000141858	SAMD1	633.94	-0.61	9.50E-03
ENSG00000135253	KCP	23.81	1.73	9.51E-03
ENSG00000161643	SIGLEC16	71.51	-2.64	9.51E-03
ENSG00000147174	GCNA	285.87	-1.02	9.54E-03
ENSG00000100242	SUN2	12548.08	-0.40	9.54E-03
ENSG00000273176		67.14	1.71	9.57E-03
ENSG00000140564	FURIN	6606.51	0.90	9.58E-03
ENSG00000272498		190.23	0.90	9.60E-03
ENSG00000174007	CEP19	213.58	-0.92	9.60E-03
ENSG00000124731	TREM1	7014.86	-1.23	9.61E-03
ENSG00000278972		52.21	-1.56	9.61E-03
ENSG00000164182	NDUFAF2	160.06	-0.96	9.66E-03
ENSG00000204524	ZNF805	543.69	0.68	9.66E-03
ENSG00000237883	DGUOK-AS1	30.88	-1.73	9.67E-03
ENSG00000151233	GXYLT1	730.50	-0.63	9.69E-03
ENSG00000020633	RUNX3	6073.56	0.41	9.72E-03
ENSG00000161791	FMNL3	7802.14	-1.88	9.74E-03
ENSG00000237372		24.07	-3.00	9.76E-03
ENSG00000169641	LUZP1	1533.02	-0.67	9.77E-03
ENSG00000109436	TBC1D9	1095.09	1.06	9.77E-03
ENSG00000234219	CDCA4P4	113.13	0.93	9.79E-03
ENSG00000169016	E2F6	285.64	-0.85	9.81E-03
ENSG00000204632	HLA-G	236.11	0.81	9.81E-03
ENSG00000149823	VP551	2666.34	0.57	9.81E-03
ENSG00000261270		107.53	1.00	9.81E-03
ENSG00000176658	MYO1D	408.06	-0.57	9.81E-03
ENSG00000213983	AP1G2	2387.99	0.43	9.81E-03
ENSG00000156603	MED19	199.40	-0.84	9.83E-03
ENSG00000107551	RASSF4	1164.08	1.62	9.83E-03
ENSG00000090104	RGS1	1416.37	-1.48	9.84E-03
ENSG00000111271	ACAD10	948.56	0.36	9.84E-03

ENSG00000141404	GNAL	110.03	-1.21	9.84E-03
ENSG00000163166	IWS1	1342.61	-0.62	9.84E-03
ENSG00000064225	ST3GAL6	887.81	-1.90	9.84E-03
ENSG00000164466	SFXN1	1206.82	0.53	9.84E-03
ENSG00000134594	RAB33A	150.25	-1.58	9.84E-03
ENSG00000111231	GPN3	259.21	-0.86	9.90E-03
ENSG00000170325	PRDM10	536.64	-0.59	9.90E-03
ENSG00000111445	RFC5	236.65	0.58	9.90E-03
ENSG00000132383	RPA1	1750.37	0.42	9.90E-03
ENSG00000007168	PAFAH1B1	4157.99	-0.38	9.90E-03
ENSG00000099814	CEP170B	116.45	-1.17	9.94E-03
ENSG00000160783	PMF1	416.78	0.62	9.96E-03
ENSG00000237927		125.71	-2.08	9.96E-03
ENSG00000125355	TMEM255A	34.31	2.15	9.96E-03
ENSG00000119383	PTPA	1464.59	0.51	9.96E-03
ENSG00000121281	ADCY7	6385.89	-0.49	9.96E-03
ENSG00000004139	SARM1	1382.51	0.58	9.96E-03
ENSG00000125730	C3	1631.74	-3.69	9.96E-03
ENSG00000240750	RN7SL559P	26.40	-1.70	9.96E-03
ENSG00000136158	SPRY2	152.58	-1.90	9.97E-03
ENSG00000117318	ID3	351.85	-1.62	1.00E-02
ENSG00000162594	IL23R	24.57	2.35	1.00E-02
ENSG00000279476		578.21	-1.41	1.00E-02
ENSG00000260464		49.11	-1.22	1.00E-02
ENSG00000265982		158.40	-1.19	1.01E-02
ENSG00000112339	HBS1L	1685.12	-0.38	1.01E-02
ENSG00000115107	STEAP3	116.93	-1.67	1.01E-02
ENSG00000136854	STXBP1	181.28	-0.73	1.01E-02
ENSG00000259952		29.08	-1.61	1.01E-02
ENSG00000183605	SFXN4	247.44	0.62	1.01E-02
ENSG00000183576	SETD3	1908.54	-0.42	1.01E-02
ENSG00000170379	TCAF2	562.46	0.65	1.02E-02
ENSG00000005175	RPAP3	859.56	0.53	1.02E-02
ENSG00000173588	CEP83	476.78	-0.66	1.02E-02
ENSG00000279801		359.25	-1.08	1.02E-02
ENSG0000026025	VIM	20597.06	-1.01	1.02E-02
ENSG00000164691	TAGAP	7622.77	0.97	1.02E-02
ENSG00000102755	FLT1	772.03	-2.97	1.02E-02
ENSG00000106261	ZKSCAN1	3039.35	-0.43	1.03E-02
ENSG00000230839	NA	88.37	-1.63	1.03E-02
ENSG00000177479	ARIH2	2957.74	-0.32	1.03E-02
ENSG00000232859	LYRM9	250.47	0.70	1.03E-02
ENSG00000141013	GAS8	126.06	0.88	1.03E-02
ENSG00000226321	CROCC2	8.40	4.52	1.04E-02
ENSG00000187554	TLR5	216.74	1.94	1.04E-02
ENSG00000075213	SEMA3A	50.03	-2.08	1.04E-02
ENSG00000262312		55.39	1.62	1.04E-02
ENSG00000262663		56.06	-1.46	1.04E-02
ENSG00000186529	CYP4F3	2074.32	-1.78	1.04E-02
ENSG00000274600	RIMBP3B	21.62	-2.01	1.04E-02

ENSG00000132773	TOE1	408.20	0.80	1.04E-02
ENSG00000163510	CWC22	1000.90	-0.74	1.04E-02
ENSG00000232381	OR52U1P	34.03	1.53	1.04E-02
ENSG00000149948	HMGA2	18.38	-2.53	1.04E-02
ENSG00000100592	DAAM1	503.77	-0.53	1.04E-02
ENSG00000280106		136.45	-0.97	1.04E-02
ENSG00000273320		403.13	1.63	1.05E-02
ENSG00000137501	SYTL2	2428.04	-0.68	1.05E-02
ENSG00000197982	C1orf122	828.81	-1.59	1.05E-02
ENSG00000270060		85.77	0.96	1.05E-02
ENSG00000110375	UPK2	18.45	-1.90	1.05E-02
ENSG00000233622	CYP2T1P	22.10	1.84	1.05E-02
ENSG00000047315	POLR2B	2979.56	-0.34	1.05E-02
ENSG00000168672	LRATD2	669.24	0.67	1.05E-02
ENSG00000129354	AP1M2	17.23	3.12	1.06E-02
ENSG00000164050	PLXNB1	106.13	-0.99	1.06E-02
ENSG00000150753	CCT5	2789.10	-0.99	1.07E-02
ENSG00000119820	YIPF4	2294.45	-0.51	1.07E-02
ENSG00000129535	NRL	95.42	0.72	1.07E-02
ENSG00000114735	HEMK1	1881.68	0.60	1.07E-02
ENSG00000221102	SNORA11B	33.96	-1.94	1.07E-02
ENSG00000091490	SEL1L3	2152.74	0.51	1.07E-02
ENSG00000261529		63.41	-1.18	1.07E-02
ENSG00000188822	CNR2	334.49	0.95	1.08E-02
ENSG00000163539	CLASP2	2288.00	-0.37	1.08E-02
ENSG00000104611	SH2D4A	9.70	-2.72	1.08E-02
ENSG00000260778	MIR3677HG	70.35	-1.18	1.08E-02
ENSG00000133119	RFC3	166.98	0.95	1.08E-02
ENSG00000169221	TBC1D10B	1815.24	-0.46	1.09E-02
ENSG00000184226	PCDH9	358.58	0.91	1.09E-02
ENSG00000119979	DENND10	765.13	1.16	1.09E-02
ENSG00000162885	B3GALNT2	269.88	-0.60	1.09E-02
ENSG00000152465	NMT2	732.41	-0.48	1.10E-02
ENSG00000196873	CBWD3	252.47	0.81	1.10E-02
ENSG00000007341	ST7L	530.99	-0.44	1.10E-02
ENSG00000247624	CPEB2-DT	66.00	-0.94	1.10E-02
ENSG00000110046	ATG2A	5013.26	1.16	1.10E-02
ENSG00000158352	SHROOM4	20.69	-2.66	1.10E-02
ENSG00000132965	ALOX5AP	5971.68	-1.93	1.10E-02
ENSG00000261512		173.11	0.80	1.11E-02
ENSG00000197785	ATAD3A	413.08	-1.08	1.11E-02
ENSG00000175170	FAM182B	36.09	1.41	1.11E-02
ENSG00000230489	VAV3-AS1	29.19	-1.75	1.12E-02
ENSG00000115956	PLEK	18660.54	0.91	1.12E-02
ENSG00000263883	EEF1DP7	96.97	0.99	1.12E-02
ENSG00000173801	JUP	266.97	1.42	1.12E-02
ENSG00000180530	NRIP1	2211.31	-0.69	1.12E-02
ENSG00000178222	RNF212	43.70	1.08	1.12E-02
ENSG00000134294	SLC38A2	4421.76	-0.56	1.12E-02
ENSG00000187775	DNAH17	680.68	-2.59	1.12E-02

ENSG00000099783	HNRNPM	4246.87	-0.51	1.12E-02
ENSG00000069399	BCL3	3339.24	0.88	1.12E-02
ENSG00000232693		11.64	-2.94	1.12E-02
ENSG00000102780	DGKH	1133.93	0.55	1.12E-02
ENSG00000185272	RBM11	64.62	1.16	1.12E-02
ENSG00000168386	FILIP1L	38.43	-2.16	1.13E-02
ENSG00000158402	CDC25C	22.77	-1.73	1.13E-02
ENSG00000008083	JARID2	3671.13	-0.66	1.13E-02
ENSG00000008853	RHOBTB2	318.97	1.06	1.13E-02
ENSG00000205268	PDE7A	4753.39	-0.47	1.13E-02
ENSG00000211695	TRGV9	174.42	-1.11	1.14E-02
ENSG00000159256	MORC3	5474.08	-0.84	1.14E-02
ENSG00000113643	RARS1	1493.19	-0.62	1.14E-02
ENSG00000147408	CSGALNACT1	2118.69	-0.75	1.14E-02
ENSG00000136044	APPL2	1704.02	-0.53	1.14E-02
ENSG00000104140	RHOV	53.51	-4.66	1.14E-02
ENSG00000118496	FBXO30	1011.16	-0.83	1.14E-02
ENSG00000126698	DNAJC8	1773.09	-0.47	1.14E-02
ENSG00000257605	MYG1-AS1	50.25	-2.38	1.14E-02
ENSG00000103351	CLUAP1	344.62	0.73	1.14E-02
ENSG00000128482	RNF112	16.61	2.20	1.14E-02
ENSG0000015676	NUDCD3	2291.69	0.40	1.14E-02
ENSG00000167645	YIF1B	425.38	0.86	1.15E-02
ENSG00000154764	WNT7A	223.81	-0.80	1.15E-02
ENSG00000169184	MN1	230.29	-1.89	1.15E-02
ENSG00000174799	CEP135	1369.97	-0.54	1.15E-02
ENSG00000119446	RBM18	711.11	-0.53	1.16E-02
ENSG00000127124	HIVEP3	1849.27	-1.73	1.16E-02
ENSG00000104312	RIPK2	2135.16	1.04	1.16E-02
ENSG00000122378	PRXL2A	133.77	1.32	1.16E-02
ENSG00000137200	CMTR1	2535.59	0.78	1.16E-02
ENSG00000112033	PPARD	2029.35	-0.74	1.16E-02
ENSG00000168038	ULK4	590.74	-0.62	1.16E-02
ENSG00000182923	CEP63	1335.76	0.49	1.17E-02
ENSG00000185000	DGAT1	863.13	0.66	1.17E-02
ENSG00000176014	TUBB6	399.36	-1.12	1.17E-02
ENSG00000163599	CTLA4	518.17	0.69	1.17E-02
ENSG00000279518		18.65	-2.37	1.17E-02
ENSG00000198838	RYR3	17.73	2.11	1.17E-02
ENSG00000176531	PHLDB3	412.84	-0.70	1.17E-02
ENSG00000234807	LINC01135	118.73	-1.25	1.18E-02
ENSG00000106804	C5	137.90	1.07	1.18E-02
ENSG00000258623		31.58	-1.48	1.18E-02
ENSG00000186204	CYP4F12	72.07	-1.45	1.18E-02
ENSG00000120334	CENPL	149.25	-0.58	1.18E-02
ENSG00000077157	PPP1R12B	2197.84	0.72	1.18E-02
ENSG00000108639	SYNGR2	2851.14	0.54	1.18E-02
ENSG00000163719	MTMR14	3326.15	0.44	1.19E-02
ENSG00000228201		89.23	-1.34	1.19E-02
ENSG00000138760	SCARB2	2591.15	-1.27	1.19E-02

ENSG00000160563	MED27	438.04	0.42	1.19E-02
ENSG00000038382	TRIO	2628.55	-0.81	1.19E-02
ENSG00000156398	SFXN2	467.69	0.55	1.19E-02
ENSG00000109572	CLCN3	1783.07	-0.54	1.20E-02
ENSG00000235513	L3MBTL2-AS1	10.68	2.50	1.20E-02
ENSG00000165240	ATP7A	1363.48	-0.78	1.20E-02
ENSG00000105287	PRKD2	3004.72	0.62	1.20E-02
ENSG00000162616	DNAJB4	322.82	-0.88	1.20E-02
ENSG00000182118	FAM89A	160.14	0.78	1.21E-02
ENSG00000279696		185.17	-1.13	1.21E-02
ENSG00000167670	CHAF1A	379.08	0.87	1.21E-02
ENSG00000009335	UBE3C	2616.14	-0.40	1.21E-02
ENSG00000171161	ZNF672	1315.07	0.38	1.21E-02
ENSG00000157404	KIT	95.16	-1.27	1.21E-02
ENSG00000107443	CCNJ	316.50	-0.67	1.21E-02
ENSG00000100815	TRIP11	1796.83	-0.63	1.21E-02
ENSG00000266877		22.82	-3.49	1.21E-02
ENSG00000261136		131.94	-0.93	1.22E-02
ENSG00000106012	IQCE	674.00	-0.90	1.22E-02
ENSG00000250722	SELENOP	102.31	3.05	1.22E-02
ENSG00000145860	RNF145	2725.48	-0.76	1.22E-02
ENSG00000070961	ATP2B1	7842.58	-0.73	1.22E-02
ENSG00000277496	SLCO4A1-AS2	483.79	-0.84	1.22E-02
ENSG00000101421	CHMP4B	2513.86	-0.84	1.22E-02
ENSG00000211753	TRBV28	91.52	-0.99	1.22E-02
ENSG00000274422		150.89	-1.42	1.22E-02
ENSG00000170791	CHCHD7	623.74	0.53	1.22E-02
ENSG00000152253	SPC25	24.03	-1.93	1.22E-02
ENSG00000102221	JADE3	142.59	-1.44	1.22E-02
ENSG00000276961	MIR7848	289.63	-1.13	1.22E-02
ENSG00000169032	MAP2K1	1801.04	-0.49	1.22E-02
ENSG00000204842	ATXN2	1535.64	-0.53	1.22E-02
ENSG00000144802	NFKBIZ	9542.05	0.86	1.22E-02
ENSG00000182551	ADI1	594.30	0.83	1.22E-02
ENSG00000081087	OSTM1	2643.57	-0.88	1.22E-02
ENSG00000143624	INTS3	1841.51	0.43	1.23E-02
ENSG00000152558	TMEM123	11927.46	0.89	1.23E-02
ENSG00000174579	MSL2	3212.41	-0.52	1.23E-02
ENSG00000133835	HSD17B4	1481.72	0.64	1.23E-02
ENSG00000142687	KIAA0319L	2430.43	0.51	1.23E-02
ENSG00000236682	MAP3K2-DT	61.53	-1.36	1.23E-02
ENSG00000168685	IL7R	31760.63	-1.03	1.23E-02
ENSG00000171100	MTM1	595.42	0.63	1.23E-02
ENSG00000239151	RNU7-195P	26.31	2.19	1.23E-02
ENSG00000105329	TGFB1	8092.87	-0.81	1.23E-02
ENSG00000140534	TICRR	25.59	-1.72	1.24E-02
ENSG00000260152		71.97	-1.72	1.24E-02
ENSG00000174749	FAM241A	292.28	0.72	1.24E-02
ENSG00000186480	INSIG1	4037.95	-1.26	1.24E-02
ENSG00000250644		398.98	-1.87	1.24E-02

ENSG00000268635		38.85	2.20	1.24E-02
ENSG00000151327	FAM177A1	810.78	-0.65	1.24E-02
ENSG00000182117	NOP10	1274.45	-1.06	1.24E-02
ENSG00000012061	ERCC1	864.59	-0.59	1.24E-02
ENSG00000279166		1257.73	-1.05	1.24E-02
ENSG00000087586	AURKA	166.86	-1.47	1.25E-02
ENSG00000079462	PAFAH1B3	143.82	1.13	1.25E-02
ENSG00000141026	MED9	446.21	0.48	1.25E-02
ENSG00000105855	ITGB8	2952.56	-2.49	1.25E-02
ENSG00000213066	CEP43	481.21	-0.58	1.26E-02
ENSG00000085415	SEH1L	753.26	-0.66	1.26E-02
ENSG00000101182	PSMA7	2507.44	-0.60	1.26E-02
ENSG00000236969	GGT8P	58.01	-2.55	1.26E-02
ENSG00000280434		320.71	-1.00	1.26E-02
ENSG00000186056	MATN1-AS1	399.94	0.79	1.26E-02
ENSG00000158473	CD1D	354.95	2.35	1.26E-02
ENSG00000271857		42.58	-1.58	1.26E-02
ENSG00000042832	TG	260.76	-1.34	1.26E-02
ENSG00000132640	BTBD3	159.53	-1.02	1.26E-02
ENSG00000179818	PCBP1-AS1	3262.74	0.79	1.26E-02
ENSG00000100591	AHSA1	830.39	-0.90	1.27E-02
ENSG00000108963	DPH1	576.38	0.60	1.27E-02
ENSG00000101158	NELFCD	1028.54	-0.33	1.27E-02
ENSG00000282431	TRBD1	45.10	-1.21	1.27E-02
ENSG00000164808	SPIDR	1588.52	0.37	1.27E-02
ENSG00000170430	MGMT	411.84	0.66	1.27E-02
ENSG00000196684	HSH2D	3521.90	0.97	1.28E-02
ENSG00000145191	EIF2B5	1243.44	-0.31	1.28E-02
ENSG00000271781		28.12	1.63	1.28E-02
ENSG00000254999	BRK1	1767.62	-0.53	1.28E-02
ENSG00000089060	SLC8B1	2316.98	0.43	1.28E-02
ENSG00000147439	BIN3	2076.58	0.65	1.28E-02
ENSG00000136999	CCN3	58.63	2.93	1.28E-02
ENSG00000054148	PHPT1	316.33	0.72	1.28E-02
ENSG00000167930	FAM234A	276.58	0.51	1.29E-02
ENSG00000267263		368.04	-1.04	1.29E-02
ENSG00000120458	MSANTD2	463.83	-0.63	1.29E-02
ENSG00000059122	FLYWCH1	1721.07	0.71	1.29E-02
ENSG00000139579	NABP2	249.59	0.55	1.29E-02
ENSG00000266017	MIR4477B	54.75	1.63	1.29E-02
ENSG00000187475	H1-6	17.36	1.95	1.30E-02
ENSG00000162946	DISC1	469.34	1.68	1.30E-02
ENSG00000138085	ATRAID	813.42	0.68	1.30E-02
ENSG00000115946	PNO1	299.41	-0.82	1.30E-02
ENSG00000084676	NCOA1	3303.39	0.57	1.30E-02
ENSG00000068878	PSME4	3397.88	-0.52	1.30E-02
ENSG00000114544	SLC41A3	484.43	0.81	1.30E-02
ENSG00000180370	PAK2	4792.01	-0.61	1.30E-02
ENSG00000260903	XKR7	44.95	-2.51	1.30E-02
ENSG00000188707	ZBED10P	292.70	0.96	1.31E-02

ENSG00000107643	MAPK8	1246.40	-0.43	1.31E-02
ENSG00000213463	SYNJ2BP	607.62	0.43	1.31E-02
ENSG00000123485	HJURP	38.70	-1.50	1.31E-02
ENSG00000105879	CBLL1	1364.68	-0.43	1.31E-02
ENSG00000134070	IRAK2	5294.94	-2.83	1.32E-02
ENSG00000181555	SETD2	5894.59	-0.40	1.32E-02
ENSG00000125434	SLC25A35	147.86	0.70	1.32E-02
ENSG00000169733	RFNG	479.64	0.75	1.32E-02
ENSG00000162511	LAPTM5	31366.93	-0.94	1.32E-02
ENSG00000149212	SESN3	10213.82	-0.95	1.32E-02
ENSG00000096996	IL12RB1	891.30	0.54	1.32E-02
ENSG00000117834	SLC5A9	19.34	-3.18	1.32E-02
ENSG00000161904	LEMD2	2907.78	0.49	1.32E-02
ENSG00000166012	TAF1D	2923.21	-0.62	1.32E-02
ENSG00000141497	ZMYND15	425.02	1.70	1.32E-02
ENSG00000186432	KPNA4	3320.95	-0.58	1.33E-02
ENSG00000092841	MYL6	8446.64	-0.64	1.33E-02
ENSG00000261474		143.19	0.61	1.33E-02
ENSG00000150756	ATPCKMT	216.47	-0.64	1.33E-02
ENSG00000274270		108.07	1.01	1.33E-02
ENSG00000115590	IL1R2	1912.89	-2.17	1.34E-02
ENSG00000173085	COQ2	470.04	-0.71	1.35E-02
ENSG00000119599	DCAF4	279.55	0.83	1.35E-02
ENSG00000236213		618.15	-1.50	1.35E-02
ENSG00000091536	MYO15A	52.25	1.39	1.35E-02
ENSG00000167461	RAB8A	2875.92	0.47	1.35E-02
ENSG00000232453	LINC02777	17.24	-1.85	1.35E-02
ENSG00000148335	NTMT1	648.52	-0.53	1.35E-02
ENSG00000198205	ZXDA	354.15	0.68	1.36E-02
ENSG00000169918	OTUD7A	435.07	-0.64	1.36E-02
ENSG00000115084	SLC35F5	1641.73	-0.62	1.36E-02
ENSG00000136238	RAC1	3451.94	-0.85	1.36E-02
ENSG00000142459	EVI5L	368.78	0.63	1.37E-02
ENSG00000119401	TRIM32	361.25	0.42	1.37E-02
ENSG00000116701	NCF2	10582.05	-0.94	1.37E-02
ENSG00000262049		205.01	0.72	1.38E-02
ENSG00000154237	LRRK1	813.41	0.69	1.38E-02
ENSG00000196757	ZNF700	504.78	0.48	1.38E-02
ENSG00000146828	SLC12A9	2741.73	0.80	1.38E-02
ENSG00000172578	KLHL6	3450.67	-0.80	1.38E-02
ENSG00000164056	SPRY1	213.11	-1.24	1.38E-02
ENSG00000197451	HNRNPAB	1472.74	-0.84	1.39E-02
ENSG00000262495		62.42	-1.64	1.39E-02
ENSG00000162688	AGL	818.36	0.43	1.39E-02
ENSG00000115902	SLC1A4	647.56	-1.31	1.39E-02
ENSG00000145476	CYP4V2	965.43	0.36	1.39E-02
ENSG00000105810	CDK6	1214.71	0.92	1.39E-02
ENSG00000187122	SLIT1	58.13	1.63	1.39E-02
ENSG00000171860	C3AR1	4238.04	-2.64	1.39E-02
ENSG00000176700	SCAND2P	1391.62	0.40	1.39E-02

ENSG00000140545	MFGE8	585.52	-0.55	1.39E-02
ENSG00000263417	GTSCR1	18.31	-1.95	1.39E-02
ENSG00000130270	ATP8B3	75.21	1.88	1.39E-02
ENSG00000283525		59.55	-2.46	1.39E-02
ENSG00000100079	LGALS2	118.60	3.68	1.39E-02
ENSG00000115998	C2orf42	472.82	-0.51	1.39E-02
ENSG00000196743	GM2A	1502.77	0.83	1.39E-02
ENSG00000197037	ZSCAN25	1232.03	0.30	1.39E-02
ENSG00000100478	AP4S1	481.98	0.45	1.39E-02
ENSG00000239697	TNFSF12	262.37	1.02	1.39E-02
ENSG00000155252	PI4K2A	726.58	-0.73	1.40E-02
ENSG00000168961	LGALS9	1958.90	1.01	1.40E-02
ENSG00000145911	N4BP3	492.23	-1.64	1.40E-02
ENSG00000062716	VMP1	8509.30	0.86	1.40E-02
ENSG00000139117	CPNE8	281.19	1.01	1.40E-02
ENSG00000273855		29.89	-1.68	1.40E-02
ENSG00000158427	TMSB15B	41.07	1.11	1.41E-02
ENSG00000203876	ADD3-AS1	20.19	1.92	1.41E-02
ENSG00000009830	POMT2	250.75	-0.61	1.41E-02
ENSG00000188242		382.91	0.68	1.41E-02
ENSG00000187536	TPM3P7	31.60	-1.96	1.41E-02
ENSG00000172340	SUCLG2	1171.35	0.56	1.41E-02
ENSG00000112116	IL17F	50.64	6.33	1.41E-02
ENSG00000272008		30.90	1.36	1.41E-02
ENSG00000211691	TRGJP	19.85	-1.77	1.41E-02
ENSG00000228906	NA	85.59	0.78	1.41E-02
ENSG00000160293	VAV2	660.28	0.95	1.41E-02
ENSG00000148985	PGAP2	260.25	0.72	1.41E-02
ENSG00000052126	PLEKHA5	278.61	-0.77	1.41E-02
ENSG00000183484	GPR132	4432.04	-1.24	1.41E-02
ENSG00000102575	ACP5	798.16	1.17	1.41E-02
ENSG00000092330	TINF2	1935.10	0.39	1.41E-02
ENSG00000134717	BTF3L4	1265.79	-0.46	1.41E-02
ENSG00000111912	NCOA7	1590.03	0.73	1.41E-02
ENSG00000147457	CHMP7	4290.58	-0.43	1.41E-02
ENSG00000154328	NEIL2	208.81	0.76	1.41E-02
ENSG00000109501	WFS1	103.35	0.74	1.42E-02
ENSG00000120051	CFAP58	108.10	-1.84	1.42E-02
ENSG00000103064	SLC7A6	2913.26	-0.38	1.42E-02
ENSG00000143554	SLC27A3	532.00	0.93	1.42E-02
ENSG00000240710		161.05	0.75	1.42E-02
ENSG00000010072	SPRTN	528.68	0.52	1.42E-02
ENSG00000135740	SLC9A5	68.30	0.90	1.42E-02
ENSG00000241527	CA15P1	217.93	1.10	1.42E-02
ENSG00000075420	FNDC3B	10224.60	-1.33	1.43E-02
ENSG00000013374	NUB1	2995.10	0.68	1.43E-02
ENSG00000197930	ERO1A	1958.87	0.62	1.43E-02
ENSG00000161267	BDH1	576.75	0.62	1.43E-02
ENSG00000160161	CILP2	17.61	1.72	1.43E-02
ENSG00000134996	OSTF1	2353.66	-0.49	1.43E-02

ENSG00000067225	PKM	11683.39	-0.82	1.43E-02
ENSG00000104859	CLASRP	1343.18	0.78	1.43E-02
ENSG00000137310	TCF19	219.85	0.78	1.44E-02
ENSG00000122543	OCM	64.72	-1.05	1.44E-02
ENSG00000134802	SLC43A3	2201.23	-1.97	1.44E-02
ENSG00000168439	STIP1	1597.68	-1.24	1.44E-02
ENSG00000135390	ATP5MC2	1618.10	0.54	1.44E-02
ENSG00000141429	GALNT1	1517.07	-0.46	1.44E-02
ENSG00000108797	CNTNAP1	59.86	1.61	1.44E-02
ENSG00000271737		37.37	-1.37	1.44E-02
ENSG00000256742	KDM2B-DT	108.53	-0.89	1.44E-02
ENSG00000234869	LINC02925	11.63	-3.26	1.44E-02
ENSG00000227920		296.35	-0.77	1.44E-02
ENSG00000120254	MTHFD1L	487.49	-1.92	1.45E-02
ENSG00000178896	EXOSC4	329.79	-1.18	1.45E-02
ENSG00000101350	KIF3B	1286.86	-0.98	1.45E-02
ENSG00000134278	SPIRE1	210.66	-1.07	1.45E-02
ENSG00000164309	CMYA5	34.34	-1.17	1.45E-02
ENSG00000089775	ZBTB25	3093.28	-0.42	1.45E-02
ENSG00000205485	LINC03009	430.79	-0.52	1.46E-02
ENSG00000078237	TIGAR	540.06	-0.76	1.46E-02
ENSG00000099940	SNAP29	932.69	0.40	1.46E-02
ENSG00000100417	PMM1	301.48	0.98	1.47E-02
ENSG00000156869	FRRS1	80.65	1.21	1.48E-02
ENSG00000101596	SMCHD1	22062.32	0.64	1.48E-02
ENSG00000215440	NPEPL1	501.23	1.13	1.48E-02
ENSG00000235159	LINC02939	15.71	-1.89	1.48E-02
ENSG00000188687	SLC4A5	119.36	1.02	1.48E-02
ENSG00000171497	PPID	502.39	-0.65	1.48E-02
ENSG00000130305	NSUN5	767.06	-0.46	1.48E-02
ENSG00000014216	CAPN1	2242.17	0.69	1.48E-02
ENSG00000019169	MARCO	569.42	-2.78	1.48E-02
ENSG00000134480	CCNH	3007.28	-0.41	1.48E-02
ENSG00000182831	C16orf72	5241.59	0.43	1.48E-02
ENSG00000149679	CABLES2	251.46	0.80	1.48E-02
ENSG00000092964	DPYSL2	1083.47	1.28	1.49E-02
ENSG00000151413	NUBPL	190.82	0.63	1.49E-02
ENSG00000235531	MSC-AS1	167.47	-1.25	1.49E-02
ENSG00000198283	OR5B21	19.03	-2.25	1.49E-02
ENSG00000147684	NDUFB9	869.14	-0.48	1.49E-02
ENSG00000205476	CCDC85C	290.01	0.75	1.49E-02
ENSG00000275764		267.01	0.67	1.49E-02
ENSG00000103066	PLA2G15	347.43	-0.85	1.50E-02
ENSG00000254842	LINC02551	61.32	1.06	1.50E-02
ENSG00000198830	HMG2	4370.34	0.57	1.50E-02
ENSG00000164440	TXLNB	102.22	-1.28	1.51E-02
ENSG00000181396	OGFOD3	508.74	0.49	1.51E-02
ENSG00000123999	INHA	11.69	-3.21	1.51E-02
ENSG00000138185	ENTPD1	1287.76	1.20	1.51E-02
ENSG00000118922	KLF12	3207.70	0.65	1.51E-02

ENSG00000155363	MOV10	1950.81	1.03	1.52E-02
ENSG00000159445	THEM4	1115.91	-0.56	1.52E-02
ENSG0000010017	RANBP9	2116.72	-0.65	1.52E-02
ENSG00000176148	TCP11L1	764.82	-0.71	1.52E-02
ENSG00000158604	TMED4	1856.50	0.36	1.53E-02
ENSG00000135976	ANKRD36	2609.43	-0.39	1.53E-02
ENSG00000106772	PRUNE2	37.06	2.30	1.53E-02
ENSG00000278709	NKILA	107.39	-1.85	1.53E-02
ENSG00000204991	SPIRE2	129.98	-1.75	1.53E-02
ENSG00000123374	CDK2	426.21	0.58	1.53E-02
ENSG00000132906	CASP9	528.10	0.49	1.53E-02
ENSG00000060688	SNRNP40	857.80	-0.33	1.53E-02
ENSG00000179222	MAGED1	447.02	0.71	1.53E-02
ENSG00000147164	SNX12	787.90	-0.55	1.54E-02
ENSG00000255423	EBLN2	260.16	-0.50	1.54E-02
ENSG00000115541	HSPE1	307.44	-0.99	1.54E-02
ENSG00000115073	ACTR1B	1574.50	0.56	1.54E-02
ENSG00000176597	B3GNT5	2696.40	-1.11	1.54E-02
ENSG00000173818	ENDOV	346.80	-0.56	1.54E-02
ENSG00000159917	ZNF235	389.10	-0.56	1.54E-02
ENSG00000181322	NME9	29.22	-1.52	1.54E-02
ENSG00000114956	DGUOK	844.37	-0.48	1.54E-02
ENSG00000175106	TVP23C	389.52	0.63	1.54E-02
ENSG00000206561	COLQ	173.05	1.54	1.54E-02
ENSG00000124496	TRERF1	1723.83	0.91	1.54E-02
ENSG00000185291	IL3RA	496.91	-0.94	1.54E-02
ENSG0000014164	ZC3H3	1435.07	0.45	1.54E-02
ENSG00000101000	PROCR	57.47	-1.58	1.54E-02
ENSG00000204936	CD177	48.08	-2.80	1.54E-02
ENSG00000198585	NUDT16	562.27	1.38	1.55E-02
ENSG00000202125	RNU1-100P	32.34	1.12	1.55E-02
ENSG00000277443	MARCKS	15288.81	-2.08	1.55E-02
ENSG00000250571	GLI4	796.37	0.62	1.55E-02
ENSG00000257267	ZNF271P	771.78	-0.51	1.55E-02
ENSG00000095059	DHPS	1240.02	0.45	1.55E-02
ENSG00000177294	FBXO39	88.21	2.06	1.55E-02
ENSG00000117395	EBNA1BP2	430.10	-1.04	1.55E-02
ENSG0000024526	DEPDC1	30.92	-1.82	1.55E-02
ENSG00000134086	VHL	2359.78	-0.54	1.55E-02
ENSG00000146731	CCT6A	1642.32	-0.87	1.55E-02
ENSG00000166347	CYB5A	288.12	0.59	1.55E-02
ENSG00000170035	UBE2E3	721.85	-0.48	1.56E-02
ENSG00000183696	UPP1	3775.55	-0.67	1.56E-02
ENSG00000279996		102.77	-2.53	1.56E-02
ENSG00000206530	CFAP44	741.17	-0.51	1.56E-02
ENSG00000119844	AFTPH	2968.42	-0.57	1.56E-02
ENSG00000234518	PTGES3P1	286.09	1.14	1.56E-02
ENSG00000111335	OAS2	4954.94	1.81	1.57E-02
ENSG00000169217	CD2BP2	1842.29	-0.38	1.57E-02
ENSG00000138386	NAB1	2164.43	-1.25	1.57E-02

ENSG00000067369	TP53BP1	1832.24	-0.57	1.57E-02
ENSG00000254995	STX16-NPEPL1	238.71	1.08	1.57E-02
ENSG00000167635	ZNF146	1329.83	-0.71	1.57E-02
ENSG00000232648	ING2-DT	36.54	-1.24	1.58E-02
ENSG00000225218		74.16	0.89	1.58E-02
ENSG00000133703	KRAS	2363.61	-0.74	1.58E-02
ENSG00000169814	BTD	268.24	0.69	1.58E-02
ENSG00000171169	NAIF1	347.91	0.57	1.59E-02
ENSG00000132635	PCED1A	979.83	0.76	1.59E-02
ENSG00000171246	NPTX1	45.63	-2.84	1.59E-02
ENSG00000271749		20.54	-2.01	1.59E-02
ENSG00000136986	DERL1	1939.16	0.32	1.59E-02
ENSG00000258315	C17orf49	163.63	0.70	1.59E-02
ENSG00000135821	GLUL	22067.90	1.09	1.60E-02
ENSG00000137842	TMEM62	564.13	0.83	1.60E-02
ENSG00000179476	C14orf28	161.28	0.60	1.60E-02
ENSG00000138767	CNOT6L	9120.10	-0.73	1.60E-02
ENSG00000198853	RUSC2	355.89	-0.86	1.60E-02
ENSG00000259354		795.48	-3.15	1.60E-02
ENSG00000269952		97.57	-1.91	1.60E-02
ENSG00000204103	MAFB	7514.17	-2.12	1.60E-02
ENSG00000088256	GNA11	159.81	-0.72	1.60E-02
ENSG00000276980		78.73	-4.24	1.60E-02
ENSG00000066279	ASPM	235.93	-1.30	1.60E-02
ENSG00000184988	TMEM106A	1189.90	-1.44	1.60E-02
ENSG00000196358	NTNG2	1806.02	1.29	1.60E-02
ENSG00000157077	ZFYVE9	219.39	-0.53	1.60E-02
ENSG00000077721	UBE2A	1183.51	-0.42	1.60E-02
ENSG00000163686	ABHD6	232.21	-0.71	1.61E-02
ENSG00000272142		16.99	1.43	1.61E-02
ENSG00000196876	SCN8A	51.42	-1.05	1.61E-02
ENSG00000119720	NRDE2	1425.06	0.40	1.61E-02
ENSG00000231187	SYT15-AS1	8.68	2.68	1.61E-02
ENSG00000138780	GSTCD	171.54	0.52	1.61E-02
ENSG00000257337	TNS2-AS1	59.47	1.86	1.61E-02
ENSG00000100299	ARSA	985.58	0.57	1.61E-02
ENSG00000181004	BBS12	115.24	-1.19	1.61E-02
ENSG00000143344	RGL1	1686.18	-3.13	1.62E-02
ENSG00000145416	MARCHF1	1280.77	1.27	1.62E-02
ENSG00000236567	TCF3P1	140.63	0.94	1.62E-02
ENSG00000125457	MIF4GD	475.09	0.74	1.62E-02
ENSG00000107902	LHPP	461.47	0.68	1.62E-02
ENSG00000089177	KIF16B	402.51	0.66	1.62E-02
ENSG00000271895	NA	91.05	0.99	1.62E-02
ENSG00000004534	RBM6	2640.41	-0.47	1.62E-02
ENSG00000006695	COX10	393.53	0.36	1.63E-02
ENSG00000233093	LINC00892	29.74	1.69	1.63E-02
ENSG00000102890	ELMO3	245.71	-1.01	1.63E-02
ENSG00000101152	DNAJC5	4734.08	-0.75	1.63E-02
ENSG00000263786		52.06	1.23	1.63E-02

ENSG00000185262	UBALD2	3439.14	0.77	1.64E-02
ENSG00000166068	SPRED1	336.93	-1.78	1.64E-02
ENSG00000115232	ITGA4	5786.57	0.74	1.64E-02
ENSG00000147383	NSDHL	188.73	-0.77	1.64E-02
ENSG00000168040	FADD	795.99	-0.64	1.64E-02
ENSG00000125826	RBCK1	2905.47	0.61	1.64E-02
ENSG00000171148	TADA3	1511.76	0.46	1.64E-02
ENSG00000138778	CENPE	251.70	-1.23	1.64E-02
ENSG00000137460	FHDC1	288.59	-1.90	1.65E-02
ENSG00000092094	OSGEP	786.98	-0.45	1.65E-02
ENSG00000118855	MFSD1	2367.09	-0.70	1.65E-02
ENSG00000155438	NIFK	649.57	-0.64	1.65E-02
ENSG00000182718	ANXA2	5029.96	-0.89	1.65E-02
ENSG00000172794	RAB37	1343.02	1.15	1.65E-02
ENSG00000164066	INTU	17.06	1.98	1.65E-02
ENSG00000163872	YEATS2	1335.28	0.43	1.65E-02
ENSG00000181963	OR52K2	89.16	-2.32	1.65E-02
ENSG00000276248		122.26	-1.45	1.65E-02
ENSG00000271605	MILR1	603.95	-1.67	1.65E-02
ENSG00000142065	ZFP14	545.59	-0.47	1.65E-02
ENSG00000145103	ILDR1	12.82	1.87	1.66E-02
ENSG00000141380	SS18	2429.90	-0.66	1.66E-02
ENSG00000077147	TM9SF3	3824.52	-0.57	1.66E-02
ENSG00000165416	SUGT1	1334.70	-0.38	1.66E-02
ENSG00000242372	EIF6	814.44	-0.69	1.66E-02
ENSG00000165417	GTF2A1	1566.88	-0.74	1.67E-02
ENSG00000162490	DRAXIN	70.39	-1.26	1.67E-02
ENSG00000251194		470.89	-0.76	1.67E-02
ENSG00000075239	ACAT1	308.30	0.61	1.67E-02
ENSG00000126653	NSRP1	602.81	-0.45	1.67E-02
ENSG00000049246	PER3	197.93	1.24	1.67E-02
ENSG00000146250	PRSS35	22.60	-2.33	1.67E-02
ENSG00000182782	HCAR2	2831.56	1.64	1.67E-02
ENSG00000166949	SMAD3	4428.45	-0.71	1.67E-02
ENSG00000134108	ARL8B	2884.31	-0.73	1.68E-02
ENSG00000259935		126.46	-0.98	1.68E-02
ENSG00000265713		49.54	-1.14	1.68E-02
ENSG00000110011	DNAJC4	599.96	0.67	1.68E-02
ENSG00000145882	PCYOX1L	828.03	0.37	1.68E-02
ENSG00000014914	MTMR11	157.32	-1.09	1.68E-02
ENSG00000138496	PARP9	5529.78	1.38	1.68E-02
ENSG00000138801	PAPSS1	951.42	-0.71	1.68E-02
ENSG00000107719	PALD1	64.72	-2.00	1.68E-02
ENSG00000211871	TRAJ18	140.63	-0.94	1.68E-02
ENSG00000269444		35.16	1.26	1.68E-02
ENSG00000270562		104.05	-1.48	1.68E-02
ENSG00000241399	CD302	618.84	1.85	1.68E-02
ENSG00000174529	TMEM81	110.72	-0.91	1.69E-02
ENSG00000200648	RNU6-226P	17.23	2.45	1.69E-02
ENSG00000256092	SBNO1-AS1	29.47	1.32	1.69E-02

ENSG00000103227	LMF1	753.90	0.59	1.69E-02
ENSG00000172264	MACROD2	34.45	2.14	1.69E-02
ENSG00000085465	OVGP1	80.20	1.79	1.70E-02
ENSG00000238446	RNU7-38P	35.05	-1.59	1.70E-02
ENSG00000271327		21.38	-2.70	1.70E-02
ENSG00000242175	RN7SL127P	28.02	-1.41	1.71E-02
ENSG00000145194	ECE2	73.97	-1.33	1.71E-02
ENSG00000073605	GSDMB	1147.96	0.55	1.71E-02
ENSG00000115241	PPM1G	1106.31	-0.46	1.71E-02
ENSG00000237576	LINC01888	56.60	1.29	1.71E-02
ENSG00000100600	LGMN	1506.23	-2.50	1.71E-02
ENSG00000174628	IQCK	21.94	1.47	1.71E-02
ENSG00000273702		67.10	1.19	1.71E-02
ENSG00000118503	TNFAIP3	27399.08	-1.16	1.72E-02
ENSG00000154330	PGM5	29.65	2.99	1.72E-02
ENSG00000143546	S100A8	14863.61	-1.46	1.72E-02
ENSG00000107404	DVL1	909.94	-0.54	1.72E-02
ENSG00000015475	BID	4028.37	-1.13	1.72E-02
ENSG00000181704	YIPF6	1105.20	-0.60	1.73E-02
ENSG00000197061	H4C3	915.06	-1.21	1.73E-02
ENSG00000112759	SLC29A1	237.93	1.17	1.73E-02
ENSG00000242756	RHOT1P3	23.05	-2.02	1.73E-02
ENSG00000197562	RAB40C	486.45	0.69	1.73E-02
ENSG00000106609	TMEM248	2322.78	-0.27	1.74E-02
ENSG00000163508	EOMES	891.68	-1.21	1.74E-02
ENSG00000253210	DENND3-AS1	154.94	-1.19	1.74E-02
ENSG00000130518	IQCN	1405.70	0.83	1.74E-02
ENSG00000275693		30.74	1.41	1.74E-02
ENSG00000137601	NEK1	942.72	-0.61	1.74E-02
ENSG00000275569		21.01	1.78	1.74E-02
ENSG00000260135	MMP2-AS1	343.12	-3.38	1.74E-02
ENSG00000265879	MIR4748	27.79	-1.42	1.74E-02
ENSG00000168137	SETD5	4529.24	-0.70	1.75E-02
ENSG00000187514	PTMA	11709.03	-0.49	1.75E-02
ENSG00000162493	PDPN	29.22	-3.65	1.75E-02
ENSG00000158985	CDC42SE2	9206.21	0.34	1.75E-02
ENSG00000207574	MIR661	14.17	-2.07	1.75E-02
ENSG00000172878	METAP1D	110.63	1.02	1.75E-02
ENSG00000282978		73.26	-1.38	1.76E-02
ENSG00000177981	ASB8	1077.73	0.34	1.76E-02
ENSG00000051108	HERPUD1	3396.76	0.58	1.76E-02
ENSG00000143878	RHOB	2392.67	-1.20	1.76E-02
ENSG00000163131	CTSS	18276.50	1.24	1.76E-02
ENSG00000139350	NEDD1	837.01	0.38	1.76E-02
ENSG00000235018		27.88	-1.45	1.76E-02
ENSG00000242578		21.26	-3.00	1.77E-02
ENSG00000164266	SPINK1	93.21	-4.74	1.77E-02
ENSG00000100403	ZC3H7B	1993.30	0.35	1.77E-02
ENSG00000187778	MCRS1	975.30	0.40	1.77E-02
ENSG00000157601	MX1	8303.95	2.20	1.77E-02

ENSG00000144674	GOLGA4	3408.44	-0.31	1.77E-02
ENSG00000163930	BAP1	2089.27	0.40	1.77E-02
ENSG00000232815	DUX4L50	14.30	2.24	1.77E-02
ENSG00000170779	CDCA4	478.41	-0.57	1.77E-02
ENSG00000135269	TES	2290.73	-0.41	1.78E-02
ENSG00000072682	P4HA2	72.64	-1.34	1.78E-02
ENSG00000130589	HELZ2	7931.64	1.33	1.78E-02
ENSG00000158423	RIBC1	22.53	1.34	1.78E-02
ENSG00000162889	MAPKAPK2	5145.47	-0.65	1.79E-02
ENSG00000165060	FXN	218.26	0.77	1.79E-02
ENSG00000170906	NDUFA3	297.54	-0.47	1.79E-02
ENSG00000114383	TUSC2	633.37	-0.70	1.80E-02
ENSG00000204351	SKIV2L	1874.49	0.44	1.80E-02
ENSG00000164465	DCBLD1	199.06	-0.61	1.80E-02
ENSG00000164683	HEY1	123.46	-1.78	1.80E-02
ENSG00000250950		119.95	1.18	1.80E-02
ENSG00000137713	PPP2R1B	1024.68	-0.33	1.80E-02
ENSG00000283930	PLD5P1	97.71	-1.32	1.80E-02
ENSG00000113845	TIMMDC1	858.18	-0.43	1.80E-02
ENSG00000163312	HELQ	849.54	-0.28	1.81E-02
ENSG00000276600	RAB7B	305.26	-4.77	1.81E-02
ENSG0000013523	ANGEL1	1048.78	0.36	1.81E-02
ENSG00000250878	METTL21EP	61.60	-0.98	1.81E-02
ENSG00000118217	ATF6	2600.98	0.43	1.82E-02
ENSG00000134001	EIF2S1	1361.33	-0.93	1.82E-02
ENSG00000165714	BORCS5	981.50	-0.49	1.83E-02
ENSG00000162086	ZNF75A	1168.12	0.40	1.83E-02
ENSG00000141452	RMC1	992.97	0.38	1.83E-02
ENSG00000134042	MRO	49.10	-6.17	1.83E-02
ENSG00000140463	BBS4	490.58	-0.67	1.83E-02
ENSG00000254004	ZNF260	519.12	-0.73	1.83E-02
ENSG00000135926	TMBIM1	4689.16	-1.03	1.83E-02
ENSG00000140092	FBLN5	154.70	-1.42	1.83E-02
ENSG00000068137	PLEKHH3	21.05	2.57	1.83E-02
ENSG00000111802	TDP2	2686.12	-0.74	1.84E-02
ENSG00000168496	FEN1	190.42	0.69	1.84E-02
ENSG00000140836	ZFHX3	381.68	0.93	1.84E-02
ENSG00000263002	ZNF234	470.26	-1.09	1.84E-02
ENSG00000108960	MMD	736.56	1.07	1.84E-02
ENSG00000168243	GNG4	19.66	-2.44	1.84E-02
ENSG00000168334	XIRP1	5.09	4.37	1.84E-02
ENSG00000106638	TBL2	905.53	-0.96	1.84E-02
ENSG00000115310	RTN4	4557.09	-0.68	1.84E-02
ENSG00000260314	MRC1	257.80	2.39	1.84E-02
ENSG00000159128	IFNGR2	6011.49	-1.45	1.84E-02
ENSG00000263464	NA	36.31	-1.47	1.84E-02
ENSG00000074410	CA12	90.99	-3.04	1.85E-02
ENSG00000141753	IGFBP4	247.63	-0.95	1.85E-02
ENSG00000203865	ATP1A1-AS1	147.22	-1.16	1.85E-02
ENSG00000174123	TLR10	312.90	0.95	1.85E-02

ENSG00000135541	AHI1	766.28	-0.97	1.85E-02
ENSG00000103024	NME3	487.82	0.87	1.85E-02
ENSG00000248476	BACH1-IT1	230.15	-0.83	1.85E-02
ENSG00000134871	COL4A2	55.56	1.92	1.86E-02
ENSG00000110395	CBL	4437.71	-0.86	1.86E-02
ENSG00000170113	NIPA1	557.89	-0.35	1.86E-02
ENSG00000122484	RPAP2	1703.85	-0.40	1.86E-02
ENSG00000094914	AAAS	530.87	0.36	1.86E-02
ENSG00000102967	DHODH	203.44	0.61	1.86E-02
ENSG00000092871	RFFL	3737.32	-0.83	1.86E-02
ENSG00000249115	HAUS5	402.19	0.66	1.86E-02
ENSG00000239653	PSMD6-AS2	802.11	0.76	1.87E-02
ENSG00000165646	SLC18A2	65.22	-1.23	1.87E-02
ENSG00000137628	DDX60	3280.27	1.58	1.88E-02
ENSG00000228393	LINC01004	162.85	-0.69	1.88E-02
ENSG00000250138		242.11	2.38	1.88E-02
ENSG00000134326	CMPK2	1742.81	2.33	1.88E-02
ENSG00000272501		772.38	0.76	1.88E-02
ENSG00000131747	TOP2A	244.01	-1.28	1.88E-02
ENSG00000013297	CLDN11	28.93	-3.22	1.89E-02
ENSG00000184106	TREML3P	111.57	-1.57	1.89E-02
ENSG00000075826	SEC31B	821.49	0.89	1.89E-02
ENSG00000012963	UBR7	388.71	0.43	1.89E-02
ENSG00000007255	TRAPPC6A	465.00	0.84	1.89E-02
ENSG00000273451		63.79	-1.14	1.90E-02
ENSG00000088205	DDX18	2380.66	-0.39	1.91E-02
ENSG00000116539	ASH1L	6610.13	-0.27	1.91E-02
ENSG00000164086	DUSP7	769.44	0.47	1.92E-02
ENSG00000237190	CDKN2AIPNL	213.75	0.61	1.92E-02
ENSG00000284052		191.34	-1.28	1.92E-02
ENSG00000211690	TRGJ1	20.35	-1.73	1.92E-02
ENSG00000223361	FTH1P10	54.12	-1.51	1.92E-02
ENSG00000204287	HLA-DRA	16942.07	0.78	1.92E-02
ENSG00000089558	KCNH4	734.96	-4.36	1.92E-02
ENSG00000267278	MAP3K14-AS1	333.85	-0.68	1.92E-02
ENSG00000101331	CCM2L	132.26	-3.93	1.92E-02
ENSG00000275183	LENG9	163.87	0.85	1.92E-02
ENSG00000112062	MAPK14	3555.25	0.54	1.92E-02
ENSG00000076382	SPAG5	136.10	-0.75	1.92E-02
ENSG00000164850	GPER1	10.01	3.09	1.92E-02
ENSG00000000938	FGR	11004.82	-1.06	1.92E-02
ENSG00000214063	TSPAN4	142.99	1.38	1.92E-02
ENSG00000099284	MACROH2A2	109.53	-0.69	1.92E-02
ENSG00000198246	SLC29A3	219.40	0.62	1.92E-02
ENSG00000255966	GAPDH-DT	22.40	-1.21	1.92E-02
ENSG00000101624	CEP76	193.35	-0.49	1.92E-02
ENSG00000202150	RNU6-407P	36.62	-1.26	1.92E-02
ENSG00000105122	RASAL3	3647.03	-0.59	1.92E-02
ENSG00000264743	DPRXP4	69.08	-1.22	1.92E-02
ENSG00000237525		9.87	-4.07	1.93E-02

ENSG00000234584		16.86	-1.55	1.93E-02
ENSG00000157593	SLC35B2	1099.96	-1.09	1.93E-02
ENSG00000130545	CRB3	27.97	1.18	1.93E-02
ENSG00000011198	ABHD5	984.01	1.04	1.93E-02
ENSG00000167578	RAB4B	319.26	0.42	1.93E-02
ENSG00000169679	BUB1	158.76	-1.09	1.93E-02
ENSG00000160094	ZNF362	533.09	0.75	1.93E-02
ENSG00000170417	TMEM182	82.45	0.72	1.94E-02
ENSG00000246985	SOCS2-AS1	34.69	1.33	1.94E-02
ENSG00000026652	AGPAT4	1314.09	-0.77	1.94E-02
ENSG00000089248	ERP29	1674.56	0.63	1.94E-02
ENSG00000134057	CCNB1	182.38	-1.30	1.94E-02
ENSG00000047621	C12orf4	564.55	0.56	1.94E-02
ENSG00000180008	SOCS4	1229.41	-0.50	1.95E-02
ENSG00000084623	EIF3I	1765.07	-0.44	1.95E-02
ENSG00000228506	PNISR-AS1	197.64	0.73	1.95E-02
ENSG00000243280		20.17	1.35	1.95E-02
ENSG00000245848	CEBPA	585.08	1.10	1.96E-02
ENSG00000229484	LINC02766	15.58	2.17	1.96E-02
ENSG00000091527	CDV3	5407.20	-0.38	1.96E-02
ENSG00000251364	SYT9-AS1	244.22	0.74	1.96E-02
ENSG00000224066		145.29	1.09	1.96E-02
ENSG00000114127	XRN1	6246.91	0.61	1.96E-02
ENSG00000214894	LINC00243	568.23	-0.91	1.96E-02
ENSG00000112078	KCTD20	2835.46	-0.52	1.96E-02
ENSG00000198707	CEP290	800.22	-0.45	1.96E-02
ENSG00000070423	RNF126	1284.73	0.69	1.96E-02
ENSG00000055732	MCOLN3	19.20	1.89	1.96E-02
ENSG00000273004		158.23	-1.29	1.96E-02
ENSG00000080345	RIF1	5500.17	-0.66	1.96E-02
ENSG00000187231	SESTD1	952.67	0.70	1.96E-02
ENSG00000152784	PRDM8	624.71	-0.95	1.96E-02
ENSG00000187808	SOWAHD	106.57	-1.65	1.96E-02
ENSG00000146556	WASH2P	439.10	0.49	1.96E-02
ENSG00000119139	TJP2	306.98	1.05	1.96E-02
ENSG00000196778	OR52K1	29.25	-2.71	1.96E-02
ENSG00000126814	TRMT5	269.85	-1.26	1.96E-02
ENSG00000153786	ZDHHC7	2077.21	-0.39	1.96E-02
ENSG00000268518		18.10	-2.11	1.96E-02
ENSG00000160712	IL6R	5876.94	-0.77	1.96E-02
ENSG00000078589	P2RY10	1591.06	-0.67	1.96E-02
ENSG00000168005	SPINDOC	298.39	-0.57	1.96E-02
ENSG00000185753	CXorf38	1791.05	-0.44	1.96E-02
ENSG00000274184		29.59	-2.12	1.97E-02
ENSG00000010256	UQCRC1	1701.70	-0.43	1.98E-02
ENSG00000088538	DOCK3	178.29	0.96	1.98E-02
ENSG00000078668	VDAC3	1181.25	0.44	1.98E-02
ENSG00000149798	CDC42EP2	913.27	-1.66	1.98E-02
ENSG00000130768	SMPDL3B	37.14	-1.78	1.98E-02
ENSG00000145817	YIPF5	874.99	-0.73	1.98E-02

ENSG00000269821	KCNQ1OT1	993.77	-0.83	1.98E-02
ENSG00000131323	TRAF3	4222.06	-1.25	1.98E-02
ENSG00000109881	CCDC34	50.09	-1.09	1.98E-02
ENSG00000101997	CCDC22	559.38	0.42	1.99E-02
ENSG00000004660	CAMKK1	838.21	-1.28	1.99E-02
ENSG00000166579	NDEL1	4057.11	0.57	1.99E-02
ENSG00000125144	MT1G	47.98	-3.90	1.99E-02
ENSG00000211877	TRAJ12	194.18	-0.87	1.99E-02
ENSG00000204574	ABCF1	1569.89	-0.74	1.99E-02
ENSG00000104679	R3HCC1	532.91	0.63	1.99E-02
ENSG00000255438		15.79	5.04	2.00E-02
ENSG00000124102	PI3	6888.86	-3.70	2.00E-02
ENSG00000063245	EPN1	2512.29	0.36	2.00E-02
ENSG00000157911	PEX10	290.70	0.56	2.00E-02
ENSG00000155254	MARVELD1	117.54	1.51	2.00E-02
ENSG00000182185	RAD51B	501.77	0.51	2.00E-02
ENSG00000204475	NCR3	102.50	1.90	2.01E-02
ENSG00000277728		41.86	-1.31	2.01E-02
ENSG00000175029	CTBP2	1618.15	-0.74	2.01E-02
ENSG00000128016	ZFP36	8901.64	0.74	2.01E-02
ENSG00000096968	JAK2	2618.16	0.72	2.02E-02
ENSG00000112763	BTN2A1	2664.92	-0.62	2.02E-02
ENSG00000182983	ZNF662	60.30	1.13	2.02E-02
ENSG00000067829	IDH3G	862.41	0.46	2.02E-02
ENSG00000226644		17.92	-2.31	2.02E-02
ENSG00000090060	PAPOLA	7632.12	-0.39	2.02E-02
ENSG00000051341	POLQ	107.44	-1.16	2.02E-02
ENSG00000171843	MLLT3	1520.86	-0.49	2.02E-02
ENSG00000050426	LETMD1	1097.12	0.25	2.02E-02
ENSG00000005206	SPPL2B	1339.16	-0.55	2.02E-02
ENSG00000216035	MIR938	14.06	-1.72	2.03E-02
ENSG00000107864	CPEB3	325.64	0.56	2.03E-02
ENSG00000169018	FEM1B	2173.66	0.31	2.04E-02
ENSG00000259529		234.56	0.99	2.04E-02
ENSG00000232533	FAM131B-AS2	163.83	-0.75	2.04E-02
ENSG00000161714	PLCD3	59.64	-1.14	2.04E-02
ENSG00000088543	C3orf18	214.07	1.03	2.04E-02
ENSG00000241839	PLEKHO2	6575.47	-1.29	2.04E-02
ENSG00000253719	ATXN7L3B	2464.41	0.39	2.05E-02
ENSG00000117519	CNN3	120.45	-0.90	2.05E-02
ENSG00000204592	HLA-E	54350.29	0.40	2.05E-02
ENSG00000257365	FNTB	100.71	0.79	2.05E-02
ENSG00000109066	TMEM104	620.21	0.71	2.06E-02
ENSG00000101166	PRELID3B	1078.25	-0.51	2.06E-02
ENSG00000049089	COL9A2	346.36	1.21	2.06E-02
ENSG00000070614	NDST1	1633.29	-0.98	2.06E-02
ENSG00000147324	MFHAS1	961.10	0.54	2.06E-02
ENSG00000138463	SLC49A4	832.64	0.80	2.06E-02
ENSG00000230551		1892.17	-0.48	2.06E-02
ENSG00000149403	GRIK4	25.08	2.64	2.06E-02

ENSG00000092010	PSME1	3925.61	0.70	2.06E-02
ENSG00000199730	RN7SKP95	55.03	-1.13	2.06E-02
ENSG00000260592		689.78	-1.96	2.06E-02
ENSG00000076662	ICAM3	5076.90	0.65	2.06E-02
ENSG00000111537	IFNG	397.37	3.44	2.06E-02
ENSG00000155849	ELMO1	3200.38	0.45	2.06E-02
ENSG00000219626	FAM228B	411.44	0.59	2.06E-02
ENSG00000113312	TTC1	811.65	-0.38	2.06E-02
ENSG00000146072	TNFRSF21	247.64	-1.61	2.06E-02
ENSG00000255559	ZNF252P-AS1	90.77	-0.86	2.06E-02
ENSG00000262823		53.59	-0.89	2.06E-02
ENSG00000075240	GRAMD4	958.78	0.67	2.06E-02
ENSG00000160191	PDE9A	189.71	-0.77	2.06E-02
ENSG00000160233	LRRC3	95.12	1.08	2.06E-02
ENSG00000185168	LINC00482	18.59	-1.79	2.06E-02
ENSG00000268598	VN1R80P	20.35	-1.83	2.06E-02
ENSG00000138592	USP8	2837.44	-0.37	2.06E-02
ENSG00000025293	PHF20	2723.08	-0.46	2.07E-02
ENSG00000231551	PDE4DIPP6	138.30	-1.53	2.07E-02
ENSG00000141068	KSR1	1990.23	0.85	2.07E-02
ENSG00000157450	RNF111	1949.00	-0.37	2.07E-02
ENSG00000267046	E2F3P1	15.84	-1.81	2.07E-02
ENSG00000113716	HMGXB3	1775.66	-0.43	2.08E-02
ENSG00000111850	SMIM8	340.26	0.59	2.08E-02
ENSG00000126226	PCID2	1573.76	-0.57	2.08E-02
ENSG00000130590	SAMD10	195.64	1.14	2.09E-02
ENSG00000275895		415.71	1.06	2.09E-02
ENSG00000281344	HELLPAR	115.55	-0.76	2.10E-02
ENSG00000259658	UBE2Q2P13	65.34	0.84	2.10E-02
ENSG00000169105	CHST14	211.52	0.67	2.10E-02
ENSG00000132792	CTNBL1	1012.62	-0.43	2.10E-02
ENSG00000186862	PDZD7	24.49	1.38	2.10E-02
ENSG00000185129	PURA	2124.46	-0.41	2.10E-02
ENSG00000111731	C2CD5	1893.58	-0.59	2.11E-02
ENSG00000198039	ZNF273	265.28	0.58	2.11E-02
ENSG00000265241	RBM8A	2363.08	-0.37	2.11E-02
ENSG00000188566	NDOR1	686.40	0.48	2.11E-02
ENSG00000140009	ESR2	116.07	-1.98	2.11E-02
ENSG00000143167	GPA33	423.99	-0.70	2.12E-02
ENSG00000259945		22.40	-1.54	2.12E-02
ENSG00000138030	KHK	72.45	0.93	2.12E-02
ENSG00000130479	MAP1S	1174.88	-0.90	2.12E-02
ENSG00000138744	NAAA	1022.95	0.96	2.13E-02
ENSG00000009844	VTA1	1023.73	-0.57	2.13E-02
ENSG00000129473	BCL2L2	219.05	-0.53	2.14E-02
ENSG00000176928	GCNT4	823.90	-0.96	2.14E-02
ENSG00000186583	SPATC1	458.58	-3.31	2.14E-02
ENSG00000237272	OR51R1P	92.27	-2.24	2.14E-02
ENSG00000150779	TIMM8B	354.83	-0.76	2.14E-02
ENSG00000169100	SLC25A6	5728.27	0.65	2.14E-02

ENSG00000274588	DGKK	30.70	2.50	2.14E-02
ENSG00000140386	SCAPER	1137.93	0.56	2.14E-02
ENSG00000260267		768.71	0.46	2.14E-02
ENSG00000138594	TMOD3	3289.88	-0.40	2.14E-02
ENSG00000165716	DIPK1B	89.06	-1.07	2.15E-02
ENSG00000236409	NRADDP	33.38	-1.39	2.15E-02
ENSG00000212123	PRR22	38.76	0.95	2.15E-02
ENSG00000215838		13.89	-1.60	2.16E-02
ENSG00000224356		78.84	0.98	2.16E-02
ENSG00000235290	HLA-W	159.28	-1.77	2.17E-02
ENSG00000233850		77.58	1.05	2.17E-02
ENSG00000109756	RAPGEF2	2904.17	0.67	2.17E-02
ENSG00000272384		14.78	2.43	2.17E-02
ENSG00000139618	BRCA2	455.18	0.83	2.17E-02
ENSG00000140678	ITGAX	14710.99	-0.90	2.17E-02
ENSG00000180855	ZNF443	95.24	-0.66	2.17E-02
ENSG00000183662	TAFA1	23.21	2.58	2.17E-02
ENSG00000118412	CASP8AP2	1740.21	-0.39	2.17E-02
ENSG00000171729	TMEM51	175.58	-2.53	2.18E-02
ENSG00000139053	PDE6H	12.07	-2.12	2.18E-02
ENSG00000153406	NMRAL1	497.99	0.90	2.18E-02
ENSG00000267568		107.34	-2.01	2.18E-02
ENSG00000184441		161.11	1.06	2.18E-02
ENSG00000161149	TUBA3FP	20.51	-1.62	2.18E-02
ENSG00000162241	SLC25A45	957.86	0.65	2.19E-02
ENSG00000100342	APOL1	884.03	1.10	2.19E-02
ENSG00000173575	CHD2	10544.97	-0.44	2.19E-02
ENSG00000205927	OLIG2	80.71	-2.19	2.20E-02
ENSG00000172007	RAB33B	690.64	0.56	2.20E-02
ENSG00000059145	UNKL	1736.45	0.55	2.20E-02
ENSG00000039523	RIPOR1	2183.50	-0.96	2.20E-02
ENSG00000170043	TRAPPC1	961.27	0.55	2.21E-02
ENSG00000123066	MED13L	6641.90	0.46	2.22E-02
ENSG00000240527		74.74	1.45	2.23E-02
ENSG00000170522	ELOVL6	107.64	1.47	2.23E-02
ENSG00000077232	DNAJC10	2248.23	-0.61	2.23E-02
ENSG00000080854	IGSF9B	455.11	-1.06	2.24E-02
ENSG00000154640	BTG3	591.79	-0.67	2.24E-02
ENSG00000188295	ZNF669	256.61	0.62	2.24E-02
ENSG00000118473	SGIP1	27.02	-1.94	2.24E-02
ENSG00000147459	DOCK5	7562.60	-1.08	2.24E-02
ENSG00000162174	ASRGL1	126.77	1.35	2.24E-02
ENSG00000183496	MEX3B	77.15	-0.79	2.24E-02
ENSG00000225614	ZNF469	397.46	-0.67	2.25E-02
ENSG00000067221	STOML1	242.92	0.66	2.25E-02
ENSG00000140396	NCOA2	4044.81	0.46	2.25E-02
ENSG00000130772	MED18	421.57	-0.84	2.25E-02
ENSG00000101473	ACOT8	627.42	0.41	2.26E-02
ENSG00000179348	GATA2	597.96	0.95	2.26E-02
ENSG00000108439	PNPO	337.68	0.52	2.27E-02

ENSG00000253284		36.82	-1.13	2.27E-02
ENSG00000211800	TRAV20	31.52	-1.07	2.27E-02
ENSG00000269713	NBPF9	754.11	0.56	2.27E-02
ENSG00000132704	FCRL2	398.55	1.09	2.28E-02
ENSG00000161956	SENP3	365.37	-0.53	2.28E-02
ENSG00000175482	POLD4	625.13	-0.65	2.29E-02
ENSG00000128294	TPST2	1792.84	0.59	2.29E-02
ENSG00000180644	PRF1	4274.11	1.11	2.30E-02
ENSG00000107929	LARP4B	3778.08	-0.49	2.30E-02
ENSG00000158161	EYA3	1723.37	-0.85	2.30E-02
ENSG00000257803	PIGAP1	24.76	-2.19	2.30E-02
ENSG00000124164	VAPB	1387.33	-0.49	2.30E-02
ENSG00000166866	MYO1A	22.16	1.47	2.31E-02
ENSG00000173915	ATP5MK	667.01	-0.58	2.31E-02
ENSG00000100307	CBX7	4081.93	0.51	2.32E-02
ENSG00000174238	PITPNA	2772.34	-0.80	2.32E-02
ENSG00000135925	WNT10A	183.38	-1.43	2.32E-02
ENSG00000267519	MIR23AHG	1457.99	-1.05	2.33E-02
ENSG00000127334	DYRK2	5185.83	0.50	2.33E-02
ENSG00000260219	CD2BP2-DT	64.19	0.78	2.33E-02
ENSG00000112115	IL17A	15.17	6.32	2.33E-02
ENSG00000145715	RASA1	1724.29	-0.50	2.34E-02
ENSG00000249274	PDLIM1P4	79.67	-2.24	2.34E-02
ENSG00000178409	BEND3	114.48	-1.24	2.34E-02
ENSG00000282977	PCBP2-OT1	57.95	0.90	2.34E-02
ENSG00000278546		49.25	-2.45	2.34E-02
ENSG00000263366	ABHD17AP5	29.74	1.47	2.34E-02
ENSG00000131043	AAR2	640.01	0.44	2.34E-02
ENSG00000106636	YKT6	1655.24	-0.38	2.35E-02
ENSG00000260475	SLC25A28-DT	30.92	1.12	2.35E-02
ENSG00000154217	PITPNC1	2958.50	-0.36	2.35E-02
ENSG00000226240	LINC00381	24.74	1.41	2.35E-02
ENSG00000104814	MAP4K1	1295.54	0.74	2.35E-02
ENSG00000132155	RAF1	5732.84	0.42	2.36E-02
ENSG00000189266	PNRC2	3498.26	-0.40	2.36E-02
ENSG00000179967	PPP1R14BP3	78.49	-1.04	2.36E-02
ENSG00000140403	DNAJA4	810.24	-0.86	2.36E-02
ENSG00000197933	ZNF823	103.46	-0.65	2.37E-02
ENSG00000105568	PPP2R1A	3373.99	0.33	2.38E-02
ENSG00000111961	SASH1	432.85	-1.25	2.38E-02
ENSG00000119487	MAPKAP1	2065.54	-0.32	2.38E-02
ENSG00000138385	SSB	1280.62	-0.63	2.38E-02
ENSG00000211450	SELENOH	913.20	-0.58	2.38E-02
ENSG00000167483	NIBAN3	883.65	1.32	2.38E-02
ENSG00000279161		28.75	-1.36	2.38E-02
ENSG00000184492	FOXD4L1	22.62	-2.25	2.38E-02
ENSG00000225889		719.86	1.14	2.38E-02
ENSG00000122042	UBL3	2320.29	-0.38	2.38E-02
ENSG00000229474	PATL2	1191.07	0.78	2.38E-02
ENSG00000143106	PSMA5	1355.09	-0.49	2.38E-02

ENSG00000272375		21.32	-1.50	2.38E-02
ENSG00000004961	HCCS	347.03	-0.70	2.38E-02
ENSG00000122490	SLC66A2	1750.31	0.59	2.38E-02
ENSG00000214078	CPNE1	2964.76	0.26	2.39E-02
ENSG00000196182	STK40	5133.39	-0.88	2.39E-02
ENSG00000104643	MTMR9	1202.63	-0.30	2.39E-02
ENSG00000105497	ZNF175	407.53	-0.94	2.39E-02
ENSG00000104081	BMF	1325.45	0.97	2.39E-02
ENSG00000270379	HEATR9	119.34	-0.83	2.39E-02
ENSG00000259719	LINC02284	61.34	1.44	2.39E-02
ENSG00000059691	GATB	340.79	0.38	2.39E-02
ENSG00000240563	L1TD1	15.98	-2.38	2.40E-02
ENSG00000274267	NA	487.93	-1.68	2.40E-02
ENSG00000138134	STAMBPL1	911.97	0.47	2.40E-02
ENSG00000188649	CC2D2B	38.43	1.44	2.40E-02
ENSG00000259548		64.50	-1.81	2.40E-02
ENSG00000239672	NME1	251.60	-1.51	2.40E-02
ENSG00000160218	TRAPPC10	3463.89	-0.38	2.40E-02
ENSG00000278156	TSC22D1-AS1	79.69	-0.88	2.40E-02
ENSG00000035928	RFC1	1563.57	0.27	2.40E-02
ENSG00000142173	COL6A2	636.64	0.93	2.40E-02
ENSG00000169139	UBE2V2	626.96	-0.47	2.40E-02
ENSG00000135018	UBQLN1	4350.64	-0.35	2.40E-02
ENSG00000161202	DVL3	1836.94	-0.66	2.41E-02
ENSG00000138101	DTNB	600.66	0.53	2.41E-02
ENSG00000099282	TSPAN15	57.86	1.74	2.41E-02
ENSG00000100029	PES1	1039.50	-0.85	2.41E-02
ENSG00000112299	VNN1	336.76	1.97	2.42E-02
ENSG00000160014	CALM3	3942.67	0.55	2.42E-02
ENSG00000064547	LPAR2	1376.72	0.53	2.42E-02
ENSG00000134013	LOXL2	180.97	0.80	2.42E-02
ENSG00000101236	RNF24	3114.14	1.05	2.42E-02
ENSG00000105401	CDC37	2318.87	-0.49	2.42E-02
ENSG00000156239	N6AMT1	318.59	-0.80	2.42E-02
ENSG00000259834	NA	1311.50	0.53	2.43E-02
ENSG00000181315	ZNF322	424.23	-1.16	2.43E-02
ENSG00000186854	TRABD2A	1974.46	0.62	2.43E-02
ENSG00000171916	LGALS9C	44.34	1.72	2.43E-02
ENSG00000164463	CREBRF	4536.26	0.51	2.43E-02
ENSG00000137312	FLOT1	9440.57	-1.38	2.43E-02
ENSG00000125952	MAX	3918.48	0.33	2.44E-02
ENSG00000197548	ATG7	4837.15	-1.21	2.44E-02
ENSG00000072818	ACAP1	3841.55	0.90	2.44E-02
ENSG00000185359	HGS	2688.49	-0.36	2.45E-02
ENSG00000280798	LINC00294	370.06	-0.62	2.45E-02
ENSG00000272449		611.84	1.13	2.45E-02
ENSG00000168374	ARF4	1841.57	-0.55	2.45E-02
ENSG00000188641	DPYD	3024.98	0.64	2.46E-02
ENSG00000171940	ZNF217	5329.63	-0.68	2.47E-02
ENSG00000134369	NAV1	424.67	-0.87	2.47E-02

ENSG00000197520	FAM177B	105.91	-1.17	2.47E-02
ENSG00000185220	PGBD2	320.74	-0.79	2.47E-02
ENSG00000171295	ZNF440	457.71	0.41	2.47E-02
ENSG00000197622	CDC42SE1	15391.66	-0.30	2.47E-02
ENSG00000137831	UACA	56.63	1.56	2.47E-02
ENSG00000099341	PSMD8	1660.52	-0.43	2.47E-02
ENSG00000170100	ZNF778	598.18	-0.68	2.47E-02
ENSG00000106605	BLVRA	482.84	1.01	2.48E-02
ENSG00000023902	PLEKHO1	5250.04	-0.71	2.48E-02
ENSG00000185955	C7orf61	48.86	-1.14	2.48E-02
ENSG00000270210		57.57	-1.77	2.48E-02
ENSG00000162415	ZSWIM5	156.52	-0.62	2.48E-02
ENSG00000176903	PNMA1	761.65	-0.49	2.48E-02
ENSG00000099338	CATSPERG	308.44	0.69	2.48E-02
ENSG00000070669	ASNS	488.04	0.46	2.49E-02
ENSG00000139163	ETNK1	3811.45	-0.69	2.49E-02
ENSG00000187474	FPR3	1413.90	-4.29	2.49E-02
ENSG00000249222	ATP5MGL	34.44	1.32	2.49E-02
ENSG00000138639	ARHGAP24	428.80	0.65	2.49E-02
ENSG00000227145	IL21-AS1	18.80	2.24	2.49E-02
ENSG00000131437	KIF3A	421.03	-0.45	2.49E-02
ENSG00000267737		66.42	2.22	2.49E-02
ENSG00000282320	TRBJ1-1	23.09	-1.40	2.49E-02
ENSG00000125944	HNRNPR	2796.67	-0.33	2.49E-02
ENSG00000114416	FXR1	2541.28	-0.32	2.50E-02
ENSG00000137364	TPMT	454.78	-0.61	2.50E-02
ENSG00000078319	PMS2P1	305.38	0.59	2.50E-02
ENSG00000197063	MAFG	1854.89	-1.08	2.50E-02
ENSG00000100056	ESS2	572.80	0.37	2.50E-02
ENSG00000165572	KBTD6	359.70	-0.95	2.50E-02
ENSG00000265354	TIMM23	591.94	-0.45	2.50E-02
ENSG00000008128	CDK11A	225.12	0.77	2.51E-02
ENSG00000168300	PCMTD1	4570.04	-0.74	2.51E-02
ENSG00000135587	SMPD2	629.35	-0.74	2.51E-02
ENSG00000133106	EPSTI1	2612.65	1.53	2.51E-02
ENSG00000122257	RBBP6	3427.62	0.59	2.51E-02
ENSG00000188493	C19orf54	172.07	0.61	2.51E-02
ENSG00000204514	ZNF814	805.28	0.42	2.51E-02
ENSG00000169570	DTWD2	125.62	0.69	2.51E-02
ENSG00000221914	PPP2R2A	1875.04	-0.40	2.51E-02
ENSG00000171643	S100Z	52.47	1.83	2.51E-02
ENSG00000137274	BPHL	181.65	0.56	2.51E-02
ENSG00000173621	LRFN4	143.65	-0.90	2.51E-02
ENSG00000106780	MEGF9	4382.15	1.06	2.51E-02
ENSG00000009790	TRAF3IP3	6094.83	-0.47	2.51E-02
ENSG00000250274		568.14	-2.62	2.51E-02
ENSG00000107014	RLN2	30.04	-1.61	2.51E-02
ENSG00000121413	ZSCAN18	1157.40	0.50	2.51E-02
ENSG00000119673	ACOT2	162.89	0.74	2.52E-02
ENSG00000128245	YWHAH	942.50	-0.56	2.52E-02

ENSG00000117174	ZNHIT6	465.80	0.46	2.52E-02
ENSG00000184840	TMED9	1610.63	-0.55	2.52E-02
ENSG00000273148	LINC00653	112.11	0.98	2.53E-02
ENSG00000129911	KLF16	756.86	0.72	2.53E-02
ENSG00000173275	ZNF449	222.85	-0.60	2.54E-02
ENSG00000157014	TATDN2	1119.63	-0.35	2.54E-02
ENSG00000151470	C4orf33	244.30	0.89	2.54E-02
ENSG00000116991	SIPA1L2	1080.58	-0.80	2.54E-02
ENSG00000241057		27.47	1.05	2.55E-02
ENSG00000066422	ZBTB11	2086.28	-0.24	2.55E-02
ENSG00000264419	MIR548AC	55.17	-1.62	2.55E-02
ENSG00000112242	E2F3	1648.71	-0.93	2.55E-02
ENSG00000258819	LINC02289	183.87	3.16	2.55E-02
ENSG00000266970	SOCS3-DT	52.64	2.05	2.55E-02
ENSG00000250317	SMIM20	183.68	0.65	2.56E-02
ENSG00000042980	ADAM28	1492.78	-0.61	2.56E-02
ENSG00000242960	FTH1P23	15.28	-1.90	2.56E-02
ENSG00000172785	CBWD1	562.90	-0.61	2.56E-02
ENSG00000178700	DHFR2	307.39	-0.72	2.56E-02
ENSG00000225190	PLEKHM1	3357.49	0.35	2.56E-02
ENSG00000154319	FAM167A	166.00	-1.73	2.57E-02
ENSG00000155465	SLC7A7	2570.58	1.40	2.57E-02
ENSG00000152495	CAMK4	6016.78	-0.49	2.57E-02
ENSG00000106066	CPVL	769.31	1.72	2.57E-02
ENSG00000128512	DOCK4	6182.77	-2.16	2.57E-02
ENSG00000107949	BCCIP	695.48	-0.56	2.57E-02
ENSG00000126453	BCL2L12	194.67	0.57	2.57E-02
ENSG00000123329	ARHGAP9	6430.33	-0.48	2.59E-02
ENSG00000268499		30.22	-1.04	2.59E-02
ENSG00000136235	GPNMB	734.05	-3.30	2.60E-02
ENSG00000142546	NOSIP	1536.43	0.62	2.60E-02
ENSG00000266371		28.63	-1.83	2.60E-02
ENSG00000113163	CERT1	2385.58	-0.43	2.60E-02
ENSG00000251922		19.24	1.59	2.60E-02
ENSG00000111247	RAD51AP1	55.78	1.23	2.61E-02
ENSG00000143801	PSEN2	157.05	0.72	2.61E-02
ENSG00000107771	CCSER2	4178.03	-0.58	2.61E-02
ENSG00000076513	ANKRD13A	4740.58	0.56	2.61E-02
ENSG00000280047		124.22	-0.82	2.62E-02
ENSG00000176102	CSTF3	589.34	-0.46	2.62E-02
ENSG00000177613	CSTF2T	1608.34	0.51	2.62E-02
ENSG00000138640	FAM13A	551.97	1.22	2.62E-02
ENSG00000055483	USP36	3260.30	-0.54	2.62E-02
ENSG00000117480	FAAH	190.43	0.79	2.63E-02
ENSG00000217258	NA	15.93	1.37	2.63E-02
ENSG00000144040	SFXN5	608.56	0.72	2.63E-02
ENSG00000172667	ZMAT3	892.63	0.41	2.63E-02
ENSG00000072803	FBXW11	1534.62	-0.43	2.63E-02
ENSG00000171307	ZDHHC16	672.13	-0.66	2.63E-02
ENSG00000206028		15.26	1.34	2.63E-02

ENSG00000266538		102.24	0.83	2.63E-02
ENSG00000185591	SP1	4811.62	0.31	2.63E-02
ENSG00000205853	RFPL3S	33.38	1.13	2.64E-02
ENSG00000128886	ELL3	21.46	-1.76	2.64E-02
ENSG00000167094	TTC16	237.60	1.28	2.64E-02
ENSG00000163449	TMEM169	69.78	-0.79	2.64E-02
ENSG00000174697	LEP	31.78	2.46	2.64E-02
ENSG00000221817	PPP3CB-AS1	347.03	0.45	2.65E-02
ENSG00000240024	LINC00888	51.90	0.91	2.65E-02
ENSG00000197498	RPF2	368.65	-1.18	2.65E-02
ENSG00000182318	ZSCAN22	248.51	-1.09	2.65E-02
ENSG00000109685	NSD2	1822.69	-0.29	2.65E-02
ENSG00000158006	PAFAH2	684.63	-0.45	2.65E-02
ENSG00000127663	KDM4B	3766.26	0.63	2.65E-02
ENSG00000112851	ERBIN	11165.95	-0.52	2.65E-02
ENSG00000157240	FZD1	178.82	1.04	2.66E-02
ENSG00000145287	PLAC8	2946.66	1.03	2.66E-02
ENSG00000063180	CA11	143.61	-0.61	2.66E-02
ENSG00000116191	RALGPS2	1342.42	0.91	2.67E-02
ENSG00000173113	TRMT112	1001.02	-0.51	2.67E-02
ENSG00000099194	SCD	330.28	-1.33	2.67E-02
ENSG00000165525	NEMF	2459.29	-0.31	2.67E-02
ENSG00000140830	TXNL4B	521.20	-0.50	2.67E-02
ENSG00000283674		121.29	-0.96	2.67E-02
ENSG00000165724	ZMYND19	292.55	-0.63	2.67E-02
ENSG00000124191	TOX2	68.87	-0.94	2.67E-02
ENSG00000157456	CCNB2	41.70	-1.38	2.67E-02
ENSG00000261291		27.34	-1.75	2.67E-02
ENSG00000135093	USP30	300.79	0.73	2.67E-02
ENSG00000172057	ORMDL3	2057.00	0.60	2.67E-02
ENSG00000104738	MCM4	295.51	0.62	2.67E-02
ENSG00000234534	CSNK1G2P1	67.80	0.99	2.67E-02
ENSG00000233392	UICLM	61.43	2.98	2.68E-02
ENSG00000198113	TOR4A	1084.50	-0.77	2.68E-02
ENSG00000251637	LINC02754	60.34	-1.65	2.68E-02
ENSG00000228137		15.27	1.56	2.68E-02
ENSG00000241678		33.95	-1.07	2.69E-02
ENSG00000142864	SERBP1	3919.99	-0.46	2.69E-02
ENSG00000242265	PEG10	84.13	1.16	2.69E-02
ENSG00000281649	EBLN3P	2187.93	0.40	2.69E-02
ENSG00000111275	ALDH2	546.09	1.33	2.69E-02
ENSG00000242732	RTL5	181.16	-1.42	2.69E-02
ENSG00000154736	ADAMTSS	6.93	6.63	2.70E-02
ENSG00000170142	UBE2E1	1580.57	-0.70	2.71E-02
ENSG00000235192		54.81	1.12	2.72E-02
ENSG00000163507	CIP2A	166.26	0.74	2.72E-02
ENSG00000196152	ZNF79	436.78	-0.52	2.72E-02
ENSG00000186001	LRCH3	2489.87	-0.46	2.72E-02
ENSG00000185507	IRF7	3332.94	1.30	2.72E-02
ENSG00000134532	SOX5	47.98	-2.28	2.72E-02

ENSG00000164949	GEM	185.11	-2.33	2.72E-02
ENSG00000163625	WDFY3	4746.83	-1.03	2.72E-02
ENSG00000109458	GAB1	660.17	0.78	2.72E-02
ENSG00000157741	UBN2	2049.58	-0.64	2.73E-02
ENSG00000133317	LGALS12	252.39	-0.98	2.73E-02
ENSG00000137507	LRRC32	209.17	1.29	2.73E-02
ENSG00000140612	SEC11A	1408.81	-0.32	2.73E-02
ENSG00000155858	LSM11	206.53	-0.61	2.73E-02
ENSG00000211696	TRGV8	67.42	-1.15	2.73E-02
ENSG00000168259	DNAJC7	2143.45	-0.22	2.73E-02
ENSG00000184154	LRRC51	80.76	-1.29	2.73E-02
ENSG00000171612	SLC25A33	280.88	-0.64	2.73E-02
ENSG00000008056	SYN1	53.37	-2.39	2.73E-02
ENSG00000129534	MIS18BP1	1713.90	0.68	2.73E-02
ENSG00000167972	ABCA3	255.26	0.82	2.73E-02
ENSG00000196267	ZNF836	332.63	-0.55	2.73E-02
ENSG00000165092	ALDH1A1	117.81	2.20	2.74E-02
ENSG00000163947	ARHGEF3	2615.79	0.45	2.75E-02
ENSG00000092200	RPGRIP1	68.24	2.50	2.75E-02
ENSG00000113749	HRH2	742.95	1.81	2.75E-02
ENSG00000204791	SMPD5	192.15	-3.10	2.75E-02
ENSG00000074695	LMAN1	1582.47	0.47	2.75E-02
ENSG00000240474	RN7SL116P	161.62	-1.12	2.76E-02
ENSG00000151883	PARP8	8123.60	0.45	2.76E-02
ENSG00000074706	IPCEF1	1938.26	0.41	2.76E-02
ENSG00000188997	KCTD21	583.16	-1.36	2.76E-02
ENSG00000250091	DNAH10OS	99.20	-0.81	2.76E-02
ENSG00000078804	TP53INP2	866.06	1.01	2.76E-02
ENSG00000158869	FCER1G	3649.34	-1.03	2.76E-02
ENSG00000084693	AGBL5	289.99	0.49	2.76E-02
ENSG00000167549	CORO6	84.28	1.20	2.76E-02
ENSG00000106615	RHEB	1136.79	-0.43	2.77E-02
ENSG00000122862	SRGN	55836.87	-1.08	2.77E-02
ENSG00000129038	LOXL1	42.29	2.15	2.77E-02
ENSG00000167186	COQ7	270.09	0.63	2.77E-02
ENSG00000155393	HEATR3	596.38	0.46	2.77E-02
ENSG00000228097	MTATP6P11	39.04	1.28	2.79E-02
ENSG00000123094	RASSF8	39.37	-1.62	2.79E-02
ENSG00000132849	PATJ	1937.62	0.64	2.80E-02
ENSG00000107036	RIC1	2042.16	0.33	2.80E-02
ENSG00000100024	UPB1	1222.37	-1.90	2.80E-02
ENSG00000182973	CNOT10	914.45	-0.26	2.80E-02
ENSG00000258317		47.43	-1.14	2.80E-02
ENSG00000153531	ADPRHL1	51.49	-1.07	2.80E-02
ENSG00000264187		17.18	1.34	2.81E-02
ENSG00000102401	ARMCX3	959.87	-0.49	2.81E-02
ENSG00000100298	APOBEC3H	77.70	-1.19	2.81E-02
ENSG00000176946	THAP4	606.26	-0.46	2.81E-02
ENSG00000241357		64.00	0.86	2.81E-02
ENSG00000185043	CIB1	2224.01	-0.56	2.81E-02

ENSG00000087077	TRIP6	284.11	-0.91	2.81E-02
ENSG00000065060	UHRF1BP1	873.17	0.38	2.81E-02
ENSG00000268375		18.36	1.64	2.81E-02
ENSG00000106460	TMEM106B	1904.42	0.44	2.82E-02
ENSG00000104375	STK3	332.68	0.61	2.83E-02
ENSG00000277255	MIR7854	55.61	-1.56	2.83E-02
ENSG00000248503	C4orf46P2	61.10	-0.94	2.83E-02
ENSG00000198169	ZNF251	431.37	0.43	2.83E-02
ENSG00000085721	RRN3	1110.36	-0.42	2.83E-02
ENSG00000117362	APH1A	2356.78	0.37	2.84E-02
ENSG00000108179	PPIF	7551.34	-1.40	2.84E-02
ENSG00000116151	MORN1	318.19	0.49	2.84E-02
ENSG00000048052	HDAC9	438.17	1.78	2.84E-02
ENSG00000070915	SLC12A3	26.82	1.42	2.84E-02
ENSG00000105220	GPI	1587.32	0.42	2.84E-02
ENSG00000273174		33.45	1.97	2.85E-02
ENSG00000136371	MTHFS	235.15	-1.07	2.85E-02
ENSG00000161395	PGAP3	493.46	0.58	2.85E-02
ENSG00000180917	CMTR2	974.88	-0.60	2.85E-02
ENSG00000103522	IL21R	1729.77	-0.84	2.85E-02
ENSG00000199090	MIR326	47.23	-1.73	2.86E-02
ENSG00000204314	PRRT1	36.56	-0.93	2.86E-02
ENSG00000106692	FKN	363.58	0.47	2.86E-02
ENSG00000188690	UROS	632.57	0.35	2.86E-02
ENSG00000197323	TRIM33	3229.16	-0.33	2.86E-02
ENSG00000251450	RASGRF2-AS1	13.55	1.48	2.86E-02
ENSG00000161618	ALDH16A1	653.60	0.41	2.86E-02
ENSG00000256826	ATP5MFP4	14.51	-2.71	2.87E-02
ENSG00000188396	DYNLT4	61.84	1.30	2.87E-02
ENSG00000188158	NHS	96.02	2.53	2.87E-02
ENSG00000224610		28.46	-1.41	2.87E-02
ENSG00000163781	TOPBP1	1437.96	0.25	2.88E-02
ENSG00000267787		133.98	0.59	2.88E-02
ENSG00000123739	PLA2G12A	452.14	0.54	2.88E-02
ENSG00000186815	TPCN1	1626.82	0.62	2.90E-02
ENSG00000003509	NDUFAF7	511.69	-0.36	2.90E-02
ENSG00000147955	SIGMAR1	463.79	0.37	2.90E-02
ENSG00000198520	ARMH1	297.21	0.90	2.90E-02
ENSG00000205208	C4orf46	127.37	0.67	2.90E-02
ENSG00000224531	SMIM13	287.33	-0.74	2.90E-02
ENSG00000236859	NIFK-AS1	239.99	-0.72	2.90E-02
ENSG00000085449	WDFY1	2146.82	0.58	2.91E-02
ENSG00000127957	PMS2P3	406.22	-0.33	2.91E-02
ENSG00000100796	PPP4R3A	3984.39	-0.24	2.91E-02
ENSG00000174483	BBS1	65.94	-0.86	2.91E-02
ENSG00000007516	BAIAP3	280.29	1.52	2.91E-02
ENSG00000116209	TMEM59	3229.85	0.40	2.91E-02
ENSG00000166887	VPS39	2385.77	0.28	2.92E-02
ENSG00000184992	BRI3BP	453.47	0.61	2.92E-02
ENSG00000214787	MS4A4E	43.74	2.71	2.93E-02

ENSG00000248019	FAM13A-AS1	949.28	0.67	2.93E-02
ENSG00000145349	CAMK2D	1672.76	0.45	2.93E-02
ENSG00000175287	PHYHD1	26.34	1.11	2.93E-02
ENSG00000108175	ZMIZ1	4379.30	-0.99	2.93E-02
ENSG00000198093	ZNF649	450.30	-0.57	2.93E-02
ENSG00000204396	VWA7	28.11	1.53	2.94E-02
ENSG00000160703	NLRX1	410.55	0.75	2.94E-02
ENSG00000211867	TRAJ22	109.79	-0.94	2.94E-02
ENSG00000270061		59.34	-1.07	2.95E-02
ENSG00000249738		24.65	1.55	2.95E-02
ENSG00000230989	HSBP1	1394.50	-0.64	2.95E-02
ENSG00000261602		20.75	-1.63	2.96E-02
ENSG00000163482	STK36	334.09	-0.55	2.96E-02
ENSG00000164951	PDP1	1055.14	0.57	2.96E-02
ENSG00000277301		123.15	-0.93	2.96E-02
ENSG00000124785	NRN1	9.03	2.60	2.97E-02
ENSG00000110628	SLC22A18	682.05	0.84	2.97E-02
ENSG00000257303	CNPY2-AS1	19.72	-1.27	2.98E-02
ENSG00000223584	TVP23CP1	34.16	-1.36	2.98E-02
ENSG00000164692	COL1A2	4.77	-4.39	2.98E-02
ENSG00000274536	MIR223HG	3050.75	-1.67	2.98E-02
ENSG00000110080	ST3GAL4	497.29	0.98	2.99E-02
ENSG00000266088		22.31	1.32	2.99E-02
ENSG00000118680	MYL12B	4180.02	-0.58	2.99E-02
ENSG00000112576	CCND3	4375.87	0.78	2.99E-02
ENSG00000099219	ERMP1	918.49	-0.52	2.99E-02
ENSG00000122705	CLTA	1627.05	-0.74	3.00E-02
ENSG00000246334	PRR7-AS1	34.39	-1.23	3.00E-02
ENSG00000107672	NSMCE4A	714.40	0.46	3.01E-02
ENSG00000115286	NDUFS7	759.66	0.55	3.01E-02
ENSG00000224802	TUBB4BP2	25.95	-2.15	3.01E-02
ENSG00000065029	ZNF76	1253.50	0.27	3.02E-02
ENSG00000198182	ZNF607	206.37	-0.52	3.03E-02
ENSG00000271993		21.56	-1.59	3.03E-02
ENSG00000152475	ZNF837	72.34	0.86	3.03E-02
ENSG00000113088	GZMK	678.83	0.90	3.04E-02
ENSG00000166839	ANKDD1A	662.62	-1.41	3.04E-02
ENSG00000105662	CRTC1	905.58	0.60	3.04E-02
ENSG00000177917	ARL6IP6	567.54	0.44	3.04E-02
ENSG00000131558	EXOC4	1872.13	0.39	3.05E-02
ENSG00000200428		28.98	1.00	3.05E-02
ENSG00000235532	LINC00402	356.19	1.06	3.05E-02
ENSG00000138449	SLC40A1	1089.09	0.92	3.05E-02
ENSG00000175711	B3GNTL1	809.82	-0.69	3.06E-02
ENSG00000202392	RN7SKP292	41.39	1.18	3.06E-02
ENSG00000117322	CR2	129.54	1.09	3.07E-02
ENSG00000132341	RAN	2981.19	-0.69	3.07E-02
ENSG00000242048	PRKAG2-AS2	301.38	-3.12	3.07E-02
ENSG00000138080	EMILIN1	39.89	1.21	3.07E-02
ENSG00000117016	RIMS3	135.15	0.99	3.07E-02

ENSG00000135218	CD36	2870.62	-1.32	3.08E-02
ENSG00000207550	MIR99B	45.33	-1.83	3.08E-02
ENSG00000283602		89.51	-1.45	3.08E-02
ENSG00000166289	PLEKHF1	755.71	-0.84	3.09E-02
ENSG00000163702	IL17RC	45.23	2.39	3.09E-02
ENSG00000174370	KCNJ5-AS1	19.69	2.59	3.09E-02
ENSG00000233485	FHAD1-AS1	22.41	-1.98	3.10E-02
ENSG00000127415	IDUA	586.06	0.56	3.10E-02
ENSG00000197122	SRC	2941.05	-1.67	3.10E-02
ENSG00000079974	RABL2B	623.77	-0.36	3.10E-02
ENSG00000278272	NA	337.78	-1.47	3.11E-02
ENSG00000168904	LRRC28	395.59	0.45	3.11E-02
ENSG00000172059	KLF11	591.22	1.06	3.11E-02
ENSG00000143653	SCCPDH	370.90	0.69	3.11E-02
ENSG00000283341		91.89	-1.17	3.11E-02
ENSG00000147912	FBXO10	167.56	-0.92	3.12E-02
ENSG00000198920	KIAA0753	551.94	-0.47	3.12E-02
ENSG00000204764	RANBP17	98.37	-1.49	3.12E-02
ENSG00000122966	CIT	99.63	-0.92	3.13E-02
ENSG00000205755	CRLF2	181.53	-2.51	3.13E-02
ENSG00000280206		326.20	-0.64	3.13E-02
ENSG00000125753	VASP	12703.30	-0.99	3.13E-02
ENSG00000117560	FASLG	258.13	-1.83	3.13E-02
ENSG00000278727		18.99	-1.96	3.13E-02
ENSG00000131873	CHSY1	1571.97	-0.68	3.13E-02
ENSG00000146858	ZC3HAV1L	73.10	-1.14	3.14E-02
ENSG00000135077	HAVCR2	1448.02	-1.58	3.14E-02
ENSG00000278133		260.67	0.43	3.14E-02
ENSG00000167658	EEF2	34335.02	0.43	3.14E-02
ENSG00000258926		10.97	-2.54	3.14E-02
ENSG00000279584		44.45	1.36	3.15E-02
ENSG00000072952	IRAG1	808.61	-2.11	3.15E-02
ENSG00000279792		160.84	0.76	3.15E-02
ENSG00000261766		46.48	0.92	3.15E-02
ENSG00000182827	ACBD3	1159.21	-0.35	3.16E-02
ENSG00000118363	SPCS2	1284.19	-0.42	3.16E-02
ENSG00000167674	HDGFL2	562.76	0.65	3.16E-02
ENSG00000172053	QARS1	1781.60	0.53	3.18E-02
ENSG00000187815	ZFP69	124.03	0.58	3.18E-02
ENSG00000094880	CDC23	452.93	-0.37	3.19E-02
ENSG00000205746	PKD1P4	291.30	0.64	3.19E-02
ENSG00000065665	SEC61A2	339.03	0.74	3.19E-02
ENSG00000188342	GTF2F2	605.38	-0.33	3.20E-02
ENSG00000185361	TNFAIP8L1	958.13	-0.93	3.20E-02
ENSG00000262621	NA	71.21	0.80	3.21E-02
ENSG00000272540		51.70	-1.99	3.21E-02
ENSG00000106992	AK1	370.50	-0.73	3.21E-02
ENSG00000177000	MTHFR	2131.97	0.39	3.21E-02
ENSG00000211694	TRGV10	118.47	-0.78	3.21E-02
ENSG00000167747	C19orf48	483.46	0.77	3.22E-02

ENSG00000179958	DCTPP1	274.88	0.61	3.23E-02
ENSG00000174021	GNG5	688.49	-0.63	3.23E-02
ENSG00000187098	MITF	482.41	-2.08	3.23E-02
ENSG00000271734	NA	44.40	-1.13	3.23E-02
ENSG00000104361	NIPAL2	214.94	0.95	3.23E-02
ENSG00000273841	TAF9	886.71	-0.49	3.24E-02
ENSG00000284526		115.13	1.06	3.24E-02
ENSG00000119616	FCF1	961.13	-0.45	3.24E-02
ENSG00000181029	TRAPPC5	277.56	-0.90	3.24E-02
ENSG00000132530	XAF1	6707.25	1.78	3.24E-02
ENSG00000169375	SIN3A	3270.11	0.41	3.25E-02
ENSG00000234353		56.16	-0.98	3.25E-02
ENSG00000136213	CHST12	2724.81	-0.66	3.26E-02
ENSG00000274259	SYNGAP1-AS1	42.49	-1.64	3.26E-02
ENSG00000118690	ARMC2	166.41	0.87	3.26E-02
ENSG00000204859	ZBTB48	1230.73	-0.49	3.26E-02
ENSG00000144648	ACKR2	59.97	-1.40	3.26E-02
ENSG00000132196	HSD17B7	405.19	-0.71	3.27E-02
ENSG00000165410	CFL2	332.07	1.14	3.27E-02
ENSG00000283057		30.99	1.25	3.27E-02
ENSG00000281468		19.26	-1.45	3.28E-02
ENSG00000225822	UBXN7-AS1	11.09	1.94	3.28E-02
ENSG00000092439	TRPM7	4203.32	-0.43	3.29E-02
ENSG00000198795	ZNF521	24.11	-1.15	3.30E-02
ENSG00000149016	TUT1	261.60	-0.62	3.30E-02
ENSG00000111679	PTPN6	7630.28	0.83	3.31E-02
ENSG00000143393	PI4KB	2631.16	-0.27	3.31E-02
ENSG00000269404	SPIB	220.55	0.68	3.31E-02
ENSG00000146094	DOK3	3449.80	-0.82	3.32E-02
ENSG00000169919	GUSB	1239.82	0.41	3.32E-02
ENSG00000170364	SETMAR	211.50	0.44	3.32E-02
ENSG00000197181	PIWIL2	28.86	1.23	3.32E-02
ENSG00000237359		55.25	-1.42	3.32E-02
ENSG00000226200	SGMS1-AS1	417.33	0.68	3.32E-02
ENSG00000266320	MIR3909	97.13	1.05	3.32E-02
ENSG00000116521	SCAMP3	744.01	0.30	3.33E-02
ENSG00000114779	ABHD14B	758.21	0.46	3.33E-02
ENSG00000213123	DYNLT2B	28.71	-1.02	3.33E-02
ENSG00000039123	MTREX	2093.83	-0.30	3.33E-02
ENSG00000230658	KLHL7-DT	23.26	1.32	3.33E-02
ENSG00000070501	POLB	828.01	0.70	3.33E-02
ENSG00000276317		175.73	-0.78	3.33E-02
ENSG00000251093		19.48	-1.90	3.33E-02
ENSG00000260428	SCX	15.29	-1.44	3.34E-02
ENSG00000276957		13.01	-1.73	3.34E-02
ENSG00000139718	SETD1B	4424.49	-0.47	3.34E-02
ENSG00000145375	SPATA5	559.04	0.34	3.34E-02
ENSG00000256347	OR8R1P	29.71	-2.27	3.34E-02
ENSG00000110218	PANX1	444.92	-0.65	3.34E-02
ENSG00000281097	LINC01395	73.55	-0.92	3.34E-02

ENSG00000146232	NFKBIE	3441.49	-1.39	3.34E-02
ENSG00000163590	PPM1L	390.78	0.85	3.34E-02
ENSG00000105656	ELL	3484.06	-0.62	3.34E-02
ENSG00000106268	NUDT1	168.91	0.73	3.34E-02
ENSG00000197580	BCO2	36.03	-0.81	3.34E-02
ENSG00000122068	FYTTD1	2301.96	-0.47	3.34E-02
ENSG00000131781	FMO5	83.43	1.01	3.35E-02
ENSG00000271551		36.89	-1.12	3.35E-02
ENSG00000103540	CCP110	834.39	0.39	3.36E-02
ENSG00000211869	TRAJ20	123.26	-0.86	3.36E-02
ENSG00000160856	FCRL3	931.48	0.87	3.36E-02
ENSG00000260404		635.34	0.42	3.38E-02
ENSG00000137135	ARHGEF39	16.06	-1.52	3.38E-02
ENSG00000133116	KL	36.97	2.39	3.38E-02
ENSG00000111726	CMAS	409.15	-0.52	3.39E-02
ENSG00000197956	S100A6	4058.21	-0.94	3.39E-02
ENSG00000151150	ANK3	2259.38	0.76	3.40E-02
ENSG00000244462	RBM12	3428.93	-0.38	3.40E-02
ENSG00000092067	CEBPE	122.38	-1.22	3.40E-02
ENSG00000175390	EIF3F	3588.05	0.41	3.40E-02
ENSG00000114473	IQCG	251.98	0.59	3.40E-02
ENSG00000170485	NPAS2	78.22	0.85	3.40E-02
ENSG00000064115	TM7SF3	633.26	0.35	3.40E-02
ENSG00000275437		181.62	1.13	3.40E-02
ENSG00000160741	CRTC2	2357.75	-0.42	3.40E-02
ENSG00000127022	CANX	6898.17	-0.55	3.40E-02
ENSG00000228010		23.94	-1.28	3.40E-02
ENSG00000165338	HECTD2	150.72	-0.77	3.40E-02
ENSG00000055332	EIF2AK2	4023.45	1.45	3.41E-02
ENSG00000235843		12.92	1.39	3.41E-02
ENSG00000226239		64.71	-2.78	3.41E-02
ENSG00000267990		39.44	-1.60	3.41E-02
ENSG00000031003	FAM13B	3041.20	-0.33	3.41E-02
ENSG00000272916		66.47	1.01	3.41E-02
ENSG00000112773	TENT5A	989.30	0.77	3.41E-02
ENSG00000184990	SIVA1	995.92	0.80	3.41E-02
ENSG00000268088		9.77	2.06	3.41E-02
ENSG00000176390	CRLF3	2768.27	-0.30	3.42E-02
ENSG00000136720	HS6ST1	649.73	0.41	3.42E-02
ENSG00000264810	MIR4441	27.82	1.30	3.43E-02
ENSG00000166793	YPEL4	244.00	-1.12	3.43E-02
ENSG00000180573	H2AC6	4678.58	0.81	3.43E-02
ENSG00000196419	XRCC6	3769.80	-0.37	3.44E-02
ENSG00000232031		30.46	1.41	3.44E-02
ENSG00000013016	EHD3	325.21	0.72	3.44E-02
ENSG00000063587	ZNF275	652.11	0.47	3.45E-02
ENSG00000211857	TRAJ32	152.77	-0.83	3.45E-02
ENSG00000261326	LINC01355	384.32	-1.61	3.46E-02
ENSG00000226742	HSBP1L1	161.02	0.79	3.46E-02
ENSG00000112210	RAB23	101.61	-0.93	3.47E-02

ENSG00000214706	IFRD2	713.50	-0.87	3.47E-02
ENSG00000101945	SUV39H1	223.95	0.53	3.47E-02
ENSG00000140526	ABHD2	4844.66	0.61	3.47E-02
ENSG00000270344	POC1B-AS1	488.13	0.44	3.47E-02
ENSG00000168781	PIIP5K1	172.78	0.46	3.48E-02
ENSG00000244617	ASPRV1	296.18	1.24	3.48E-02
ENSG00000163083	INHBB	11.38	2.56	3.48E-02
ENSG00000167965	MLST8	326.09	0.65	3.48E-02
ENSG00000127580	WDR24	446.61	0.37	3.49E-02
ENSG00000166507	NDST2	184.94	0.73	3.50E-02
ENSG00000111012	CYP27B1	83.73	-1.70	3.50E-02
ENSG00000138399	FASTKD1	524.73	-0.53	3.50E-02
ENSG00000184451	CCR10	23.91	2.21	3.50E-02
ENSG00000165480	SKA3	301.00	-1.66	3.52E-02
ENSG00000205250	E2F4	2003.57	-0.55	3.52E-02
ENSG00000277462	ZNF670	57.35	-0.87	3.53E-02
ENSG00000248697	TOX4P1	28.24	1.41	3.53E-02
ENSG00000099875	MKNK2	7611.56	0.46	3.54E-02
ENSG00000237649	KIFC1	55.40	-1.08	3.55E-02
ENSG00000152556	PFKM	251.45	0.54	3.55E-02
ENSG00000270441	LAMB2P1	158.81	0.62	3.55E-02
ENSG00000201367	RNU6-522P	23.66	-1.38	3.55E-02
ENSG00000102882	MAPK3	991.72	0.58	3.55E-02
ENSG00000047578	KATNIP	1439.31	0.37	3.55E-02
ENSG00000130813	SHFL	1643.44	0.77	3.56E-02
ENSG00000260942	CAPN10-DT	310.35	-0.74	3.56E-02
ENSG00000114054	PCCB	400.12	0.46	3.57E-02
ENSG00000109586	GALNT7	944.44	-0.75	3.57E-02
ENSG00000243554	CCZ1P1	217.03	0.58	3.58E-02
ENSG00000144645	OSBPL10	335.70	1.03	3.58E-02
ENSG00000183337	BCOR	2055.38	-1.10	3.58E-02
ENSG00000121060	TRIM25	6180.03	0.94	3.59E-02
ENSG00000161179	YDJC	664.82	0.50	3.59E-02
ENSG00000116704	SLC35D1	872.23	-0.42	3.59E-02
ENSG00000178860	MSC	443.79	-1.93	3.59E-02
ENSG00000283573		27.24	-2.37	3.60E-02
ENSG00000282989	PDCL3P2	25.94	1.51	3.60E-02
ENSG00000136950	ARPC5L	686.45	0.71	3.60E-02
ENSG00000150990	DHX37	813.50	0.45	3.60E-02
ENSG00000230124	ACBD6	1160.43	0.37	3.60E-02
ENSG00000110455	ACCS	797.44	0.63	3.60E-02
ENSG00000204584		253.57	0.57	3.61E-02
ENSG00000263004	AKAP1-DT	16.65	1.42	3.61E-02
ENSG00000201558	RNVU1-6	17.18	2.12	3.62E-02
ENSG00000112992	NNT	1354.20	0.34	3.62E-02
ENSG00000198682	PAPSS2	305.52	-1.24	3.62E-02
ENSG00000129810	SGO1	65.40	-1.06	3.62E-02
ENSG00000090273	NUDC	642.40	-0.48	3.62E-02
ENSG00000243661	WBP1LP1	41.41	-1.32	3.62E-02
ENSG00000123728	RAP2C	3195.08	-0.59	3.62E-02

ENSG00000270115		66.76	1.11	3.62E-02
ENSG00000095209	TMEM38B	392.32	-0.50	3.62E-02
ENSG00000183734	ASCL2	134.79	1.17	3.63E-02
ENSG00000168734	PKIG	280.82	-0.56	3.63E-02
ENSG00000185989	RASA3	6704.16	-0.46	3.63E-02
ENSG00000137807	KIF23	93.96	-1.25	3.63E-02
ENSG00000176723	ZNF843	15.30	1.49	3.63E-02
ENSG00000163399	ATP1A1	7170.91	-0.63	3.64E-02
ENSG00000228939	AKT3-IT1	99.38	-1.05	3.64E-02
ENSG00000101189	MRGBP	469.54	-0.42	3.64E-02
ENSG00000276234	TADA2A	522.36	-0.37	3.65E-02
ENSG00000102786	INTS6	3622.82	-0.50	3.65E-02
ENSG00000265118		20.47	-1.49	3.65E-02
ENSG00000010361	FUZ	270.10	0.68	3.65E-02
ENSG00000155380	SLC16A1	369.88	-0.99	3.65E-02
ENSG00000143924	EML4	8799.24	-0.85	3.66E-02
ENSG00000233060		21.94	-1.34	3.66E-02
ENSG00000113494	PRLR	80.04	1.88	3.66E-02
ENSG00000254893	RAP1BL	33.18	-0.96	3.66E-02
ENSG00000067596	DHX8	2100.92	0.29	3.66E-02
ENSG00000172361	CFAP53	35.30	-0.95	3.66E-02
ENSG00000257181		13.59	1.55	3.66E-02
ENSG00000213918	DNASE1	2381.09	-0.71	3.66E-02
ENSG00000178585	CTNNBIP1	237.19	1.17	3.66E-02
ENSG00000116288	PARK7	1802.18	-0.44	3.68E-02
ENSG00000140006	WDR89	614.53	-0.51	3.68E-02
ENSG00000087074	PPP1R15A	9331.21	0.73	3.69E-02
ENSG00000244187	TMEM141	266.86	0.60	3.69E-02
ENSG00000168569	TMEM223	280.51	-0.67	3.69E-02
ENSG00000279294		220.33	-0.88	3.70E-02
ENSG00000276043	UHRF1	61.77	-1.38	3.71E-02
ENSG00000163808	KIF15	265.78	-1.48	3.71E-02
ENSG00000137814	HAUS2	492.65	-0.32	3.71E-02
ENSG00000157617	C2CD2	390.96	0.40	3.71E-02
ENSG00000198176	TFDP1	1606.87	-0.65	3.72E-02
ENSG00000033178	UBA6	2337.66	-0.45	3.72E-02
ENSG00000113638	TTC33	493.48	-0.47	3.72E-02
ENSG00000274383		150.08	-1.21	3.72E-02
ENSG00000182397	DNM1P46	85.68	0.72	3.72E-02
ENSG00000248785	HIGD1AP14	47.21	-0.91	3.72E-02
ENSG00000100399	CHADL	27.69	1.17	3.73E-02
ENSG00000143297	FCRL5	367.28	1.46	3.73E-02
ENSG00000186364	NUDT17	79.75	0.73	3.73E-02
ENSG00000160714	UBE2Q1	1324.74	-0.25	3.73E-02
ENSG00000068724	TTC7A	3021.07	0.51	3.73E-02
ENSG00000121964	GTDC1	918.96	-0.32	3.73E-02
ENSG00000114853	ZBTB47	285.15	-0.89	3.73E-02
ENSG00000225101	OR52K3P	259.90	-1.61	3.73E-02
ENSG00000254470	AP5B1	4377.76	0.71	3.73E-02
ENSG00000104823	ECH1	829.64	0.48	3.73E-02

ENSG00000156374	PCGF6	195.44	-0.54	3.73E-02
ENSG00000228768	MIR365BHG	45.82	-2.52	3.74E-02
ENSG00000141736	ERBB2	253.88	0.86	3.74E-02
ENSG00000278129	ZNF8	512.71	0.42	3.74E-02
ENSG00000172586	CHCHD1	145.18	-0.68	3.74E-02
ENSG00000207546	MIR548C	48.97	-1.28	3.74E-02
ENSG00000129646	QRICH2	253.92	-0.95	3.74E-02
ENSG00000072135	PTPN18	1600.48	0.54	3.74E-02
ENSG00000214113	LYRM4	297.29	0.40	3.74E-02
ENSG00000184205	TSPYL2	1301.48	-0.53	3.74E-02
ENSG00000173486	FKBP2	288.31	-0.70	3.74E-02
ENSG00000087470	DNM1L	1270.36	-0.36	3.74E-02
ENSG00000262248		21.63	-1.23	3.74E-02
ENSG00000185189	NRBP2	271.02	0.94	3.74E-02
ENSG00000267009		179.43	-0.76	3.74E-02
ENSG00000170876	TMEM43	2121.57	-0.40	3.74E-02
ENSG00000041988	THAP3	369.92	-0.63	3.74E-02
ENSG00000037749	MFAP3	743.99	-0.53	3.75E-02
ENSG00000165626	BEND7	19.47	2.21	3.75E-02
ENSG00000131849	ZNF132	255.16	-1.26	3.75E-02
ENSG00000105821	DNAJC2	612.60	-0.45	3.76E-02
ENSG00000118900	UBN1	2766.89	0.57	3.76E-02
ENSG00000198502	HLA-DRB5	1140.22	0.70	3.76E-02
ENSG00000279356		53.25	0.93	3.76E-02
ENSG00000234975	FTH1P2	46.07	-1.78	3.76E-02
ENSG00000153310	CYRIB	6614.39	-0.60	3.77E-02
ENSG00000174165	ZDHHC24	873.67	0.35	3.77E-02
ENSG00000229106	BTBD6P1	99.19	0.82	3.77E-02
ENSG00000276867		26.88	1.44	3.77E-02
ENSG00000221909	FAM200A	280.29	-0.69	3.77E-02
ENSG00000115816	CEBPZ	1553.50	-0.41	3.78E-02
ENSG00000075292	ZNF638	5998.80	-0.40	3.78E-02
ENSG00000184898	RBM43	450.75	0.61	3.78E-02
ENSG00000112667	DNPH1	367.00	-0.82	3.78E-02
ENSG00000157224	CLDN12	100.31	-1.07	3.78E-02
ENSG00000163659	TIPARP	1575.52	0.59	3.78E-02
ENSG00000184730	APOBR	2181.93	-0.80	3.78E-02
ENSG00000169962	TAS1R3	51.62	1.17	3.79E-02
ENSG00000280367		32.59	-1.63	3.79E-02
ENSG00000129636	ITFG1	954.70	0.32	3.79E-02
ENSG00000186812	ZNF397	1706.87	-0.75	3.79E-02
ENSG00000181873	IBA57	651.41	0.51	3.79E-02
ENSG00000170037	CNTROB	567.23	-0.35	3.79E-02
ENSG00000272219		115.27	-1.22	3.79E-02
ENSG00000103852	TTC23	40.76	1.05	3.79E-02
ENSG00000198355	PIM3	5764.34	0.65	3.79E-02
ENSG00000172460	PRSS30P	51.35	1.26	3.80E-02
ENSG00000175445	LPL	319.51	-3.26	3.80E-02
ENSG00000107736	CDH23	1319.06	1.24	3.80E-02
ENSG00000075785	RAB7A	4103.56	-0.49	3.81E-02

ENSG00000167395	ZNF646	3316.25	-0.78	3.81E-02
ENSG00000139112	GABARAPL1	2660.72	-0.53	3.81E-02
ENSG00000279633		15.94	-1.37	3.81E-02
ENSG00000237094		52.66	1.16	3.81E-02
ENSG00000238058	CAMSAP1-DT	62.48	-1.35	3.82E-02
ENSG00000118162	KPTN	127.34	0.77	3.82E-02
ENSG00000159202	UBE2Z	3159.79	-0.48	3.82E-02
ENSG00000237438	CECR7	103.20	0.60	3.82E-02
ENSG00000115163	CENPA	16.98	-1.57	3.82E-02
ENSG00000231964		25.87	1.26	3.82E-02
ENSG00000100804	PSMB5	402.47	-0.83	3.82E-02
ENSG00000178695	KCTD12	3507.66	-1.14	3.82E-02
ENSG00000145685	LHFPL2	1654.96	-2.07	3.83E-02
ENSG00000122359	ANXA11	6536.22	0.49	3.83E-02
ENSG00000177302	TOP3A	1352.25	0.38	3.83E-02
ENSG00000113648	MACROH2A1	8643.24	0.45	3.83E-02
ENSG00000256357		24.56	-2.24	3.84E-02
ENSG00000283064		49.83	0.97	3.84E-02
ENSG00000204642	HLA-F	9541.48	0.40	3.84E-02
ENSG00000172869	DMXL1	2314.33	0.35	3.85E-02
ENSG00000186687	LYRM7	680.13	0.32	3.85E-02
ENSG00000151657	KIN	764.80	-0.33	3.85E-02
ENSG00000137100	DCTN3	743.47	0.71	3.86E-02
ENSG00000164845	FAM86FP	58.55	0.90	3.86E-02
ENSG00000215251	FASTKD5	721.62	0.42	3.86E-02
ENSG00000188060	RAB42	51.71	-3.20	3.86E-02
ENSG00000131504	DIAPH1	5661.75	-0.57	3.86E-02
ENSG00000205339	IPO7	2340.48	-0.79	3.86E-02
ENSG00000140199	SLC12A6	7185.78	-0.53	3.86E-02
ENSG00000178104	PDE4DIP	2561.82	-0.68	3.87E-02
ENSG00000121680	PEX16	968.16	0.49	3.87E-02
ENSG00000279900		108.02	-1.62	3.87E-02
ENSG00000142634	EFHD2	10540.07	-0.67	3.88E-02
ENSG00000124217	MOCS3	376.98	-0.50	3.88E-02
ENSG00000160213	CSTB	2794.80	-0.97	3.88E-02
ENSG00000115507	OTX1	7.62	3.45	3.89E-02
ENSG00000071051	NCK2	2421.46	0.63	3.89E-02
ENSG00000273983	H3C8	214.63	-1.72	3.89E-02
ENSG00000107651	SEC23IP	1262.40	-0.54	3.89E-02
ENSG00000278863		87.78	-0.79	3.89E-02
ENSG00000179846	NKPD1	24.18	1.72	3.89E-02
ENSG00000228775	WEE2-AS1	55.16	-1.05	3.89E-02
ENSG00000142961	MOB3C	2103.31	-0.88	3.90E-02
ENSG00000152207	CYSLTR2	173.97	1.07	3.90E-02
ENSG00000105771	SMG9	1359.19	-0.62	3.90E-02
ENSG00000224420	ADM5	33.97	1.09	3.90E-02
ENSG00000180773	SLC36A4	1212.20	-0.49	3.90E-02
ENSG00000183077	AFMID	109.04	0.86	3.90E-02
ENSG00000266783		40.12	-1.21	3.91E-02
ENSG00000143891	GALM	762.01	0.80	3.91E-02

ENSG00000140464	PML	3591.88	0.86	3.92E-02
ENSG00000186666	BCDIN3D	285.18	-0.61	3.93E-02
ENSG00000215193	PEX26	1904.97	0.25	3.94E-02
ENSG00000106829	TLE4	3042.32	-0.37	3.94E-02
ENSG00000224003	YES1P1	166.27	-1.05	3.94E-02
ENSG00000247134		21.98	1.47	3.95E-02
ENSG00000141562	NARF	1825.25	0.70	3.96E-02
ENSG00000171155	C1GALT1C1	350.41	0.53	3.96E-02
ENSG00000100324	TAB1	806.22	0.41	3.97E-02
ENSG00000169967	MAP3K2	5537.26	-0.49	3.97E-02
ENSG00000217512		53.36	0.97	3.97E-02
ENSG00000197506	SLC28A3	19.64	-2.07	3.97E-02
ENSG00000279619		14.62	-1.37	3.97E-02
ENSG00000186575	NF2	1290.78	0.28	3.97E-02
ENSG00000245146	MALINC1	59.24	-0.72	3.97E-02
ENSG00000137815	RTF1	1202.62	0.30	3.97E-02
ENSG00000099889	ARVCF	123.77	1.26	3.97E-02
ENSG00000110435	PDHX	667.40	-0.36	3.97E-02
ENSG00000256294	ZNF225	308.69	-0.87	3.97E-02
ENSG00000144228	SPOPL	2243.96	-0.47	3.97E-02
ENSG00000164402	SEPTIN8	182.04	0.69	3.98E-02
ENSG00000234745	HLA-B	90592.03	0.38	3.98E-02
ENSG00000255398	HCAR3	7757.44	1.60	3.98E-02
ENSG00000273096		123.01	-0.72	3.98E-02
ENSG00000104047	DTWD1	615.76	-0.42	3.98E-02
ENSG00000100296	THOC5	1249.18	0.43	3.98E-02
ENSG00000198105	ZNF248	387.23	-0.54	3.98E-02
ENSG00000180340	FZD2	52.46	1.98	3.98E-02
ENSG00000080608	PUM3	800.40	-0.68	3.98E-02
ENSG00000135899	SP110	5690.81	0.62	3.99E-02
ENSG00000153485	TMEM251	244.01	-0.82	3.99E-02
ENSG00000186416	NKRF	437.13	-0.41	3.99E-02
ENSG00000148943	LIN7C	1475.57	-0.41	3.99E-02
ENSG00000248333	CDK11B	927.23	0.53	4.01E-02
ENSG00000251034		54.68	-1.81	4.01E-02
ENSG00000127311	HELB	3107.48	0.41	4.01E-02
ENSG00000092820	EZR	5239.73	-0.40	4.01E-02
ENSG00000109790	KLHL5	1741.60	-0.76	4.02E-02
ENSG00000131480	AOC2	240.50	-0.89	4.02E-02
ENSG00000198380	GFPT1	1202.96	-0.44	4.02E-02
ENSG00000226738	NA	14.37	2.25	4.02E-02
ENSG00000149761	NUDT22	739.64	0.43	4.02E-02
ENSG00000186047	DLEU7	158.08	-1.81	4.03E-02
ENSG00000105383	CD33	347.85	-1.29	4.03E-02
ENSG00000139990	DCAF5	2614.51	0.29	4.03E-02
ENSG00000141582	CBX4	1444.89	1.04	4.03E-02
ENSG00000118640	VAMP8	1329.04	0.60	4.04E-02
ENSG00000185842	DNAH14	61.49	-1.51	4.04E-02
ENSG00000146243	IRAK1BP1	112.47	-0.61	4.04E-02
ENSG00000137944	KYAT3	741.29	0.33	4.05E-02

ENSG00000225697	SLC26A6	496.49	-0.51	4.06E-02
ENSG00000265975		315.17	-1.20	4.06E-02
ENSG00000215795		42.27	-1.39	4.07E-02
ENSG00000099901	RANBP1	544.71	-0.51	4.09E-02
ENSG00000124541	RRP36	566.97	-0.36	4.09E-02
ENSG00000260231	KDM7A-DT	370.40	-0.86	4.09E-02
ENSG00000006831	ADIPOR2	1632.82	-0.47	4.09E-02
ENSG00000232940	HCG25	90.85	-0.94	4.09E-02
ENSG00000184678	H2BC21	2245.66	0.66	4.10E-02
ENSG00000143515	ATP8B2	3515.78	0.50	4.10E-02
ENSG00000143324	XPR1	1060.97	-0.30	4.10E-02
ENSG00000261229		72.21	-1.82	4.10E-02
ENSG00000273139		59.74	-1.25	4.10E-02
ENSG00000273000	NA	26.13	-0.99	4.10E-02
ENSG00000129467	ADCY4	291.03	-0.68	4.10E-02
ENSG00000162104	ADCY9	631.96	0.67	4.10E-02
ENSG00000119737	GPR75	119.91	-0.62	4.11E-02
ENSG00000196177	ACADSB	647.09	0.48	4.11E-02
ENSG00000087589	CASS4	1448.85	-1.04	4.12E-02
ENSG00000105254	TBCB	832.10	0.73	4.12E-02
ENSG00000144554	FANCD2	574.76	0.35	4.13E-02
ENSG00000151502	VPS26B	1386.94	0.39	4.13E-02
ENSG00000047634	SCML1	870.47	-0.79	4.13E-02
ENSG00000175221	MED16	1396.03	0.49	4.13E-02
ENSG00000232036		53.89	-1.32	4.14E-02
ENSG00000258777	HIF1A-AS1	19.15	-1.58	4.14E-02
ENSG00000268154		76.80	-0.77	4.14E-02
ENSG00000092203	TOX4	2399.65	0.27	4.14E-02
ENSG00000166783	MARF1	6389.54	-0.47	4.15E-02
ENSG00000084764	MAPRE3	99.91	-0.83	4.15E-02
ENSG00000170893	TRH	5.25	-5.03	4.15E-02
ENSG00000168772	CXXC4	30.90	-1.21	4.15E-02
ENSG00000213213	CCDC183	38.43	0.97	4.15E-02
ENSG00000167842	MIS12	772.21	-0.44	4.15E-02
ENSG00000175792	RUVBL1	671.36	-0.66	4.15E-02
ENSG00000117242	PINK1-AS	333.41	0.52	4.15E-02
ENSG00000233892	PAIP1P1	80.78	0.65	4.15E-02
ENSG00000261087	ZNNT1	197.23	-1.38	4.15E-02
ENSG00000138160	KIF11	177.91	-1.01	4.15E-02
ENSG00000090565	RAB11FIP3	913.80	-0.45	4.15E-02
ENSG00000108465	CDK5RAP3	2098.24	0.57	4.15E-02
ENSG00000095397	WHRN	542.44	-0.78	4.16E-02
ENSG00000138641	HERC3	2965.23	0.40	4.16E-02
ENSG00000182372	CLN8	900.64	-0.33	4.16E-02
ENSG00000167632	TRAPPC9	1961.17	0.44	4.16E-02
ENSG00000107938	EDRF1	1327.26	0.26	4.16E-02
ENSG00000174469	CNTNAP2	39.33	2.17	4.16E-02
ENSG00000100092	SH3BP1	2588.56	-0.41	4.16E-02
ENSG00000186827	TNFRSF4	567.83	1.01	4.18E-02
ENSG00000184454	NCMAP	8.88	-2.30	4.18E-02

ENSG00000162419	GMEB1	801.01	-0.41	4.18E-02
ENSG00000159479	MED8	673.41	-0.47	4.18E-02
ENSG00000150540	HNMT	1115.99	-1.53	4.18E-02
ENSG00000109320	NFKB1	7821.94	-1.08	4.18E-02
ENSG00000069020	MAST4	803.31	0.51	4.18E-02
ENSG00000224940	PRRT4	25.21	1.63	4.18E-02
ENSG00000253710	ALG11	642.61	0.35	4.18E-02
ENSG00000269927		26.34	2.58	4.18E-02
ENSG00000261072		47.56	-0.91	4.18E-02
ENSG00000108651	UTP6	1059.99	-0.50	4.18E-02
ENSG00000104951	IL4I1	839.69	-2.58	4.18E-02
ENSG00000275772		17.39	1.83	4.18E-02
ENSG00000204147	ASAH2B	85.50	-0.85	4.19E-02
ENSG00000153815	CMIP	5155.96	-0.60	4.19E-02
ENSG00000274627	NA	810.70	-0.50	4.19E-02
ENSG00000144283	PKP4	678.90	-0.58	4.19E-02
ENSG00000174132	FAM174A	182.76	0.68	4.19E-02
ENSG00000167123	CERCAM	58.10	1.52	4.19E-02
ENSG00000022567	SLC45A4	2408.67	0.83	4.19E-02
ENSG00000083454	P2RX5	504.06	0.57	4.19E-02
ENSG00000242114	MTFP1	27.13	1.44	4.19E-02
ENSG00000152234	ATP5F1A	4005.95	0.32	4.20E-02
ENSG00000025770	NCAPH2	900.14	0.52	4.20E-02
ENSG00000204390	HSPA1L	143.66	0.57	4.20E-02
ENSG00000197223	C1D	615.59	-0.54	4.21E-02
ENSG00000131944	FAAP24	55.20	0.86	4.21E-02
ENSG00000086666	ZFAND6	2419.46	-0.46	4.22E-02
ENSG00000246203		49.52	1.03	4.23E-02
ENSG00000065526	SPEN	5031.23	-0.37	4.23E-02
ENSG00000183813	CCR4	1505.02	-1.12	4.24E-02
ENSG00000187824	TMEM220	72.73	0.67	4.25E-02
ENSG00000279020	C18orf15	60.85	-1.37	4.26E-02
ENSG00000101367	MAPRE1	3056.99	-0.41	4.26E-02
ENSG00000072518	MARK2	3136.44	-0.40	4.26E-02
ENSG00000122877	EGR2	772.26	1.53	4.26E-02
ENSG00000228315	GUSBP11	52.30	0.81	4.26E-02
ENSG00000159873	CCDC117	960.05	-0.48	4.26E-02
ENSG00000109220	CHIC2	901.44	-0.32	4.26E-02
ENSG00000169239	CA5B	518.90	0.86	4.26E-02
ENSG00000153140	CETN3	151.85	-0.72	4.27E-02
ENSG00000006757	PNPLA4	104.18	0.58	4.27E-02
ENSG00000107317	PTGDS	61.99	1.48	4.27E-02
ENSG00000122707	RECK	391.79	0.36	4.27E-02
ENSG00000111670	GNPTAB	2241.73	-0.41	4.27E-02
ENSG00000145388	METTL14	861.40	-0.35	4.27E-02
ENSG00000015285	WAS	2698.36	0.48	4.28E-02
ENSG00000143641	GALNT2	1390.82	-0.32	4.28E-02
ENSG00000115233	PSMD14	721.73	-0.64	4.28E-02
ENSG00000269997		129.46	-0.90	4.28E-02
ENSG00000280587	LINC01348	41.04	-2.14	4.29E-02

ENSG00000260286	ARMH2	43.92	0.91	4.29E-02
ENSG00000143977	SNRPG	642.66	-0.43	4.30E-02
ENSG00000181035	SLC25A42	561.91	0.49	4.30E-02
ENSG00000162729	IGSF8	651.43	0.56	4.30E-02
ENSG00000082512	TRAF5	1997.80	-0.34	4.30E-02
ENSG00000253430		25.76	-1.30	4.31E-02
ENSG00000085063	CD59	1541.75	-0.52	4.31E-02
ENSG00000174032	SLC25A30	498.68	0.40	4.31E-02
ENSG00000261553		60.73	-1.18	4.31E-02
ENSG00000168661	ZNF30	113.97	-0.61	4.31E-02
ENSG00000170684	ZNF296	104.66	1.09	4.31E-02
ENSG00000168894	RNF181	553.35	-0.49	4.31E-02
ENSG00000110203	FOLR3	151.50	-1.88	4.31E-02
ENSG00000162777	DENND2D	6151.24	-0.52	4.31E-02
ENSG00000225964	NRIR	124.28	1.95	4.31E-02
ENSG00000272989	LINC02012	24.42	1.28	4.31E-02
ENSG00000166432	ZMAT1	1199.27	0.45	4.31E-02
ENSG00000258430		27.58	1.37	4.31E-02
ENSG00000066777	ARFGEF1	4526.24	-0.29	4.32E-02
ENSG00000125247	TMTC4	421.61	0.43	4.32E-02
ENSG00000123607	TTC21B	912.35	0.34	4.32E-02
ENSG00000163219	ARHGAP25	5123.87	0.45	4.32E-02
ENSG00000196372	ASB13	210.71	0.70	4.32E-02
ENSG00000062650	WAPL	3080.49	-0.26	4.32E-02
ENSG00000125375	DMAC2L	854.28	0.36	4.33E-02
ENSG00000177427	MIEF2	339.65	0.70	4.33E-02
ENSG00000256771	ZNF253	392.63	-0.41	4.33E-02
ENSG00000213762	ZNF134	877.66	0.35	4.33E-02
ENSG00000075151	EIF4G3	2090.76	-0.55	4.33E-02
ENSG00000200170		74.92	-1.47	4.33E-02
ENSG00000235621	LINC00494	83.46	0.88	4.33E-02
ENSG00000226564	FTH1P20	51.70	-1.25	4.33E-02
ENSG00000246067	RAB30-DT	760.43	-0.71	4.33E-02
ENSG00000232653	GOLGA8N	165.38	0.84	4.33E-02
ENSG00000276568		29.01	1.76	4.33E-02
ENSG00000260686		116.54	-0.81	4.34E-02
ENSG00000077152	UBE2T	45.20	-1.12	4.34E-02
ENSG00000262429		41.01	-1.40	4.34E-02
ENSG00000132781	MUTYH	514.67	0.48	4.34E-02
ENSG00000172780	RAB43	370.82	0.85	4.35E-02
ENSG00000215375	MYL5	349.12	0.56	4.35E-02
ENSG00000225039	LINC01058	19.07	-1.20	4.35E-02
ENSG00000270393		16.42	2.22	4.35E-02
ENSG00000100412	ACO2	1612.57	0.28	4.35E-02
ENSG00000103507	BCKDK	1127.04	-0.65	4.36E-02
ENSG00000207493	SNORA46	16.34	-1.73	4.36E-02
ENSG00000117305	HMGCL	769.84	-0.33	4.36E-02
ENSG00000167612	ANKRD33	16.65	-2.82	4.36E-02
ENSG00000134255	CEPT1	1658.84	-0.65	4.36E-02
ENSG00000125257	ABCC4	1094.84	-0.95	4.36E-02

ENSG00000242498	ARPIN	106.98	2.09	4.36E-02
ENSG00000219395	HSPA8P15	25.23	-1.09	4.36E-02
ENSG00000238035		51.90	0.94	4.36E-02
ENSG00000110442	COMMD9	673.88	0.73	4.37E-02
ENSG00000258810		46.20	-1.39	4.37E-02
ENSG00000229808		123.62	0.49	4.38E-02
ENSG00000127922	SEM1	632.46	-0.34	4.39E-02
ENSG00000279059		150.18	-1.00	4.39E-02
ENSG00000169607	CKAP2L	117.09	-1.69	4.40E-02
ENSG00000164168	TMEM184C	738.78	-0.53	4.40E-02
ENSG00000170017	ALCAM	2348.46	-1.71	4.40E-02
ENSG00000279917		133.23	-0.98	4.40E-02
ENSG00000168765	GSTM4	227.12	0.72	4.40E-02
ENSG00000133612	AGAP3	2331.19	-0.97	4.40E-02
ENSG00000277411		21.54	1.36	4.41E-02
ENSG00000281883		12.63	-2.85	4.41E-02
ENSG00000158717	RNF166	5511.38	-0.40	4.42E-02
ENSG00000122008	POLK	1353.35	-0.38	4.43E-02
ENSG00000258345		15.62	-1.45	4.43E-02
ENSG00000140265	ZSCAN29	1022.43	-0.28	4.43E-02
ENSG00000166343	MSS51	171.83	0.59	4.43E-02
ENSG00000187904		44.08	1.00	4.43E-02
ENSG00000075391	RASAL2	138.79	-1.51	4.43E-02
ENSG00000280128		702.24	-0.73	4.44E-02
ENSG00000100280	AP1B1	2626.00	0.48	4.44E-02
ENSG00000179010	MRFAP1	2501.63	-0.50	4.44E-02
ENSG00000154370	TRIM11	1967.10	0.35	4.45E-02
ENSG00000106484	MEST	90.99	0.78	4.45E-02
ENSG00000153902	LGI4	15.90	-1.28	4.45E-02
ENSG00000279948	NA	195.10	-1.13	4.45E-02
ENSG00000169738	DCXR	537.76	0.57	4.47E-02
ENSG00000154229	PRKCA	1986.45	0.42	4.47E-02
ENSG00000115825	PRKD3	1799.73	-0.34	4.47E-02
ENSG00000005513	SOX8	61.22	-0.85	4.47E-02
ENSG00000178199	ZC3H12D	1832.77	0.39	4.48E-02
ENSG00000149781	FERMT3	6830.34	-0.82	4.48E-02
ENSG00000223478	ZDHHC12-DT	35.51	1.08	4.49E-02
ENSG00000102898	NUTF2	763.48	-0.47	4.49E-02
ENSG00000141458	NPC1	2435.33	-0.40	4.49E-02
ENSG00000225402		19.17	-2.15	4.49E-02
ENSG00000196792	STRN3	1166.60	-0.53	4.49E-02
ENSG00000146122	DAAM2	98.10	3.53	4.49E-02
ENSG00000170903	MSANTD4	506.21	-0.54	4.49E-02
ENSG00000197763	TXNRD3	56.49	0.73	4.51E-02
ENSG00000184661	CDCA2	41.17	-1.19	4.51E-02
ENSG00000200897		32.90	-1.47	4.51E-02
ENSG00000157764	BRAF	2830.90	-0.38	4.51E-02
ENSG00000186625	KATNA1	378.06	-0.33	4.52E-02
ENSG00000270504		19.46	1.43	4.52E-02
ENSG00000261430		67.18	0.98	4.52E-02

ENSG00000230006	ANKRD36BP2	2222.43	-1.53	4.52E-02
ENSG00000170855	TRIAP1	232.36	-0.67	4.52E-02
ENSG00000012983	MAP4K5	1454.44	-0.39	4.52E-02
ENSG00000135525	MAP7	70.10	-0.96	4.54E-02
ENSG00000009694	TENM1	227.23	1.10	4.54E-02
ENSG00000162543	UBXN10	34.05	1.57	4.54E-02
ENSG00000136866	ZFP37	116.54	-0.86	4.54E-02
ENSG00000173933	RBM4	895.36	0.41	4.54E-02
ENSG00000180921	FAM83H	144.28	0.78	4.54E-02
ENSG00000279765		423.27	-0.68	4.55E-02
ENSG00000148842	CNNM2	708.29	0.48	4.55E-02
ENSG00000204186	ZDBF2	724.03	-0.49	4.56E-02
ENSG00000165071	TMEM71	2212.24	0.63	4.56E-02
ENSG00000152229	PSTPIP2	2532.41	1.17	4.56E-02
ENSG00000142102	PGGHG	5853.18	0.84	4.57E-02
ENSG00000163975	MELTF	331.75	-1.40	4.57E-02
ENSG00000184305	CCSER1	146.54	0.89	4.57E-02
ENSG00000159784	FAM131B	69.75	-0.93	4.57E-02
ENSG00000090470	PDCD7	708.25	-0.42	4.57E-02
ENSG00000273691		197.56	-1.73	4.57E-02
ENSG00000148019	CEP78	1183.68	0.61	4.57E-02
ENSG00000130303	BST2	1580.78	0.88	4.57E-02
ENSG00000279520		372.61	0.97	4.57E-02
ENSG00000109062	SLC9A3R1	3265.76	0.59	4.57E-02
ENSG00000197363	ZNF517	302.60	0.37	4.60E-02
ENSG00000003056	M6PR	3859.61	-0.64	4.60E-02
ENSG00000172716	SLFN11	1456.48	-0.66	4.60E-02
ENSG00000272148		61.73	0.67	4.60E-02
ENSG00000005448	WDR54	224.63	-0.42	4.60E-02
ENSG00000213585	VDAC1	1123.98	-0.89	4.60E-02
ENSG00000142089	IFITM3	3389.48	1.78	4.60E-02
ENSG00000103966	EHD4	1594.48	-0.92	4.60E-02
ENSG00000266714	MYO15B	3867.38	0.72	4.60E-02
ENSG00000112144	CILK1	599.27	0.30	4.60E-02
ENSG00000162572	SCNN1D	113.08	1.02	4.60E-02
ENSG00000132879	FBXO44	492.76	0.85	4.60E-02
ENSG00000135148	TRAFFD1	2226.32	0.74	4.61E-02
ENSG00000128203	ASPHD2	235.19	0.59	4.61E-02
ENSG00000160710	ADAR	17791.10	0.64	4.61E-02
ENSG00000136715	SAP130	807.16	0.51	4.61E-02
ENSG00000255575		13.81	-1.89	4.62E-02
ENSG00000106330	MOSPD3	122.42	0.83	4.63E-02
ENSG00000241489		146.40	-0.57	4.63E-02
ENSG00000147526	TACC1	5812.49	-0.38	4.63E-02
ENSG00000168273	SMIM4	105.53	-1.18	4.64E-02
ENSG00000092978	GPATCH2	413.46	-0.33	4.64E-02
ENSG00000260949		32.83	-1.48	4.64E-02
ENSG00000281162	LINC01127	202.34	-1.90	4.64E-02
ENSG00000172725	CORO1B	1541.42	0.61	4.64E-02
ENSG00000156030	MIDEAS	3995.93	-0.42	4.64E-02

ENSG00000133884	DPF2	1611.70	-0.31	4.64E-02
ENSG00000272529		144.05	0.80	4.65E-02
ENSG00000196700	ZNF512B	639.93	0.61	4.65E-02
ENSG00000104093	DMXL2	14166.29	-1.25	4.66E-02
ENSG00000117222	RBBP5	1142.49	-0.54	4.66E-02
ENSG00000173914	RBM4B	301.77	-0.46	4.66E-02
ENSG00000108406	DHX40	1009.26	0.40	4.66E-02
ENSG00000154511	DIPK1A	398.63	-0.57	4.67E-02
ENSG00000126860	EVI2A	2448.61	-0.73	4.68E-02
ENSG00000074201	CLNS1A	1340.76	0.35	4.69E-02
ENSG00000188786	MTF1	4117.24	-1.16	4.70E-02
ENSG00000243066	RN7SL842P	13.44	-1.64	4.70E-02
ENSG00000257298		22.07	-1.76	4.71E-02
ENSG00000279277		396.77	-0.61	4.72E-02
ENSG00000112984	KIF20A	16.72	-1.82	4.72E-02
ENSG00000173988	LRRC63	30.75	-1.00	4.74E-02
ENSG00000137411	VARS2	652.68	0.35	4.74E-02
ENSG00000083812	ZNF324	761.29	0.47	4.75E-02
ENSG00000172543	CTSW	928.63	1.04	4.75E-02
ENSG00000152894	PTPRK	116.11	0.93	4.76E-02
ENSG00000179364	PACS2	1176.73	0.54	4.76E-02
ENSG00000131374	TBC1D5	2077.10	0.42	4.76E-02
ENSG00000251768	RNA5SP217	19.14	-1.29	4.76E-02
ENSG00000268996	MAN1B1-DT	43.11	1.03	4.76E-02
ENSG00000171700	RGS19	2447.16	-0.67	4.76E-02
ENSG00000233922	LINC01694	18.32	1.65	4.76E-02
ENSG00000253986		19.89	-2.05	4.76E-02
ENSG00000167380	ZNF226	1142.99	-0.68	4.76E-02
ENSG00000160633	SAFB	2999.39	-0.38	4.76E-02
ENSG00000279155		12.55	1.99	4.78E-02
ENSG00000158882	TOMM40L	550.96	-0.72	4.78E-02
ENSG00000111860	CEP85L	2206.72	0.61	4.78E-02
ENSG00000151229	SLC2A13	337.95	-0.47	4.78E-02
ENSG00000261056		52.95	-0.85	4.79E-02
ENSG00000172301	COPRS	108.33	-0.67	4.79E-02
ENSG0000022267	FHL1	237.71	0.92	4.80E-02
ENSG0000035681	NSMAF	2413.57	-0.54	4.80E-02
ENSG0000010270	STARD3NL	928.29	-0.94	4.80E-02
ENSG00000270062		89.13	0.83	4.80E-02
ENSG00000273724		32.49	0.98	4.80E-02
ENSG00000266236	NARF-IT1	61.62	1.37	4.80E-02
ENSG00000108840	HDAC5	2373.35	0.50	4.80E-02
ENSG00000271870	NA	71.22	-0.82	4.81E-02
ENSG00000173145	NOC3L	609.85	-0.62	4.81E-02
ENSG00000089234	BRAP	1035.10	-0.28	4.81E-02
ENSG00000161249	DMKN	12.12	2.02	4.82E-02
ENSG00000204084	INPP5B	1170.85	0.26	4.82E-02
ENSG00000180139	ACTA2-AS1	277.27	0.61	4.82E-02
ENSG00000152601	MBNL1	13649.18	0.43	4.83E-02
ENSG00000211876	TRAJ13	133.14	-0.79	4.83E-02

ENSG00000278705	H4C2	1122.36	-0.83	4.83E-02
ENSG00000140931	CMTM3	1737.92	-0.45	4.83E-02
ENSG00000078246	TULP3	185.49	-0.56	4.83E-02
ENSG00000121310	ECHDC2	1173.92	0.58	4.83E-02
ENSG00000198642	KLHL9	1631.79	-0.47	4.84E-02
ENSG00000166938	DIS3L	746.58	0.38	4.84E-02
ENSG00000271736	LINC02772	28.09	-2.12	4.85E-02
ENSG00000269044		177.15	0.52	4.85E-02
ENSG00000145649	GZMA	530.51	1.32	4.85E-02
ENSG00000162585	FAAP20	594.87	0.66	4.87E-02
ENSG00000260366		21.61	1.20	4.87E-02
ENSG00000020181	ADGRA2	66.35	2.56	4.87E-02
ENSG00000079432	CIC	3028.89	0.66	4.88E-02
ENSG00000166477	LEO1	280.57	-0.61	4.88E-02
ENSG00000186918	ZNF395	840.26	0.49	4.89E-02
ENSG00000175224	ATG13	2019.48	0.30	4.90E-02
ENSG00000105854	PON2	114.12	0.81	4.90E-02
ENSG00000166886	NAB2	805.84	-1.25	4.90E-02
ENSG00000076351	SLC46A1	213.05	1.01	4.90E-02
ENSG00000128524	ATP6V1F	1759.40	-0.68	4.91E-02
ENSG00000099330	OCEL1	211.28	0.72	4.91E-02
ENSG00000280953	LINC01163	15.55	1.99	4.92E-02
ENSG00000134453	RBM17	1598.89	-0.37	4.92E-02
ENSG00000226659	TSPAN14-AS1	68.10	0.81	4.92E-02
ENSG00000142599	RERE	3015.13	0.48	4.92E-02
ENSG00000006756	ARSD	295.03	0.72	4.92E-02
ENSG00000226057	PHF2P2	15.60	1.99	4.93E-02
ENSG00000102034	ELF4	2637.41	-0.54	4.94E-02
ENSG00000188820	CALHM6	257.85	1.45	4.94E-02
ENSG00000196865	NHLRC2	1443.01	-0.29	4.94E-02
ENSG00000180957	PITPNB	1404.01	-0.47	4.94E-02
ENSG00000274561		174.25	-0.55	4.94E-02
ENSG00000072401	UBE2D1	1155.80	0.78	4.94E-02
ENSG00000262380		141.53	-0.72	4.94E-02
ENSG00000172379	ARNT2	173.39	-2.95	4.95E-02
ENSG00000175868	CALCB	61.85	-0.85	4.95E-02
ENSG00000065809	FAM107B	5535.20	-0.32	4.95E-02
ENSG00000106348	IMPDH1	2468.10	0.83	4.95E-02
ENSG00000159200	RCAN1	478.34	-0.83	4.95E-02
ENSG00000181817	LSM10	850.41	-0.50	4.96E-02
ENSG00000147576	ADHFE1	234.15	0.63	4.96E-02
ENSG00000279082	LINC01727	59.25	-0.92	4.96E-02
ENSG00000100105	PATZ1	1306.33	0.40	4.96E-02
ENSG00000077380	DYNC1I2	1174.94	-0.51	4.96E-02
ENSG00000159899	NPR2	99.36	-0.88	4.96E-02
ENSG00000279549		130.47	-1.04	4.96E-02
ENSG00000122958	VPS26A	1196.34	-0.43	4.96E-02
ENSG00000135637	CCDC142	855.88	-0.65	4.96E-02
ENSG00000155189	AGPAT5	731.59	-0.64	4.97E-02
ENSG00000048162	NOP16	214.84	-1.00	4.98E-02

ENSG00000135144	DTX1	150.66	1.18	4.98E-02
ENSG00000157600	TMEM164	2075.03	0.68	4.98E-02
ENSG00000148356	LRSAM1	877.17	0.41	4.98E-02
ENSG00000279814		30.05	-1.32	4.98E-02
ENSG00000272434		15.58	2.06	4.98E-02
ENSG00000224051	CPTP	486.36	0.45	4.98E-02
ENSG00000196946	ZNF705A	11.09	-2.69	4.98E-02
ENSG00000159403	C1R	43.86	1.48	4.99E-02
ENSG00000148450	MSRB2	184.53	0.60	4.99E-02
ENSG00000206448	PPIAP30	42.86	-0.90	5.00E-02

Supplementary Table 10

Significantly differentially expressed genes (adjusted $p \leq 0.05$) identified in DESeq2 with the cell-adjusted model for the variable *Influenza*

Ensembl gene ID	Gene symbol	baseMean	log2FoldChange	adj. p
ENSG00000165949	IFI27	1928.25	5.81	3.03E-97
ENSG00000160932	LY6E	4292.38	2.29	6.60E-51
ENSG00000133106	EPSTI1	2612.65	1.83	1.71E-40
ENSG00000123485	HJURP	38.70	1.66	6.81E-40
ENSG00000088827	SIGLEC1	1193.92	3.26	2.19E-39
ENSG00000237649	KIFC1	55.40	1.36	1.31E-38
ENSG00000177294	FBXO39	88.21	2.14	2.65E-35
ENSG00000137965	IFI44	2605.46	2.43	1.06E-33
ENSG00000089685	BIRC5	41.50	1.92	1.38E-33
ENSG00000089127	OAS1	2728.18	2.21	2.17E-33
ENSG00000273983	H3C8	214.63	1.99	2.72E-32
ENSG00000225964	NRIR	124.28	2.27	6.08E-32
ENSG00000278272	NA	337.78	1.62	8.85E-32
ENSG00000134326	CMPK2	1742.81	2.32	6.69E-31
ENSG00000136514	RTP4	418.94	1.54	8.55E-30
ENSG00000126709	IFI6	4115.00	2.08	1.24E-29
ENSG00000146670	CDCA5	41.66	1.40	1.63E-28
ENSG00000111331	OAS3	8080.81	2.22	5.36E-28
ENSG00000274267	NA	487.93	1.64	2.35E-27
ENSG00000171848	RRM2	124.31	1.77	2.90E-27
ENSG00000187608	ISG15	3730.64	2.38	6.74E-27
ENSG00000176890	TYMS	71.53	1.66	7.20E-27
ENSG00000111335	OAS2	4954.94	1.62	3.43E-26
ENSG00000132530	XAF1	6707.25	1.75	1.96E-25
ENSG00000170312	CDK1	58.16	1.33	5.27E-25
ENSG00000142089	IFITM3	3389.48	1.85	1.01E-24
ENSG00000280270		15.70	2.12	2.86E-24
ENSG00000196141	SPATS2L	440.66	1.53	4.50E-24
ENSG00000188290	HES4	961.32	1.81	1.20E-23
ENSG00000111206	FOXM1	52.06	1.27	1.31E-23
ENSG00000184979	USP18	270.91	2.32	1.33E-23
ENSG00000276368	H2AC14	340.38	1.53	1.40E-23
ENSG00000137628	DDX60	3280.27	1.36	2.31E-23
ENSG00000100129	EIF3L	2359.67	-0.37	7.43E-23
ENSG00000141664	ZCCHC2	4219.23	0.82	1.82E-22
ENSG00000157456	CCNB2	41.70	1.24	6.46E-22
ENSG00000272512		523.53	2.00	2.59E-21
ENSG00000112984	KIF20A	16.72	1.83	3.12E-21
ENSG00000278463	H2AC4	156.42	1.23	4.17E-21
ENSG00000188313	PLSCR1	4203.92	1.17	5.73E-21
ENSG00000157601	MX1	8303.95	1.79	8.83E-21
ENSG00000115155	OTOF	97.98	2.63	2.06E-20
ENSG00000135114	OASL	2498.04	1.72	2.06E-20
ENSG00000119917	IFIT3	7975.76	2.05	2.95E-20
ENSG00000130487	KLHDC7B	263.91	0.87	3.22E-20

ENSG00000132669	RIN2	1328.64	1.06	3.26E-20
ENSG00000167513	CDT1	42.85	1.43	4.89E-20
ENSG00000145386	CCNA2	77.25	1.15	5.19E-20
ENSG00000277775	H3C7	402.95	1.43	7.15E-20
ENSG00000168078	PBK	8.08	2.00	8.74E-20
ENSG00000142945	KIF2C	53.72	1.08	2.12E-19
ENSG00000130303	BST2	1580.78	0.81	2.69E-19
ENSG00000273703	H2BC14	156.70	1.10	2.98E-19
ENSG00000197153	H3C12	228.17	1.28	3.11E-19
ENSG00000185507	IRF7	3332.94	1.07	4.10E-19
ENSG00000161888	SPC24	34.39	1.13	5.12E-19
ENSG00000238015		24.92	2.14	6.66E-19
ENSG00000164054	SHISA5	4484.24	0.55	7.07E-19
ENSG00000130489	NA	133.57	0.86	7.07E-19
ENSG00000138646	HERC5	2264.45	1.59	1.15E-18
ENSG00000140534	TICRR	25.59	1.27	2.10E-18
ENSG00000138180	CEP55	23.81	1.61	2.33E-18
ENSG00000076662	ICAM3	5076.90	-0.50	3.86E-18
ENSG00000100220	RTCB	1096.23	0.37	4.08E-18
ENSG00000184357	H1-5	962.42	1.04	1.27E-17
ENSG00000152778	IFIT5	2574.33	1.08	1.27E-17
ENSG00000175894	TSPEAR	14.20	-2.26	1.35E-17
ENSG00000138642	HERC6	1389.23	1.28	1.95E-17
ENSG00000173786	CNP	1592.73	0.56	1.97E-17
ENSG00000167658	EEF2	34335.02	-0.35	3.59E-17
ENSG00000143228	NUF2	52.38	0.72	1.11E-16
ENSG00000108771	DHX58	1318.12	0.95	1.18E-16
ENSG00000106785	TRIM14	2663.40	0.47	1.29E-16
ENSG00000124256	ZBP1	2332.30	0.92	1.39E-16
ENSG00000171320	ESCO2	38.94	0.87	1.39E-16
ENSG00000122952	ZWINT	45.32	0.85	5.37E-16
ENSG00000068079	IFI35	1175.15	0.95	5.76E-16
ENSG00000117650	NEK2	19.49	1.27	8.80E-16
ENSG00000132274	TRIM22	10182.40	0.80	9.50E-16
ENSG00000059378	PARP12	3440.11	0.75	2.91E-15
ENSG00000154839	SKA1	24.32	1.24	3.55E-15
ENSG00000159556	ISL2	48.14	-1.22	6.36E-15
ENSG00000167900	TK1	51.48	1.22	6.50E-15
ENSG00000274641	H2BC17	177.26	0.97	7.11E-15
ENSG00000134809	TIMM10	302.75	0.84	1.09E-14
ENSG00000136573	BLK	1018.60	-0.40	1.15E-14
ENSG00000188157	AGRN	689.01	1.31	1.23E-14
ENSG00000063046	EIF4B	14535.64	-0.33	1.67E-14
ENSG00000163565	IFI16	5432.34	0.55	1.82E-14
ENSG00000055332	EIF2AK2	4023.45	1.09	2.21E-14
ENSG00000138496	PARP9	5529.78	0.92	2.84E-14
ENSG00000112343	TRIM38	5529.38	0.38	2.93E-14
ENSG00000186185	KIF18B	40.84	1.12	3.37E-14
ENSG00000026950	BTN3A1	6396.47	0.34	4.81E-14
ENSG00000137364	TPMT	454.78	0.43	4.87E-14

ENSG00000178075	GRAMD1C	188.26	-0.66	4.96E-14
ENSG00000255221	CARD17	160.20	1.24	5.30E-14
ENSG00000127564	PKMYT1	35.06	1.07	6.13E-14
ENSG00000116663	FBXO6	372.83	0.73	6.62E-14
ENSG00000075218	GTSE1	49.67	1.01	7.20E-14
ENSG00000163823	CCR1	3903.53	0.89	9.08E-14
ENSG00000148773	MKI67	359.48	0.84	1.41E-13
ENSG00000119922	IFIT2	8546.55	1.55	1.45E-13
ENSG00000144843	ADPRH	381.82	0.44	1.77E-13
ENSG00000211659	IGLV3-25	95.57	1.12	1.79E-13
ENSG00000132357	CARD6	525.84	0.62	1.85E-13
ENSG00000167461	RAB8A	2875.92	0.29	3.06E-13
ENSG00000117399	CDC20	39.42	1.43	4.26E-13
ENSG00000110079	MS4A4A	395.83	1.15	5.11E-13
ENSG00000258819	LINC02289	183.87	-1.98	6.00E-13
ENSG00000177602	HASPIN	21.99	0.97	6.60E-13
ENSG00000093009	CDC45	17.29	1.40	7.08E-13
ENSG00000103154	NECAB2	55.11	-1.36	7.52E-13
ENSG00000132256	TRIM5	1127.57	0.68	1.08E-12
ENSG00000105202	FBL	2315.39	-0.31	1.08E-12
ENSG00000163512	AZI2	1354.30	0.41	1.17E-12
ENSG00000205413	SAMD9	8860.67	0.79	1.25E-12
ENSG00000165891	E2F7	22.91	1.22	1.57E-12
ENSG00000274997	H2AC12	242.27	0.93	2.13E-12
ENSG00000121236	TRIM6	25.40	1.25	2.53E-12
ENSG00000196116	TDRD7	1286.80	0.60	3.04E-12
ENSG00000114942	EEF1B2	6190.88	-0.40	3.91E-12
ENSG00000268903		255.55	-0.97	3.99E-12
ENSG00000173821	RNF213	38189.95	0.58	5.13E-12
ENSG00000276410	H2BC3	108.29	1.03	5.95E-12
ENSG00000136816	TOR1B	1487.78	0.71	5.99E-12
ENSG00000108100	CCNY	2522.40	-0.26	5.99E-12
ENSG00000282851	BISPR	454.31	0.62	6.34E-12
ENSG00000225434	LINC01504	57.63	0.58	6.41E-12
ENSG00000279236		181.02	0.68	6.41E-12
ENSG00000177409	SAMD9L	6705.37	1.00	6.47E-12
ENSG00000002549	LAP3	2035.23	0.81	6.52E-12
ENSG00000168961	LGALS9	1958.90	0.59	8.39E-12
ENSG00000269720	CCDC194	54.66	0.89	8.62E-12
ENSG00000156508	EEF1A1	213315.83	-0.29	9.39E-12
ENSG00000206503	HLA-A	71298.07	0.29	9.92E-12
ENSG00000149131	SERPING1	412.90	1.74	1.36E-11
ENSG00000130589	HELZ2	7931.64	0.80	2.06E-11
ENSG00000177425	PAWR	338.92	-0.32	2.16E-11
ENSG00000129173	E2F8	17.41	1.16	2.25E-11
ENSG00000133561	GIMAP6	4173.64	0.29	2.30E-11
ENSG00000099998	GGT5	62.26	-1.67	2.55E-11
ENSG00000198715	GLMP	653.83	0.49	2.83E-11
ENSG00000025708	TYMP	8837.11	0.57	2.96E-11
ENSG00000233785		32.29	1.06	3.19E-11

ENSG00000156587	UBE2L6	3105.63	0.69	3.38E-11
ENSG00000247317	LY6E-DT	71.77	1.01	3.42E-11
ENSG00000184661	CDCA2	41.17	0.84	3.53E-11
ENSG00000173801	JUP	266.97	0.78	3.62E-11
ENSG00000169679	BUB1	158.76	0.66	3.78E-11
ENSG00000278133		260.67	-0.28	4.62E-11
ENSG00000131747	TOP2A	244.01	0.76	4.74E-11
ENSG00000111665	CDCA3	39.58	0.67	6.78E-11
ENSG00000214456	PLIN5	442.58	-0.88	7.09E-11
ENSG00000177989	ODF3B	1164.72	0.73	7.12E-11
ENSG00000133112	TPT1	54781.99	-0.33	8.10E-11
ENSG00000203709	MIR29B2CHG	7231.88	-0.33	8.10E-11
ENSG00000233030		98.27	1.11	1.22E-10
ENSG00000223725		107.03	-0.53	1.24E-10
ENSG00000166987	MBD6	1930.39	-0.32	1.26E-10
ENSG00000124549	BTN2A3P	180.46	0.46	1.49E-10
ENSG00000133216	EPHB2	179.24	1.18	1.53E-10
ENSG00000155363	MOV10	1950.81	0.58	2.16E-10
ENSG00000103510	KAT8	1191.34	-0.25	2.17E-10
ENSG00000166803	PCLAF	21.61	0.96	2.37E-10
ENSG00000185885	IFITM1	4258.01	0.79	3.24E-10
ENSG00000132205	EMILIN2	2829.06	0.39	3.24E-10
ENSG00000125148	MT2A	1758.64	0.99	3.24E-10
ENSG00000172123	SLFN12	403.96	0.41	3.25E-10
ENSG00000255328		151.40	0.83	3.62E-10
ENSG00000173825	TIGD3	86.72	-0.88	3.85E-10
ENSG00000123130	ACOT9	1704.21	0.47	4.45E-10
ENSG00000161057	PSMC2	1215.78	0.31	4.56E-10
ENSG00000170581	STAT2	6244.89	0.58	4.57E-10
ENSG00000185880	TRIM69	1870.23	0.61	4.75E-10
ENSG00000183486	MX2	9775.02	0.70	5.16E-10
ENSG00000012232	EXTL3	1425.76	-0.31	5.16E-10
ENSG00000211933	IGHV6-1	27.33	1.33	5.83E-10
ENSG00000106605	BLVRA	482.84	0.59	6.78E-10
ENSG00000164045	CDC25A	15.39	1.10	6.89E-10
ENSG00000171150	SOC5	677.55	-0.19	6.92E-10
ENSG00000197965	MPZL1	705.07	-0.68	6.92E-10
ENSG00000187642	PERM1	16.71	2.22	7.07E-10
ENSG00000143891	GALM	762.01	0.50	7.07E-10
ENSG00000101849	TBL1X	2340.69	-0.27	7.63E-10
ENSG00000226738	NA	14.37	1.51	7.69E-10
ENSG00000094804	CDC6	60.56	0.66	7.69E-10
ENSG00000276903	H2AC16	168.67	0.94	8.83E-10
ENSG00000133985	TTC9	648.23	-0.30	9.33E-10
ENSG00000136147	PHF11	2020.04	0.42	9.52E-10
ENSG00000092098	RNF31	1010.32	0.27	1.03E-09
ENSG00000122986	HVCN1	1022.04	-0.36	1.10E-09
ENSG00000160683	CXCR5	778.57	-0.29	1.11E-09
ENSG00000146122	DAAM2	98.10	-2.11	1.31E-09
ENSG00000129255	MPDU1	636.87	0.32	1.34E-09

ENSG00000100034	PPM1F	3716.61	-0.45	1.38E-09
ENSG00000182952	HMGNA4	1444.39	0.23	1.38E-09
ENSG00000081052	COL4A4	98.06	-0.50	1.43E-09
ENSG00000173193	PARP14	14566.84	0.77	1.49E-09
ENSG00000163872	YEATS2	1335.28	0.23	1.53E-09
ENSG00000121858	TNFSF10	2342.61	0.83	1.65E-09
ENSG00000105369	CD79A	1731.87	-0.35	1.67E-09
ENSG00000076382	SPAG5	136.10	0.42	1.67E-09
ENSG00000198133	TMEM229B	823.25	0.28	1.76E-09
ENSG00000135899	SP110	5690.81	0.39	1.81E-09
ENSG00000111961	SASH1	432.85	0.71	1.86E-09
ENSG00000112773	TENT5A	989.30	0.46	1.87E-09
ENSG00000163840	DTX3L	4481.43	0.62	2.15E-09
ENSG00000169715	MT1E	105.67	1.13	2.38E-09
ENSG00000196470	SIAH1	803.85	-0.30	2.50E-09
ENSG00000115750	TAF1B	434.37	0.23	2.57E-09
ENSG00000132646	PCNA	532.34	0.36	2.57E-09
ENSG00000125355	TMEM255A	34.31	1.07	2.66E-09
ENSG00000169031	COL4A3	96.13	-0.63	2.66E-09
ENSG00000277511		46.05	0.94	2.66E-09
ENSG00000231113	LINC02976	377.55	-0.30	2.68E-09
ENSG00000196083	IL1RAP	1651.38	-0.57	3.15E-09
ENSG00000118113	MMP8	253.42	0.87	3.20E-09
ENSG00000107201	DDX58	3507.85	0.80	3.20E-09
ENSG00000138035	PNPT1	909.59	0.70	3.36E-09
ENSG00000160710	ADAR	17791.10	0.40	4.20E-09
ENSG00000165259	HDX	85.59	0.52	4.95E-09
ENSG00000186818	LILRB4	1532.77	0.66	5.09E-09
ENSG00000162063	CCNF	161.87	0.45	5.09E-09
ENSG00000234745	HLA-B	90592.03	0.23	5.28E-09
ENSG00000280007		81.09	0.95	5.31E-09
ENSG00000115159	GPD2	938.81	0.34	5.37E-09
ENSG00000163568	AIM2	392.17	0.67	5.37E-09
ENSG00000140464	PML	3591.88	0.52	5.39E-09
ENSG00000166851	PLK1	123.41	0.59	5.39E-09
ENSG00000109684	CLNK	26.03	-0.62	5.60E-09
ENSG00000168003	SLC3A2	3748.64	0.36	5.63E-09
ENSG00000146918	NCAPG2	258.75	0.29	5.71E-09
ENSG00000168329	CX3CR1	877.08	0.87	5.84E-09
ENSG00000172432	GTPBP2	2617.50	0.44	5.92E-09
ENSG00000134575	ACP2	746.03	0.40	6.71E-09
ENSG00000104738	MCM4	295.51	0.34	7.38E-09
ENSG00000119866	BCL11A	854.03	-0.30	7.38E-09
ENSG00000164330	EBF1	357.57	-0.45	7.59E-09
ENSG00000004468	CD38	1050.74	0.49	7.71E-09
ENSG00000135476	ESPL1	190.12	0.66	8.17E-09
ENSG00000072864	NDE1	3061.99	-0.24	8.18E-09
ENSG00000123609	NMI	1725.38	0.43	8.25E-09
ENSG00000211592	IGKC	5143.52	0.73	8.25E-09
ENSG00000137200	CMTR1	2535.59	0.38	8.33E-09

ENSG00000211892	IGHG4	116.88	0.93	9.81E-09
ENSG00000132465	JCHAIN	2812.47	0.81	1.03E-08
ENSG00000179915	NRXN1	24.51	-0.91	1.09E-08
ENSG00000173207	CKS1B	110.47	0.40	1.12E-08
ENSG00000275713	H2BC9	341.86	0.59	1.17E-08
ENSG00000146278	PNRC1	13880.19	-0.33	1.17E-08
ENSG00000137752	CASP1	3616.01	0.37	1.22E-08
ENSG00000067066	SP100	8607.46	0.38	1.31E-08
ENSG00000124688	MAD2L1BP	552.74	0.33	1.57E-08
ENSG00000173369	C1QB	100.33	1.05	1.59E-08
ENSG00000223387	LINC02068	15.30	1.89	1.62E-08
ENSG00000066279	ASPM	235.93	0.66	1.66E-08
ENSG00000274290	H2BC6	512.93	0.50	1.70E-08
ENSG00000130813	SHFL	1643.44	0.44	1.77E-08
ENSG00000111801	BTN3A3	2949.85	0.32	2.05E-08
ENSG00000003400	CASP10	1482.46	0.28	2.16E-08
ENSG00000088325	TPX2	113.08	0.70	2.22E-08
ENSG00000115267	IFIH1	4395.35	0.84	2.23E-08
ENSG00000213928	IRF9	982.25	0.43	2.23E-08
ENSG00000068394	GPKOW	426.12	0.20	2.26E-08
ENSG00000165115	KIF27	345.46	-0.36	2.32E-08
ENSG00000181381	DDX60L	10271.14	0.69	2.42E-08
ENSG00000135211	TMEM60	236.16	0.44	2.74E-08
ENSG00000023171	GRAMD1B	893.39	0.38	3.29E-08
ENSG00000153561	RMND5A	2778.07	-0.25	3.31E-08
ENSG00000171241	SHCBP1	49.17	0.75	3.33E-08
ENSG00000196550	FAM72A	34.64	0.71	3.37E-08
ENSG00000225611	CCDC13-AS2	47.70	-0.96	3.37E-08
ENSG00000110057	UNC93B1	1979.85	0.46	3.54E-08
ENSG00000172765	TMCC1	1958.90	-0.35	3.59E-08
ENSG00000122733	PHF24	32.43	-1.98	3.84E-08
ENSG00000086065	CHMP5	1475.47	0.49	4.07E-08
ENSG00000248810	LINC02432	79.74	0.66	4.18E-08
ENSG00000130475	FCHO1	1420.96	-0.28	4.49E-08
ENSG00000116337	AMPD2	4081.13	-0.64	4.66E-08
ENSG00000117632	STMN1	451.45	0.39	4.75E-08
ENSG00000211662	IGLV3-21	146.24	1.04	5.11E-08
ENSG00000061273	HDAC7	3628.33	-0.20	5.21E-08
ENSG00000170385	SLC30A1	1786.41	0.45	5.24E-08
ENSG00000167601	AXL	92.73	1.07	5.41E-08
ENSG00000255274	SMIM35	54.73	-0.93	5.71E-08
ENSG00000270972		68.31	0.92	5.83E-08
ENSG00000042980	ADAM28	1492.78	-0.32	5.91E-08
ENSG00000132694	ARHGEF11	1635.80	0.36	6.05E-08
ENSG00000116731	PRDM2	6372.41	-0.17	6.06E-08
ENSG00000244437	IGKV3-15	178.18	0.69	6.06E-08
ENSG00000239305	RNF103	1463.49	-0.25	6.54E-08
ENSG00000048462	TNFRSF17	33.59	0.97	7.31E-08
ENSG00000104970	KIR3DX1	99.91	0.68	7.33E-08
ENSG00000163009	NA	9.75	1.30	7.96E-08

ENSG00000267745		45.69	0.47	8.26E-08
ENSG00000276180	H4C9	389.12	0.57	8.78E-08
ENSG00000259529		234.56	0.50	8.79E-08
ENSG00000120690	ELF1	7012.55	0.26	9.06E-08
ENSG00000185130	H2BC13	167.08	0.75	9.10E-08
ENSG00000141837	CACNA1A	34.90	0.82	9.10E-08
ENSG00000142512	SIGLEC10	2992.06	-0.89	9.56E-08
ENSG00000233369	GTF2IP4	670.02	-0.25	1.00E-07
ENSG00000183049	CAMK1D	2051.02	-0.26	1.01E-07
ENSG00000172426	RSPH9	17.49	1.00	1.06E-07
ENSG00000117228	GBP1	6393.82	1.03	1.11E-07
ENSG00000239855	IGKV1-6	27.78	0.96	1.12E-07
ENSG00000108679	LGALS3BP	551.91	0.59	1.18E-07
ENSG00000122643	NT5C3A	1635.24	0.48	1.20E-07
ENSG00000235621	LINC00494	83.46	-0.49	1.20E-07
ENSG00000173706	HEG1	1249.90	0.28	1.22E-07
ENSG00000111247	RAD51AP1	55.78	0.62	1.26E-07
ENSG00000251546	IGKV1D-39	23.60	1.22	1.28E-07
ENSG00000236901	MIR600HG	432.37	-0.29	1.33E-07
ENSG00000127663	KDM4B	3766.26	-0.32	1.33E-07
ENSG00000092853	CLSPN	75.31	0.54	1.37E-07
ENSG00000211677	IGLC2	1034.69	0.73	1.38E-07
ENSG00000051180	RAD51	23.98	0.66	1.38E-07
ENSG00000156738	MS4A1	2214.10	-0.38	1.38E-07
ENSG00000006062	MAP3K14	1712.45	-0.17	1.38E-07
ENSG00000196205	EEF1A1P5	1055.10	-0.31	1.38E-07
ENSG00000140526	ABHD2	4844.66	-0.33	1.41E-07
ENSG00000151490	PTPRO	276.70	0.52	1.46E-07
ENSG00000234902		24.73	-0.70	1.46E-07
ENSG00000131480	AOC2	240.50	-0.49	1.48E-07
ENSG00000064547	LPAR2	1376.72	-0.27	1.60E-07
ENSG00000178685	PARP10	4468.73	0.45	1.63E-07
ENSG00000110042	DTX4	616.35	-0.52	1.71E-07
ENSG00000079393	DUSP13	42.29	1.10	1.75E-07
ENSG00000267385		43.78	-0.85	1.76E-07
ENSG00000180758	GPR157	601.75	-0.59	1.77E-07
ENSG00000136213	CHST12	2724.81	0.35	1.85E-07
ENSG00000159189	C1QC	106.51	1.10	1.85E-07
ENSG00000165527	ARF6	4647.99	0.24	1.89E-07
ENSG00000166750	SLFN5	9389.40	0.35	1.94E-07
ENSG00000130702	LAMA5	155.39	-0.46	1.97E-07
ENSG00000186470	BTN3A2	5627.84	0.25	2.17E-07
ENSG00000242265	PEG10	84.13	-0.58	2.23E-07
ENSG00000152558	TMEM123	11927.46	0.40	2.50E-07
ENSG00000100918	REC8	787.50	0.48	2.53E-07
ENSG00000109919	MTCH2	558.39	0.19	2.61E-07
ENSG00000103018	CYB5B	859.27	0.19	2.72E-07
ENSG00000162909	CAPN2	4062.08	0.28	2.75E-07
ENSG00000277157	H4C4	786.14	0.53	2.83E-07
ENSG00000108950	FAM20A	163.23	0.86	2.91E-07

ENSG00000106392	C1GALT1	1821.78	0.29	2.91E-07
ENSG00000145936	KCNMB1	85.87	0.57	2.96E-07
ENSG00000104972	LILRB1	2806.51	0.57	3.05E-07
ENSG00000211679	IGLC3	565.56	0.69	3.05E-07
ENSG00000211640	IGLV6-57	35.44	0.93	3.07E-07
ENSG00000128815	WDFY4	4031.04	-0.31	3.24E-07
ENSG00000117475	BLZF1	966.17	0.34	3.28E-07
ENSG00000235066		9.70	1.86	3.29E-07
ENSG00000188610	FAM72B	24.57	0.61	3.36E-07
ENSG00000117226	GBP3	1684.56	0.55	3.53E-07
ENSG00000188848	BEND4	145.70	-0.35	3.58E-07
ENSG00000183688	RFLNB	2018.96	-0.47	3.66E-07
ENSG00000135363	LMO2	814.56	0.47	3.79E-07
ENSG00000143374	TARS2	487.79	0.19	3.88E-07
ENSG00000196747	H2AC13	340.27	0.67	4.18E-07
ENSG00000179051	RCC2	2930.86	0.23	4.24E-07
ENSG00000124635	H2BC11	477.93	0.49	4.24E-07
ENSG00000276566	IGKV1D-13	10.24	1.24	4.33E-07
ENSG00000159176	CSRP1	1048.09	0.21	4.44E-07
ENSG00000168216	LMBRD1	1490.73	-0.26	4.59E-07
ENSG00000131355	ADGRE3	1950.45	-0.77	4.82E-07
ENSG00000079263	SP140	2811.37	0.36	4.84E-07
ENSG00000011198	ABHD5	984.01	-0.49	5.39E-07
ENSG00000154188	ANGPT1	63.78	-0.96	5.66E-07
ENSG00000206337	HCP5	5771.13	0.45	5.73E-07
ENSG00000140525	FANCI	316.55	0.28	5.85E-07
ENSG00000211898	IGHD	867.87	-0.31	6.00E-07
ENSG00000186407	CD300E	3177.05	1.03	6.10E-07
ENSG00000211653	IGLV1-40	140.86	0.89	6.22E-07
ENSG00000276043	UHRF1	61.77	0.70	6.46E-07
ENSG00000177335	LINC02904	32.93	0.56	6.55E-07
ENSG00000205364	MT1M	11.03	2.22	6.63E-07
ENSG00000239951	IGKV3-20	353.55	0.73	7.05E-07
ENSG00000197852	INKA2	1526.65	-0.59	7.06E-07
ENSG00000242371	IGKV1-39	35.75	0.92	7.06E-07
ENSG00000008838	MED24	969.52	0.18	7.77E-07
ENSG00000198728	LDB1	2106.91	-0.13	7.77E-07
ENSG00000185897	FFAR3	91.14	1.12	8.20E-07
ENSG00000180535	BHLHA15	14.68	1.14	8.47E-07
ENSG00000204397	CARD16	1061.37	0.41	8.60E-07
ENSG00000112245	PTP4A1	2732.33	0.30	8.77E-07
ENSG00000211638	IGLV8-61	37.51	1.02	8.83E-07
ENSG00000156931	VPS8	3208.54	-0.25	9.28E-07
ENSG00000074964	ARHGEF10L	832.68	0.41	9.50E-07
ENSG00000130066	SAT1	24596.26	0.50	9.52E-07
ENSG00000068489	PRR11	93.51	0.47	9.77E-07
ENSG00000164611	PTTG1	70.73	0.51	9.85E-07
ENSG00000100908	EMC9	156.34	0.33	9.85E-07
ENSG00000267102		65.43	0.39	9.85E-07
ENSG00000165209	STRBP	904.12	-0.20	9.88E-07

ENSG00000114656	CFAP92	131.89	-0.77	9.88E-07
ENSG00000183598	H3C13	658.61	0.49	1.01E-06
ENSG00000175550	DRAP1	836.81	0.36	1.02E-06
ENSG00000102524	TNFSF13B	1409.72	0.67	1.09E-06
ENSG00000004142	POLDIP2	950.16	0.18	1.09E-06
ENSG00000135535	CD164	8025.77	0.21	1.09E-06
ENSG00000251513	LIX1-AS1	114.45	-0.43	1.12E-06
ENSG00000091483	FH	456.56	0.19	1.15E-06
ENSG00000266028	SRGAP2	1512.26	0.34	1.17E-06
ENSG00000123131	PRDX4	216.13	0.37	1.20E-06
ENSG00000123338	NCKAP1L	6465.48	0.16	1.23E-06
ENSG00000173372	C1QA	90.41	0.90	1.24E-06
ENSG00000148926	ADM	1914.70	0.54	1.25E-06
ENSG00000278195	SSTR3	381.64	0.40	1.30E-06
ENSG00000165185	KIAA1958	420.20	0.40	1.32E-06
ENSG00000113719	ERGIC1	5620.40	-0.23	1.34E-06
ENSG00000196839	ADA	1527.60	0.50	1.34E-06
ENSG00000019169	MARCO	569.42	1.22	1.37E-06
ENSG00000153207	AHCTF1	3485.68	-0.19	1.39E-06
ENSG00000023191	RNH1	2227.68	0.21	1.39E-06
ENSG00000100228	RAB36	40.88	-0.83	1.39E-06
ENSG00000279330		280.85	-0.29	1.43E-06
ENSG00000187741	FANCA	575.64	0.42	1.45E-06
ENSG00000047644	WWC3	2288.79	-0.20	1.52E-06
ENSG00000099875	MKNK2	7611.56	-0.23	1.53E-06
ENSG00000116396	KCNC4	1252.37	-0.21	1.57E-06
ENSG00000133055	MYBPH	86.60	-0.97	1.58E-06
ENSG00000085491	SLC25A24	1132.84	0.30	1.59E-06
ENSG00000165716	DIPK1B	89.06	-0.49	1.59E-06
ENSG00000164342	TLR3	58.21	0.52	1.59E-06
ENSG00000221963	APOL6	6651.82	0.50	1.59E-06
ENSG00000113721	PDGFRB	76.74	0.54	1.61E-06
ENSG00000154102	C16orf74	206.10	-0.35	1.65E-06
ENSG00000253364	COPDA1	30.26	-0.69	1.66E-06
ENSG00000179088	C12orf42	332.27	-0.31	1.66E-06
ENSG00000166579	NDEL1	4057.11	-0.26	1.68E-06
ENSG00000181481	RNF135	797.58	0.37	1.71E-06
ENSG00000221978	CCNL2	4301.91	-0.12	1.71E-06
ENSG00000168394	TAP1	10365.60	0.47	1.77E-06
ENSG00000133048	CHI3L1	2395.40	-0.82	1.82E-06
ENSG00000138670	RASGEF1B	3507.70	0.53	1.87E-06
ENSG00000262332		18.30	-1.38	1.89E-06
ENSG00000196358	NTNG2	1806.02	0.56	1.90E-06
ENSG00000038210	PI4K2B	557.15	0.36	2.05E-06
ENSG00000197579	TOPORS	1157.02	-0.22	2.16E-06
ENSG00000161800	RACGAP1	328.52	0.38	2.31E-06
ENSG00000141905	NFIC	1344.14	-0.24	2.39E-06
ENSG00000231259	ANAPC1P2	463.75	-0.20	2.39E-06
ENSG00000101844	ATG4A	267.58	0.21	2.42E-06
ENSG00000261474		143.19	-0.26	2.42E-06

ENSG00000144645	OSBPL10	335.70	-0.50	2.44E-06
ENSG00000211673	IGLV3-1	99.38	0.76	2.44E-06
ENSG00000279320		160.37	0.92	2.44E-06
ENSG00000254420		23.35	1.35	2.44E-06
ENSG00000149823	VPS51	2666.34	-0.23	2.64E-06
ENSG00000255987	TOMM20P2	314.68	0.44	2.66E-06
ENSG00000105722	ERF	1014.58	-0.21	2.69E-06
ENSG00000240382	IGKV1-17	43.91	0.92	2.83E-06
ENSG00000234127	TRIM26	1852.16	0.19	2.84E-06
ENSG00000211598	IGKV4-1	213.78	0.76	2.84E-06
ENSG00000162551	ALPL	1028.01	-1.04	3.08E-06
ENSG00000007516	BAIAP3	280.29	-0.71	3.09E-06
ENSG00000107736	CDH23	1319.06	-0.61	3.12E-06
ENSG00000132122	SPATA6	160.02	-0.36	3.25E-06
ENSG00000198087	CD2AP	1528.12	0.23	3.25E-06
ENSG00000162714	ZNF496	1297.34	0.31	3.26E-06
ENSG00000114650	SCAP	1952.89	-0.22	3.30E-06
ENSG00000182389	CACNB4	91.37	-0.73	3.34E-06
ENSG00000100596	SPTLC2	1675.83	0.26	3.48E-06
ENSG00000160957	RECQL4	72.49	0.37	3.48E-06
ENSG00000140443	IGF1R	3577.78	-0.31	3.49E-06
ENSG00000172500	FIBP	517.33	0.20	3.52E-06
ENSG00000065413	ANKRD44	8739.18	-0.17	3.66E-06
ENSG00000101843	PSMD10	614.44	0.26	3.67E-06
ENSG00000259912		60.32	-1.13	3.69E-06
ENSG00000182628	SKA2	211.95	0.28	3.70E-06
ENSG00000196511	TPK1	479.81	-0.28	3.70E-06
ENSG00000130741	EIF2S3	5190.14	-0.14	3.74E-06
ENSG00000175063	UBE2C	54.78	0.53	3.88E-06
ENSG00000131242	RAB11FIP4	3450.82	-0.18	3.96E-06
ENSG00000172936	MYD88	4409.67	0.32	3.99E-06
ENSG00000168275	COA6	202.07	0.38	3.99E-06
ENSG00000211896	IGHG1	1498.67	0.89	4.20E-06
ENSG00000243466	IGKV1-5	279.86	0.73	4.21E-06
ENSG00000278588	H2BC10	367.83	0.56	4.52E-06
ENSG00000244575	IGKV1-27	43.32	0.68	4.54E-06
ENSG00000165704	HPRT1	388.98	0.23	4.65E-06
ENSG00000138246	DNAJC13	2200.48	0.18	4.69E-06
ENSG00000132185	FCRLA	188.03	-0.40	4.71E-06
ENSG00000136932	TRMO	1024.62	-0.18	4.71E-06
ENSG00000226822	LINC02785	63.54	0.61	4.83E-06
ENSG00000130164	LDLR	713.99	0.44	4.94E-06
ENSG00000142686	C1orf216	262.77	0.34	5.06E-06
ENSG00000108798	ABI3	1178.46	0.25	5.13E-06
ENSG00000198829	SUCNR1	409.58	1.14	5.14E-06
ENSG00000105373	NOP53	9440.34	-0.25	5.20E-06
ENSG00000131724	IL13RA1	2397.94	-0.40	5.20E-06
ENSG00000203880	PCMTD2	2423.70	-0.12	5.22E-06
ENSG00000243238	IGKV2-30	65.17	0.63	5.22E-06
ENSG00000087470	DNM1L	1270.36	0.17	5.22E-06

ENSG00000174600	CMKLR1	434.52	0.51	5.22E-06
ENSG00000067082	KLF6	11297.54	0.24	5.22E-06
ENSG00000211895	IGHA1	3356.12	0.60	5.46E-06
ENSG00000084070	SMAP2	8850.54	-0.32	5.54E-06
ENSG00000116237	ICMT	654.17	0.18	5.77E-06
ENSG00000139921	TMX1	1370.87	0.23	5.92E-06
ENSG00000196683	TOMM7	1238.56	-0.33	6.07E-06
ENSG00000129515	SNX6	2008.08	0.18	6.08E-06
ENSG00000077454	LRCH4	1535.84	-0.26	6.09E-06
ENSG00000173218	VANGL1	115.19	0.32	6.15E-06
ENSG00000250510	GPR162	223.62	-0.72	6.15E-06
ENSG00000154165	GPR15	128.03	0.31	6.31E-06
ENSG00000232472	EEF1B2P3	35.03	-0.45	6.45E-06
ENSG00000206199	ANKUB1	11.84	-1.22	6.56E-06
ENSG00000087157	PGS1	4265.36	-0.28	6.56E-06
ENSG00000038219	BOD1L1	7173.52	-0.24	6.73E-06
ENSG00000167522	ANKRD11	7224.59	-0.16	6.73E-06
ENSG00000070756	PABPC1	29977.91	-0.17	6.91E-06
ENSG00000222041	CYTOR	658.44	0.30	6.91E-06
ENSG00000198826	ARHGAP11A	180.58	0.30	6.98E-06
ENSG00000265658	MIR3690	12.39	-0.78	7.03E-06
ENSG00000126262	FFAR2	8785.66	0.78	7.03E-06
ENSG00000185722	ANKFY1	2744.24	0.28	7.10E-06
ENSG00000099308	MAST3	3915.91	-0.29	7.12E-06
ENSG00000223960	CHROMR	282.13	0.27	7.19E-06
ENSG00000117010	ZNF684	108.01	0.48	7.20E-06
ENSG00000122966	CIT	99.63	0.42	7.27E-06
ENSG00000110090	CPT1A	2394.64	-0.31	7.35E-06
ENSG00000197272	IL27	22.82	1.05	7.45E-06
ENSG00000235192		54.81	0.48	8.13E-06
ENSG00000188282	RUFY4	44.22	0.89	8.15E-06
ENSG00000243156	MICAL3	1341.44	-0.19	8.23E-06
ENSG00000127511	SIN3B	1933.19	-0.17	8.46E-06
ENSG00000082701	GSK3B	2196.03	-0.16	8.58E-06
ENSG00000105939	ZC3HAV1	6746.36	0.25	8.62E-06
ENSG00000106603	COA1	2128.13	-0.29	8.72E-06
ENSG00000167676	PLIN4	365.16	-0.68	9.07E-06
ENSG00000254826		239.59	-0.78	9.10E-06
ENSG00000165646	SLC18A2	65.22	-0.51	9.33E-06
ENSG00000166927	MS4A7	3877.21	0.58	9.44E-06
ENSG00000052795	FNIP2	2206.82	0.43	9.44E-06
ENSG00000175390	EIF3F	3588.05	-0.19	9.57E-06
ENSG00000260528	FAM157C	722.62	-0.66	9.61E-06
ENSG00000172775	PSME3IP1	2254.93	0.12	9.81E-06
ENSG00000111237	VPS29	1379.93	0.17	1.00E-05
ENSG00000213281	NRAS	1605.06	0.22	1.00E-05
ENSG00000198785	GRIN3A	11.73	1.11	1.01E-05
ENSG00000106245	BUD31	904.04	0.19	1.01E-05
ENSG00000267074		506.16	0.42	1.02E-05
ENSG00000139618	BRCA2	455.18	0.35	1.03E-05

ENSG00000176533	GNG7	486.98	-0.48	1.04E-05
ENSG00000159228	CBR1	253.20	0.36	1.06E-05
ENSG00000213123	DYNLT2B	28.71	0.48	1.08E-05
ENSG00000104133	SPG11	5244.90	0.15	1.09E-05
ENSG00000197943	PLCG2	5217.57	-0.23	1.09E-05
ENSG00000108439	PNPO	337.68	0.22	1.09E-05
ENSG00000160791	CCR5	918.26	0.67	1.09E-05
ENSG00000100450	GZMH	1031.97	0.45	1.10E-05
ENSG00000084754	HADHA	2842.94	-0.17	1.12E-05
ENSG00000250616	YPEL3-DT	144.72	-0.73	1.12E-05
ENSG00000213694	S1PR3	191.87	0.80	1.18E-05
ENSG00000114626	ABTB1	7054.20	-0.30	1.19E-05
ENSG00000278196	IGLV2-8	59.97	0.74	1.21E-05
ENSG00000075702	WDR62	78.52	0.37	1.23E-05
ENSG00000112118	MCM3	957.16	0.18	1.25E-05
ENSG00000205302	SNX2	1981.14	0.21	1.27E-05
ENSG00000055130	CUL1	1599.80	0.17	1.28E-05
ENSG00000010671	BTK	1305.62	0.18	1.31E-05
ENSG00000133313	CNDP2	2874.88	0.23	1.33E-05
ENSG00000184792	OSBP2	834.07	-0.76	1.35E-05
ENSG00000229314	ORM1	319.57	-1.20	1.38E-05
ENSG00000101057	MYBL2	191.25	0.48	1.40E-05
ENSG00000082438	COBLL1	508.09	-0.28	1.42E-05
ENSG00000223336	RNU2-6P	79.45	-0.58	1.43E-05
ENSG00000143320	CRABP2	38.85	-0.79	1.45E-05
ENSG00000272625		74.49	0.45	1.45E-05
ENSG00000083454	P2RX5	504.06	-0.27	1.48E-05
ENSG00000182481	KPNA2	447.27	0.37	1.52E-05
ENSG00000100263	RHBDD3	307.93	0.23	1.54E-05
ENSG00000197111	PCBP2	6025.92	-0.15	1.54E-05
ENSG00000171236	LRG1	2182.21	-0.64	1.54E-05
ENSG00000243650	RN7SL834P	234.36	0.31	1.55E-05
ENSG00000168062	BATF2	572.36	1.12	1.55E-05
ENSG00000280248		190.09	0.52	1.56E-05
ENSG00000158710	TAGLN2	7693.58	-0.27	1.56E-05
ENSG00000198938	MT-CO3	11181.89	-0.36	1.58E-05
ENSG00000245556	SCAMP1-AS1	217.76	0.29	1.60E-05
ENSG00000170476	MZB1	251.64	0.63	1.61E-05
ENSG00000226777	FAM30A	699.43	-0.30	1.62E-05
ENSG00000107175	CREB3	573.75	0.23	1.62E-05
ENSG00000203747	FCGR3A	4161.93	0.49	1.63E-05
ENSG00000282572		478.60	-0.66	1.63E-05
ENSG00000090372	STRN4	2252.76	-0.16	1.64E-05
ENSG00000170248	PDCD6IP	4123.19	0.13	1.65E-05
ENSG00000198727	MT-CYB	9074.09	-0.39	1.67E-05
ENSG00000233476	EEF1A1P6	208.98	-0.40	1.70E-05
ENSG00000124275	MTRR	1184.58	0.14	1.75E-05
ENSG00000184226	PCDH9	358.58	-0.34	1.79E-05
ENSG00000119900	OGFRL1	6457.23	-0.36	1.80E-05
ENSG00000171314	PGAM1	1802.72	0.17	1.81E-05

ENSG00000260563		207.20	-0.27	1.81E-05
ENSG00000211650	IGLV5-45	20.77	0.95	1.86E-05
ENSG00000115163	CENPA	16.98	0.72	1.90E-05
ENSG00000185963	BICD2	2234.32	-0.15	1.91E-05
ENSG00000257702	LBX2-AS1	115.82	0.35	1.95E-05
ENSG00000147443	DOK2	1950.78	0.27	2.02E-05
ENSG00000165288	BRWD3	2549.86	-0.19	2.03E-05
ENSG00000182310	SPACA6	463.75	-0.44	2.08E-05
ENSG00000163535	SGO2	167.40	0.34	2.10E-05
ENSG00000069188	SDK2	509.87	-0.36	2.10E-05
ENSG00000100567	PSMA3	1199.98	0.22	2.23E-05
ENSG00000188486	H2AX	504.27	0.32	2.23E-05
ENSG00000112312	GMNN	144.72	0.28	2.25E-05
ENSG00000120280	TASL	792.07	0.38	2.27E-05
ENSG00000171943	SRGAP2C	663.48	0.21	2.27E-05
ENSG00000228526	MIR34AHG	44.57	0.76	2.28E-05
ENSG00000179583	CIITA	3999.68	-0.29	2.28E-05
ENSG00000280121		91.02	-0.36	2.29E-05
ENSG00000171658	NMRAL2P	33.98	1.29	2.34E-05
ENSG00000174371	EXO1	29.72	0.51	2.36E-05
ENSG00000167261	DPEP2	3159.86	-0.32	2.39E-05
ENSG00000112304	ACOT13	271.91	0.32	2.43E-05
ENSG00000161677	JOSD2	260.25	0.24	2.44E-05
ENSG00000253981	ALG1L13P	563.39	-0.75	2.45E-05
ENSG00000264548		78.61	-0.50	2.50E-05
ENSG00000072121	ZFYVE26	3103.62	0.27	2.52E-05
ENSG00000090661	CERS4	655.33	-0.21	2.54E-05
ENSG00000281005	LINC00921	945.04	-0.22	2.55E-05
ENSG00000100453	GZMB	1860.73	0.62	2.56E-05
ENSG00000197457	STMN3	1479.35	-0.20	2.56E-05
ENSG00000241755	IGKV1-9	55.88	0.86	2.56E-05
ENSG00000211649	IGLV7-46	28.07	0.97	2.57E-05
ENSG00000138160	KIF11	177.91	0.46	2.60E-05
ENSG00000172915	NBEA	383.23	-0.21	2.64E-05
ENSG00000104960	PTOV1	1252.56	-0.22	2.65E-05
ENSG00000140451	PIF1	40.08	0.52	2.65E-05
ENSG00000112029	FBXO5	244.32	0.26	2.65E-05
ENSG00000138119	MYOF	677.28	0.57	2.65E-05
ENSG00000170340	B3GNT2	1024.42	0.21	2.67E-05
ENSG00000170439	METTL7B	17.83	1.16	2.68E-05
ENSG00000117724	CENPF	268.45	0.48	2.68E-05
ENSG00000169087	HSPBAP1	885.88	-0.24	2.71E-05
ENSG00000185651	UBE2L3	1614.48	0.15	2.75E-05
ENSG00000136982	DSCC1	20.63	0.60	2.75E-05
ENSG00000261221	ZNF865	915.70	-0.20	2.75E-05
ENSG00000143367	TUFT1	144.93	0.33	2.81E-05
ENSG00000221955	SLC12A8	25.52	0.62	2.86E-05
ENSG00000175265	GOLGA8A	2212.19	-0.17	2.87E-05
ENSG00000254986	DPP3	446.15	0.18	2.91E-05
ENSG00000250687	NAIPP1	34.23	0.69	2.92E-05

ENSG00000184106	TREML3P	111.57	-0.64	2.93E-05
ENSG00000158882	TOMM40L	550.96	0.34	2.93E-05
ENSG00000227297		11.62	0.85	3.00E-05
ENSG00000188994	ZNF292	6181.27	-0.20	3.09E-05
ENSG00000236438	FAM157A	598.22	-0.69	3.11E-05
ENSG00000182718	ANXA2	5029.96	0.35	3.12E-05
ENSG00000268069		23.10	-0.49	3.12E-05
ENSG00000234076	TPRG1-AS1	52.73	1.17	3.13E-05
ENSG00000178202	POGLUT3	228.90	0.21	3.21E-05
ENSG00000226751	NA	10.31	0.91	3.23E-05
ENSG00000131471	AOC3	120.64	-0.59	3.24E-05
ENSG00000104442	ARMC1	566.45	0.14	3.28E-05
ENSG00000185950	IRS2	3763.15	-0.63	3.32E-05
ENSG00000196975	ANXA4	572.81	0.29	3.54E-05
ENSG00000111224	PARP11	1028.12	0.25	3.57E-05
ENSG00000164483	SAMD3	800.05	0.21	3.60E-05
ENSG00000281162	LINC01127	202.34	-0.87	3.61E-05
ENSG00000102837	OLFM4	163.79	0.65	3.68E-05
ENSG00000117602	RCAN3	2931.19	-0.17	3.77E-05
ENSG00000128383	APOBEC3A	4045.90	0.63	3.77E-05
ENSG00000131652	THOC6	344.14	0.21	3.78E-05
ENSG00000261659		103.72	-0.27	3.79E-05
ENSG000000009307	CSDE1	10567.86	-0.13	3.83E-05
ENSG00000101347	SAMHD1	7288.34	0.27	3.93E-05
ENSG00000124134	KCNS1	13.25	-1.24	3.98E-05
ENSG00000001036	FUCA2	430.72	0.24	4.05E-05
ENSG00000142731	PLK4	79.00	0.35	4.05E-05
ENSG00000224789		32.25	0.92	4.07E-05
ENSG00000138834	MAPK8IP3	4664.93	-0.19	4.17E-05
ENSG00000152102	FAM168B	2206.13	-0.16	4.27E-05
ENSG00000088833	NSFL1C	1904.27	-0.16	4.28E-05
ENSG00000158715	SLC45A3	233.83	-0.36	4.42E-05
ENSG00000139266	MARCHF9	709.72	-0.17	4.52E-05
ENSG00000198223	CSF2RA	1425.24	-0.28	4.55E-05
ENSG00000280153		329.69	-0.34	4.56E-05
ENSG00000187193	MT1X	148.56	0.54	4.60E-05
ENSG00000223914	LINC02471	9.82	1.43	4.69E-05
ENSG00000100979	PLTP	111.73	0.51	4.69E-05
ENSG000000091592	NLRP1	8393.77	-0.21	4.70E-05
ENSG00000204386	NEU1	1299.64	0.29	4.74E-05
ENSG00000178999	AURKB	44.19	0.57	4.84E-05
ENSG00000177628	GBA	1036.43	0.31	4.85E-05
ENSG00000157827	FMNL2	340.62	0.66	4.94E-05
ENSG00000082293	COL19A1	501.80	-0.27	4.94E-05
ENSG00000132704	FCRL2	398.55	-0.44	5.00E-05
ENSG00000112742	TTK	60.38	0.53	5.01E-05
ENSG00000138760	SCARB2	2591.15	0.46	5.17E-05
ENSG00000141096	DPEP3	100.13	-0.62	5.18E-05
ENSG00000062282	DGAT2	2532.03	-0.60	5.19E-05
ENSG00000163545	NUAK2	1915.30	-0.34	5.20E-05

ENSG00000136682	CBWD2	925.45	0.24	5.21E-05
ENSG00000128394	APOBEC3F	786.94	0.31	5.37E-05
ENSG00000154127	UBASH3B	1532.76	0.26	5.43E-05
ENSG00000080986	NDC80	169.25	0.31	5.43E-05
ENSG00000241351	IGKV3-11	159.47	0.47	5.43E-05
ENSG00000051108	HERPUD1	3396.76	-0.22	5.50E-05
ENSG00000272669		184.84	0.39	5.50E-05
ENSG00000165300	SLITRK5	29.86	-0.53	5.52E-05
ENSG00000223117	RN7SKP296	52.43	-0.50	5.53E-05
ENSG00000204304	PBX2	3214.70	-0.16	5.56E-05
ENSG00000255355	PATL1-DT	136.80	0.76	5.56E-05
ENSG00000282508	LINC01002	429.94	-0.55	5.59E-05
ENSG00000243746	EEF1A1P10	46.22	-0.39	5.60E-05
ENSG00000118495	PLAGL1	760.91	-0.27	5.70E-05
ENSG00000122674	CCZ1	660.02	0.11	5.70E-05
ENSG00000072134	EPN2	388.10	-0.27	5.88E-05
ENSG00000134539	KLRD1	3215.69	0.33	5.98E-05
ENSG00000211644	IGLV1-51	95.28	0.45	6.08E-05
ENSG00000211938	IGHV3-7	58.11	0.50	6.08E-05
ENSG00000167768	KRT1	392.70	-0.87	6.21E-05
ENSG00000113716	HMGXB3	1775.66	0.17	6.21E-05
ENSG00000272666	KLHDC7B-DT	64.23	0.59	6.22E-05
ENSG00000198795	ZNF521	24.11	-0.47	6.36E-05
ENSG00000035499	DEPDC1B	42.63	0.51	6.50E-05
ENSG00000231047	GCNT1P3	56.79	-0.55	6.62E-05
ENSG00000137642	SORL1	25675.51	-0.29	6.63E-05
ENSG00000138385	SSB	1280.62	0.25	6.77E-05
ENSG00000111602	TIMELESS	342.55	0.22	6.79E-05
ENSG00000196678	ERI2	118.00	0.31	7.01E-05
ENSG00000146386	ABRACL	608.31	0.20	7.01E-05
ENSG00000115415	STAT1	14996.62	0.53	7.04E-05
ENSG00000117335	CD46	6101.25	-0.24	7.06E-05
ENSG00000166451	CENPN	128.96	0.30	7.26E-05
ENSG00000183762	KREMEN1	903.01	-0.56	7.26E-05
ENSG00000024526	DEPDC1	30.92	0.68	7.26E-05
ENSG00000166619	BLCAP	2101.61	-0.11	7.28E-05
ENSG00000261385		17.82	-0.55	7.28E-05
ENSG00000211893	IGHG2	1253.51	0.54	7.28E-05
ENSG00000183010	PYCR1	35.78	0.71	7.34E-05
ENSG00000109390	NDUFC1	226.42	0.18	7.34E-05
ENSG00000093010	COMT	835.62	0.17	7.34E-05
ENSG00000142507	PSMB6	641.75	0.20	7.35E-05
ENSG00000273559	CWC25	1311.54	-0.18	7.37E-05
ENSG00000185666	SYN3	24.02	-0.53	7.42E-05
ENSG00000122729	ACO1	464.10	-0.17	7.43E-05
ENSG00000102401	ARMCX3	959.87	0.20	7.54E-05
ENSG00000110046	ATG2A	5013.26	-0.41	7.64E-05
ENSG00000134690	CDCA8	51.87	0.46	7.65E-05
ENSG00000002919	SNX11	997.94	0.21	7.73E-05
ENSG00000146083	RNF44	3136.28	-0.22	7.75E-05

ENSG00000163661	PTX3	616.48	1.01	7.77E-05
ENSG00000130175	PRKCSH	3237.57	-0.17	7.77E-05
ENSG00000135077	HAVCR2	1448.02	0.66	7.77E-05
ENSG00000112419	PHACTR2	1608.13	0.20	7.80E-05
ENSG00000211648	IGLV1-47	80.09	0.59	7.84E-05
ENSG00000169994	MYO7B	84.19	-0.62	7.92E-05
ENSG00000129657	SEC14L1	10648.92	-0.31	7.96E-05
ENSG00000211651	IGLV1-44	97.16	0.70	7.96E-05
ENSG00000224307	LINC02975	78.73	-0.81	8.04E-05
ENSG00000266980		39.66	0.55	8.13E-05
ENSG00000269981		259.89	-0.66	8.34E-05
ENSG00000204267	TAP2	1896.43	0.30	8.43E-05
ENSG00000136631	VPS45	576.56	0.13	8.46E-05
ENSG00000279108		51.19	-0.38	8.46E-05
ENSG00000110435	PDHX	667.40	0.16	8.46E-05
ENSG00000167302	TEPSIN	1720.81	-0.17	8.52E-05
ENSG00000197226	TBC1D9B	3095.50	0.16	8.78E-05
ENSG00000198830	HMG2	4370.34	0.21	8.80E-05
ENSG00000135148	TRAFD1	2226.32	0.33	8.84E-05
ENSG00000198771	RCS1	5826.38	-0.19	8.86E-05
ENSG00000196850	PPTC7	2184.67	-0.14	8.86E-05
ENSG00000196787	H2AC11	985.90	0.39	8.88E-05
ENSG00000165806	CASP7	595.98	0.24	9.15E-05
ENSG00000130816	DNMT1	2526.81	0.14	9.17E-05
ENSG00000173638	SLC19A1	2083.99	-0.35	9.17E-05
ENSG00000006432	MAP3K9	297.18	-0.18	9.17E-05
ENSG00000272325	NUDT3	1611.41	-0.21	9.21E-05
ENSG00000171714	ANO5	36.01	0.62	9.21E-05
ENSG00000115524	SF3B1	15328.12	-0.11	9.23E-05
ENSG00000225470	JPX	1076.34	0.20	9.32E-05
ENSG00000225828	FAM229A	545.42	-0.19	9.40E-05
ENSG00000116147	TNR	12.24	-0.79	9.41E-05
ENSG00000135116	HRK	66.72	-0.47	9.47E-05
ENSG00000148672	GLUD1	2640.74	0.13	9.50E-05
ENSG00000204351	SKIV2L	1874.49	-0.16	9.62E-05
ENSG00000087077	TRIP6	284.11	0.36	9.74E-05
ENSG00000226004	LINC02528	12.47	1.16	9.99E-05
ENSG00000214797		71.90	-0.49	1.01E-04
ENSG00000101412	E2F1	78.32	0.45	1.01E-04
ENSG00000119698	PPP4R4	42.51	-0.63	1.01E-04
ENSG00000134627	PIWIL4	175.36	0.32	1.02E-04
ENSG00000166086	JAM3	268.32	-0.33	1.02E-04
ENSG00000091039	OSBPL8	8629.53	-0.20	1.02E-04
ENSG00000203446	SUGCT-AS1	12.70	1.24	1.02E-04
ENSG00000004700	RECQL	1558.12	0.17	1.04E-04
ENSG00000204516	MICB	584.98	0.25	1.04E-04
ENSG00000182957	SPATA13	3356.61	0.17	1.04E-04
ENSG00000204592	HLA-E	54350.29	0.15	1.05E-04
ENSG00000161513	FDXR	123.42	0.30	1.05E-04
ENSG00000085999	RAD54L	18.38	0.62	1.05E-04

ENSG00000155016	CYP2U1	272.51	-0.16	1.06E-04
ENSG00000018510	AGPS	1336.87	0.16	1.07E-04
ENSG00000128789	PSMG2	674.52	0.14	1.09E-04
ENSG00000115233	PSMD14	721.73	0.27	1.09E-04
ENSG00000180644	PRF1	4274.11	0.43	1.09E-04
ENSG00000163219	ARHGAP25	5123.87	-0.19	1.09E-04
ENSG00000138814	PPP3CA	1922.76	-0.19	1.09E-04
ENSG00000093134	VNN3P	1393.70	-0.82	1.10E-04
ENSG00000271461	CKAP2LP1	54.83	-0.69	1.10E-04
ENSG00000124201	ZNFX1	6093.59	0.27	1.11E-04
ENSG00000093072	ADA2	2992.79	0.34	1.11E-04
ENSG00000105967	TFEC	3864.85	0.62	1.12E-04
ENSG00000185339	TCN2	173.60	0.71	1.12E-04
ENSG00000273382	TMEM167B-DT	69.39	-0.36	1.13E-04
ENSG00000104852	SNRNP70	6106.05	-0.16	1.13E-04
ENSG00000198934	MAGEE1	166.54	-0.25	1.14E-04
ENSG00000103489	XYLT1	2308.13	-0.18	1.15E-04
ENSG00000112308	C6orf62	10996.73	0.18	1.15E-04
ENSG00000079785	DDX1	1210.60	0.14	1.17E-04
ENSG00000070444	MNT	1899.93	-0.26	1.17E-04
ENSG00000141101	NOB1	669.49	0.17	1.18E-04
ENSG00000149532	CPSF7	2961.84	-0.10	1.18E-04
ENSG00000179869	ABCA13	280.69	0.46	1.18E-04
ENSG00000073969	NSF	736.39	0.15	1.18E-04
ENSG00000204525	HLA-C	63508.34	0.18	1.18E-04
ENSG00000196531	NACA	5745.76	-0.16	1.23E-04
ENSG00000237886	NALT1	57.35	-0.41	1.26E-04
ENSG00000108700	CCL8	176.83	1.95	1.26E-04
ENSG00000174123	TLR10	312.90	-0.35	1.26E-04
ENSG00000065559	MAP2K4	1210.57	-0.13	1.26E-04
ENSG00000143621	ILF2	1963.55	0.16	1.30E-04
ENSG00000136279	DBNL	10246.68	-0.19	1.30E-04
ENSG00000227502	MROCK1	356.72	1.45	1.31E-04
ENSG00000101439	CST3	2432.66	0.47	1.31E-04
ENSG00000169410	PTPN9	784.76	0.14	1.31E-04
ENSG00000259642	ST20-AS1	406.91	-0.37	1.31E-04
ENSG00000117461	PIK3R3	64.81	0.36	1.32E-04
ENSG00000100473	COCH	32.79	-0.46	1.32E-04
ENSG00000259225	LINC02345	11.45	-0.94	1.33E-04
ENSG00000119421	NDUFA8	250.81	0.21	1.33E-04
ENSG00000071539	TRIP13	20.77	0.53	1.36E-04
ENSG00000138279	ANXA7	2312.36	-0.12	1.37E-04
ENSG00000115523	GNLY	6646.85	0.33	1.37E-04
ENSG00000111912	NCOA7	1590.03	0.26	1.38E-04
ENSG00000220008	LINGO3	36.06	-0.43	1.40E-04
ENSG00000176087	SLC35A4	1255.40	0.15	1.41E-04
ENSG00000283384		16.96	0.78	1.42E-04
ENSG00000025293	PHF20	2723.08	-0.17	1.42E-04
ENSG00000166557	TMED3	672.16	0.13	1.43E-04
ENSG00000100811	YY1	3031.94	-0.11	1.43E-04

ENSG00000156030	MIDEAS	3995.93	-0.18	1.43E-04
ENSG00000065526	SPEN	5031.23	-0.16	1.44E-04
ENSG00000240065	PSMB9	3054.19	0.28	1.44E-04
ENSG00000105374	NKG7	2121.13	0.42	1.44E-04
ENSG00000137841	PLCB2	4699.89	-0.28	1.45E-04
ENSG00000143771	CNIH4	734.58	0.17	1.45E-04
ENSG00000105726	ATP13A1	1921.31	0.15	1.46E-04
ENSG00000132792	CTNBNL1	1012.62	0.16	1.47E-04
ENSG00000100342	APOL1	884.03	0.42	1.47E-04
ENSG00000171606	ZNF274	2006.75	-0.16	1.48E-04
ENSG00000119041	GTF3C3	753.24	0.12	1.49E-04
ENSG00000277224	H2BC7	673.98	0.38	1.50E-04
ENSG00000135525	MAP7	70.10	-0.41	1.55E-04
ENSG00000035664	DAPK2	1416.00	-0.32	1.55E-04
ENSG00000279410		118.34	-0.26	1.56E-04
ENSG00000162813	BPNT1	362.07	0.17	1.57E-04
ENSG00000166170	BAG5	1421.23	-0.11	1.57E-04
ENSG00000241666		88.65	-0.38	1.57E-04
ENSG00000148660	CAMK2G	2201.15	-0.24	1.59E-04
ENSG00000007341	ST7L	530.99	0.15	1.60E-04
ENSG00000237973	MTCO1P12	115.35	-0.38	1.60E-04
ENSG00000113494	PRLR	80.04	0.77	1.60E-04
ENSG00000175592	FOSL1	143.80	0.70	1.60E-04
ENSG00000211962	IGHV1-46	45.50	0.50	1.61E-04
ENSG00000119686	FLVCR2	341.99	0.29	1.62E-04
ENSG00000224959	NA	83.89	0.46	1.62E-04
ENSG00000198046	ZNF667	61.71	-0.33	1.62E-04
ENSG00000082898	XPO1	4720.30	0.16	1.64E-04
ENSG00000106733	NMRK1	1239.53	0.16	1.66E-04
ENSG00000248309	MEF2C-AS1	91.79	-0.31	1.66E-04
ENSG00000117408	IPO13	501.92	0.17	1.66E-04
ENSG00000173409	ARV1	153.95	0.21	1.66E-04
ENSG00000140398	NEIL1	318.10	-0.38	1.68E-04
ENSG00000229677		208.56	0.30	1.68E-04
ENSG00000160216	AGPAT3	2546.46	0.12	1.69E-04
ENSG00000167978	SRRM2	21061.17	-0.19	1.69E-04
ENSG00000232119	MCTS1	362.39	0.21	1.71E-04
ENSG00000116574	RHOU	748.99	0.41	1.72E-04
ENSG00000261371	PECAM1	5991.26	-0.44	1.72E-04
ENSG00000079385	CEACAM1	1409.89	0.56	1.72E-04
ENSG00000141298	SSH2	8333.98	-0.20	1.72E-04
ENSG00000164087	POC1A	52.72	0.33	1.72E-04
ENSG00000165661	QSOX2	1178.96	-0.16	1.72E-04
ENSG00000189266	PNRC2	3498.26	0.15	1.72E-04
ENSG00000196562	SULF2	1732.05	-0.41	1.73E-04
ENSG00000143870	PDIA6	2700.06	0.30	1.74E-04
ENSG00000077380	DYNC1I2	1174.94	0.22	1.74E-04
ENSG00000142227	EMP3	2518.29	0.30	1.74E-04
ENSG00000253755	IGHGP	29.02	1.06	1.74E-04
ENSG00000174697	LEP	31.78	1.00	1.75E-04

ENSG00000145220	LYAR	523.39	0.18	1.75E-04
ENSG00000214548	MEG3	41.15	-0.76	1.75E-04
ENSG00000179331	RAB39A	131.45	0.59	1.77E-04
ENSG00000204632	HLA-G	236.11	0.27	1.78E-04
ENSG00000145495	MARCHF6	5416.62	-0.12	1.79E-04
ENSG00000196233	LCOR	4439.58	-0.10	1.84E-04
ENSG00000083828	ZNF586	1292.62	-0.13	1.86E-04
ENSG00000182685	BRICD5	187.98	-0.27	1.87E-04
ENSG00000179044	EXOC3L1	62.68	0.95	1.87E-04
ENSG00000076706	MCAM	37.76	-0.48	1.89E-04
ENSG00000173621	LRFN4	143.65	0.34	1.89E-04
ENSG00000126603	GLIS2	19.16	-0.72	1.89E-04
ENSG00000258476	LINC02207	78.09	-0.90	1.90E-04
ENSG00000119669	IRF2BPL	2144.52	-0.25	1.90E-04
ENSG00000273797		238.94	-0.30	1.90E-04
ENSG00000279529		335.32	-0.21	1.90E-04
ENSG00000146830	GIGYF1	3464.59	-0.14	1.91E-04
ENSG00000161692	DBF4B	215.77	0.29	1.91E-04
ENSG00000102445	RUBCNL	1760.31	-0.38	1.93E-04
ENSG00000117153	KLHL12	974.16	0.14	1.94E-04
ENSG00000213722	DDAH2	830.36	0.32	1.94E-04
ENSG00000205726	ITSN1	318.36	0.34	1.94E-04
ENSG00000087589	CASS4	1448.85	-0.43	1.94E-04
ENSG00000173480	ZNF417	910.23	-0.10	1.97E-04
ENSG00000120318	ARAP3	1716.11	-0.47	2.01E-04
ENSG00000120725	SIL1	432.04	0.14	2.01E-04
ENSG00000186283	TOR3A	740.64	0.19	2.01E-04
ENSG00000096996	IL12RB1	891.30	0.18	2.07E-04
ENSG00000126947	ARMCX1	63.50	0.34	2.07E-04
ENSG00000183018	SPNS2	45.52	-0.82	2.07E-04
ENSG00000117450	PRDX1	2396.78	0.33	2.09E-04
ENSG00000171115	GIMAP8	1225.43	0.22	2.09E-04
ENSG00000232587	EEF1A1P3	224.99	-0.24	2.09E-04
ENSG00000085840	ORC1	55.97	0.42	2.15E-04
ENSG00000133808	NA	180.72	-0.53	2.18E-04
ENSG00000206341	HLA-H	1551.27	0.21	2.21E-04
ENSG00000149480	MTA2	2580.45	0.11	2.21E-04
ENSG00000137992	DBT	645.02	0.13	2.21E-04
ENSG00000169385	RNASE2	131.17	0.79	2.22E-04
ENSG00000268006	PTOV1-AS1	84.73	-0.27	2.23E-04
ENSG00000249437	NAIP	450.82	0.48	2.23E-04
ENSG00000159307	SCUBE1	33.70	-0.56	2.24E-04
ENSG00000119729	RHOQ	3166.07	-0.26	2.25E-04
ENSG00000087191	PSMC5	1233.75	0.12	2.29E-04
ENSG00000042493	CAPG	2126.36	0.32	2.29E-04
ENSG00000198951	NAGA	948.71	0.21	2.32E-04
ENSG00000145016	RUBCN	3269.92	0.24	2.32E-04
ENSG00000266651		25.95	-0.78	2.33E-04
ENSG00000181350	LRRC75A	384.99	-0.60	2.37E-04
ENSG00000036257	CUL3	2948.80	-0.11	2.38E-04

ENSG00000168010	ATG16L2	8240.80	-0.27	2.38E-04
ENSG00000121281	ADCY7	6385.89	0.16	2.40E-04
ENSG00000111707	SUDS3	1664.95	-0.08	2.42E-04
ENSG00000163564	PYHIN1	1678.83	0.21	2.42E-04
ENSG00000137310	TCF19	219.85	0.27	2.45E-04
ENSG00000198924	DCLRE1A	216.83	0.23	2.45E-04
ENSG00000102053	ZC3H12B	85.26	-0.28	2.45E-04
ENSG00000203644		296.89	-0.29	2.48E-04
ENSG00000123080	CDKN2C	122.01	0.35	2.50E-04
ENSG00000273749	CYFIP1	1260.41	0.28	2.53E-04
ENSG00000123810	B9D2	270.53	-0.22	2.53E-04
ENSG00000177842	ZNF620	111.16	0.24	2.55E-04
ENSG00000132275	RRP8	1030.38	-0.10	2.56E-04
ENSG00000100647	SUSD6	7763.13	-0.25	2.64E-04
ENSG00000105514	RAB3D	2164.20	-0.35	2.64E-04
ENSG00000120509	PDZD11	149.98	0.21	2.64E-04
ENSG00000113845	TIMMDC1	858.18	0.15	2.66E-04
ENSG00000124562	SNRPC	463.26	0.20	2.67E-04
ENSG00000239713	APOBEC3G	2477.16	0.34	2.73E-04
ENSG00000267757	EML2-AS1	53.46	-0.39	2.74E-04
ENSG00000197329	PELI1	5637.88	-0.29	2.74E-04
ENSG00000257027		1795.52	-0.24	2.75E-04
ENSG00000248208	WDR45P1	27.87	0.85	2.76E-04
ENSG00000196123	KIAA0895L	190.22	0.30	2.76E-04
ENSG00000239823		21.87	-0.68	2.81E-04
ENSG00000171148	TADA3	1511.76	0.16	2.81E-04
ENSG00000117000	RLF	1965.88	-0.15	2.86E-04
ENSG00000137261	KIAA0319	130.92	0.49	2.86E-04
ENSG00000179348	GATA2	597.96	-0.35	2.87E-04
ENSG00000183421	RIPK4	17.12	-0.62	2.89E-04
ENSG00000087263	OGFOD1	614.77	0.16	2.89E-04
ENSG00000106100	NOD1	836.68	0.15	2.90E-04
ENSG00000129353	SLC44A2	4689.13	-0.25	2.93E-04
ENSG00000179818	PCBP1-AS1	3262.74	-0.26	2.96E-04
ENSG00000186354	NA	82.71	0.69	2.96E-04
ENSG00000122432	SPATA1	41.39	0.34	2.98E-04
ENSG00000104324	CPQ	1293.02	-0.27	2.98E-04
ENSG00000225492	GBP1P1	183.95	1.12	3.01E-04
ENSG00000231528	FAM225A	11.16	1.00	3.01E-04
ENSG00000124762	CDKN1A	3697.72	0.48	3.04E-04
ENSG00000280378		101.97	-0.24	3.06E-04
ENSG00000262222	NA	117.64	-0.50	3.07E-04
ENSG00000206190	ATP10A	1564.22	0.17	3.07E-04
ENSG00000198972	MIRLET7E	15.74	-0.81	3.08E-04
ENSG00000226501	USF1P1	53.46	-0.31	3.08E-04
ENSG00000186648	CARMIL3	73.93	0.45	3.09E-04
ENSG00000170779	CDCA4	478.41	0.20	3.10E-04
ENSG00000170190	SLC16A5	724.03	-0.33	3.10E-04
ENSG00000197238	H4C11	107.29	0.38	3.13E-04
ENSG00000126822	PLEKHG3	3007.14	-0.40	3.13E-04

ENSG00000205336	ADGRG1	1284.00	0.41	3.15E-04
ENSG00000138639	ARHGAP24	428.80	-0.24	3.17E-04
ENSG00000189051	RNF222	13.40	-0.68	3.18E-04
ENSG00000244607	CCDC13	72.46	-0.34	3.21E-04
ENSG00000135951	TSGA10	340.55	-0.15	3.23E-04
ENSG00000240864	IGKV1-16	36.31	0.67	3.26E-04
ENSG00000136156	ITM2B	16903.28	-0.22	3.27E-04
ENSG00000237441	RGL2	2749.65	-0.21	3.27E-04
ENSG00000239839	DEFA3	1141.85	0.51	3.30E-04
ENSG00000229754	CXCR2P1	337.32	0.67	3.33E-04
ENSG00000089693	MLF2	1960.93	-0.15	3.34E-04
ENSG00000005471	ABCB4	186.79	-0.31	3.35E-04
ENSG00000163041	H3-3A	11622.35	-0.18	3.38E-04
ENSG00000177169	ULK1	2086.71	-0.26	3.41E-04
ENSG00000126458	RRAS	209.06	0.40	3.41E-04
ENSG00000142959	BEST4	32.62	-0.36	3.41E-04
ENSG00000107262	BAG1	5043.91	-0.48	3.41E-04
ENSG000000012660	ELOVL5	3499.64	-0.14	3.41E-04
ENSG00000204514	ZNF814	805.28	-0.15	3.42E-04
ENSG000000065911	MTHFD2	1556.43	0.32	3.45E-04
ENSG00000183696	UPP1	3775.55	0.23	3.48E-04
ENSG00000112658	SRF	1469.03	0.19	3.48E-04
ENSG00000104081	BMF	1325.45	-0.35	3.48E-04
ENSG00000110955	ATP5F1B	4873.65	0.13	3.48E-04
ENSG00000171824	EXOSC10	1268.87	0.09	3.49E-04
ENSG00000114405	C3orf14	29.32	0.45	3.51E-04
ENSG00000274114	ALOX15P1	188.82	-0.22	3.52E-04
ENSG00000158482	SNX29P1	35.56	-0.40	3.53E-04
ENSG00000147164	SNX12	787.90	0.19	3.55E-04
ENSG00000279886		33.19	0.68	3.55E-04
ENSG00000154359	LONRF1	1044.54	-0.23	3.57E-04
ENSG00000143207	COP1	2910.27	-0.11	3.57E-04
ENSG00000259321		87.51	0.34	3.62E-04
ENSG00000110756	HPS5	1338.81	0.22	3.63E-04
ENSG00000132294	EFR3A	2963.09	0.15	3.67E-04
ENSG00000141401	IMPA2	548.59	-0.60	3.68E-04
ENSG00000233013	FAM157B	283.95	-0.54	3.68E-04
ENSG00000111605	CPSF6	3552.59	-0.15	3.68E-04
ENSG00000154945	ANKRD40	867.09	0.16	3.68E-04
ENSG00000196547	MAN2A2	3505.52	-0.18	3.76E-04
ENSG00000102794	ACOD1	322.85	1.89	3.78E-04
ENSG00000158406	H4C8	1341.80	0.27	3.80E-04
ENSG00000197019	SERTAD1	619.91	0.32	3.80E-04
ENSG00000155660	PDIA4	1913.07	0.25	3.81E-04
ENSG00000066422	ZBTB11	2086.28	-0.09	3.84E-04
ENSG00000166908	PIP4K2C	672.00	0.14	3.86E-04
ENSG00000117009	KMO	780.06	0.61	3.87E-04
ENSG00000101773	RBBP8	484.21	0.27	3.88E-04
ENSG00000163746	PLSCR2	65.62	0.78	3.88E-04
ENSG00000196230	TUBB	4697.23	0.16	3.95E-04

ENSG00000107819	SFXN3	1283.51	0.17	3.96E-04
ENSG00000166526	ZNF3	841.33	-0.09	3.97E-04
ENSG00000005700	IBTK	1453.95	0.17	3.97E-04
ENSG00000143889	HNRNPLL	1651.29	0.22	3.98E-04
ENSG00000133574	GIMAP4	5055.88	0.24	3.98E-04
ENSG00000010256	UQCRC1	1701.70	0.15	3.99E-04
ENSG00000092051	JPH4	8.53	1.24	3.99E-04
ENSG00000005206	SPPL2B	1339.16	-0.19	3.99E-04
ENSG00000162772	ATF3	803.46	0.60	4.00E-04
ENSG00000188389	PDCD1	158.64	0.31	4.09E-04
ENSG00000099991	CABIN1	4037.32	-0.17	4.14E-04
ENSG00000196371	FUT4	767.45	0.23	4.14E-04
ENSG00000243772	KIR2DL3	41.57	0.47	4.18E-04
ENSG00000116014	KISS1R	27.30	-0.61	4.18E-04
ENSG00000225889		719.86	-0.41	4.18E-04
ENSG00000196684	HSH2D	3521.90	0.32	4.19E-04
ENSG00000211941	IGHV3-11	45.08	0.54	4.22E-04
ENSG00000127074	RGS13	17.06	0.68	4.24E-04
ENSG00000136828	RALGPS1	442.21	-0.24	4.25E-04
ENSG00000167434	CA4	278.79	-0.84	4.25E-04
ENSG00000189077	TMEM120A	775.89	-0.22	4.27E-04
ENSG00000196664	TLR7	208.89	0.51	4.27E-04
ENSG00000175643	RMI2	91.79	0.47	4.27E-04
ENSG00000175115	PACS1	5331.41	-0.17	4.27E-04
ENSG00000198886	MT-ND4	12498.01	-0.36	4.28E-04
ENSG00000260823		7.06	1.40	4.29E-04
ENSG00000134107	BHLHE40	4714.07	-0.30	4.30E-04
ENSG00000228340	MIR646HG	158.53	-0.43	4.33E-04
ENSG00000154760	SLFN13	1595.37	0.19	4.37E-04
ENSG00000165025	SYK	4641.33	-0.28	4.37E-04
ENSG00000073737	DHRS9	575.89	0.66	4.37E-04
ENSG00000103196	CRISPLD2	882.46	-0.52	4.37E-04
ENSG00000151116	UEVLD	511.22	0.21	4.38E-04
ENSG00000133265	HSPBP1	309.24	0.21	4.40E-04
ENSG00000157978	LDLRAP1	3429.11	-0.15	4.44E-04
ENSG00000166947	EPB42	857.12	-0.65	4.45E-04
ENSG00000165916	PSMC3	942.51	0.19	4.46E-04
ENSG00000119718	EIF2B2	505.97	0.13	4.53E-04
ENSG00000132155	RAF1	5732.84	-0.15	4.55E-04
ENSG00000155111	CDK19	1051.38	-0.17	4.56E-04
ENSG00000223750	SIRPB3P	36.18	-0.43	4.59E-04
ENSG00000255801		243.28	-0.61	4.66E-04
ENSG00000175040	CHST2	1268.10	0.25	4.66E-04
ENSG00000224093	BCAR3-AS1	22.84	-0.53	4.67E-04
ENSG00000115590	IL1R2	1912.89	-0.71	4.71E-04
ENSG00000179218	CALR	8159.29	0.30	4.72E-04
ENSG00000059145	UNKL	1736.45	-0.19	4.83E-04
ENSG00000111371	SLC38A1	8994.73	-0.09	4.83E-04
ENSG00000232442	MHENCRCR	516.27	-0.22	4.83E-04
ENSG00000103326	CAPN15	2508.58	0.21	4.83E-04

ENSG00000102390	PBDC1	243.38	0.20	4.89E-04
ENSG00000105397	TYK2	5710.07	-0.16	4.91E-04
ENSG00000172530	BANP	2657.81	-0.21	4.94E-04
ENSG00000177721	ANXA2R	650.57	-0.19	4.99E-04
ENSG00000060688	SNRNP40	857.80	0.11	5.04E-04
ENSG00000163918	RFC4	180.63	0.18	5.04E-04
ENSG00000125384	PTGER2	962.86	0.35	5.04E-04
ENSG00000163754	GYG1	988.59	0.17	5.12E-04
ENSG00000158480	SPATA2	539.07	-0.13	5.14E-04
ENSG00000279400	NA	27.14	1.05	5.20E-04
ENSG00000246363	LINC02458	22.88	-0.56	5.20E-04
ENSG00000173511	VEGFB	475.84	-0.16	5.21E-04
ENSG00000172183	ISG20	6063.68	0.29	5.25E-04
ENSG00000116133	DHCR24	159.36	0.29	5.27E-04
ENSG00000187621	TCL6	128.46	-0.33	5.32E-04
ENSG00000041357	PSMA4	1933.12	0.19	5.37E-04
ENSG00000010030	ETV7	354.20	0.95	5.37E-04
ENSG00000240403	KIR3DL2	88.50	0.35	5.43E-04
ENSG00000280067		54.93	-0.39	5.45E-04
ENSG00000148110	MFSD14B	1549.39	0.13	5.50E-04
ENSG00000105875	WDR91	1151.43	-0.21	5.56E-04
ENSG00000244313		135.39	-0.19	5.58E-04
ENSG00000106868	SUSD1	730.39	0.21	5.60E-04
ENSG00000176049	JAKMIP2	677.82	0.45	5.62E-04
ENSG00000280035		306.35	-0.42	5.62E-04
ENSG00000134571	MYBPC3	397.35	0.36	5.81E-04
ENSG00000257242	LINC01619	687.29	-0.18	5.81E-04
ENSG00000121594	CD80	674.66	0.80	5.81E-04
ENSG00000055118	KCNH2	82.05	-0.35	5.81E-04
ENSG00000238009		27.06	-0.45	5.87E-04
ENSG00000177054	ZDHHC13	647.37	0.15	5.92E-04
ENSG00000165650	PDZD8	2015.31	-0.21	5.97E-04
ENSG00000105327	BBC3	472.02	-0.25	6.01E-04
ENSG00000142208	AKT1	3553.28	-0.15	6.09E-04
ENSG00000119013	NDUFB3	263.72	0.23	6.11E-04
ENSG00000092758	COL9A3	180.90	-0.41	6.11E-04
ENSG00000114450	GNB4	1527.93	0.28	6.12E-04
ENSG00000079999	KEAP1	988.09	0.21	6.20E-04
ENSG00000204642	HLA-F	9541.48	0.15	6.20E-04
ENSG00000125835	SNRPB	1975.04	0.18	6.22E-04
ENSG00000170271	FAXDC2	804.59	-0.63	6.22E-04
ENSG00000263335		308.29	-0.24	6.22E-04
ENSG00000154589	LY96	464.33	0.34	6.31E-04
ENSG00000132109	TRIM21	1568.02	0.33	6.31E-04
ENSG00000164430	CGAS	698.80	0.27	6.31E-04
ENSG00000134709	HOOK1	324.72	-0.16	6.37E-04
ENSG00000187957	DNER	32.78	1.00	6.38E-04
ENSG00000143549	TPM3	8430.76	0.17	6.41E-04
ENSG00000156313	RPGR	641.48	-0.24	6.45E-04
ENSG00000103066	PLA2G15	347.43	0.27	6.48E-04

ENSG00000163947	ARHGEF3	2615.79	0.16	6.59E-04
ENSG00000064102	INTS13	432.66	0.15	6.64E-04
ENSG00000113368	LMNB1	1750.89	0.29	6.68E-04
ENSG00000196369	SRGAP2B	367.30	0.26	6.72E-04
ENSG00000104043	ATP8B4	983.33	0.36	6.72E-04
ENSG00000184005	ST6GALNAC3	142.92	-0.29	6.81E-04
ENSG00000110315	RNF141	1314.58	-0.30	6.83E-04
ENSG00000275126	H4C13	141.96	0.43	6.83E-04
ENSG00000230092		210.45	-0.16	6.84E-04
ENSG00000091490	SEL1L3	2152.74	-0.16	6.86E-04
ENSG00000148200	NR6A1	267.56	-0.42	6.93E-04
ENSG00000198574	SH2D1B	891.64	0.41	6.95E-04
ENSG00000122678	POLM	1613.08	-0.11	6.97E-04
ENSG00000106546	AHR	2260.12	0.28	6.97E-04
ENSG00000253701	NA	75.97	-0.42	6.98E-04
ENSG00000165905	LARGE2	111.14	-0.39	6.99E-04
ENSG00000123836	PFKFB2	509.36	-0.25	7.01E-04
ENSG00000123989	CHPF	210.83	0.21	7.01E-04
ENSG00000136824	SMC2	454.06	0.20	7.11E-04
ENSG00000100911	PSME2	1971.73	0.30	7.17E-04
ENSG00000168496	FEN1	190.42	0.23	7.18E-04
ENSG00000179909	ZNF154	544.79	-0.12	7.21E-04
ENSG00000163788	SNRK	5119.97	-0.14	7.21E-04
ENSG00000112130	RNF8	362.78	0.15	7.21E-04
ENSG00000251661		267.23	0.24	7.21E-04
ENSG00000144283	PKP4	678.90	-0.22	7.28E-04
ENSG00000213085	CFAP45	121.31	-0.77	7.28E-04
ENSG00000218809		387.90	-0.61	7.34E-04
ENSG00000111678	C12orf57	1472.06	-0.26	7.35E-04
ENSG00000080819	CPOX	495.26	0.16	7.35E-04
ENSG00000162298	SYVN1	1128.74	-0.15	7.36E-04
ENSG00000168734	PKIG	280.82	-0.21	7.47E-04
ENSG00000125498	KIR2DL1	51.66	0.42	7.49E-04
ENSG00000005059	MCUB	1494.91	0.12	7.55E-04
ENSG00000141012	GALNS	1517.10	-0.20	7.55E-04
ENSG00000175727	MLXIP	3366.86	-0.17	7.57E-04
ENSG00000119383	PTPA	1464.59	0.15	7.58E-04
ENSG00000123096	SSPN	64.38	-0.37	7.58E-04
ENSG00000032389	EIPR1	559.90	0.13	7.75E-04
ENSG00000092200	RPGRIP1	68.24	-0.79	7.75E-04
ENSG00000198712	MT-CO2	5721.73	-0.30	7.75E-04
ENSG00000175711	B3GNTL1	809.82	-0.25	7.83E-04
ENSG00000187116	LILRA5	2183.41	0.42	7.87E-04
ENSG00000253307		78.84	-0.44	7.88E-04
ENSG00000257594	GALNT4	70.96	0.34	7.96E-04
ENSG00000150782	IL18	235.07	0.41	8.04E-04
ENSG00000103042	SLC38A7	555.56	0.28	8.10E-04
ENSG00000282980		109.42	-0.27	8.10E-04
ENSG00000132424	PNISR	6616.84	-0.13	8.11E-04
ENSG00000135540	NHSL1	66.80	0.42	8.11E-04

ENSG00000105492	SIGLEC6	26.93	-0.55	8.16E-04
ENSG00000143106	PSMA5	1355.09	0.17	8.17E-04
ENSG00000238063	LINC01685	17.59	-0.58	8.17E-04
ENSG00000213047	DENND1B	1404.84	0.19	8.17E-04
ENSG00000188396	DYNLT4	61.84	-0.46	8.23E-04
ENSG00000022567	SLC45A4	2408.67	-0.31	8.25E-04
ENSG00000131153	GINS2	28.42	0.54	8.29E-04
ENSG00000179958	DCTPP1	274.88	0.22	8.29E-04
ENSG00000100027	YPEL1	664.63	0.18	8.36E-04
ENSG00000100353	EIF3D	3511.06	-0.10	8.36E-04
ENSG00000137055	PLAA	815.30	0.14	8.42E-04
ENSG00000134318	ROCK2	1329.62	0.13	8.49E-04
ENSG00000087903	RFX2	464.39	-0.39	8.49E-04
ENSG00000140382	HMG20A	952.78	0.09	8.49E-04
ENSG00000186567	CEACAM19	33.44	-0.44	8.49E-04
ENSG00000146733	PSPH	98.94	0.22	8.49E-04
ENSG00000013374	NUB1	2995.10	0.21	8.49E-04
ENSG00000141337	ARSG	1135.79	-0.26	8.49E-04
ENSG00000273284		326.09	-0.26	8.49E-04
ENSG00000100307	CBX7	4081.93	-0.17	8.51E-04
ENSG00000181026	AEN	1031.48	0.18	8.52E-04
ENSG00000214029	ZNF891	700.50	-0.15	8.56E-04
ENSG00000112787	FBRSL1	2480.16	-0.17	8.58E-04
ENSG00000168071	CCDC88B	6034.00	-0.25	8.71E-04
ENSG00000162929	SANBR	176.69	0.20	8.72E-04
ENSG00000186056	MATN1-AS1	399.94	-0.25	8.72E-04
ENSG00000166411	IDH3A	782.51	0.14	8.99E-04
ENSG00000170962	PDGFD	171.05	0.29	9.00E-04
ENSG00000184428	TOP1MT	264.25	-0.24	9.02E-04
ENSG00000227598		107.58	-0.29	9.08E-04
ENSG00000069702	TGFBR3	1742.00	0.21	9.11E-04
ENSG00000110063	DCPS	315.85	0.15	9.20E-04
ENSG00000204264	PSMB8	2210.41	0.19	9.21E-04
ENSG00000180739	S1PR5	902.82	0.31	9.29E-04
ENSG00000139567	ACVRL1	110.50	0.56	9.32E-04
ENSG00000186575	NF2	1290.78	0.10	9.34E-04
ENSG00000187688	TRPV2	1469.84	0.14	9.34E-04
ENSG00000269858	EGLN2	2312.27	-0.20	9.35E-04
ENSG00000127952	STYXL1	454.76	0.17	9.38E-04
ENSG00000273599		88.92	-0.35	9.38E-04
ENSG00000168026	TTC21A	283.88	0.38	9.39E-04
ENSG00000100097	LGALS1	3167.00	0.42	9.51E-04
ENSG00000125651	GTF2F1	1213.14	0.13	9.51E-04
ENSG00000104889	RNASEH2A	128.66	0.22	9.57E-04
ENSG00000065060	UHRF1BP1	873.17	0.13	9.74E-04
ENSG00000203879	GDI1	2800.00	-0.12	9.74E-04
ENSG00000147459	DOCK5	7562.60	-0.36	9.74E-04
ENSG00000068784	SRBD1	867.36	0.14	9.77E-04
ENSG00000148719	DNAJB12	1588.80	-0.13	9.80E-04
ENSG00000150760	DOCK1	68.33	0.31	9.87E-04

ENSG00000197992	CLEC9A	16.57	-0.91	9.87E-04
ENSG00000109046	WSB1	7271.96	0.32	9.88E-04
ENSG00000283573		27.24	0.94	9.96E-04
ENSG00000279620		219.91	-0.23	9.96E-04
ENSG00000073150	PANX2	244.76	-0.52	1.01E-03
ENSG00000178538	CA8	46.40	-0.46	1.01E-03
ENSG00000074410	CA12	90.99	1.00	1.02E-03
ENSG00000155093	PTPRN2	100.80	0.40	1.02E-03
ENSG00000082213	C5orf22	514.94	0.16	1.02E-03
ENSG00000164715	LMTK2	1743.72	-0.18	1.02E-03
ENSG00000159131	GART	1214.79	0.22	1.02E-03
ENSG00000145088	EAf2	280.03	0.25	1.02E-03
ENSG00000183323	CCDC125	630.10	-0.19	1.02E-03
ENSG00000009844	VTA1	1023.73	0.19	1.02E-03
ENSG00000051341	POLQ	107.44	0.38	1.02E-03
ENSG00000230724	LINC01001	301.24	-0.41	1.03E-03
ENSG00000181220	ZNF746	1760.72	-0.17	1.03E-03
ENSG00000146215	CRIP3	42.85	-0.35	1.03E-03
ENSG00000152422	XRCC4	217.64	0.22	1.04E-03
ENSG00000135424	ITGA7	103.52	0.41	1.05E-03
ENSG00000147099	HDAC8	388.69	0.11	1.05E-03
ENSG00000180776	ZDHHC20	3571.91	0.13	1.05E-03
ENSG00000260461	NA	175.77	-0.26	1.06E-03
ENSG00000248477	NAIP3	25.48	0.49	1.06E-03
ENSG00000256262	USP30-AS1	147.88	0.26	1.06E-03
ENSG00000244620		43.38	-0.41	1.06E-03
ENSG00000197119	SLC25A29	907.87	-0.40	1.07E-03
ENSG00000139579	NABP2	249.59	0.17	1.07E-03
ENSG00000178226	PRSS36	40.54	-0.43	1.07E-03
ENSG00000137414	FAM8A1	2467.90	0.30	1.07E-03
ENSG00000150768	DLAT	513.06	0.10	1.07E-03
ENSG00000133488	SEC14L4	34.52	-0.76	1.08E-03
ENSG00000117020	AKT3	2502.78	-0.12	1.08E-03
ENSG00000122705	CLTA	1627.05	0.26	1.09E-03
ENSG00000185721	DRG1	701.75	0.12	1.09E-03
ENSG00000221829	FANCG	284.49	0.14	1.09E-03
ENSG00000113732	ATP6V0E1	2717.88	0.18	1.10E-03
ENSG00000172379	ARNT2	173.39	1.17	1.10E-03
ENSG00000134333	LDHA	5265.91	0.22	1.10E-03
ENSG00000146067	FAM193B	3008.28	-0.12	1.11E-03
ENSG00000235151		38.56	0.64	1.11E-03
ENSG00000274272		366.90	-0.27	1.11E-03
ENSG00000162512	SDC3	293.01	0.67	1.12E-03
ENSG00000123838	C4BPA	22.58	-1.25	1.12E-03
ENSG00000137955	RABGGTB	1492.61	0.12	1.12E-03
ENSG00000116299	ELAPOR1	499.76	-0.39	1.12E-03
ENSG00000250771		539.29	0.86	1.12E-03
ENSG00000231826	LINC01819	49.38	-0.58	1.13E-03
ENSG00000130584	ZBTB46	232.34	-0.45	1.13E-03
ENSG00000248527	MTATP6P1	465.12	-0.37	1.13E-03

ENSG00000134308	YWHAQ	2831.21	0.14	1.14E-03
ENSG00000136874	STX17	1013.38	0.12	1.14E-03
ENSG00000231160	KLF3-AS1	387.54	-0.21	1.14E-03
ENSG00000233431	LINC02596	33.43	-1.32	1.14E-03
ENSG00000120805	ARL1	754.76	0.11	1.15E-03
ENSG00000011275	RNF216	3049.48	-0.09	1.15E-03
ENSG00000103381	CPPED1	2349.61	-0.46	1.15E-03
ENSG00000119392	GLE1	1085.71	0.09	1.15E-03
ENSG00000114904	NEK4	769.14	0.12	1.16E-03
ENSG00000156171	DRAM2	1276.01	0.15	1.16E-03
ENSG00000028116	VRK2	1201.60	0.22	1.16E-03
ENSG00000156709	AIFM1	330.10	0.18	1.17E-03
ENSG00000211668	IGLV2-11	65.89	0.59	1.18E-03
ENSG00000175334	BANF1	888.50	0.17	1.18E-03
ENSG00000184489	PTP4A3	612.25	-0.40	1.18E-03
ENSG00000198113	TOR4A	1084.50	0.26	1.18E-03
ENSG00000270164	LINC01480	41.42	-0.32	1.19E-03
ENSG00000149557	FEZ1	179.04	0.57	1.19E-03
ENSG00000175470	PPP2R2D	1784.13	-0.10	1.19E-03
ENSG00000122122	SASH3	6173.66	0.17	1.20E-03
ENSG00000111540	RAB5B	3025.42	-0.11	1.20E-03
ENSG00000088992	TESC	1066.97	-0.55	1.21E-03
ENSG00000267676	THA1P	166.35	0.51	1.21E-03
ENSG00000163644	PPM1K	2797.85	0.23	1.22E-03
ENSG00000202019		32.43	-0.83	1.22E-03
ENSG00000160883	HK3	2073.40	0.36	1.23E-03
ENSG00000124067	SLC12A4	835.46	-0.14	1.23E-03
ENSG00000100503	NIN	6358.82	-0.13	1.24E-03
ENSG00000100426	ZBED4	1400.90	-0.13	1.25E-03
ENSG00000130300	PLVAP	186.26	-0.62	1.27E-03
ENSG00000118162	KPTN	127.34	0.28	1.27E-03
ENSG00000090889	KIF4A	48.60	0.47	1.27E-03
ENSG00000139174	PRICKLE1	87.06	-0.30	1.27E-03
ENSG00000065600	PACC1	473.26	0.24	1.27E-03
ENSG00000253535	ADAM7-AS1	47.11	-0.37	1.28E-03
ENSG00000171817	ZNF540	337.63	-0.16	1.28E-03
ENSG00000157554	ERG	35.54	0.50	1.28E-03
ENSG00000198853	RUSC2	355.89	0.27	1.29E-03
ENSG00000244509	APOBEC3C	1810.09	0.18	1.30E-03
ENSG00000230753	ZNF341-AS1	12.86	0.78	1.31E-03
ENSG00000084652	TXLNA	1752.67	0.15	1.31E-03
ENSG00000131016	AKAP12	205.23	-0.33	1.31E-03
ENSG00000165672	PRDX3	930.21	0.18	1.32E-03
ENSG00000123395	ATG101	399.75	0.23	1.33E-03
ENSG00000250929	LINC01181	35.53	1.31	1.33E-03
ENSG00000092847	AGO1	2516.78	-0.15	1.34E-03
ENSG00000198740	ZNF652	2306.95	-0.17	1.35E-03
ENSG00000054219	LY75	543.75	-0.18	1.36E-03
ENSG00000118263	KLF7	2205.12	-0.24	1.36E-03
ENSG00000197385	ZNF860	67.00	-0.32	1.36E-03

ENSG00000233875		102.81	0.46	1.36E-03
ENSG00000238311	SNORD13E	30.67	-0.51	1.36E-03
ENSG00000137757	CASP5	332.69	0.64	1.36E-03
ENSG00000137726	FXVD6	77.16	0.49	1.37E-03
ENSG00000224295	OLFM5P	25.26	0.52	1.37E-03
ENSG00000137996	RTCA	851.76	0.11	1.37E-03
ENSG00000155561	NUP205	1744.50	0.11	1.38E-03
ENSG00000181467	RAP2B	3061.25	0.15	1.39E-03
ENSG00000176293	ZNF135	136.84	-0.19	1.39E-03
ENSG00000183474	GTF2H2C	260.13	0.13	1.39E-03
ENSG00000125900	SIRPD	69.71	-0.47	1.40E-03
ENSG00000169375	SIN3A	3270.11	-0.14	1.40E-03
ENSG00000265828	MIR3939	47.99	-0.33	1.41E-03
ENSG00000203797	DDO	13.74	0.72	1.41E-03
ENSG00000275527		34.91	-0.78	1.43E-03
ENSG00000130592	LSP1	14296.17	-0.18	1.43E-03
ENSG00000127824	TUBA4A	1828.20	-0.25	1.44E-03
ENSG00000215529	EFCAB8	104.81	-0.24	1.44E-03
ENSG00000146858	ZC3HAV1L	73.10	0.39	1.44E-03
ENSG00000101003	GIN51	39.83	0.35	1.44E-03
ENSG00000075239	ACAT1	308.30	0.19	1.44E-03
ENSG00000266017	MIR4477B	54.75	0.45	1.45E-03
ENSG00000246763	RGMB-AS1	14.22	-0.50	1.45E-03
ENSG00000182179	UBA7	2717.69	0.22	1.45E-03
ENSG00000136144	RCBTB1	802.07	0.14	1.47E-03
ENSG00000119707	RBM25	4110.33	-0.11	1.47E-03
ENSG00000215421	ZNF407	1780.03	-0.11	1.47E-03
ENSG00000133275	CSNK1G2	4471.76	-0.11	1.47E-03
ENSG00000260267		768.71	-0.15	1.47E-03
ENSG00000109445	ZNF330	587.28	0.14	1.47E-03
ENSG00000100403	ZC3H7B	1993.30	0.11	1.48E-03
ENSG00000144597	EAF1	1740.44	0.19	1.49E-03
ENSG00000267260		17.42	-0.41	1.49E-03
ENSG00000171649	ZIK1	250.51	-0.16	1.49E-03
ENSG00000122025	FLT3	89.74	-0.49	1.50E-03
ENSG00000134153	EMC7	745.69	0.17	1.52E-03
ENSG00000251301	LINC02384	200.64	0.45	1.52E-03
ENSG00000033178	UBA6	2337.66	0.16	1.52E-03
ENSG00000082397	EPB41L3	2157.25	0.31	1.53E-03
ENSG00000127561	SYNGR3	80.35	-0.30	1.53E-03
ENSG00000129465	RIPK3	716.41	0.17	1.55E-03
ENSG00000262766		122.60	-0.32	1.56E-03
ENSG00000179841	AKAP5	331.67	0.48	1.56E-03
ENSG00000160213	CSTB	2794.80	0.34	1.56E-03
ENSG00000198804	MT-CO1	67467.11	-0.26	1.56E-03
ENSG00000198131	ZNF544	739.50	-0.10	1.58E-03
ENSG00000233844	NA	41.03	-0.33	1.58E-03
ENSG00000273729		298.60	-0.23	1.58E-03
ENSG00000160229	ZNF66	184.67	-0.19	1.59E-03
ENSG00000183570	PCBP3	131.87	-0.34	1.59E-03

ENSG00000269404	SPIB	220.55	-0.23	1.59E-03
ENSG00000227945	PTPRK-AS1	20.25	-0.58	1.59E-03
ENSG00000176083	ZNF683	251.10	0.41	1.59E-03
ENSG00000118640	VAMP8	1329.04	0.21	1.59E-03
ENSG00000211669	IGLV3-10	22.30	0.73	1.60E-03
ENSG00000132305	IMMT	1301.22	0.11	1.60E-03
ENSG00000228716	DHFR	343.09	0.20	1.60E-03
ENSG00000166046	TCP11L2	3704.81	-0.22	1.61E-03
ENSG00000109805	NCAPG	114.47	0.44	1.62E-03
ENSG00000115919	KYNU	3314.74	0.43	1.62E-03
ENSG00000157514	TSC22D3	7954.54	-0.27	1.64E-03
ENSG00000152253	SPC25	24.03	0.57	1.65E-03
ENSG00000138286	FAM149B1	490.62	0.10	1.65E-03
ENSG00000188822	CNR2	334.49	-0.27	1.65E-03
ENSG00000260257		262.32	-0.16	1.67E-03
ENSG00000224699	LAMTOR5-AS1	358.18	-0.11	1.68E-03
ENSG00000114480	GBE1	1029.49	-0.31	1.68E-03
ENSG00000240563	L1TD1	15.98	0.75	1.69E-03
ENSG00000105085	MED26	346.20	-0.14	1.69E-03
ENSG00000135801	TAF5L	665.10	0.10	1.70E-03
ENSG00000124074	ENKD1	127.50	-0.19	1.70E-03
ENSG00000144635	DYNC1L1I	1276.57	-0.13	1.71E-03
ENSG00000239779	WBP1	447.86	-0.14	1.71E-03
ENSG00000135047	CTSL	6684.84	0.97	1.71E-03
ENSG00000172403	SYNPO2	83.88	0.34	1.72E-03
ENSG00000103544	VPS35L	1217.69	0.11	1.72E-03
ENSG00000185482	STAC3	97.36	0.43	1.72E-03
ENSG00000237181	PRKAR1B-AS1	186.38	0.27	1.72E-03
ENSG00000149196	HIKESHI	415.33	0.15	1.72E-03
ENSG00000081041	CXCL2	5069.86	0.79	1.72E-03
ENSG00000079691	CARMIL1	344.45	-0.18	1.72E-03
ENSG00000203760	CENPW	38.31	0.37	1.72E-03
ENSG00000168434	COG7	532.16	0.11	1.73E-03
ENSG00000254685	FPGT	318.05	0.23	1.73E-03
ENSG00000105464	GRIN2D	16.34	0.54	1.74E-03
ENSG00000121380	BCL2L14	34.70	0.71	1.74E-03
ENSG00000176485	PLAAT3	169.58	0.26	1.76E-03
ENSG00000185418	TARS3	691.01	-0.13	1.77E-03
ENSG00000143486	EIF2D	846.04	-0.13	1.78E-03
ENSG00000162771	GARIN4	14.88	0.83	1.79E-03
ENSG00000242299		72.43	-0.29	1.79E-03
ENSG00000273151		159.53	0.31	1.79E-03
ENSG00000125505	MBOAT7	4766.68	-0.28	1.79E-03
ENSG00000168067	MAP4K2	2079.57	-0.11	1.79E-03
ENSG00000154262	ABCA6	63.59	0.45	1.80E-03
ENSG00000155115	GTF3C6	454.66	0.22	1.82E-03
ENSG00000108861	DUSP3	1202.79	0.19	1.82E-03
ENSG00000278600		1514.65	-0.32	1.83E-03
ENSG00000134684	YARS1	1617.87	0.18	1.84E-03
ENSG00000124813	RUNX2	1221.51	-0.19	1.84E-03

ENSG00000197982	C1orf122	828.81	0.46	1.85E-03
ENSG00000207808	MIR27A	39.04	-0.47	1.87E-03
ENSG00000226942	IL9RP3	154.27	-0.25	1.88E-03
ENSG00000249763		10.53	0.72	1.88E-03
ENSG00000197646	PDCD1LG2	95.39	0.56	1.88E-03
ENSG00000121413	ZSCAN18	1157.40	-0.16	1.91E-03
ENSG00000133101	CCNA1	24.27	0.67	1.92E-03
ENSG00000125166	GOT2	581.80	0.11	1.92E-03
ENSG00000198040	ZNF84	1075.28	-0.11	1.93E-03
ENSG00000105976	MET	605.74	0.97	1.93E-03
ENSG00000164109	MAD2L1	118.18	0.23	1.93E-03
ENSG00000163534	FCRL1	858.28	-0.45	1.93E-03
ENSG00000156675	RAB11FIP1	4006.52	-0.18	1.94E-03
ENSG00000139410	SDSL	272.89	0.47	1.94E-03
ENSG00000118816	CCNI	9430.08	-0.15	1.94E-03
ENSG00000158864	NDUFS2	963.36	0.09	1.95E-03
ENSG00000151491	EPS8	110.16	0.36	1.95E-03
ENSG00000147649	MTDH	3277.65	0.10	1.95E-03
ENSG00000139180	NDUFA9	572.21	0.12	1.95E-03
ENSG00000153933	DGKE	1101.23	-0.13	1.96E-03
ENSG00000204936	CD177	48.08	0.86	1.97E-03
ENSG00000068383	INPP5A	996.93	-0.16	1.98E-03
ENSG00000110871	COQ5	308.15	0.16	1.99E-03
ENSG00000214022	REPIN1	3069.56	-0.16	1.99E-03
ENSG00000151176	PLBD2	824.92	0.22	1.99E-03
ENSG00000100225	FBXO7	8889.83	-0.41	1.99E-03
ENSG00000115902	SLC1A4	647.56	0.39	2.00E-03
ENSG00000180398	MCFD2	1103.26	0.10	2.00E-03
ENSG00000108406	DHX40	1009.26	-0.14	2.00E-03
ENSG00000260228		52.67	0.39	2.00E-03
ENSG00000159433	STARD9	603.66	-0.22	2.02E-03
ENSG00000231507	LINC01353	67.67	-0.46	2.02E-03
ENSG00000174326	SLC16A11	49.88	-0.38	2.03E-03
ENSG00000260086		37.11	-0.49	2.03E-03
ENSG00000160211	G6PD	1584.30	-0.19	2.04E-03
ENSG00000213600		290.15	-0.21	2.05E-03
ENSG00000154330	PGM5	29.65	-0.85	2.06E-03
ENSG00000179456	ZBTB18	2535.78	-0.18	2.06E-03
ENSG00000205808	PLPP6	450.45	-0.16	2.06E-03
ENSG00000279333		31.85	-0.36	2.06E-03
ENSG00000218565		66.12	0.64	2.07E-03
ENSG00000250696		125.83	0.41	2.07E-03
ENSG00000170949	ZNF160	1236.67	-0.10	2.07E-03
ENSG00000133393	CEP20	438.90	0.15	2.07E-03
ENSG00000196724	ZNF418	237.45	-0.14	2.08E-03
ENSG00000077152	UBE2T	45.20	0.40	2.08E-03
ENSG00000143155	TIPRL	738.07	0.14	2.08E-03
ENSG00000173442	EHBP1L1	7745.85	-0.23	2.08E-03
ENSG00000198892	SHISA4	117.51	-0.54	2.08E-03
ENSG00000171992	SYNPO	136.45	-0.44	2.09E-03

ENSG00000178947	SMIM10L2A	61.48	-0.30	2.09E-03
ENSG00000138942	RNF185	1114.14	0.21	2.09E-03
ENSG00000121060	TRIM25	6180.03	0.32	2.09E-03
ENSG00000236514		34.47	-0.33	2.10E-03
ENSG00000134061	CD180	296.20	0.44	2.10E-03
ENSG00000176542	USF3	2368.59	-0.17	2.11E-03
ENSG00000254632		26.94	1.03	2.11E-03
ENSG00000136247	ZDHHC4	400.50	0.12	2.11E-03
ENSG00000156858	PRR14	1189.84	-0.11	2.14E-03
ENSG00000106367	AP1S1	185.05	0.28	2.14E-03
ENSG00000276105		20.70	-0.47	2.14E-03
ENSG00000132341	RAN	2981.19	0.23	2.16E-03
ENSG00000249459	ZNF286B	126.26	-0.17	2.16E-03
ENSG00000145685	LHFPL2	1654.96	0.71	2.16E-03
ENSG00000167208	SNX20	3191.77	0.21	2.17E-03
ENSG00000134802	SLC43A3	2201.23	0.58	2.17E-03
ENSG00000160223	ICOSLG	244.66	-0.33	2.17E-03
ENSG00000151687	ANKAR	395.28	-0.14	2.18E-03
ENSG00000188404	SELL	13774.66	0.26	2.19E-03
ENSG00000137563	GGH	53.12	0.31	2.20E-03
ENSG00000205659	LIN52	248.14	0.13	2.20E-03
ENSG00000196262	PPIA	8756.59	0.17	2.20E-03
ENSG00000132470	ITGB4	28.82	-0.71	2.20E-03
ENSG00000141551	CSNK1D	6581.62	-0.11	2.22E-03
ENSG00000013275	PSMC4	1140.23	0.21	2.22E-03
ENSG00000164305	CASP3	1072.04	0.15	2.22E-03
ENSG00000166145	SPINT1	237.02	-0.34	2.22E-03
ENSG00000128335	APOL2	3265.33	0.29	2.22E-03
ENSG00000196150	ZNF250	687.82	-0.17	2.23E-03
ENSG00000167850	CD300C	395.28	0.39	2.23E-03
ENSG00000147044	CASK	1277.81	-0.10	2.23E-03
ENSG00000136997	MYC	2165.95	0.22	2.28E-03
ENSG00000160233	LRRC3	95.12	0.33	2.28E-03
ENSG00000174021	GN5	688.49	0.21	2.28E-03
ENSG00000279447		41.32	-0.63	2.28E-03
ENSG00000120053	GOT1	199.91	0.20	2.29E-03
ENSG00000072571	HMMR	105.51	0.44	2.29E-03
ENSG00000100003	SEC14L2	181.12	-0.31	2.29E-03
ENSG00000124831	LRRFIP1	6920.49	-0.17	2.29E-03
ENSG00000189430	NCR1	507.22	0.31	2.29E-03
ENSG00000115561	CHMP3	1546.88	-0.10	2.29E-03
ENSG00000227076		35.39	-0.55	2.29E-03
ENSG00000100218	RSPH14	10.72	-0.73	2.29E-03
ENSG00000161914	ZNF653	183.36	-0.18	2.31E-03
ENSG00000108829	LRRC59	1401.65	0.16	2.34E-03
ENSG00000120217	CD274	2369.61	0.64	2.36E-03
ENSG00000130414	NDUFA10	2111.85	-0.07	2.36E-03
ENSG00000078098	FAP	78.94	1.21	2.37E-03
ENSG00000162366	PDZK1IP1	966.50	-0.66	2.37E-03
ENSG00000114520	SNX4	515.61	0.13	2.37E-03

ENSG00000277117		221.07	-0.33	2.37E-03
ENSG00000106009	BRAT1	1179.55	-0.13	2.38E-03
ENSG00000124243	BCAS4	954.84	-0.16	2.38E-03
ENSG00000251127		18.23	0.85	2.38E-03
ENSG00000080189	SLC35C2	2465.86	-0.10	2.39E-03
ENSG00000125144	MT1G	47.98	1.27	2.39E-03
ENSG00000204308	RNF5	609.15	0.15	2.40E-03
ENSG00000215252	GOLGA8B	1481.48	-0.15	2.40E-03
ENSG00000050438	SLC4A8	317.81	0.21	2.41E-03
ENSG00000198805	PNP	1793.16	0.40	2.41E-03
ENSG00000229816	DDX50P1	116.04	-0.20	2.41E-03
ENSG00000116539	ASH1L	6610.13	-0.08	2.41E-03
ENSG00000183207	RUVBL2	609.90	0.16	2.41E-03
ENSG00000279155		12.55	-0.76	2.42E-03
ENSG00000129472	RAB2B	1241.42	-0.36	2.44E-03
ENSG00000226964	RHEBP2	16.97	0.40	2.44E-03
ENSG00000121039	RDH10	191.19	0.20	2.44E-03
ENSG00000131979	GCH1	2712.66	0.40	2.44E-03
ENSG00000187164	SHTN1	385.62	0.26	2.44E-03
ENSG00000163736	PPBP	4420.55	-0.49	2.45E-03
ENSG00000258831		30.02	-0.92	2.45E-03
ENSG00000138663	COPS4	590.06	0.14	2.45E-03
ENSG00000100997	ABHD12	788.41	0.16	2.45E-03
ENSG00000141076	UTP4	730.72	0.17	2.45E-03
ENSG00000166794	PPIB	3057.66	0.18	2.46E-03
ENSG00000280206		326.20	-0.21	2.46E-03
ENSG00000179021	C3orf38	1046.73	0.13	2.49E-03
ENSG00000155393	HEATR3	596.38	0.15	2.49E-03
ENSG00000137478	FCHSD2	2569.83	-0.17	2.49E-03
ENSG00000179361	ARID3B	1397.12	-0.12	2.49E-03
ENSG00000160877	NACC1	1486.19	0.23	2.51E-03
ENSG00000111837	MAK	156.53	-0.51	2.52E-03
ENSG00000164111	ANXA5	5514.39	0.40	2.54E-03
ENSG00000165934	CPSF2	1828.07	0.14	2.55E-03
ENSG00000167114	SLC27A4	407.47	0.15	2.56E-03
ENSG00000203721	LINC00862	92.12	-0.37	2.56E-03
ENSG00000105048	TNNT1	13.32	0.96	2.58E-03
ENSG00000108622	ICAM2	1334.73	0.16	2.58E-03
ENSG00000142156	COL6A1	89.74	-0.32	2.58E-03
ENSG00000253540	FAM86HP	108.05	-0.23	2.60E-03
ENSG00000003056	M6PR	3859.61	0.23	2.60E-03
ENSG00000150540	HNMT	1115.99	0.53	2.61E-03
ENSG00000186665	C17orf58	47.49	0.34	2.61E-03
ENSG00000142039	CCDC97	1469.61	0.16	2.62E-03
ENSG00000135046	ANXA1	6894.96	0.25	2.62E-03
ENSG00000181638	ZFP41	470.11	-0.12	2.64E-03
ENSG00000144736	SHQ1	481.92	0.13	2.64E-03
ENSG00000133816	MICAL2	3571.81	-0.31	2.64E-03
ENSG00000005302	MSL3	2954.33	0.14	2.65E-03
ENSG00000112293	GPLD1	51.87	-0.32	2.65E-03

ENSG00000162745	OLFML2B	211.57	0.92	2.65E-03
ENSG00000279727	LINC02033	193.81	0.27	2.65E-03
ENSG00000140931	CMTM3	1737.92	0.16	2.65E-03
ENSG00000172594	SMPDL3A	363.73	0.45	2.66E-03
ENSG00000227039	ITGB2-AS1	1097.64	-0.35	2.66E-03
ENSG00000236700	LINC01010	48.72	0.91	2.66E-03
ENSG00000124374	PAIP2B	276.51	-0.15	2.67E-03
ENSG00000128604	IRF5	1360.05	0.25	2.67E-03
ENSG00000167325	RRM1	538.33	0.13	2.67E-03
ENSG00000232629	HLA-DQB2	77.46	-0.28	2.67E-03
ENSG00000281100		293.57	0.24	2.67E-03
ENSG00000100298	APOBEC3H	77.70	0.39	2.67E-03
ENSG00000169490	TM2D2	567.26	0.20	2.69E-03
ENSG00000133321	PLAAT4	1688.84	0.20	2.70E-03
ENSG00000136295	TTYH3	3210.91	0.29	2.71E-03
ENSG00000163516	ANKZF1	1394.04	-0.13	2.71E-03
ENSG00000090989	EXOC1	1516.79	0.13	2.71E-03
ENSG00000147677	EIF3H	3150.06	-0.09	2.74E-03
ENSG00000135452	TSPAN31	532.53	0.13	2.74E-03
ENSG00000222112	RN7SKP16	184.16	-0.28	2.75E-03
ENSG00000169248	CXCL11	25.91	1.88	2.77E-03
ENSG00000189180	ZNF33A	2628.01	-0.11	2.77E-03
ENSG00000123728	RAP2C	3195.08	0.20	2.77E-03
ENSG00000234219	CDCA4P4	113.13	-0.24	2.77E-03
ENSG00000181894	ZNF329	420.31	-0.12	2.78E-03
ENSG00000173198	CYSLTR1	811.68	0.26	2.78E-03
ENSG00000172757	CFL1	7715.69	0.17	2.79E-03
ENSG00000109099	PMP22	115.84	-0.54	2.79E-03
ENSG00000243438	LARP1BP2	13.77	-0.66	2.79E-03
ENSG00000181619	GPR135	130.03	-0.20	2.79E-03
ENSG00000113369	ARRDC3	7999.49	0.21	2.79E-03
ENSG00000184271	POU6F1	653.48	-0.15	2.80E-03
ENSG00000182287	AP1S2	2533.49	0.27	2.80E-03
ENSG00000023697	DERA	325.17	0.14	2.80E-03
ENSG00000152503	TRIM36	132.06	0.56	2.80E-03
ENSG00000178445	GLDC	11.70	0.77	2.82E-03
ENSG00000171204	TMEM126B	561.58	0.16	2.83E-03
ENSG00000105612	DNASE2	732.44	0.22	2.83E-03
ENSG00000124508	BTN2A2	1242.83	0.27	2.83E-03
ENSG00000122008	POLK	1353.35	0.13	2.84E-03
ENSG00000211611	IGKV6-21	12.67	0.95	2.86E-03
ENSG00000152620	NADK2	465.66	0.12	2.89E-03
ENSG00000068912	ERLEC1	751.84	0.13	2.89E-03
ENSG00000116786	PLEKHM2	3884.27	0.16	2.92E-03
ENSG00000243290	IGKV1-12	40.76	0.53	2.92E-03
ENSG00000115295	CLIP4	1820.89	0.10	2.93E-03
ENSG00000279430		68.53	-0.58	2.93E-03
ENSG00000130939	UBE4B	1852.60	-0.11	2.93E-03
ENSG00000140406	TLNRD1	1838.41	0.22	2.93E-03
ENSG00000185000	DGAT1	863.13	-0.18	2.93E-03

ENSG00000066056	TIE1	16.15	-0.62	2.93E-03
ENSG00000113300	CNOT6	1377.34	0.12	2.93E-03
ENSG00000265625		239.86	-0.23	2.93E-03
ENSG00000153767	GTF2E1	549.07	0.23	2.94E-03
ENSG00000170298	LGALS9B	27.33	0.55	2.94E-03
ENSG00000124357	NAGK	5405.40	0.27	2.98E-03
ENSG00000214626	POLR3DP1	29.27	-0.40	3.01E-03
ENSG00000140199	SLC12A6	7185.78	-0.18	3.01E-03
ENSG00000074842	MYDGF	820.74	0.20	3.03E-03
ENSG00000259062	ACTN1-DT	54.43	-0.29	3.03E-03
ENSG00000232528		183.69	-0.44	3.04E-03
ENSG00000070759	TESK2	433.39	-0.16	3.05E-03
ENSG00000138413	IDH1	810.31	0.26	3.05E-03
ENSG00000105676	ARMC6	424.85	0.15	3.05E-03
ENSG00000279415		79.23	-0.26	3.05E-03
ENSG00000163050	COQ8A	1069.51	-0.26	3.06E-03
ENSG00000134072	CAMK1	311.16	0.30	3.07E-03
ENSG00000129682	FGF13	51.69	0.54	3.07E-03
ENSG00000140995	DEF8	1885.82	-0.22	3.08E-03
ENSG00000153093	ACOXL	22.81	0.60	3.09E-03
ENSG00000142599	RERE	3015.13	-0.17	3.09E-03
ENSG00000242372	EIF6	814.44	0.20	3.09E-03
ENSG00000049449	RCN1	440.98	0.22	3.10E-03
ENSG00000168913	ENHO	8.47	-0.89	3.10E-03
ENSG00000106348	IMPDH1	2468.10	-0.29	3.10E-03
ENSG00000241772		86.16	-0.26	3.10E-03
ENSG00000142230	SAE1	914.28	0.10	3.14E-03
ENSG00000240875	LINC00886	69.21	-0.23	3.15E-03
ENSG00000279619		14.62	-0.48	3.15E-03
ENSG00000196263	ZNF471	53.27	-0.25	3.16E-03
ENSG00000134827	TCN1	82.81	0.57	3.16E-03
ENSG00000237989	LINC01679	61.61	0.33	3.16E-03
ENSG00000113758	DBN1	506.86	0.30	3.16E-03
ENSG00000180917	CMTR2	974.88	0.19	3.16E-03
ENSG00000237596		14.91	1.01	3.16E-03
ENSG00000279283		196.45	-0.28	3.17E-03
ENSG00000197880	MDS2	64.33	-0.34	3.17E-03
ENSG00000231721	LINC-PINT	3654.32	-0.12	3.17E-03
ENSG00000257950	P2RX5-TAX1BP3	89.64	-0.26	3.20E-03
ENSG00000251072	LMNB1-DT	13.22	0.60	3.20E-03
ENSG00000213714	FAM209B	39.18	0.34	3.20E-03
ENSG00000175215	CTDSP2	6076.17	-0.10	3.21E-03
ENSG00000166704	ZNF606	599.37	-0.11	3.22E-03
ENSG00000222365	SNORD12B	111.09	-0.30	3.24E-03
ENSG00000069966	GNB5	1550.89	-0.12	3.25E-03
ENSG00000143553	SNAPIN	322.10	0.16	3.27E-03
ENSG00000141552	ANAPC11	495.43	0.17	3.27E-03
ENSG00000137814	HAUS2	492.65	0.10	3.28E-03
ENSG00000269069		126.82	-0.25	3.28E-03
ENSG00000123329	ARHGAP9	6430.33	-0.15	3.29E-03

ENSG00000159479	MED8	673.41	0.16	3.30E-03
ENSG00000164465	DCBLD1	199.06	0.18	3.30E-03
ENSG00000119772	DNMT3A	2523.02	-0.13	3.31E-03
ENSG00000143545	RAB13	348.82	0.36	3.32E-03
ENSG00000135625	EGR4	16.07	0.98	3.32E-03
ENSG00000182885	ADGRG3	5095.02	-0.34	3.33E-03
ENSG00000105355	PLIN3	1441.43	0.18	3.33E-03
ENSG00000158109	TPRG1L	1297.28	-0.12	3.34E-03
ENSG00000067606	PRKCZ	585.75	-0.16	3.34E-03
ENSG00000167085	PHB1	1161.43	0.20	3.34E-03
ENSG00000131149	GSE1	2078.37	-0.14	3.35E-03
ENSG0000013016	EHD3	325.21	-0.23	3.38E-03
ENSG00000136003	ISCU	2060.54	-0.15	3.39E-03
ENSG00000100387	RBX1	1075.36	0.17	3.40E-03
ENSG00000181938	GINS3	50.55	0.27	3.41E-03
ENSG00000115355	CCDC88A	2509.49	0.24	3.41E-03
ENSG00000276097		17.72	-0.49	3.41E-03
ENSG00000261026		469.48	0.69	3.41E-03
ENSG00000085063	CD59	1541.75	0.18	3.43E-03
ENSG00000235655	H3P6	1835.37	-0.19	3.44E-03
ENSG00000261226		113.28	-0.36	3.45E-03
ENSG00000197536	IRF1-AS1	3549.35	0.21	3.46E-03
ENSG00000156650	KAT6B	1471.98	-0.13	3.47E-03
ENSG00000084764	MAPRE3	99.91	-0.27	3.49E-03
ENSG00000214407	LINC02085	22.23	0.67	3.49E-03
ENSG00000004660	CAMKK1	838.21	-0.38	3.49E-03
ENSG00000143952	VPS54	805.51	0.11	3.53E-03
ENSG00000180104	EXOC3	2271.12	-0.10	3.54E-03
ENSG00000151445	VIPAS39	692.03	0.13	3.55E-03
ENSG00000259416	LINC02883	37.01	-0.38	3.55E-03
ENSG00000176490	DIRAS1	28.19	-0.38	3.58E-03
ENSG00000130787	HIP1R	2384.67	-0.15	3.61E-03
ENSG00000184992	BRI3BP	453.47	-0.19	3.64E-03
ENSG00000138018	SELENOI	848.54	0.11	3.64E-03
ENSG00000277476		481.79	-0.14	3.65E-03
ENSG00000176871	WSB2	1314.18	0.23	3.65E-03
ENSG00000117500	TMED5	3240.35	0.20	3.67E-03
ENSG00000198821	CD247	4142.16	0.10	3.68E-03
ENSG00000095002	MSH2	818.40	0.10	3.69E-03
ENSG00000244682	FCGR2C	1245.51	0.44	3.69E-03
ENSG00000138688	KIAA1109	8281.83	0.14	3.70E-03
ENSG00000165406	MARCHF8	5202.62	-0.35	3.73E-03
ENSG00000099326	MZF1	927.87	-0.11	3.73E-03
ENSG00000109920	FNBP4	3603.83	-0.07	3.73E-03
ENSG00000148400	NOTCH1	7406.82	-0.19	3.73E-03
ENSG00000167483	NIBAN3	883.65	-0.40	3.74E-03
ENSG00000101608	MYL12A	4965.67	0.16	3.74E-03
ENSG00000242861		171.18	-0.27	3.74E-03
ENSG00000256594		1893.87	-0.16	3.74E-03
ENSG00000211890	IGHA2	704.71	0.39	3.77E-03

ENSG00000180867	PDIA3P1	86.44	0.19	3.78E-03
ENSG00000189060	H1-0	907.76	0.54	3.81E-03
ENSG00000268615		8.25	-0.69	3.82E-03
ENSG00000115548	KDM3A	3250.67	-0.16	3.85E-03
ENSG00000170390	DCLK2	28.25	-0.42	3.85E-03
ENSG00000138231	DBR1	464.11	0.12	3.86E-03
ENSG00000182648	RNF32-DT	61.08	-0.22	3.87E-03
ENSG00000198786	MT-ND5	8985.11	-0.31	3.87E-03
ENSG00000116191	RALGPS2	1342.42	-0.28	3.87E-03
ENSG00000091129	NRCAM	142.28	-0.37	3.87E-03
ENSG00000261801	LOXL1-AS1	171.51	-0.19	3.91E-03
ENSG00000177156	TALDO1	4512.77	-0.18	3.91E-03
ENSG00000163513	TGFBR2	9934.45	-0.10	3.94E-03
ENSG00000100983	GSS	494.67	0.12	3.95E-03
ENSG00000177096	PHETA2	96.86	0.30	3.96E-03
ENSG00000183579	ZNRF3	56.45	-0.26	3.96E-03
ENSG00000167595	PROSER3	452.06	-0.16	3.96E-03
ENSG00000125877	ITPA	518.99	0.12	3.96E-03
ENSG00000196821	ILRUN	3332.04	0.14	3.96E-03
ENSG00000133318	RTN3	2854.89	-0.21	3.98E-03
ENSG00000149929	HIRIP3	144.69	0.20	3.99E-03
ENSG00000232869	TRBV29-1	111.91	-0.20	4.00E-03
ENSG00000175197	DDIT3	1315.76	0.22	4.01E-03
ENSG00000154889	MPPE1	1498.60	-0.20	4.02E-03
ENSG00000147383	NSDHL	188.73	0.22	4.02E-03
ENSG00000197037	ZSCAN25	1232.03	-0.08	4.03E-03
ENSG00000198417	MT1F	97.91	0.47	4.05E-03
ENSG00000239203		20.08	0.37	4.05E-03
ENSG00000107864	CPEB3	325.64	0.16	4.05E-03
ENSG00000116906	GNPAT	918.64	0.08	4.07E-03
ENSG00000237172	B3GNT9	127.35	-0.18	4.08E-03
ENSG00000067057	PFKP	1578.74	0.13	4.08E-03
ENSG00000240230	COX19	1110.73	-0.12	4.12E-03
ENSG00000047365	ARAP2	5020.76	0.15	4.13E-03
ENSG00000076513	ANKRD13A	4740.58	-0.17	4.13E-03
ENSG00000261416	CORO1A-AS1	93.35	-0.25	4.13E-03
ENSG00000036565	SLC18A1	10.76	-0.90	4.13E-03
ENSG00000174437	ATP2A2	3080.59	0.14	4.13E-03
ENSG00000260803		29.12	-0.32	4.14E-03
ENSG00000117560	FASLG	258.13	0.58	4.14E-03
ENSG00000181444	ZNF467	786.73	-0.39	4.15E-03
ENSG00000175216	CKAP5	1103.79	0.14	4.16E-03
ENSG00000188785	ZNF548	833.94	-0.10	4.18E-03
ENSG00000254858	MPV17L2	90.49	0.20	4.19E-03
ENSG00000183604	SMG1P5	824.06	-0.12	4.20E-03
ENSG00000120658	ENOX1	9.73	-0.81	4.20E-03
ENSG00000104529	EEF1D	10351.54	-0.11	4.21E-03
ENSG00000168016	TRANK1	9140.15	0.23	4.22E-03
ENSG00000272282	LINC02084	99.23	0.24	4.22E-03
ENSG00000237398	HLA-DPA3	11.87	0.88	4.23E-03

ENSG00000158156	XKR8	845.26	-0.28	4.26E-03
ENSG00000047621	C12orf4	564.55	0.16	4.28E-03
ENSG00000105173	CCNE1	40.06	0.29	4.29E-03
ENSG00000012779	ALOX5	4300.10	-0.29	4.30E-03
ENSG00000105707	HPN	127.68	0.93	4.33E-03
ENSG00000245904	BTG1-DT	247.17	-0.18	4.33E-03
ENSG00000164989	CCDC171	101.85	-0.19	4.34E-03
ENSG00000225313		11.06	-0.57	4.36E-03
ENSG00000132963	POMP	919.79	0.20	4.37E-03
ENSG00000259070	LINC00639	18.70	-0.56	4.37E-03
ENSG00000215388	ACTG1P3	118.68	-0.16	4.37E-03
ENSG00000105705	SUGP1	916.86	-0.09	4.37E-03
ENSG00000188895	MSL1	4605.62	-0.15	4.37E-03
ENSG00000257839	PHLDA1-DT	24.36	0.36	4.38E-03
ENSG00000278637	H4C1	126.87	0.36	4.38E-03
ENSG00000116977	LGALS8	2787.89	0.15	4.39E-03
ENSG00000165997	ARL5B	2741.71	0.22	4.40E-03
ENSG00000243566	UPK3B	119.01	-0.30	4.41E-03
ENSG00000134697	GNL2	879.05	0.14	4.41E-03
ENSG00000131462	TUBG1	170.92	0.22	4.42E-03
ENSG00000180304	OAZ2	2963.79	-0.22	4.42E-03
ENSG00000145244	CORIN	28.33	-0.52	4.42E-03
ENSG00000099840	IZUMO4	88.53	-0.24	4.43E-03
ENSG00000077721	UBE2A	1183.51	0.12	4.43E-03
ENSG00000115718	PROC	10.55	-0.71	4.43E-03
ENSG00000119535	CSF3R	29709.08	-0.54	4.43E-03
ENSG00000132591	ERAL1	347.60	0.12	4.43E-03
ENSG00000101986	ABCD1	704.92	0.19	4.43E-03
ENSG00000273783		39.07	-0.36	4.44E-03
ENSG00000176170	SPHK1	1004.01	0.51	4.46E-03
ENSG00000178718	RPP25	76.00	0.30	4.47E-03
ENSG00000228253	MT-ATP8	353.12	-0.33	4.49E-03
ENSG00000183978	COA3	280.27	0.17	4.49E-03
ENSG00000264456		176.21	0.37	4.49E-03
ENSG00000154222	CC2D1B	2095.16	0.08	4.49E-03
ENSG00000205903	ZNF316	3131.46	-0.25	4.51E-03
ENSG00000013810	TACC3	2811.68	-0.16	4.51E-03
ENSG00000153162	BMP6	128.63	-0.51	4.52E-03
ENSG00000105352	CEACAM4	552.39	-0.53	4.52E-03
ENSG00000198189	HSD17B11	2121.32	-0.14	4.53E-03
ENSG00000178074	C2orf69	466.98	0.12	4.53E-03
ENSG00000265195	MIR4312	125.11	-0.31	4.54E-03
ENSG00000118557	PMFBP1	45.04	0.34	4.54E-03
ENSG00000198393	ZNF26	1253.63	-0.08	4.55E-03
ENSG00000145882	PCYOX1L	828.03	-0.11	4.59E-03
ENSG00000213699	SLC35F6	1142.81	0.15	4.59E-03
ENSG00000004799	PDK4	638.92	-0.45	4.60E-03
ENSG00000211625	IGKV3D-20	17.30	0.75	4.61E-03
ENSG00000144648	ACKR2	59.97	-0.44	4.62E-03
ENSG00000135953	MFSD9	356.88	0.14	4.62E-03

ENSG00000100982	PCIF1	1739.68	-0.12	4.63E-03
ENSG00000135686	KLHL36	3679.85	-0.09	4.65E-03
ENSG00000198763	MT-ND2	6601.57	-0.30	4.65E-03
ENSG00000246596		474.87	-0.12	4.65E-03
ENSG00000143847	PPFIA4	55.62	-0.38	4.65E-03
ENSG00000138614	INTS14	544.67	0.11	4.65E-03
ENSG00000261150	EPPK1	521.30	-0.26	4.69E-03
ENSG00000147905	ZCCHC7	1576.55	-0.11	4.71E-03
ENSG00000138463	SLC49A4	832.64	-0.23	4.71E-03
ENSG00000211663	IGLV3-19	72.74	0.54	4.74E-03
ENSG00000148730	EIF4EBP2	3579.93	-0.10	4.78E-03
ENSG00000091140	DLD	1536.01	0.13	4.78E-03
ENSG00000273272		201.21	0.42	4.78E-03
ENSG00000184840	TMED9	1610.63	0.16	4.78E-03
ENSG00000234782	TPT1P9	17.77	-0.44	4.79E-03
ENSG00000253276	CCDC71L	1054.42	0.28	4.79E-03
ENSG00000129007	CALML4	40.74	0.31	4.83E-03
ENSG00000251149	MTND5P5	21.88	-0.45	4.83E-03
ENSG00000273361		29.79	-0.38	4.85E-03
ENSG00000133731	IMPA1	712.85	0.13	4.86E-03
ENSG00000224373	IGHV4-59	79.34	0.38	4.87E-03
ENSG00000168061	SAC3D1	98.62	0.23	4.87E-03
ENSG00000152749	GPR180	365.67	0.15	4.89E-03
ENSG00000099901	RANBP1	544.71	0.16	4.91E-03
ENSG00000147813	NAPRT	936.45	-0.19	4.92E-03
ENSG00000145337	PYURF	559.16	0.16	4.92E-03
ENSG00000198502	HLA-DRB5	1140.22	0.22	4.93E-03
ENSG00000250011	HMGB1P3	33.10	0.36	4.94E-03
ENSG00000162711	NLRP3	1542.77	0.29	4.94E-03
ENSG00000166734	GOLM2	2546.30	-0.11	4.95E-03
ENSG00000090266	NDUFB2	606.32	0.15	4.98E-03
ENSG00000197903	H2BC12	1592.09	0.24	5.01E-03
ENSG00000144935	TRPC1	170.78	-0.20	5.01E-03
ENSG00000267547		27.61	0.40	5.01E-03
ENSG00000267288		57.08	0.50	5.01E-03
ENSG00000196465	MYL6B	69.29	0.27	5.02E-03
ENSG00000169245	CXCL10	459.52	1.53	5.03E-03
ENSG00000152527	PLEKHH2	55.40	-0.39	5.04E-03
ENSG00000239480		16.86	-0.47	5.04E-03
ENSG00000241939	RN7SL517P	161.74	-0.23	5.04E-03
ENSG00000198522	GPN1	453.46	0.11	5.04E-03
ENSG00000102172	SMS	1157.97	0.17	5.05E-03
ENSG00000278969		31.32	0.64	5.05E-03
ENSG00000241868	RN7SL434P	34.63	-0.29	5.06E-03
ENSG00000232381	OR52U1P	34.03	0.40	5.07E-03
ENSG00000259673	IQCH-AS1	198.86	-0.16	5.07E-03
ENSG00000231991	ANXA2P2	16.48	0.43	5.07E-03
ENSG00000108424	KPNB1	6431.12	0.16	5.09E-03
ENSG00000068831	RASGRP2	6522.55	-0.15	5.13E-03
ENSG00000270882	H4C14	31.77	0.36	5.13E-03

ENSG00000268575		383.26	-0.13	5.14E-03
ENSG00000170802	FOXN2	2188.24	0.16	5.15E-03
ENSG00000163751	CPA3	143.72	-0.29	5.17E-03
ENSG00000142347	MYO1F	13757.12	-0.20	5.18E-03
ENSG00000128594	LRRC4	708.42	-0.46	5.19E-03
ENSG00000141699	RETREG3	2514.06	0.07	5.20E-03
ENSG00000248593	DSTNP2	64.98	0.21	5.21E-03
ENSG00000227920		296.35	-0.21	5.22E-03
ENSG00000231233	CFAP58-DT	277.49	0.41	5.22E-03
ENSG00000261270		107.53	-0.25	5.23E-03
ENSG00000161551	ZNF577	413.51	-0.11	5.24E-03
ENSG00000160410	SHKBP1	3686.35	-0.15	5.25E-03
ENSG00000162413	KLHL21	3590.59	-0.20	5.26E-03
ENSG00000182158	CREB3L2	1588.60	0.15	5.26E-03
ENSG00000175066	GK5	1310.21	0.15	5.26E-03
ENSG00000137168	PPIL1	225.13	0.31	5.26E-03
ENSG00000211955	IGHV3-33	116.84	0.34	5.26E-03
ENSG00000167740	CYB5D2	209.91	-0.17	5.26E-03
ENSG00000165629	ATP5F1C	1423.57	0.14	5.26E-03
ENSG00000126216	TUBGCP3	1261.02	-0.11	5.26E-03
ENSG00000151893	CACUL1	2761.88	-0.14	5.27E-03
ENSG00000171456	ASXL1	3192.38	-0.08	5.27E-03
ENSG00000216813		21.41	0.32	5.27E-03
ENSG00000073060	SCARB1	294.49	-0.35	5.30E-03
ENSG00000144724	PTPRG	13.49	-0.54	5.30E-03
ENSG00000221944	TIGD1	538.94	-0.23	5.33E-03
ENSG00000229023	RAB1AP1	164.29	0.45	5.33E-03
ENSG00000061936	SFSWAP	2406.36	-0.07	5.34E-03
ENSG00000169891	REPS2	958.64	-0.29	5.34E-03
ENSG00000198888	MT-ND1	7271.14	-0.34	5.34E-03
ENSG00000055163	CYFIP2	10311.76	-0.15	5.34E-03
ENSG00000011426	ANLN	116.95	0.37	5.34E-03
ENSG00000124713	GNMT	53.21	-0.28	5.37E-03
ENSG00000179094	PER1	2813.97	-0.39	5.39E-03
ENSG00000101447	FAM83D	56.73	0.28	5.39E-03
ENSG00000141425	RPRD1A	1038.78	-0.09	5.42E-03
ENSG00000124228	DDX27	1315.30	-0.10	5.44E-03
ENSG00000196954	CASP4	4458.50	0.19	5.45E-03
ENSG00000109107	ALDOC	257.19	-0.27	5.45E-03
ENSG00000168288	MMADHC	1667.04	0.10	5.47E-03
ENSG00000113712	CSNK1A1	4169.28	0.07	5.47E-03
ENSG00000130254	SAFB2	2591.90	-0.10	5.47E-03
ENSG00000136026	CKAP4	2093.18	0.34	5.47E-03
ENSG00000259097		23.32	-0.39	5.47E-03
ENSG00000137135	ARHGEF39	16.06	0.47	5.47E-03
ENSG00000029153	ARNTL2	150.82	0.39	5.48E-03
ENSG00000251230	MIR3945HG	733.60	0.59	5.49E-03
ENSG00000077984	CST7	1392.50	0.30	5.49E-03
ENSG00000067221	STOML1	242.92	0.19	5.51E-03
ENSG00000114573	ATP6V1A	2728.03	-0.20	5.52E-03

ENSG00000168918	INPP5D	8304.20	-0.14	5.52E-03
ENSG00000084676	NCOA1	3303.39	-0.15	5.54E-03
ENSG00000076258	FMO4	90.29	0.20	5.54E-03
ENSG00000162817	C1orf115	54.70	-0.30	5.54E-03
ENSG00000163931	TKT	5590.91	-0.26	5.61E-03
ENSG00000117054	ACADM	663.70	0.13	5.62E-03
ENSG00000279117		718.22	-0.22	5.62E-03
ENSG00000076984	MAP2K7	1608.08	-0.14	5.63E-03
ENSG00000128342	LIF	543.73	0.81	5.63E-03
ENSG00000047249	ATP6V1H	1133.74	0.14	5.64E-03
ENSG00000100897	DCAF11	2039.61	0.15	5.66E-03
ENSG00000163395	IGFN1	106.53	1.25	5.66E-03
ENSG00000158470	B4GALT5	4110.43	0.30	5.69E-03
ENSG00000074370	ATP2A3	8967.06	-0.13	5.69E-03
ENSG00000166340	TPP1	4164.51	0.22	5.70E-03
ENSG00000181218	H2AW	208.09	0.28	5.70E-03
ENSG00000266097	MIR5192	29.53	0.34	5.73E-03
ENSG00000152932	RAB3C	70.32	-0.77	5.73E-03
ENSG00000253408	IKBKB-DT	35.33	-0.51	5.73E-03
ENSG00000164051	CCDC51	120.70	0.21	5.73E-03
ENSG00000211664	IGLV2-18	8.15	1.02	5.74E-03
ENSG00000089639	GMIP	6226.01	-0.10	5.74E-03
ENSG00000126698	DNAJC8	1773.09	0.12	5.74E-03
ENSG00000117984	CTSD	6585.44	0.34	5.75E-03
ENSG00000241889		23.22	-0.48	5.75E-03
ENSG00000279394		150.61	-0.36	5.75E-03
ENSG00000105186	ANKRD27	1185.94	0.09	5.77E-03
ENSG00000248969		44.85	-0.32	5.80E-03
ENSG00000175395	ZNF25	367.77	0.13	5.81E-03
ENSG00000168350	DEGS2	19.41	-0.47	5.81E-03
ENSG00000254985	RSF1-IT2	81.73	-0.18	5.81E-03
ENSG00000134574	DDB2	724.40	0.17	5.81E-03
ENSG00000197976	AKAP17A	3578.54	-0.12	5.83E-03
ENSG00000030582	GRN	7432.29	0.29	5.83E-03
ENSG00000264112		693.90	-0.18	5.84E-03
ENSG00000270030	NA	51.65	0.71	5.85E-03
ENSG00000181826	RELL1	788.35	-0.26	5.88E-03
ENSG00000275379	H3C11	347.04	0.27	5.90E-03
ENSG00000104951	IL4I1	839.69	0.82	5.91E-03
ENSG00000100462	PRMT5	567.98	0.21	5.93E-03
ENSG00000175920	DOK7	17.28	-0.57	5.93E-03
ENSG00000224638	NA	42.06	-0.33	5.95E-03
ENSG00000174132	FAM174A	182.76	-0.21	5.96E-03
ENSG00000255050		12.44	-0.62	5.96E-03
ENSG00000260233	ZNRD2-DT	191.79	-0.19	5.96E-03
ENSG00000102349	KLF8	127.25	-0.34	5.96E-03
ENSG00000179082	LINC02913	139.61	-0.40	5.97E-03
ENSG00000277258	PCGF2	8.63	0.76	5.97E-03
ENSG00000012223	LTF	1078.62	0.38	5.97E-03
ENSG00000106305	AIMP2	256.86	0.24	6.00E-03

ENSG00000152127	MGAT5	3144.76	-0.16	6.01E-03
ENSG00000223820	CFL1P1	26.40	-0.31	6.01E-03
ENSG00000169826	CSGALNACT2	2736.48	0.15	6.03E-03
ENSG00000163156	SCNM1	655.86	0.12	6.03E-03
ENSG00000196132	MYT1	18.35	-0.59	6.03E-03
ENSG00000211513	MIR320E	44.46	0.30	6.03E-03
ENSG00000156564	LRFN2	41.20	0.45	6.03E-03
ENSG00000070367	EXOC5	1602.25	0.13	6.03E-03
ENSG00000065618	COL17A1	29.08	0.79	6.03E-03
ENSG00000082641	NFE2L1	2143.41	0.17	6.10E-03
ENSG00000135334	AKIRIN2	2107.86	0.15	6.12E-03
ENSG00000134375	TIMM17A	709.81	0.18	6.13E-03
ENSG00000091972	CD200	197.21	-0.23	6.13E-03
ENSG00000119906	SLF2	1559.62	0.10	6.14E-03
ENSG00000070476	ZXDC	2545.24	-0.11	6.18E-03
ENSG00000135678	CPM	641.89	0.31	6.18E-03
ENSG00000137441	FGFBP2	1001.33	0.30	6.20E-03
ENSG00000066827	ZFAT	775.92	-0.12	6.21E-03
ENSG00000067225	PKM	11683.39	0.22	6.21E-03
ENSG00000284194	SCO2	11.03	0.86	6.21E-03
ENSG00000204345	CD300LD	9.54	-0.83	6.25E-03
ENSG00000136044	APPL2	1704.02	-0.14	6.25E-03
ENSG00000227145	IL21-AS1	18.80	0.77	6.26E-03
ENSG00000123095	BHLHE41	60.29	-0.45	6.26E-03
ENSG00000152291	TGOLN2	9779.85	-0.08	6.27E-03
ENSG00000187260	WDR86	65.32	-0.35	6.27E-03
ENSG00000284154	MIR3605	45.47	-0.38	6.27E-03
ENSG00000136448	NMT1	2031.79	0.13	6.27E-03
ENSG00000254639		22.48	0.50	6.31E-03
ENSG00000079215	SLC1A3	209.70	0.67	6.33E-03
ENSG00000189223	PAX8-AS1	1261.80	0.10	6.34E-03
ENSG00000169258	GPRIN1	37.11	0.30	6.34E-03
ENSG00000280037		128.93	-0.20	6.34E-03
ENSG00000198960	ARMCX6	283.13	0.16	6.35E-03
ENSG00000196428	TSC22D2	2922.99	-0.10	6.37E-03
ENSG00000209042	SNORD12C	57.00	-0.35	6.37E-03
ENSG00000106052	TAX1BP1	4476.94	-0.10	6.38E-03
ENSG00000171766	GATM	75.95	-0.20	6.38E-03
ENSG00000105993	DNAJB6	4854.07	-0.10	6.38E-03
ENSG00000196209	SIRPB2	1335.08	-0.48	6.39E-03
ENSG00000100154	TTC28	107.89	-0.27	6.40E-03
ENSG00000107796	ACTA2	149.50	0.23	6.41E-03
ENSG00000260977	NA	29.63	-0.32	6.42E-03
ENSG00000179299	NSUN7	176.62	-0.36	6.42E-03
ENSG00000136738	STAM	889.05	-0.10	6.43E-03
ENSG00000164654	MIOS	1027.89	0.11	6.44E-03
ENSG00000173818	ENDOV	346.80	-0.15	6.44E-03
ENSG00000111802	TDP2	2686.12	0.20	6.45E-03
ENSG00000246731		73.31	0.33	6.48E-03
ENSG00000114948	ADAM23	165.88	-0.21	6.49E-03

ENSG00000111319	SCNN1A	24.43	-0.36	6.49E-03
ENSG00000268743		45.04	-0.28	6.50E-03
ENSG00000184047	DIABLO	431.26	-0.20	6.50E-03
ENSG00000204103	MAFB	7514.17	0.57	6.52E-03
ENSG00000121964	GTDC1	918.96	-0.10	6.52E-03
ENSG00000171522	PTGER4	5015.55	0.17	6.53E-03
ENSG00000182809	CRIP2	127.70	-0.44	6.55E-03
ENSG00000005469	CROT	249.41	0.12	6.56E-03
ENSG00000150045	KLRF1	451.14	0.34	6.59E-03
ENSG00000162521	RBBP4	3431.61	0.06	6.59E-03
ENSG00000128159	TUBGCP6	3762.11	-0.10	6.66E-03
ENSG00000198899	MT-ATP6	8156.98	-0.30	6.66E-03
ENSG00000103051	COG4	1134.78	0.09	6.66E-03
ENSG00000163600	ICOS	686.92	0.19	6.68E-03
ENSG00000173145	NOC3L	609.85	0.20	6.68E-03
ENSG00000119203	CPSF3	429.30	0.11	6.74E-03
ENSG00000272333	KMT2B	3052.87	-0.14	6.76E-03
ENSG00000115539	PDCL3	214.33	0.20	6.78E-03
ENSG00000177103	DSCAML1	32.10	-0.41	6.78E-03
ENSG00000204580	DDR1	264.65	-0.21	6.80E-03
ENSG00000105402	NAPA	3205.83	0.21	6.82E-03
ENSG00000100714	MTHFD1	498.48	0.16	6.82E-03
ENSG00000077585	GPR137B	709.41	0.26	6.82E-03
ENSG00000110987	BCL7A	284.93	-0.17	6.83E-03
ENSG00000151726	ACSL1	20408.03	0.34	6.84E-03
ENSG00000237352	LINC01358	87.14	0.43	6.84E-03
ENSG00000263883	EEF1DP7	96.97	-0.24	6.85E-03
ENSG00000133639	BTG1	20575.80	-0.12	6.86E-03
ENSG00000189339	SLC35E2B	3263.33	-0.09	6.87E-03
ENSG00000054967	RELT	4452.77	-0.19	6.87E-03
ENSG00000105948	TTC26	58.11	0.44	6.87E-03
ENSG00000168405	CMAHP	807.57	0.14	6.88E-03
ENSG00000155850	SLC26A2	816.86	0.17	6.91E-03
ENSG00000068697	LAPTM4A	2083.41	0.15	6.92E-03
ENSG00000213445	SIPA1	7424.65	-0.14	6.92E-03
ENSG00000102218	RP2	1553.56	0.16	6.92E-03
ENSG00000187024	PTRH1	164.96	0.20	6.92E-03
ENSG00000145335	SNCA	7568.34	-0.59	6.92E-03
ENSG00000094880	CDC23	452.93	0.11	6.93E-03
ENSG00000136040	PLXNC1	9323.22	-0.25	6.93E-03
ENSG00000184060	ADAP2	1129.14	0.53	6.93E-03
ENSG00000246859	STARD4-AS1	21.58	-0.43	6.94E-03
ENSG00000174004	NRROS	719.76	0.16	6.94E-03
ENSG00000177943	MAMDC4	162.72	0.22	6.96E-03
ENSG00000084090	STARD7	2370.15	0.09	6.96E-03
ENSG00000095383	TBC1D2	2169.64	0.29	6.99E-03
ENSG00000184371	CSF1	2175.58	0.35	7.01E-03
ENSG00000137502	RAB30	1328.46	-0.15	7.02E-03
ENSG00000173020	GRK2	11850.85	-0.07	7.02E-03
ENSG00000224660	SH3BP5-AS1	1357.02	-0.12	7.06E-03

ENSG00000167995	BEST1	2718.83	-0.26	7.08E-03
ENSG00000011523	CEP68	1289.15	-0.14	7.14E-03
ENSG00000106829	TLE4	3042.32	0.11	7.18E-03
ENSG00000062598	ELMO2	1809.50	0.10	7.18E-03
ENSG00000169607	CKAP2L	117.09	0.55	7.19E-03
ENSG00000135094	SDS	733.90	0.97	7.21E-03
ENSG00000103569	AQP9	24283.28	0.33	7.21E-03
ENSG00000137161	CNPY3	2501.31	-0.14	7.22E-03
ENSG00000100207	TCF20	3231.23	-0.10	7.28E-03
ENSG00000082146	STRADB	5362.07	-0.51	7.28E-03
ENSG00000108557	RAI1	1488.32	-0.11	7.28E-03
ENSG00000166228	PCBD1	165.59	0.25	7.28E-03
ENSG00000137500	CCDC90B	965.24	0.12	7.29E-03
ENSG00000133401	PDZD2	41.35	-0.37	7.30E-03
ENSG00000257336	PRELID2P1	10.59	0.77	7.32E-03
ENSG00000144401	METTL21A	432.12	-0.11	7.33E-03
ENSG00000113303	BTNL8	383.23	-0.47	7.35E-03
ENSG00000162144	CYB561A3	2223.90	-0.17	7.37E-03
ENSG00000239213	NCK1-DT	95.63	0.18	7.38E-03
ENSG00000152332	UHMK1	5392.57	0.09	7.38E-03
ENSG00000065320	NTN1	22.54	0.59	7.39E-03
ENSG00000230397	SPTLC1P1	96.68	-0.26	7.40E-03
ENSG00000253716	MINCR	81.57	-0.22	7.40E-03
ENSG00000134755	DSC2	375.01	-0.52	7.40E-03
ENSG00000166897	ELFN2	26.70	-0.39	7.41E-03
ENSG00000258824		72.22	-0.21	7.41E-03
ENSG00000223356		75.38	-0.20	7.41E-03
ENSG00000130997	POLN	127.04	0.19	7.43E-03
ENSG00000240505	TNFRSF13B	107.83	-0.28	7.45E-03
ENSG00000214067		58.16	-0.32	7.46E-03
ENSG00000106714	CNTNAP3	163.10	-0.88	7.50E-03
ENSG00000189127	ANKRD34B	17.90	-0.84	7.52E-03
ENSG00000230709		9.72	-0.60	7.55E-03
ENSG00000121486	TRMT1L	996.96	0.18	7.61E-03
ENSG00000146859	TMEM140	3945.48	0.25	7.64E-03
ENSG00000123600	METTL8	660.36	-0.11	7.64E-03
ENSG00000168395	ING5	1095.59	-0.12	7.65E-03
ENSG00000113555	PCDH12	51.78	0.83	7.65E-03
ENSG00000138092	CENPO	210.63	0.15	7.66E-03
ENSG00000134255	CEPT1	1658.84	0.20	7.68E-03
ENSG00000163251	FZD5	147.35	0.25	7.69E-03
ENSG00000253831	ETV3L	19.69	1.21	7.69E-03
ENSG00000168894	RNF181	553.35	0.15	7.70E-03
ENSG00000134121	CHL1	21.92	-0.37	7.70E-03
ENSG00000164821	DEFA4	57.87	0.58	7.73E-03
ENSG00000026025	VIM	20597.06	0.25	7.74E-03
ENSG00000135414	GDF11	442.45	-0.11	7.76E-03
ENSG00000150093	ITGB1	7245.51	0.17	7.80E-03
ENSG00000100600	LGMN	1506.23	0.67	7.81E-03
ENSG00000230989	HSBP1	1394.50	0.19	7.81E-03

ENSG00000164251	F2RL1	268.77	-0.30	7.81E-03
ENSG00000054179	ENTPD2	6.62	-1.28	7.81E-03
ENSG00000088682	COQ9	449.32	0.12	7.85E-03
ENSG00000108352	RAPGEFL1	198.76	-0.18	7.94E-03
ENSG00000134901	POGLUT2	17.56	0.45	7.96E-03
ENSG00000235426		11.20	-0.80	8.01E-03
ENSG00000056050	HPF1	165.82	0.18	8.02E-03
ENSG00000235314	LINC00957	200.06	-0.21	8.03E-03
ENSG00000254786		22.15	-0.39	8.06E-03
ENSG00000229106	BTBD6P1	99.19	-0.25	8.07E-03
ENSG00000177570	SAMD12	215.51	-0.15	8.18E-03
ENSG00000189079	ARID2	2926.77	-0.12	8.18E-03
ENSG00000197586	ENTPD6	1509.02	0.10	8.20E-03
ENSG00000138641	HERC3	2965.23	-0.12	8.22E-03
ENSG00000152133	GPATCH11	404.45	-0.16	8.25E-03
ENSG00000189350	TOGARAM2	398.71	0.24	8.28E-03
ENSG00000236008	LINC01814	30.56	-0.37	8.29E-03
ENSG00000171101	SIGLEC17P	47.40	-0.49	8.30E-03
ENSG00000128524	ATP6V1F	1759.40	0.22	8.32E-03
ENSG00000028528	SNX1	3574.56	0.06	8.35E-03
ENSG00000177917	ARL6IP6	567.54	0.13	8.36E-03
ENSG00000126860	EVI2A	2448.61	0.23	8.36E-03
ENSG00000109103	UNC119	2738.84	-0.28	8.38E-03
ENSG00000219085	NPM1P37	128.75	-0.18	8.46E-03
ENSG00000136827	TOR1A	1268.94	0.19	8.46E-03
ENSG00000139629	GALNT6	788.50	0.24	8.49E-03
ENSG00000211976	IGHV3-73	24.64	0.65	8.53E-03
ENSG00000263766	KPNB1-DT	126.78	0.29	8.53E-03
ENSG00000185222	TCEAL9	38.84	0.44	8.55E-03
ENSG00000065989	PDE4A	927.15	0.20	8.62E-03
ENSG00000135205	CCDC146	392.09	0.15	8.64E-03
ENSG00000122958	VPS26A	1196.34	0.14	8.65E-03
ENSG00000181722	ZBTB20	2961.45	-0.13	8.65E-03
ENSG00000108946	PRKAR1A	5751.29	-0.12	8.65E-03
ENSG00000139055	ERP27	469.64	-0.16	8.67E-03
ENSG00000100697	DICER1	4057.52	-0.13	8.67E-03
ENSG00000156869	FRRS1	80.65	0.30	8.67E-03
ENSG00000197467	COL13A1	728.07	-1.00	8.67E-03
ENSG00000166224	SGPL1	1814.33	0.15	8.68E-03
ENSG00000078804	TP53INP2	866.06	-0.29	8.74E-03
ENSG00000188483	IER5L	325.26	-0.30	8.74E-03
ENSG00000271155		44.05	-0.26	8.76E-03
ENSG00000142552	RCN3	364.62	-0.39	8.77E-03
ENSG00000083093	PALB2	379.00	0.16	8.77E-03
ENSG00000156113	KCNMA1	51.72	0.51	8.84E-03
ENSG00000156042	CFAP70	258.66	-0.26	8.86E-03
ENSG00000277443	MARCKS	15288.81	0.54	8.89E-03
ENSG00000065883	CDK13	3518.10	-0.07	8.92E-03
ENSG00000127666	TICAM1	1016.40	0.29	8.93E-03
ENSG00000211829	TRDC	482.67	0.26	8.98E-03

ENSG00000229808		123.62	-0.15	8.98E-03
ENSG00000184752	NDUFA12	474.37	0.17	8.99E-03
ENSG00000260943	LINC02555	79.90	0.77	9.00E-03
ENSG00000165678	GHITM	2875.47	-0.10	9.01E-03
ENSG00000099203	TMED1	260.51	0.19	9.05E-03
ENSG00000164253	WDR41	600.10	0.10	9.05E-03
ENSG00000058799	YIPF1	466.64	0.18	9.07E-03
ENSG00000136108	CKAP2	534.53	0.15	9.09E-03
ENSG00000126861	OMG	57.98	-0.28	9.10E-03
ENSG00000182606	TRAK1	2229.87	-0.11	9.10E-03
ENSG00000262370		258.48	-0.45	9.10E-03
ENSG00000158869	FCER1G	3649.34	0.29	9.11E-03
ENSG00000138172	CALHM2	839.22	0.29	9.11E-03
ENSG00000163719	MTMR14	3326.15	-0.11	9.13E-03
ENSG00000171291	ZNF439	531.51	-0.11	9.13E-03
ENSG00000166797	CIAO2A	630.80	0.16	9.15E-03
ENSG00000109814	UGDH	402.63	0.13	9.16E-03
ENSG00000179627	ZBTB42	334.90	0.15	9.16E-03
ENSG00000237438	CECR7	103.20	-0.18	9.16E-03
ENSG00000158352	SHROOM4	20.69	-0.65	9.19E-03
ENSG00000131165	CHMP1A	2085.16	0.12	9.21E-03
ENSG00000213079	SCAF8	2533.96	-0.08	9.23E-03
ENSG00000160741	CRTC2	2357.75	-0.12	9.24E-03
ENSG00000273245		112.41	-0.21	9.24E-03
ENSG00000162461	SLC25A34	120.75	0.23	9.24E-03
ENSG00000129473	BCL2L2	219.05	0.14	9.26E-03
ENSG00000187951		217.61	0.15	9.26E-03
ENSG00000166889	PATL1	2567.34	0.17	9.28E-03
ENSG00000238201		53.93	-0.48	9.32E-03
ENSG00000146592	CREB5	1550.10	-0.41	9.32E-03
ENSG00000169371	SNUPN	243.52	0.13	9.33E-03
ENSG00000154928	EPHB1	1068.07	-0.39	9.34E-03
ENSG00000065268	WDR18	432.69	0.14	9.35E-03
ENSG00000229587		40.85	-0.24	9.35E-03
ENSG00000122971	ACADS	288.27	0.15	9.37E-03
ENSG00000171428	NAT1	218.34	0.26	9.39E-03
ENSG00000198894	CIPC	491.44	-0.12	9.40E-03
ENSG00000109790	KLHL5	1741.60	-0.23	9.48E-03
ENSG00000196917	HCAR1	114.60	-0.83	9.48E-03
ENSG00000133131	MORC4	199.74	-0.14	9.50E-03
ENSG00000264357	MIR4648	22.07	-0.35	9.52E-03
ENSG00000213203	GIMAP1	1757.87	0.12	9.52E-03
ENSG00000110497	AMBRA1	1823.58	0.11	9.53E-03
ENSG00000263264	NA	1457.49	-0.19	9.53E-03
ENSG00000256356	HSPA8P5	26.51	0.45	9.55E-03
ENSG00000162913	OBSCN-AS1	83.86	-0.28	9.60E-03
ENSG00000081014	AP4E1	739.60	0.09	9.61E-03
ENSG00000132716	DCAF8	2488.68	-0.06	9.61E-03
ENSG00000171680	PLEKHG5	131.90	-0.25	9.65E-03
ENSG00000154518	ATP5MC3	914.06	0.13	9.70E-03

ENSG00000076108	BAZ2A	5747.12	-0.14	9.72E-03
ENSG00000197147	LRRC8B	843.92	-0.13	9.75E-03
ENSG00000125977	EIF2S2	1294.96	0.15	9.75E-03
ENSG00000158859	ADAMTS4	31.79	0.31	9.75E-03
ENSG00000114779	ABHD14B	758.21	-0.13	9.75E-03
ENSG00000172663	TMEM134	678.25	-0.11	9.75E-03
ENSG00000163431	LMOD1	9.48	-0.95	9.75E-03
ENSG00000235321		15.08	0.55	9.75E-03
ENSG00000010404	IDS	4315.70	-0.13	9.81E-03
ENSG00000089006	SNX5	2092.25	0.14	9.84E-03
ENSG00000140545	MFGE8	585.52	-0.14	9.84E-03
ENSG00000158186	MRAS	543.95	0.40	9.85E-03
ENSG00000072042	RDH11	794.16	0.11	9.89E-03
ENSG00000136715	SAP130	807.16	-0.16	9.89E-03
ENSG00000196187	TMEM63A	6173.17	-0.10	9.90E-03
ENSG00000184903	IMMP2L	282.26	-0.17	9.90E-03
ENSG00000177465	ACOT4	28.41	0.34	9.92E-03
ENSG00000166676	TVP23A	32.79	-0.49	9.95E-03
ENSG00000140307	GTF2A2	623.59	0.13	9.97E-03
ENSG00000119121	TRPM6	355.80	-0.50	9.97E-03
ENSG00000125870	SNRPB2	617.93	0.14	9.97E-03
ENSG00000178573	MAF	2214.05	0.17	9.98E-03
ENSG00000242028	HYPK	513.36	-0.14	9.98E-03
ENSG00000258572		13.74	0.47	1.00E-02
ENSG00000241839	PLEKHO2	6575.47	0.35	1.00E-02
ENSG00000143337	TOR1AIP1	2309.48	0.10	1.00E-02
ENSG00000167553	TUBA1C	1253.59	0.33	1.00E-02
ENSG00000177889	UBE2N	1565.22	0.13	1.01E-02
ENSG00000224597	SVIL-AS1	359.10	0.15	1.01E-02
ENSG00000134698	AGO4	2658.23	-0.12	1.01E-02
ENSG00000162236	STX5	1383.83	-0.10	1.01E-02
ENSG00000134278	SPIRE1	210.66	0.27	1.02E-02
ENSG00000136379	ABHD17C	167.78	0.31	1.02E-02
ENSG00000119912	IDE	764.90	0.09	1.03E-02
ENSG00000112146	FBXO9	1819.27	-0.18	1.03E-02
ENSG00000273604	EPOP	98.02	0.40	1.03E-02
ENSG00000123975	CKS2	111.07	0.36	1.03E-02
ENSG00000140365	COMMD4	476.80	0.18	1.03E-02
ENSG00000197956	S100A6	4058.21	0.27	1.03E-02
ENSG00000100764	PSMC1	1006.07	0.11	1.04E-02
ENSG00000000460	C1orf112	296.51	0.13	1.04E-02
ENSG00000204482	LST1	2019.61	-0.26	1.04E-02
ENSG00000114013	CD86	864.72	0.28	1.04E-02
ENSG00000085185	BCORL1	452.46	-0.19	1.04E-02
ENSG00000268713		106.96	-0.18	1.04E-02
ENSG00000187555	USP7	3962.11	-0.10	1.05E-02
ENSG00000050344	NFE2L3	279.03	0.26	1.05E-02
ENSG00000105366	SIGLEC8	142.00	0.35	1.05E-02
ENSG00000084110	HAL	667.46	-0.47	1.05E-02
ENSG00000140092	FBLN5	154.70	0.37	1.05E-02

ENSG00000271734	NA	44.40	0.33	1.05E-02
ENSG00000183690	EFHC2	71.07	-0.55	1.05E-02
ENSG00000196074	SYCP2	248.45	-0.19	1.05E-02
ENSG00000196415	PRTN3	13.84	0.84	1.05E-02
ENSG00000106723	SPIN1	1039.24	0.09	1.05E-02
ENSG00000132541	RIDA	84.77	0.21	1.06E-02
ENSG00000126226	PCID2	1573.76	0.15	1.06E-02
ENSG00000170448	NFXL1	675.11	-0.23	1.06E-02
ENSG00000102763	VWA8	1045.11	-0.12	1.06E-02
ENSG00000166887	VPS39	2385.77	0.08	1.07E-02
ENSG00000248333	CDK11B	927.23	-0.16	1.07E-02
ENSG00000089048	ESF1	374.31	0.21	1.07E-02
ENSG00000196968	FUT11	842.97	0.10	1.07E-02
ENSG00000128268	MGAT3	92.00	-0.25	1.07E-02
ENSG00000250900	TRIM7-AS1	16.80	-0.35	1.08E-02
ENSG00000125871	MGME1	482.01	0.13	1.08E-02
ENSG00000163492	CCDC141	397.37	-0.20	1.08E-02
ENSG00000101182	PSMA7	2507.44	0.15	1.08E-02
ENSG00000119042	SATB2	43.02	0.36	1.08E-02
ENSG00000055917	PUM2	6068.27	-0.08	1.08E-02
ENSG00000141279	NPEPPS	2487.66	-0.08	1.08E-02
ENSG00000166313	APBB1	1321.59	-0.13	1.08E-02
ENSG00000232855		77.42	0.28	1.09E-02
ENSG00000136634	IL10	131.57	0.59	1.09E-02
ENSG00000100441	KHNYN	5218.77	-0.08	1.09E-02
ENSG00000230825	LINC03016	60.97	0.28	1.10E-02
ENSG00000146826	TRAPPC14	1487.11	-0.13	1.10E-02
ENSG00000176593		652.06	-0.12	1.10E-02
ENSG00000125538	IL1B	41833.50	0.76	1.10E-02
ENSG00000133477	FAM83F	45.13	-0.31	1.11E-02
ENSG00000267766		19.41	-0.40	1.11E-02
ENSG00000181804	SLC9A9	418.49	0.20	1.11E-02
ENSG00000111727	HCFC2	550.89	0.11	1.11E-02
ENSG00000129292	PHF20L1	4402.65	-0.12	1.11E-02
ENSG00000207550	MIR99B	45.33	-0.53	1.11E-02
ENSG00000136205	TNS3	1342.05	0.30	1.11E-02
ENSG00000140932	CMTM2	564.74	-0.43	1.11E-02
ENSG00000153944	MSI2	2925.13	-0.13	1.11E-02
ENSG00000230751		69.40	-0.25	1.12E-02
ENSG00000123992	DNPEP	917.11	0.11	1.12E-02
ENSG00000172301	COPRS	108.33	0.21	1.12E-02
ENSG00000102753	KPNA3	1146.84	0.11	1.12E-02
ENSG00000197746	PSAP	40565.69	0.25	1.12E-02
ENSG00000180815	MAP3K15	9.91	-0.77	1.12E-02
ENSG00000132824	SERINC3	3266.33	-0.10	1.12E-02
ENSG00000196782	MAML3	636.41	-0.21	1.13E-02
ENSG00000004961	HCCS	347.03	0.19	1.13E-02
ENSG00000013306	SLC25A39	16344.61	-0.45	1.13E-02
ENSG00000214975	PPIAP29	22.00	0.36	1.13E-02
ENSG00000054611	TBC1D22A	2931.35	-0.14	1.14E-02

ENSG00000155966	AFF2	599.26	-0.23	1.14E-02
ENSG00000252206	RNU7-40P	27.00	0.44	1.14E-02
ENSG00000150401	DCUN1D2	442.97	-0.09	1.14E-02
ENSG00000065485	PDIA5	142.95	0.20	1.14E-02
ENSG00000221265	MIR1255A	19.54	-0.35	1.15E-02
ENSG00000106397	PLOD3	605.22	0.20	1.15E-02
ENSG00000242324		40.44	-0.38	1.15E-02
ENSG00000221957	KIR2DS4	64.77	0.39	1.16E-02
ENSG00000162434	JAK1	12759.84	-0.10	1.16E-02
ENSG00000140287	HDC	612.53	-0.21	1.16E-02
ENSG00000105610	KLF1	293.25	-0.51	1.16E-02
ENSG00000130695	CEP85	548.24	0.10	1.16E-02
ENSG00000085449	WDFY1	2146.82	0.16	1.17E-02
ENSG00000133624	ZNF767P	1325.03	-0.08	1.17E-02
ENSG00000161920	MED11	361.02	-0.15	1.17E-02
ENSG00000175348	TMEM9B	841.94	0.11	1.18E-02
ENSG00000151611	MMAA	228.40	0.13	1.18E-02
ENSG00000186625	KATNA1	378.06	0.10	1.18E-02
ENSG00000228835		48.91	-0.29	1.18E-02
ENSG00000160392	C19orf47	360.88	0.09	1.18E-02
ENSG00000231964		25.87	-0.35	1.18E-02
ENSG00000146070	PLA2G7	1334.91	0.48	1.18E-02
ENSG00000134686	PHC2	3733.74	-0.19	1.18E-02
ENSG00000184613	NELL2	2849.61	-0.14	1.18E-02
ENSG00000150477	KIAA1328	390.75	-0.14	1.18E-02
ENSG00000107949	BCCIP	695.48	0.15	1.18E-02
ENSG00000169019	COMMD8	412.73	0.17	1.19E-02
ENSG00000277053	GTF2IP1	135.63	-0.17	1.19E-02
ENSG00000134982	APC	2427.12	-0.09	1.19E-02
ENSG00000149970	CNKSR2	214.55	-0.15	1.19E-02
ENSG00000220205	VAMP2	1589.54	-0.17	1.19E-02
ENSG00000134531	EMP1	962.62	0.69	1.20E-02
ENSG00000049130	KITLG	82.70	0.76	1.20E-02
ENSG00000166128	RAB8B	6263.04	0.22	1.20E-02
ENSG00000139318	DUSP6	5826.19	0.42	1.21E-02
ENSG00000159023	EPB41	17966.51	-0.27	1.22E-02
ENSG00000248671		46.33	-0.24	1.22E-02
ENSG00000187994	RINL	862.29	0.09	1.22E-02
ENSG00000275846		51.48	-0.27	1.22E-02
ENSG00000152518	ZFP36L2	15445.01	-0.16	1.22E-02
ENSG00000144802	NFKBIZ	9542.05	0.21	1.22E-02
ENSG00000139726	DENR	911.69	0.11	1.22E-02
ENSG00000277301		123.15	-0.25	1.22E-02
ENSG00000129535	NRL	95.42	0.17	1.22E-02
ENSG00000269473	ZNF132-DT	27.85	-0.26	1.22E-02
ENSG00000166295	ANAPC16	2977.73	-0.08	1.23E-02
ENSG00000134245	WNT2B	52.49	-0.24	1.23E-02
ENSG00000279766		65.21	-0.24	1.23E-02
ENSG00000225450		122.16	0.28	1.23E-02
ENSG00000110917	MLEC	2067.11	0.18	1.23E-02

ENSG00000184182	UBE2F	533.38	0.10	1.23E-02
ENSG00000248098	BCKDHA	36.02	-0.26	1.24E-02
ENSG00000105738	SIPA1L3	2108.62	-0.12	1.24E-02
ENSG00000114857	NKTR	6264.98	-0.12	1.24E-02
ENSG00000008869	HEATR5B	1779.49	0.12	1.24E-02
ENSG00000132128	LRRC41	1326.59	0.09	1.24E-02
ENSG00000182308	DCAF4L1	45.28	-0.24	1.24E-02
ENSG00000228403		71.27	-0.34	1.24E-02
ENSG00000213197	NUDCP1	9.48	0.75	1.25E-02
ENSG00000225630	MTND2P28	46.57	-0.32	1.25E-02
ENSG00000196549	MME	1910.87	-0.54	1.25E-02
ENSG00000163864	NMNAT3	100.83	-0.19	1.25E-02
ENSG00000171202	TMEM126A	232.90	0.18	1.25E-02
ENSG00000272914		85.67	0.33	1.25E-02
ENSG00000149656		27.76	-0.28	1.25E-02
ENSG00000233429	HOTAIRM1	253.83	-0.26	1.25E-02
ENSG00000103591	AAGAB	958.19	0.14	1.25E-02
ENSG00000225914	TSBP1-AS1	17.96	-0.38	1.26E-02
ENSG00000211652	IGLV7-43	22.73	0.65	1.26E-02
ENSG00000109118	PHF12	4056.39	-0.09	1.26E-02
ENSG00000239672	NME1	251.60	0.40	1.26E-02
ENSG00000114796	KLHL24	3342.45	-0.11	1.26E-02
ENSG00000134001	EIF2S1	1361.33	0.24	1.26E-02
ENSG00000112796	ENPP5	92.12	0.24	1.27E-02
ENSG00000162407	PLPP3	1308.37	0.83	1.27E-02
ENSG00000099866	MADCAM1	27.76	-0.34	1.27E-02
ENSG00000228839	PIK3IP1-DT	140.38	-0.22	1.27E-02
ENSG00000213149	CNN2P9	26.17	-0.31	1.27E-02
ENSG00000186063	AIDA	1650.17	0.12	1.28E-02
ENSG00000179144	GIMAP7	2573.47	0.24	1.28E-02
ENSG00000102678	FGF9	68.98	-0.28	1.28E-02
ENSG00000161835	TAMALIN	879.42	-0.28	1.28E-02
ENSG00000275894		36.12	0.39	1.28E-02
ENSG00000126016	AMOT	75.18	-0.24	1.28E-02
ENSG00000269653		39.97	-0.27	1.28E-02
ENSG00000278896		70.73	-0.25	1.28E-02
ENSG00000141002	TCF25	3614.94	-0.11	1.29E-02
ENSG00000026751	SLAMF7	8371.01	0.41	1.29E-02
ENSG00000213719	CLIC1	8555.25	0.23	1.29E-02
ENSG00000156127	BATF	518.82	0.22	1.29E-02
ENSG00000011243	AKAP8L	1872.90	-0.10	1.29E-02
ENSG00000277589		53.44	-0.23	1.29E-02
ENSG00000167173	C15orf39	8497.82	-0.21	1.30E-02
ENSG00000108312	UBTF	2884.10	-0.08	1.30E-02
ENSG00000111358	GTF2H3	426.97	0.11	1.30E-02
ENSG00000155629	PIK3AP1	11496.52	0.30	1.30E-02
ENSG00000172732	MUS81	1123.31	0.09	1.30E-02
ENSG00000166377	ATP9B	2842.02	-0.07	1.30E-02
ENSG00000240038	AMY2B	433.83	-0.17	1.30E-02
ENSG00000174306	ZHX3	350.62	-0.18	1.31E-02

ENSG00000137842	TMEM62	564.13	0.21	1.31E-02
ENSG00000063241	ISOC2	146.53	0.21	1.31E-02
ENSG00000261898		25.20	-0.50	1.32E-02
ENSG00000213742	ZNF337-AS1	153.38	-0.13	1.32E-02
ENSG00000150687	PRSS23	227.46	0.42	1.32E-02
ENSG00000141391	PRELID3A	19.78	0.39	1.32E-02
ENSG00000174885	NLRP6	936.39	-0.33	1.32E-02
ENSG00000138821	SLC39A8	7554.14	0.86	1.33E-02
ENSG00000174307	PHLDA3	16.94	0.42	1.33E-02
ENSG00000258872	FDPSP3	111.54	0.38	1.33E-02
ENSG00000110719	TCIRG1	9341.08	-0.17	1.34E-02
ENSG00000283399		161.22	-0.48	1.34E-02
ENSG00000257803	PIGAP1	24.76	0.57	1.34E-02
ENSG00000125826	RBCK1	2905.47	0.15	1.34E-02
ENSG00000145555	MYO10	132.81	0.63	1.34E-02
ENSG00000229344	MTCO2P12	24.90	-0.37	1.34E-02
ENSG00000224029		13.64	-0.49	1.34E-02
ENSG00000132640	BTBD3	159.53	0.24	1.34E-02
ENSG00000100461	RBM23	3015.79	-0.08	1.34E-02
ENSG00000280205		114.45	-0.31	1.34E-02
ENSG00000205056	LINC02397	394.65	-0.36	1.34E-02
ENSG00000198356	GET3	770.36	0.13	1.34E-02
ENSG00000241217	RN7SL809P	55.67	-0.21	1.35E-02
ENSG00000138111	MFSD13A	358.69	0.19	1.35E-02
ENSG00000118705	RPN2	2338.22	0.11	1.35E-02
ENSG00000161277	THAP8	74.44	0.22	1.36E-02
ENSG00000280332		173.26	-0.21	1.36E-02
ENSG00000272909		72.69	-0.23	1.36E-02
ENSG00000273253	TRABD-AS1	228.91	-0.22	1.36E-02
ENSG00000078043	PIAS2	1362.29	-0.09	1.37E-02
ENSG00000263072	ZNF213-AS1	595.01	-0.11	1.37E-02
ENSG00000186918	ZNF395	840.26	-0.15	1.37E-02
ENSG00000228140	EFHD2-AS1	103.40	0.26	1.38E-02
ENSG00000225101	OR52K3P	259.90	0.46	1.38E-02
ENSG00000127527	EPS15L1	2224.88	-0.17	1.38E-02
ENSG00000147684	NDUFB9	869.14	0.12	1.38E-02
ENSG00000226380	NA	2722.72	-0.17	1.38E-02
ENSG00000204839	MROH6	175.10	-0.29	1.38E-02
ENSG00000142920	AZIN2	131.07	-0.18	1.39E-02
ENSG00000197024	ZNF398	991.70	-0.08	1.39E-02
ENSG00000260948		67.58	-0.30	1.39E-02
ENSG00000086619	ERO1B	708.07	-0.11	1.39E-02
ENSG00000211825	TRDJ1	43.03	0.33	1.39E-02
ENSG00000152443	ZNF776	1059.72	-0.11	1.39E-02
ENSG00000122042	UBL3	2320.29	-0.10	1.39E-02
ENSG00000101367	MAPRE1	3056.99	0.12	1.39E-02
ENSG00000159885	ZNF222	142.92	0.21	1.40E-02
ENSG00000075142	SRI	1004.29	0.11	1.40E-02
ENSG00000234518	PTGES3P1	286.09	0.28	1.40E-02
ENSG00000213923	CSNK1E	1022.27	-0.10	1.40E-02

ENSG00000166484	MAPK7	549.59	0.17	1.40E-02
ENSG00000185033	SEMA4B	1657.51	-0.17	1.40E-02
ENSG00000197747	S100A10	1934.44	0.22	1.41E-02
ENSG00000279913		151.77	0.30	1.41E-02
ENSG00000117400	MPL	16.29	-0.66	1.41E-02
ENSG00000236056	GAPDHP14	35.81	0.42	1.41E-02
ENSG00000182742	HOXB4	129.55	0.19	1.42E-02
ENSG00000146802	TMEM168	1165.92	-0.08	1.42E-02
ENSG00000272967		14.09	0.69	1.43E-02
ENSG00000179023	KLHDC7A	14.41	-0.57	1.44E-02
ENSG00000166592	RRAD	45.75	0.61	1.44E-02
ENSG00000188732	FAM221A	150.25	0.14	1.44E-02
ENSG00000143344	RGL1	1686.18	0.77	1.45E-02
ENSG00000225032		446.79	-0.16	1.46E-02
ENSG00000184898	RBM43	450.75	0.17	1.46E-02
ENSG00000113597	TRAPPC13	487.17	0.12	1.46E-02
ENSG00000050628	PTGER3	28.06	-0.49	1.47E-02
ENSG00000235072	ARNILA	73.92	-0.29	1.47E-02
ENSG00000103064	SLC7A6	2913.26	-0.09	1.48E-02
ENSG00000141504	SAT2	428.58	0.14	1.48E-02
ENSG00000151575	TEX9	185.75	-0.33	1.49E-02
ENSG00000267034	NA	204.66	0.97	1.49E-02
ENSG00000167460	TPM4	5187.02	0.19	1.49E-02
ENSG00000082269	FAM135A	620.60	-0.13	1.49E-02
ENSG00000231856		161.12	-0.25	1.49E-02
ENSG00000254415	SIGLEC14	2208.08	0.41	1.49E-02
ENSG00000105520	PLPPR2	927.39	-0.23	1.49E-02
ENSG00000159685	CHCHD6	131.20	-0.16	1.49E-02
ENSG00000148842	CNNM2	708.29	-0.14	1.49E-02
ENSG00000276241		40.78	0.37	1.49E-02
ENSG00000141971	MVB12A	462.05	0.11	1.49E-02
ENSG00000085365	SCAMP1	768.03	0.10	1.49E-02
ENSG00000073712	FERMT2	69.39	0.64	1.49E-02
ENSG00000157881	PANK4	1474.76	-0.11	1.50E-02
ENSG00000135519	KCNH3	103.94	-0.34	1.50E-02
ENSG00000129226	CD68	29.24	0.37	1.50E-02
ENSG00000082512	TRAF5	1997.80	-0.10	1.50E-02
ENSG00000197324	LRP10	9297.81	-0.11	1.50E-02
ENSG00000077044	DGKD	4357.97	-0.11	1.50E-02
ENSG00000213762	ZNF134	877.66	-0.10	1.51E-02
ENSG00000115946	PNO1	299.41	0.20	1.51E-02
ENSG00000257489		99.76	-0.18	1.51E-02
ENSG00000155657	TTN	3083.40	-0.24	1.51E-02
ENSG00000279355	NA	336.88	0.26	1.51E-02
ENSG00000150403	TMCO3	1220.89	-0.14	1.52E-02
ENSG00000125818	PSMF1	4805.48	-0.28	1.52E-02
ENSG00000162775	RBM15	1907.61	-0.08	1.53E-02
ENSG00000138835	RGS3	1256.30	0.19	1.53E-02
ENSG00000130529	TRPM4	62.47	0.42	1.53E-02
ENSG00000100902	PSMA6	589.10	0.14	1.53E-02

ENSG00000227374		53.96	-0.25	1.53E-02
ENSG00000234457		13.15	-0.42	1.53E-02
ENSG00000101104	PABPC1L	766.21	-0.11	1.53E-02
ENSG00000161640	SIGLEC11	58.39	0.53	1.53E-02
ENSG00000236618	PITPNA-AS1	48.72	-0.21	1.53E-02
ENSG00000239282	CASTOR1	64.92	-0.23	1.53E-02
ENSG00000121316	PLBD1	763.97	-0.56	1.54E-02
ENSG00000129932	DOHH	197.65	0.24	1.54E-02
ENSG00000143951	WDPCP	343.64	-0.13	1.54E-02
ENSG00000173918	C1QTNF1	122.50	1.15	1.54E-02
ENSG00000012822	CALCOCO1	2623.42	-0.11	1.54E-02
ENSG00000268889	LIM2-AS1	40.93	0.32	1.54E-02
ENSG00000148290	SURF1	660.67	-0.11	1.54E-02
ENSG00000179431	FJX1	15.06	0.78	1.54E-02
ENSG00000252908	RNU6-1003P	35.37	-0.41	1.54E-02
ENSG00000104859	CLASRP	1343.18	-0.19	1.55E-02
ENSG00000110002	VWA5A	301.91	0.17	1.55E-02
ENSG00000138606	SHF	161.33	-0.14	1.55E-02
ENSG00000266256	LINC00683	6.47	-0.82	1.55E-02
ENSG00000136758	YME1L1	4153.99	0.06	1.55E-02
ENSG00000284526		115.13	-0.28	1.56E-02
ENSG00000278058		14.45	0.36	1.56E-02
ENSG00000188725	SMIM15	659.02	0.19	1.56E-02
ENSG00000262979		21.39	0.45	1.56E-02
ENSG00000197771	MCMBP	2071.58	0.12	1.57E-02
ENSG00000081791	DELE1	1788.17	-0.06	1.57E-02
ENSG00000139970	RTN1	260.85	-0.32	1.58E-02
ENSG00000167633	KIR3DL1	78.70	0.31	1.58E-02
ENSG00000116117	PARD3B	29.46	-0.33	1.58E-02
ENSG00000168785	TSPAN5	1336.45	-0.34	1.58E-02
ENSG00000255112	CHMP1B	2653.34	-0.13	1.58E-02
ENSG00000162433	AK4	537.04	0.75	1.58E-02
ENSG00000140543	DET1	302.42	-0.13	1.58E-02
ENSG00000175792	RUVBL1	671.36	0.19	1.58E-02
ENSG00000064419	TNPO3	1777.73	0.08	1.58E-02
ENSG00000270069	MIR222HG	552.57	0.42	1.59E-02
ENSG00000086061	DNAJA1	3250.14	0.20	1.59E-02
ENSG00000240053	LY6G5B	167.67	-0.17	1.59E-02
ENSG00000227591	HSD11B1-AS1	52.15	-0.34	1.60E-02
ENSG00000112763	BTN2A1	2664.92	0.16	1.60E-02
ENSG00000280604		56.13	-0.36	1.60E-02
ENSG00000204584		253.57	-0.16	1.60E-02
ENSG00000225880	LINC00115	146.60	-0.14	1.61E-02
ENSG00000081913	PHLPP1	591.95	-0.14	1.61E-02
ENSG00000210117	MT-TW	313.90	-0.31	1.61E-02
ENSG00000144893	MED12L	145.06	-0.31	1.62E-02
ENSG00000171840	NINJ2	395.39	-0.31	1.63E-02
ENSG00000101307	SIRPB1	1751.92	-0.32	1.63E-02
ENSG00000118515	SGK1	6989.06	0.23	1.64E-02
ENSG00000100030	MAPK1	5039.08	-0.09	1.64E-02

ENSG00000269800	PLEKHA3P1	33.25	-0.26	1.64E-02
ENSG00000172053	QARS1	1781.60	-0.14	1.65E-02
ENSG00000181690	PLAG1	349.17	-0.12	1.65E-02
ENSG00000144580	CNOT9	1616.24	0.07	1.65E-02
ENSG00000213398	LCAT	120.93	-0.18	1.65E-02
ENSG00000185201	IFITM2	8213.73	0.22	1.65E-02
ENSG00000023318	ERP44	1718.00	0.12	1.65E-02
ENSG00000273472		33.46	-0.29	1.65E-02
ENSG00000276791		303.43	-0.17	1.65E-02
ENSG00000251381	LINC00958	10.71	-0.80	1.65E-02
ENSG00000240143		204.32	0.18	1.65E-02
ENSG00000101265	RASSF2	12299.26	-0.18	1.65E-02
ENSG00000127837	AAMP	920.56	0.09	1.66E-02
ENSG00000113552	GNPDA1	956.39	0.25	1.66E-02
ENSG00000064115	TM7SF3	633.26	0.09	1.66E-02
ENSG00000105855	ITGB8	2952.56	0.59	1.66E-02
ENSG00000224177	LINC00570	59.04	-0.59	1.67E-02
ENSG00000181097	LINC02878	83.09	-0.17	1.67E-02
ENSG00000118308	IRAG2	1842.62	-0.19	1.67E-02
ENSG00000140153	WDR20	1281.75	-0.08	1.68E-02
ENSG00000132463	GRSF1	1512.65	0.09	1.68E-02
ENSG00000105926	PALS2	1106.32	-0.16	1.68E-02
ENSG00000272449		611.84	-0.30	1.68E-02
ENSG00000138785	INTS12	365.46	0.12	1.69E-02
ENSG00000009790	TRAF3IP3	6094.83	0.12	1.69E-02
ENSG00000140265	ZSCAN29	1022.43	0.08	1.69E-02
ENSG00000077684	JADE1	1911.76	-0.13	1.69E-02
ENSG00000167377	ZNF23	128.02	-0.15	1.69E-02
ENSG00000116649	SRM	570.20	0.22	1.69E-02
ENSG00000106772	PRUNE2	37.06	0.53	1.69E-02
ENSG00000238227	TMEM250	1054.96	0.14	1.69E-02
ENSG00000273419		22.28	-0.32	1.69E-02
ENSG00000145649	GZMA	530.51	0.38	1.69E-02
ENSG00000102081	FMR1	2622.45	0.10	1.69E-02
ENSG00000263648		39.47	-0.26	1.70E-02
ENSG00000275183	LENG9	163.87	0.22	1.70E-02
ENSG00000168970	JMJD7-PLA2G4B	719.11	-0.13	1.70E-02
ENSG00000107738	VSIR	12016.68	-0.27	1.70E-02
ENSG00000074416	MGLL	2532.07	0.41	1.70E-02
ENSG00000196739	COL27A1	40.75	-0.27	1.70E-02
ENSG00000187764	SEMA4D	11680.79	-0.14	1.71E-02
ENSG00000205352	PRR13	2397.40	0.10	1.71E-02
ENSG00000113407	TARS1	1084.41	0.17	1.71E-02
ENSG00000140367	UBE2Q2	1117.78	0.09	1.71E-02
ENSG00000283602		89.51	0.38	1.71E-02
ENSG00000198478	SH3BGRL2	403.77	-0.39	1.71E-02
ENSG00000136521	NDUFB5	606.89	0.10	1.71E-02
ENSG00000281649	EBLN3P	2187.93	-0.10	1.71E-02
ENSG00000175730	BAK1P1	28.57	-0.30	1.71E-02
ENSG00000196998	WDR45	1601.15	-0.16	1.72E-02

ENSG00000274576	IGHV2-70	12.53	0.58	1.72E-02
ENSG00000228192	ZNF691-DT	49.26	0.39	1.72E-02
ENSG00000267221	C17orf113	34.22	-0.32	1.72E-02
ENSG00000267312		146.66	0.23	1.72E-02
ENSG00000142798	HSPG2	158.54	-0.24	1.72E-02
ENSG00000258297	NA	301.10	-0.24	1.72E-02
ENSG00000279207		285.85	-0.12	1.72E-02
ENSG00000273141		75.84	-0.33	1.72E-02
ENSG00000116957	NA	264.65	0.10	1.72E-02
ENSG00000157483	MYO1E	690.89	0.29	1.72E-02
ENSG00000092208	GEMIN2	157.92	0.15	1.72E-02
ENSG00000267090		24.76	-0.32	1.73E-02
ENSG00000271858		167.35	-0.17	1.73E-02
ENSG00000239857	GET4	317.80	-0.18	1.73E-02
ENSG00000235313	HM13-IT1	166.83	-0.15	1.73E-02
ENSG00000170873	MTSS1	2210.51	0.18	1.73E-02
ENSG00000138722	MMRN1	108.54	-0.42	1.73E-02
ENSG00000230839	NA	88.37	-0.37	1.73E-02
ENSG00000249661	TNRC18P1	114.63	-0.36	1.73E-02
ENSG00000080561	MID2	176.65	-0.13	1.73E-02
ENSG00000162636	FAM102B	1024.71	0.19	1.74E-02
ENSG00000105507	CABP5	13.68	-0.72	1.74E-02
ENSG00000139546	TARBP2	325.31	0.11	1.74E-02
ENSG00000108819	PPP1R9B	4482.94	-0.14	1.75E-02
ENSG00000074695	LMAN1	1582.47	0.12	1.75E-02
ENSG00000249476		403.31	-0.15	1.75E-02
ENSG00000106686	SPATA6L	98.97	-0.20	1.75E-02
ENSG00000230149		126.41	0.26	1.75E-02
ENSG00000105708	ZNF14	643.93	-0.15	1.76E-02
ENSG00000143612	C1orf43	2695.82	0.15	1.76E-02
ENSG00000197299	BLM	333.22	0.15	1.76E-02
ENSG00000169228	RAB24	611.93	0.25	1.77E-02
ENSG00000130309	COLGALT1	2669.74	0.14	1.77E-02
ENSG00000103966	EHD4	1594.48	0.26	1.77E-02
ENSG00000259151	CAP2P1	94.87	-0.26	1.77E-02
ENSG00000069849	ATP1B3	1367.89	0.23	1.77E-02
ENSG00000180871	CXCR2	4259.63	-0.44	1.78E-02
ENSG00000273076		42.78	0.26	1.78E-02
ENSG00000175782	SLC35E3	868.71	-0.18	1.78E-02
ENSG00000185219	ZNF445	2790.50	-0.11	1.78E-02
ENSG00000110218	PANX1	444.92	0.18	1.78E-02
ENSG00000163734	CXCL3	4851.84	0.87	1.79E-02
ENSG00000204634	TBC1D8	982.79	0.24	1.79E-02
ENSG00000255422		38.60	0.35	1.79E-02
ENSG00000123737	EXOSC9	620.96	0.12	1.80E-02
ENSG00000238105	GOLGA2P5	749.04	-0.14	1.80E-02
ENSG00000042445	RETSAT	509.81	0.10	1.81E-02
ENSG00000166946	CCNDBP1	2768.66	-0.11	1.81E-02
ENSG00000280407		427.78	0.35	1.81E-02
ENSG00000006125	AP2B1	4683.95	0.10	1.81E-02

ENSG00000260859		18.51	-0.47	1.81E-02
ENSG00000253893	FAM85B	31.54	-0.41	1.82E-02
ENSG00000146904	EPHA1	328.07	-0.22	1.82E-02
ENSG00000203872	C6orf163	179.04	-0.14	1.82E-02
ENSG00000168874	ATOH8	133.38	-0.67	1.82E-02
ENSG00000081870	HSPB11	391.77	0.10	1.82E-02
ENSG00000256628	ZBTB11-AS1	303.06	-0.11	1.82E-02
ENSG00000099992	TBC1D10A	1219.40	-0.10	1.82E-02
ENSG00000180061	TMEM150B	221.34	0.30	1.83E-02
ENSG00000196510	ANAPC7	783.20	0.10	1.83E-02
ENSG00000100162	CENPM	92.41	0.23	1.83E-02
ENSG00000133226	SRRM1	3281.73	-0.09	1.83E-02
ENSG00000091844	RGS17	9.75	0.56	1.84E-02
ENSG00000167083	GNGT2	181.49	0.18	1.84E-02
ENSG00000278431		30.24	-0.35	1.84E-02
ENSG00000130706	ADRM1	1469.95	0.13	1.84E-02
ENSG00000214595	EML6	149.86	-0.23	1.84E-02
ENSG00000152240	HAUS1	346.10	0.12	1.84E-02
ENSG00000136504	KAT7	3490.27	-0.15	1.84E-02
ENSG00000141404	GNAL	110.03	0.28	1.85E-02
ENSG00000153029	MR1	2154.27	0.21	1.86E-02
ENSG00000250182	EEF1A1P13	68.69	-0.34	1.86E-02
ENSG00000124103	FAM209A	106.60	0.18	1.86E-02
ENSG00000105662	CRTC1	905.58	-0.16	1.86E-02
ENSG00000168884	TNIP2	2039.58	0.14	1.86E-02
ENSG00000236609	ZNF853	267.25	-0.15	1.87E-02
ENSG00000253491	IGHVII-30-1	7.51	-0.73	1.87E-02
ENSG00000125772	GPCPD1	6554.64	-0.14	1.88E-02
ENSG00000237576	LINC01888	56.60	-0.32	1.88E-02
ENSG00000087842	PIR	19.68	0.58	1.88E-02
ENSG00000134049	IER3IP1	288.86	0.15	1.88E-02
ENSG00000166349	RAG1	28.89	0.27	1.88E-02
ENSG00000269482		29.61	-0.29	1.88E-02
ENSG00000156853	ZNF689	413.66	0.10	1.88E-02
ENSG00000130052	STARD8	459.60	0.40	1.88E-02
ENSG00000153879	CEBPG	853.48	0.09	1.88E-02
ENSG00000075790	BCAP29	637.39	0.10	1.88E-02
ENSG00000281358	RASSF1-AS1	47.78	-0.30	1.88E-02
ENSG00000109685	NSD2	1822.69	0.07	1.89E-02
ENSG00000151623	NR3C2	991.50	-0.16	1.89E-02
ENSG00000171747	LGALS4	54.72	-0.21	1.89E-02
ENSG00000100122	CRYBB1	8.20	0.69	1.89E-02
ENSG00000197530	MIB2	1116.29	-0.14	1.89E-02
ENSG00000159882	ZNF230	564.55	0.22	1.89E-02
ENSG00000169223	LMAN2	2468.61	0.10	1.90E-02
ENSG00000171097	KYAT1	227.35	-0.15	1.90E-02
ENSG00000101346	POFUT1	724.62	0.12	1.90E-02
ENSG00000157933	SKI	3976.30	-0.25	1.90E-02
ENSG00000164048	ZNF589	908.54	-0.10	1.90E-02
ENSG00000102699	PARP4	3999.64	0.09	1.90E-02

ENSG00000261114		74.97	-0.22	1.90E-02
ENSG00000110852	CLEC2B	2115.84	0.18	1.91E-02
ENSG00000101191	DIDO1	5324.87	-0.05	1.91E-02
ENSG00000101596	SMCHD1	22062.32	0.15	1.91E-02
ENSG00000150753	CCT5	2789.10	0.22	1.91E-02
ENSG00000151725	CENPU	110.21	0.27	1.91E-02
ENSG00000176248	ANAPC2	1592.39	-0.11	1.91E-02
ENSG00000122085	MTERF4	3158.90	-0.09	1.92E-02
ENSG00000123684	LPGAT1	2985.59	-0.11	1.92E-02
ENSG00000185986	SDHAP3	325.81	-0.10	1.92E-02
ENSG00000100060	MFNG	2978.27	-0.12	1.93E-02
ENSG00000105323	HNRNPUL1	6779.27	-0.08	1.94E-02
ENSG00000152439	ZNF773	292.59	-0.13	1.94E-02
ENSG00000149289	ZC3H12C	1090.20	0.49	1.94E-02
ENSG00000273112		64.69	-0.34	1.94E-02
ENSG00000145423	SFRP2	35.36	-0.65	1.94E-02
ENSG00000226711	FAM66C	146.98	-0.17	1.94E-02
ENSG00000107960	STN1	543.42	-0.21	1.95E-02
ENSG00000114446	IFT57	500.33	-0.15	1.95E-02
ENSG00000168517	HEXIM2	84.14	0.23	1.96E-02
ENSG00000252242	RNU7-115P	23.96	-0.32	1.97E-02
ENSG00000110777	POU2AF1	934.79	-0.18	1.97E-02
ENSG00000095564	BTAF1	3623.03	-0.07	1.97E-02
ENSG00000136143	SUCLA2	499.67	0.10	1.97E-02
ENSG00000170540	ARL6IP1	2190.13	0.14	1.97E-02
ENSG00000189190	ZNF600	724.11	0.13	1.98E-02
ENSG00000163468	CCT3	2228.80	0.18	1.98E-02
ENSG00000204160	ZDHHC18	6357.30	-0.20	1.98E-02
ENSG00000241549	GUSBP2	189.27	-0.13	1.98E-02
ENSG00000101216	GMEB2	1135.05	-0.09	1.98E-02
ENSG00000145545	SRD5A1	314.45	0.12	1.99E-02
ENSG00000183621	ZNF438	1488.07	0.27	1.99E-02
ENSG00000211637	IGLV4-69	16.64	0.66	1.99E-02
ENSG00000139117	CPNE8	281.19	0.23	2.00E-02
ENSG00000258092		16.82	-0.31	2.00E-02
ENSG00000145907	G3BP1	4444.31	0.10	2.00E-02
ENSG00000047346	FAM214A	3176.01	-0.13	2.00E-02
ENSG00000115129	TP53I3	84.42	0.30	2.00E-02
ENSG00000172716	SLFN11	1456.48	0.19	2.00E-02
ENSG00000172159	FRMD3	187.72	0.33	2.00E-02
ENSG00000179820	MYADM	3228.55	-0.22	2.00E-02
ENSG00000238243	OR2W3	369.18	-0.49	2.00E-02
ENSG00000031691	CENPQ	110.19	0.21	2.01E-02
ENSG00000256553	TRAV1-2	65.49	0.18	2.02E-02
ENSG00000242574	HLA-DMB	1126.44	-0.28	2.02E-02
ENSG00000213468	FIRRE	73.79	0.26	2.03E-02
ENSG00000106400	ZNHIT1	990.90	0.10	2.03E-02
ENSG00000180385	EMC3-AS1	247.51	-0.14	2.03E-02
ENSG00000169554	ZEB2	13385.01	0.22	2.04E-02
ENSG00000245812	LINC02202	13.63	-0.43	2.04E-02

ENSG00000143409	MINDY1	794.18	-0.16	2.05E-02
ENSG00000100345	MYH9	23976.14	-0.17	2.05E-02
ENSG00000270419	CAHM	77.79	-0.19	2.05E-02
ENSG00000126254	RBM42	915.12	0.09	2.05E-02
ENSG00000121644	DESI2	859.05	0.09	2.05E-02
ENSG00000128050	PAICS	851.71	0.21	2.06E-02
ENSG00000275832	ARHGAP23	31.83	0.39	2.06E-02
ENSG00000112249	ASCC3	2228.71	0.11	2.06E-02
ENSG00000253958	CLDN23	43.84	0.42	2.06E-02
ENSG00000182578	CSF1R	3104.86	0.36	2.06E-02
ENSG00000163121	NEURL3	50.31	0.70	2.06E-02
ENSG00000138780	GSTCD	171.54	0.12	2.06E-02
ENSG00000117543	DPH5	537.13	-0.11	2.06E-02
ENSG00000258101		95.62	-0.48	2.06E-02
ENSG00000151006	PRSS53	122.42	-0.17	2.06E-02
ENSG00000270154		18.74	-0.39	2.06E-02
ENSG00000249825	THBS4-AS1	217.26	-0.18	2.06E-02
ENSG00000166928	MS4A14	382.25	0.34	2.07E-02
ENSG00000129993	CBFA2T3	548.46	-0.26	2.07E-02
ENSG00000138375	SMARCAL1	722.16	0.11	2.07E-02
ENSG00000070087	PFN2	129.52	-0.22	2.07E-02
ENSG00000186416	NKRF	437.13	0.11	2.07E-02
ENSG00000169762	TAPT1	1256.94	-0.09	2.08E-02
ENSG00000118855	MFSD1	2367.09	0.17	2.08E-02
ENSG00000172965	MIR4435-2HG	762.20	0.18	2.08E-02
ENSG00000002745	WNT16	10.20	-0.46	2.08E-02
ENSG00000105677	TMEM147	409.40	0.14	2.08E-02
ENSG00000169813	HNRNPF	5353.71	0.12	2.08E-02
ENSG00000205300		8.46	1.12	2.08E-02
ENSG00000110651	CD81	2485.61	0.12	2.09E-02
ENSG00000179057	IGSF22	30.24	-0.32	2.09E-02
ENSG00000111845	PAK1IP1	245.34	0.19	2.09E-02
ENSG00000160255	ITGB2	13360.48	-0.21	2.09E-02
ENSG00000108010	GLRX3	1079.95	0.12	2.09E-02
ENSG00000088826	SMOX	362.25	-0.41	2.09E-02
ENSG00000171155	C1GALT1C1	350.41	0.14	2.10E-02
ENSG00000160226	CFAP410	750.41	-0.13	2.11E-02
ENSG00000272106		170.25	-0.24	2.11E-02
ENSG00000179889	PDXDC1	1966.83	0.07	2.12E-02
ENSG00000263857	MIR4729	26.02	-0.28	2.12E-02
ENSG00000170502	NUDT9	291.40	0.18	2.12E-02
ENSG00000122043	LINC00544	60.13	-0.27	2.12E-02
ENSG00000226950	DANCR	320.24	-0.12	2.12E-02
ENSG00000166685	COG1	974.93	-0.11	2.12E-02
ENSG00000233355	CHRM3-AS2	371.85	-0.32	2.12E-02
ENSG00000115507	OTX1	7.62	-0.81	2.12E-02
ENSG00000100485	SOS2	2864.46	-0.10	2.12E-02
ENSG00000059377	TBXAS1	2693.04	-0.29	2.13E-02
ENSG00000141258	SGSM2	2280.26	-0.10	2.13E-02
ENSG00000154736	ADAMTS5	6.93	-1.55	2.13E-02

ENSG00000122641	INHBA	2080.91	0.64	2.13E-02
ENSG00000105656	ELL	3484.06	-0.16	2.13E-02
ENSG00000261061		25.82	0.37	2.13E-02
ENSG00000058056	USP13	321.67	-0.12	2.13E-02
ENSG00000183666	GUSBP1	338.03	-0.09	2.13E-02
ENSG00000111664	GNB3	15.96	-0.44	2.13E-02
ENSG00000270659		14.85	-0.38	2.14E-02
ENSG00000167863	ATP5PD	920.42	0.11	2.14E-02
ENSG00000124574	ABCC10	1388.26	0.09	2.14E-02
ENSG00000105011	ASF1B	133.00	-0.25	2.15E-02
ENSG00000151366	NDUFC2	292.00	0.12	2.15E-02
ENSG00000174851	YIF1A	507.73	0.17	2.15E-02
ENSG00000168916	ZNF608	78.01	-0.28	2.15E-02
ENSG00000140553	UNC45A	1194.45	0.10	2.15E-02
ENSG00000085511	MAP3K4	1587.16	-0.09	2.15E-02
ENSG00000271959		48.41	-0.44	2.15E-02
ENSG00000053254	FOXN3	3569.46	-0.16	2.16E-02
ENSG00000114026	OGG1	792.92	-0.08	2.16E-02
ENSG00000270012		362.67	-0.12	2.16E-02
ENSG00000196363	WDR5	671.47	0.09	2.16E-02
ENSG00000121671	CRY2	1367.99	-0.11	2.16E-02
ENSG00000062725	APPBP2	1416.82	0.09	2.16E-02
ENSG00000173890	GPR160	528.85	-0.23	2.16E-02
ENSG00000116489	CAPZA1	10551.84	0.16	2.16E-02
ENSG00000151923	TIAL1	2552.55	-0.06	2.16E-02
ENSG00000106479	ZNF862	1678.49	-0.09	2.16E-02
ENSG00000180098	TRNAU1AP	536.66	0.08	2.16E-02
ENSG00000187231	SESTD1	952.67	0.17	2.16E-02
ENSG00000143416	SELENBP1	1436.18	-0.51	2.16E-02
ENSG00000107341	UBE2R2	2352.83	-0.09	2.16E-02
ENSG00000099622	CIRBP	5522.47	-0.11	2.16E-02
ENSG00000104695	PPP2CB	684.04	0.20	2.17E-02
ENSG00000155463	OXA1L	2003.49	-0.11	2.17E-02
ENSG00000166479	TMX3	1777.23	0.10	2.17E-02
ENSG00000272933	TRIM8-DT	106.72	-0.19	2.17E-02
ENSG00000185803	SLC52A2	489.95	0.17	2.17E-02
ENSG00000109756	RAPGEF2	2904.17	-0.16	2.18E-02
ENSG00000178966	RMI1	262.45	0.16	2.18E-02
ENSG00000267009		179.43	-0.20	2.18E-02
ENSG00000126756	UXT	826.70	-0.13	2.19E-02
ENSG00000272316		268.82	-0.13	2.19E-02
ENSG00000169136	ATF5	747.10	0.52	2.19E-02
ENSG00000176945	MUC20	98.76	-0.26	2.19E-02
ENSG00000167232	ZNF91	1764.44	-0.10	2.20E-02
ENSG00000211694	TRGV10	118.47	0.20	2.22E-02
ENSG00000211934	IGHV1-2	81.81	0.35	2.22E-02
ENSG00000105171	POP4	607.53	0.09	2.22E-02
ENSG00000104765	BNIP3L	17262.52	-0.44	2.22E-02
ENSG00000259956	RBM15B	2128.02	-0.08	2.23E-02
ENSG0000008516	MMP25	4157.29	-0.40	2.23E-02

ENSG00000184208	C22orf46	388.16	0.13	2.24E-02
ENSG00000257156	NA	13.65	-0.47	2.24E-02
ENSG00000229474	PATL2	1191.07	0.19	2.25E-02
ENSG00000188676	IDO2	56.67	-0.49	2.25E-02
ENSG00000156970	BUB1B	58.22	0.32	2.25E-02
ENSG00000260350		46.52	-0.22	2.25E-02
ENSG00000196126	HLA-DRB1	4452.88	0.16	2.25E-02
ENSG00000248719	PRDM8-AS1	20.85	-0.36	2.25E-02
ENSG00000005187	ACSM3	498.09	-0.31	2.25E-02
ENSG00000196935	SRGAP1	136.58	0.41	2.25E-02
ENSG00000143554	SLC27A3	532.00	0.21	2.25E-02
ENSG00000266412	NCOA4	11867.07	-0.21	2.25E-02
ENSG00000147454	SLC25A37	26332.80	-0.27	2.26E-02
ENSG00000277687		151.72	-0.28	2.26E-02
ENSG00000283646	LINC02009	71.31	0.45	2.26E-02
ENSG00000005339	CREBBP	6878.55	-0.12	2.26E-02
ENSG00000206651		116.97	-0.21	2.26E-02
ENSG00000113615	SEC24A	1233.60	0.13	2.27E-02
ENSG00000136856	SLC2A8	131.42	0.20	2.27E-02
ENSG00000008128	CDK11A	225.12	-0.19	2.27E-02
ENSG00000276494		23.02	-0.33	2.27E-02
ENSG00000275367		34.41	-0.28	2.28E-02
ENSG00000111785	RIC8B	593.23	0.09	2.28E-02
ENSG00000044115	CTNNA1	1918.67	0.15	2.29E-02
ENSG00000259269		13.09	0.93	2.29E-02
ENSG00000233901	LINC01503	76.25	-0.36	2.30E-02
ENSG00000181649	PHLDA2	157.35	0.50	2.30E-02
ENSG00000134108	ARL8B	2884.31	0.17	2.31E-02
ENSG00000134830	C5AR2	1198.04	-0.28	2.31E-02
ENSG00000206732	RNU6-936P	20.66	-0.31	2.31E-02
ENSG00000259717	LINC00677	64.18	-0.36	2.31E-02
ENSG00000125170	DOK4	71.23	-0.30	2.31E-02
ENSG00000107438	PDLIM1	329.54	-0.23	2.31E-02
ENSG00000165879	FRAT1	1018.67	-0.17	2.31E-02
ENSG00000006695	COX10	393.53	0.08	2.31E-02
ENSG00000102858	MGRN1	3190.65	-0.11	2.31E-02
ENSG00000237693	IRGM	41.99	-0.28	2.31E-02
ENSG00000108953	YWHAE	3492.29	0.18	2.31E-02
ENSG00000250138		242.11	0.55	2.31E-02
ENSG00000196449	YRDC	591.76	0.15	2.32E-02
ENSG00000173868	PHOSPHO1	3243.32	-0.43	2.32E-02
ENSG00000114346	ECT2	268.96	0.20	2.33E-02
ENSG00000173915	ATP5MK	667.01	0.14	2.33E-02
ENSG00000164296	TIGD6	119.56	0.16	2.33E-02
ENSG00000134780	DAGLA	181.61	0.31	2.33E-02
ENSG00000123612	ACVR1C	184.34	-0.18	2.33E-02
ENSG00000136783	NIPSNAP3A	292.98	0.17	2.34E-02
ENSG00000257875		18.72	-0.33	2.35E-02
ENSG00000279145		277.77	-0.20	2.35E-02
ENSG00000279811		336.54	-0.17	2.35E-02

ENSG00000051009	FHIP1B	1459.10	-0.09	2.35E-02
ENSG00000237940	LINC01238	144.32	-0.32	2.36E-02
ENSG00000038945	MSR1	2581.69	0.83	2.36E-02
ENSG00000258810		46.20	-0.36	2.36E-02
ENSG00000134882	UBAC2	1999.04	0.07	2.36E-02
ENSG00000211959	IGHV4-39	90.77	0.35	2.36E-02
ENSG00000015285	WAS	2698.36	-0.13	2.38E-02
ENSG00000243064	ABCC13	108.99	-0.54	2.38E-02
ENSG00000134744	TUT4	3807.30	-0.12	2.39E-02
ENSG00000211947	IGHV3-21	65.68	0.37	2.39E-02
ENSG00000256581	NLRP9P1	42.14	-0.47	2.39E-02
ENSG00000244701		210.97	-0.12	2.39E-02
ENSG00000005379	TSPOAP1	1636.84	0.18	2.40E-02
ENSG00000154803	FLCN	2247.36	0.26	2.40E-02
ENSG00000174130	TLR6	1884.50	-0.23	2.40E-02
ENSG00000132846	ZBED3	88.58	-0.23	2.40E-02
ENSG00000147421	HMBOX1	1953.58	-0.08	2.40E-02
ENSG00000176953	NFATC2IP	2086.50	0.06	2.40E-02
ENSG00000173581	CCDC106	76.43	-0.26	2.40E-02
ENSG00000181631	P2RY13	1538.44	-0.49	2.42E-02
ENSG00000172115	CYCS	1108.50	0.13	2.42E-02
ENSG00000111676	ATN1	690.53	-0.12	2.42E-02
ENSG00000009694	TENM1	227.23	-0.30	2.42E-02
ENSG00000199165	MIRLET7A1	20.30	-0.36	2.43E-02
ENSG00000134716	CYP2J2	15.73	0.42	2.43E-02
ENSG00000259735		16.86	0.51	2.43E-02
ENSG00000175573	C11orf68	823.08	0.12	2.43E-02
ENSG00000187954	CYHR1	2061.31	-0.10	2.43E-02
ENSG00000087088	BAX	1140.55	0.12	2.44E-02
ENSG00000152684	PELO	371.60	0.21	2.44E-02
ENSG00000174720	LARP7	1038.13	0.11	2.44E-02
ENSG00000078687	TNRC6C	2579.21	-0.10	2.45E-02
ENSG00000105711	SCN1B	532.41	0.41	2.46E-02
ENSG00000258860		17.79	0.69	2.46E-02
ENSG00000158481	CD1C	131.39	-0.35	2.47E-02
ENSG00000273196		17.69	0.47	2.47E-02
ENSG00000124786	SLC35B3	527.33	0.15	2.48E-02
ENSG00000103647	CORO2B	34.42	-0.60	2.48E-02
ENSG00000136930	PSMB7	1168.24	0.11	2.48E-02
ENSG00000166446	CDYL2	675.25	0.14	2.48E-02
ENSG00000205629	LCMT1	483.74	0.07	2.49E-02
ENSG00000148943	LIN7C	1475.57	0.11	2.49E-02
ENSG00000105983	LMBR1	1846.96	-0.07	2.50E-02
ENSG00000109381	ELF2	2986.06	-0.07	2.50E-02
ENSG00000136518	ACTL6A	436.95	0.11	2.50E-02
ENSG00000224383	PRR29	17.91	0.46	2.50E-02
ENSG00000100628	ASB2	354.37	0.33	2.50E-02
ENSG00000141480	ARRB2	8459.82	-0.13	2.50E-02
ENSG00000079950	STX7	3557.04	-0.12	2.50E-02
ENSG00000204217	BMPR2	1652.57	0.13	2.51E-02

ENSG00000121797	CCRL2	4443.83	0.63	2.51E-02
ENSG00000118960	HS1BP3	1250.35	0.15	2.51E-02
ENSG00000170627	GTSF1	37.82	0.21	2.51E-02
ENSG00000242076	IGKV1-33	11.39	0.53	2.51E-02
ENSG00000260947		9.13	-0.51	2.51E-02
ENSG00000278053	DDX52	876.35	0.08	2.52E-02
ENSG00000266931		23.85	-0.30	2.52E-02
ENSG00000211789	TRAV12-2	55.91	0.21	2.52E-02
ENSG00000148803	FUOM	276.36	0.15	2.52E-02
ENSG00000122873	CISD1	157.35	0.15	2.53E-02
ENSG00000163812	ZDHHC3	1895.98	-0.07	2.54E-02
ENSG00000151470	C4orf33	244.30	0.21	2.55E-02
ENSG00000009954	BAZ1B	2583.62	0.09	2.55E-02
ENSG00000179967	PPP1R14BP3	78.49	-0.25	2.55E-02
ENSG00000196353	CPNE4	19.10	-0.56	2.56E-02
ENSG00000198026	ZNF335	2063.12	-0.07	2.56E-02
ENSG00000100234	TIMP3	55.37	-0.78	2.56E-02
ENSG00000135473	PAN2	1284.47	-0.08	2.56E-02
ENSG00000078081	LAMP3	573.27	0.50	2.56E-02
ENSG00000169084	DHRX	653.53	-0.11	2.56E-02
ENSG00000198106		121.73	-0.21	2.56E-02
ENSG00000103253	HAGHL	308.09	-0.19	2.57E-02
ENSG00000152767	FARP1	14.97	-0.45	2.57E-02
ENSG00000167130	DOLPP1	170.19	0.12	2.57E-02
ENSG00000159592	GPBP1L1	4060.84	0.05	2.57E-02
ENSG00000159423	ALDH4A1	58.41	0.28	2.57E-02
ENSG00000029725	RABEP1	2520.96	0.08	2.58E-02
ENSG00000169100	SLC25A6	5728.27	-0.15	2.58E-02
ENSG00000099341	PSMD8	1660.52	0.11	2.58E-02
ENSG00000176845	METRNL	3226.99	0.18	2.58E-02
ENSG00000272990		26.66	-0.35	2.58E-02
ENSG00000105058	FAM32A	1117.35	0.09	2.58E-02
ENSG00000118257	NRP2	581.43	0.56	2.58E-02
ENSG00000168887	C2orf68	1790.53	-0.08	2.59E-02
ENSG00000271964		265.89	-0.15	2.59E-02
ENSG00000176619	LMNB2	826.94	0.19	2.59E-02
ENSG00000179833	SERTAD2	1481.25	-0.20	2.60E-02
ENSG00000131037	EPS8L1	28.76	0.41	2.60E-02
ENSG00000166266	CUL5	1244.95	0.08	2.60E-02
ENSG00000138623	SEMA7A	743.97	-0.19	2.60E-02
ENSG00000183496	MEX3B	77.15	-0.18	2.60E-02
ENSG00000197912	SPG7	2370.41	-0.09	2.61E-02
ENSG00000279192	PWAR5	562.54	-0.13	2.61E-02
ENSG00000166262	FAM227B	114.83	-0.13	2.61E-02
ENSG00000249492		78.07	-0.18	2.61E-02
ENSG00000114054	PCCB	400.12	0.12	2.62E-02
ENSG00000103353	UBFD1	975.22	0.07	2.62E-02
ENSG00000160796	NBEAL2	13387.12	-0.15	2.62E-02
ENSG00000188428	BLOC1S5	393.94	0.12	2.62E-02
ENSG00000126215	XRCC3	236.90	0.12	2.62E-02

ENSG00000090621	PABPC4	3090.23	-0.08	2.64E-02
ENSG00000081087	OSTM1	2643.57	0.19	2.64E-02
ENSG00000135446	CDK4	622.46	0.14	2.64E-02
ENSG00000101049	SGK2	21.14	-0.30	2.64E-02
ENSG00000100852	ARHGAP5	2165.27	-0.10	2.64E-02
ENSG00000273033	LINC02035	545.37	-0.19	2.64E-02
ENSG00000144354	CDCA7	70.27	0.24	2.65E-02
ENSG00000100867	DHRS2	15.13	0.90	2.65E-02
ENSG00000162894	FCMR	5772.24	-0.10	2.65E-02
ENSG00000157077	ZFYVE9	219.39	-0.12	2.66E-02
ENSG00000280376		24.68	-0.32	2.66E-02
ENSG00000259332	ST20-MTHFS	68.59	-0.30	2.66E-02
ENSG00000227189		45.17	-0.24	2.66E-02
ENSG00000188766	SPRED3	62.37	-0.22	2.67E-02
ENSG00000115234	SNX17	2333.42	0.08	2.67E-02
ENSG00000131375	CAPN7	2135.78	-0.09	2.67E-02
ENSG00000128203	ASPHD2	235.19	0.16	2.68E-02
ENSG00000163806	SPDYA	196.09	-0.22	2.69E-02
ENSG00000213172		17.69	0.44	2.71E-02
ENSG00000214018	RRM2P3	14.69	-0.52	2.71E-02
ENSG00000284387	MIR24-2	29.16	-0.46	2.71E-02
ENSG00000236682	MAP3K2-DT	61.53	-0.29	2.72E-02
ENSG00000106624	AEBP1	188.15	-0.15	2.73E-02
ENSG00000248019	FAM13A-AS1	949.28	-0.17	2.73E-02
ENSG00000272112		28.58	-0.26	2.73E-02
ENSG00000198964	SGMS1	1374.60	0.08	2.73E-02
ENSG00000196576	PLXNB2	1929.89	0.21	2.73E-02
ENSG00000197721	CR1L	307.57	-0.45	2.73E-02
ENSG00000086967	MYBPC2	10.00	-0.64	2.74E-02
ENSG00000111344	RASAL1	105.85	-0.52	2.74E-02
ENSG00000125454	SLC25A19	486.64	0.33	2.74E-02
ENSG00000035115	SH3YL1	1179.33	-0.08	2.75E-02
ENSG00000166598	HSP90B1	5309.03	0.21	2.76E-02
ENSG00000267731		261.88	-0.15	2.77E-02
ENSG00000136244	IL6	4881.06	0.74	2.77E-02
ENSG00000126453	BCL2L12	194.67	0.14	2.77E-02
ENSG00000215458	AATBC	181.96	0.40	2.77E-02
ENSG00000128245	YWHAH	942.50	0.14	2.78E-02
ENSG00000268154		76.80	-0.20	2.79E-02
ENSG00000107443	CCNJ	316.50	0.15	2.81E-02
ENSG00000256223	ZNF10	282.12	-0.13	2.81E-02
ENSG00000134215	VAV3	1808.26	0.17	2.81E-02
ENSG00000170315	UBB	23048.12	-0.32	2.81E-02
ENSG00000158457	TSPAN33	553.72	-0.22	2.82E-02
ENSG00000156261	CCT8	1854.32	0.12	2.82E-02
ENSG00000073111	MCM2	306.38	0.18	2.82E-02
ENSG00000279088		141.26	-0.21	2.82E-02
ENSG00000120539	MASTL	658.14	0.12	2.82E-02
ENSG00000105516	DBP	671.15	-0.18	2.82E-02
ENSG00000230257	NFE4	121.24	-0.43	2.83E-02

ENSG00000001617	SEMA3F	23.27	0.51	2.84E-02
ENSG00000240853	RN7SL328P	180.21	-0.19	2.84E-02
ENSG00000204241	LINC02731	42.30	-0.23	2.84E-02
ENSG00000254709	IGLL5	82.68	0.41	2.84E-02
ENSG00000026652	AGPAT4	1314.09	0.18	2.84E-02
ENSG00000234473	ZNF101P2	63.64	-0.21	2.84E-02
ENSG00000197121	PGAP1	630.22	0.30	2.85E-02
ENSG00000238269	PAGE2B	36.57	-0.52	2.85E-02
ENSG00000103274	NUBP1	598.02	0.08	2.85E-02
ENSG00000165233	CARD19	1250.92	-0.18	2.86E-02
ENSG00000167642	SPINT2	1109.32	-0.25	2.87E-02
ENSG00000279599		18.28	-0.31	2.87E-02
ENSG00000132780	NASP	1465.26	0.10	2.87E-02
ENSG00000165821	SALL2	102.49	-0.15	2.87E-02
ENSG00000106615	RHEB	1136.79	0.10	2.90E-02
ENSG00000180530	NRIP1	2211.31	0.15	2.90E-02
ENSG00000188505	NCCRP1	30.80	-0.67	2.90E-02
ENSG00000152492	CCDC50	1114.20	-0.13	2.90E-02
ENSG00000164889	SLC4A2	1585.44	0.18	2.91E-02
ENSG00000146463	ZMYM4	1425.22	0.07	2.92E-02
ENSG00000167065	DUSP18	467.11	0.13	2.92E-02
ENSG00000256706		20.18	-0.41	2.92E-02
ENSG00000141510	TP53	1301.73	0.10	2.92E-02
ENSG00000146416	AIG1	318.35	-0.17	2.93E-02
ENSG00000168827	GFM1	1002.01	0.09	2.94E-02
ENSG00000241489		146.40	-0.15	2.94E-02
ENSG00000107937	GTPBP4	971.79	0.13	2.94E-02
ENSG00000143434	SEMA6C	108.48	-0.18	2.94E-02
ENSG00000139679	LPAR6	1535.50	0.22	2.94E-02
ENSG00000196154	S100A4	2939.18	0.25	2.94E-02
ENSG00000145743	FBXL17	738.81	-0.11	2.94E-02
ENSG00000243811	APOBEC3D	80.34	0.21	2.95E-02
ENSG00000197872	CYRIA	1911.81	-0.18	2.95E-02
ENSG00000162073	PAQR4	114.04	0.32	2.96E-02
ENSG00000136002	ARHGEF4	43.18	-0.34	2.96E-02
ENSG00000100605	ITPK1	2857.53	-0.14	2.98E-02
ENSG00000189050	RNFT1	526.26	0.18	2.98E-02
ENSG00000165609	NUDT5	839.74	-0.09	2.98E-02
ENSG00000197183	NOL4L	2287.56	-0.14	2.98E-02
ENSG00000156500	PABIR3	294.52	0.10	2.98E-02
ENSG00000143322	ABL2	1799.93	0.17	2.99E-02
ENSG00000082458	DLG3	390.31	0.11	3.00E-02
ENSG00000173230	GOLGB1	3252.87	-0.09	3.01E-02
ENSG00000090686	USP48	2376.47	-0.10	3.01E-02
ENSG00000139725	RHOF	2721.54	-0.11	3.01E-02
ENSG00000116604	MEF2D	4416.68	-0.11	3.01E-02
ENSG00000009335	UBE3C	2616.14	0.09	3.01E-02
ENSG00000221445	MIR1301	27.12	-0.30	3.02E-02
ENSG00000139746	RBM26	3607.44	-0.08	3.02E-02
ENSG00000183741	CBX6	4259.82	0.12	3.02E-02

ENSG00000151320	AKAP6	95.97	-0.35	3.02E-02
ENSG00000111199	TRPV4	26.73	0.40	3.03E-02
ENSG00000252498	RNU6-1016P	98.30	-0.19	3.03E-02
ENSG00000253008	MIR2355	31.14	-0.30	3.03E-02
ENSG00000075188	NUP37	258.39	0.11	3.03E-02
ENSG00000278829		327.84	-0.19	3.03E-02
ENSG00000224023	EDRF1-DT	20.26	0.34	3.03E-02
ENSG00000166888	STAT6	10410.74	-0.09	3.04E-02
ENSG00000257335	MGAM	2771.23	-0.29	3.04E-02
ENSG00000171365	CLCN5	214.90	0.15	3.05E-02
ENSG00000057757	PITHD1	1321.24	-0.20	3.05E-02
ENSG00000279821		208.36	0.40	3.05E-02
ENSG00000176261	ZBTB80S	579.75	0.08	3.06E-02
ENSG00000160688	FLAD1	655.98	0.10	3.06E-02
ENSG00000106635	BCL7B	1081.93	0.11	3.06E-02
ENSG00000240233	RN7SL587P	40.38	0.27	3.06E-02
ENSG00000180448	ARHGAP45	16280.83	-0.09	3.06E-02
ENSG00000143786	CNIH3	74.01	-0.20	3.06E-02
ENSG00000265354	TIMM23	591.94	0.11	3.06E-02
ENSG00000226450	CYP2D8P	117.39	-0.16	3.07E-02
ENSG00000278771	RN7SL3	918.38	0.24	3.07E-02
ENSG00000103540	CCP110	834.39	0.10	3.07E-02
ENSG00000076716	GPC4	28.33	-0.58	3.07E-02
ENSG00000135124	P2RX4	2698.54	0.25	3.07E-02
ENSG00000187695	NA	38.05	-0.44	3.07E-02
ENSG00000230107		73.54	-0.69	3.07E-02
ENSG00000254521	SIGLEC12	67.20	-0.68	3.08E-02
ENSG00000274523	RCC1L	816.30	0.10	3.08E-02
ENSG00000198756	COLGALT2	177.77	0.27	3.08E-02
ENSG00000130513	GDF15	88.21	0.45	3.08E-02
ENSG00000130962	PRRG1	10.32	0.48	3.09E-02
ENSG00000235954	TTC28-AS1	444.35	-0.09	3.09E-02
ENSG00000123472	ATPAF1	699.21	0.08	3.09E-02
ENSG00000185236	RAB11B	1512.46	-0.12	3.10E-02
ENSG00000068650	ATP11A	3852.82	-0.12	3.11E-02
ENSG00000142864	SERBP1	3919.99	0.11	3.11E-02
ENSG00000166140	ZFYVE19	531.19	0.08	3.11E-02
ENSG00000119636	BBOF1	237.16	-0.36	3.11E-02
ENSG00000172508	CARNS1	215.52	-0.28	3.11E-02
ENSG00000156831	NSMCE2	706.75	0.12	3.12E-02
ENSG00000006625	GGCT	87.77	0.15	3.12E-02
ENSG00000181061	HIGD1A	466.60	0.15	3.12E-02
ENSG00000197971	MBP	7494.56	-0.10	3.13E-02
ENSG00000261131		32.76	-0.30	3.14E-02
ENSG00000248643	RBM14-RBM4	213.93	-0.15	3.14E-02
ENSG00000266236	NARF-IT1	61.62	-0.36	3.15E-02
ENSG00000143753	DEGS1	1281.18	0.11	3.15E-02
ENSG00000106560	GIMAP2	2918.45	0.14	3.17E-02
ENSG00000157954	WIPI2	2275.06	-0.09	3.17E-02
ENSG00000268170		15.72	-0.65	3.18E-02

ENSG00000173692	PSMD1	1357.54	0.13	3.18E-02
ENSG00000214215	NA	29.48	-0.37	3.18E-02
ENSG00000204789	ZNF204P	157.48	-0.16	3.19E-02
ENSG00000124920	MYRF	50.43	0.26	3.19E-02
ENSG00000111670	GNPTAB	2241.73	0.11	3.20E-02
ENSG00000123066	MED13L	6641.90	-0.11	3.21E-02
ENSG00000184009	ACTG1	22391.26	0.16	3.21E-02
ENSG00000156639	ZFAND3	3500.56	-0.15	3.21E-02
ENSG00000116005	PCYOX1	523.00	-0.10	3.21E-02
ENSG00000173862		18.06	-0.38	3.21E-02
ENSG00000008086	CDKL5	385.35	-0.11	3.23E-02
ENSG00000092010	PSME1	3925.61	0.16	3.23E-02
ENSG00000143815	LBR	4758.09	-0.10	3.24E-02
ENSG00000225643		50.13	-0.34	3.24E-02
ENSG00000264937		16.02	-0.32	3.24E-02
ENSG00000162702	ZNF281	1640.04	-0.13	3.24E-02
ENSG00000248712	CCDC153	24.08	-0.38	3.24E-02
ENSG00000081665	ZNF506	1940.37	-0.09	3.25E-02
ENSG00000135070	ISCA1	1186.77	-0.20	3.25E-02
ENSG00000218226	TATDN2P2	22.66	0.28	3.25E-02
ENSG00000144579	CTDSP1	4383.23	-0.09	3.25E-02
ENSG00000117395	EBNA1BP2	430.10	0.23	3.25E-02
ENSG00000115525	ST3GAL5	1940.02	0.14	3.27E-02
ENSG00000177410	ZFAS1	1537.62	-0.12	3.28E-02
ENSG00000122591	FAM126A	1180.18	0.14	3.28E-02
ENSG00000163161	ERCC3	1128.98	0.06	3.28E-02
ENSG00000184900	SUMO3	987.23	0.19	3.28E-02
ENSG00000186522	SEPTIN10	179.99	0.27	3.28E-02
ENSG00000198876	DCAF12	13031.59	-0.37	3.28E-02
ENSG00000117322	CR2	129.54	-0.26	3.28E-02
ENSG00000273828		37.16	-0.28	3.28E-02
ENSG00000132359	RAP1GAP2	1737.43	-0.36	3.28E-02
ENSG00000276934		45.84	0.23	3.28E-02
ENSG00000161021	MAML1	3589.83	-0.08	3.29E-02
ENSG00000168795	ZBTB5	618.90	-0.10	3.29E-02
ENSG00000162368	CMPK1	2476.55	-0.08	3.30E-02
ENSG00000143862	ARL8A	1302.34	0.11	3.31E-02
ENSG00000162591	MEGF6	1852.91	-0.20	3.31E-02
ENSG00000108387	SEPTIN4	41.30	0.42	3.31E-02
ENSG00000135842	NIBAN1	10438.44	-0.19	3.31E-02
ENSG00000150991	UBC	22082.12	0.17	3.33E-02
ENSG00000198840	MT-ND3	457.73	-0.30	3.33E-02
ENSG00000156875	MFSD14A	151.27	-0.17	3.33E-02
ENSG00000260220	CCDC187	18.28	-0.33	3.33E-02
ENSG00000183684	ALYREF	581.38	0.14	3.33E-02
ENSG00000035681	NSMAF	2413.57	0.14	3.33E-02
ENSG00000108671	PSMD11	1462.19	0.09	3.34E-02
ENSG00000126217	MCF2L	312.88	-0.16	3.34E-02
ENSG00000124882	EREG	2413.13	0.59	3.34E-02
ENSG00000083937	CHMP2B	1179.52	0.13	3.34E-02

ENSG00000122359	ANXA11	6536.22	-0.12	3.35E-02
ENSG00000165516	KLHDC2	1240.81	-0.16	3.36E-02
ENSG00000145715	RASA1	1724.29	0.12	3.36E-02
ENSG00000111231	GPN3	259.21	0.18	3.36E-02
ENSG00000166478	ZNF143	1039.87	-0.08	3.37E-02
ENSG00000130703	OSBPL2	2388.75	-0.11	3.37E-02
ENSG00000265612	MIR4539	37.43	-0.29	3.37E-02
ENSG00000136878	USP20	2221.43	-0.08	3.37E-02
ENSG00000162398	LEXM	36.46	0.30	3.38E-02
ENSG00000183826	BTBD9	1264.46	-0.08	3.38E-02
ENSG00000167393	PPP2R3B	527.22	-0.13	3.39E-02
ENSG00000143851	PTPN7	2530.91	0.19	3.39E-02
ENSG00000050405	LIMA1	318.43	0.17	3.40E-02
ENSG00000072062	PRKACA	1753.54	-0.15	3.40E-02
ENSG00000153989	NUS1	1767.96	0.15	3.40E-02
ENSG00000127054	INTS11	1715.58	-0.08	3.40E-02
ENSG00000099953	MMP11	45.13	-0.32	3.40E-02
ENSG00000140992	PDPK1	2409.01	-0.08	3.40E-02
ENSG00000188786	MTF1	4117.24	0.30	3.41E-02
ENSG00000178567	EPM2AIP1	3017.83	-0.13	3.41E-02
ENSG00000179115	FARSA	977.69	0.15	3.42E-02
ENSG00000166710	B2M	125025.04	0.14	3.42E-02
ENSG00000117360	PRPF3	1813.64	-0.06	3.43E-02
ENSG00000141736	ERBB2	253.88	0.21	3.43E-02
ENSG00000008130	NADK	7570.02	0.16	3.43E-02
ENSG00000215039	CD27-AS1	186.67	0.15	3.43E-02
ENSG00000066926	FECH	1745.33	-0.36	3.44E-02
ENSG00000181143	MUC16	16.44	-0.41	3.44E-02
ENSG00000136732	GYPC	10275.42	-0.34	3.45E-02
ENSG00000106105	GARS1	1376.68	0.10	3.45E-02
ENSG00000168310	IRF2	3372.23	0.10	3.46E-02
ENSG00000232891		37.31	-0.42	3.47E-02
ENSG00000171860	C3AR1	4238.04	0.56	3.47E-02
ENSG00000084733	RAB10	4376.70	0.19	3.47E-02
ENSG00000131143	COX4I1	3314.99	-0.14	3.47E-02
ENSG00000256751	PLBD1-AS1	26.32	-0.44	3.48E-02
ENSG00000187210	GCNT1	359.54	0.19	3.48E-02
ENSG00000113966	ARL6	139.52	0.16	3.48E-02
ENSG00000169902	TPST1	272.92	-0.27	3.49E-02
ENSG00000075213	SEMA3A	50.03	0.43	3.50E-02
ENSG00000126067	PSMB2	857.18	0.10	3.50E-02
ENSG00000204344	STK19	305.14	-0.10	3.50E-02
ENSG00000141682	PMAIP1	849.03	0.20	3.50E-02
ENSG00000267470	ZNF571-AS1	21.61	-0.25	3.51E-02
ENSG00000111142	METAP2	837.86	0.11	3.51E-02
ENSG00000148331	ASB6	1095.53	-0.09	3.51E-02
ENSG00000151694	ADAM17	3278.52	0.23	3.51E-02
ENSG00000267749		41.90	-0.33	3.51E-02
ENSG00000237604		62.65	-0.43	3.51E-02
ENSG00000089195	TRMT6	424.23	0.23	3.51E-02

ENSG00000216937	CCDC7	1215.47	-0.13	3.51E-02
ENSG00000261351		170.85	-0.12	3.51E-02
ENSG00000175556	LONRF3	687.07	0.17	3.51E-02
ENSG00000108239	TBC1D12	300.17	0.16	3.53E-02
ENSG00000149115	TNKS1BP1	326.53	-0.15	3.53E-02
ENSG00000085377	PREP	998.31	0.08	3.53E-02
ENSG00000278022		56.09	-0.29	3.53E-02
ENSG00000267882		28.00	0.77	3.53E-02
ENSG00000118564	FBXL5	6435.19	0.14	3.53E-02
ENSG00000273192		71.29	-0.22	3.53E-02
ENSG00000148834	GSTO1	2046.09	0.24	3.54E-02
ENSG00000102057	KCND1	104.71	0.23	3.54E-02
ENSG00000241294	IGKV2-24	27.53	0.39	3.54E-02
ENSG00000244398		40.89	-0.23	3.54E-02
ENSG00000103671	TRIP4	722.04	0.09	3.54E-02
ENSG00000225200		15.37	-0.44	3.54E-02
ENSG00000229153	EPHA1-AS1	111.65	-0.26	3.55E-02
ENSG00000143839	REN	9.24	-1.03	3.55E-02
ENSG00000144589	STK11IP	771.33	-0.08	3.55E-02
ENSG00000197562	RAB40C	486.45	-0.15	3.55E-02
ENSG00000165521	EML5	312.51	-0.14	3.55E-02
ENSG00000259959		155.12	-0.18	3.56E-02
ENSG00000078114	NEBL	74.76	-0.47	3.56E-02
ENSG00000012048	BRCA1	439.14	0.14	3.56E-02
ENSG00000170734	POLH	436.75	0.13	3.56E-02
ENSG00000136048	DRAM1	2506.33	0.36	3.56E-02
ENSG00000167613	LAIR1	2867.66	0.26	3.56E-02
ENSG00000204599	TRIM39	494.02	-0.09	3.56E-02
ENSG00000043462	LCP2	18640.80	0.16	3.57E-02
ENSG00000270062		89.13	-0.21	3.57E-02
ENSG00000120659	TNFSF11	18.82	-0.37	3.58E-02
ENSG00000168763	CNNM3	1443.18	-0.09	3.58E-02
ENSG00000106780	MEGF9	4382.15	-0.25	3.58E-02
ENSG00000261236	BOP1	546.09	0.23	3.58E-02
ENSG00000108349	CASC3	3306.03	-0.08	3.60E-02
ENSG00000272498		190.23	-0.18	3.60E-02
ENSG00000103888	CEMIP	884.31	0.83	3.60E-02
ENSG00000166394	CYB5R2	43.29	0.39	3.60E-02
ENSG00000109436	TBC1D9	1095.09	-0.22	3.61E-02
ENSG00000205356	TECPR1	2764.91	-0.10	3.62E-02
ENSG00000040275	SPDL1	199.57	0.13	3.62E-02
ENSG00000138802	SEC24B	1963.27	-0.08	3.62E-02
ENSG00000055211	GINM1	685.06	-0.13	3.62E-02
ENSG00000260793		194.34	-0.13	3.62E-02
ENSG00000270019		146.49	0.24	3.62E-02
ENSG00000132405	TBC1D14	3111.29	-0.19	3.63E-02
ENSG00000159658	EFCAB14	4105.15	0.07	3.63E-02
ENSG00000186687	LYRM7	680.13	-0.08	3.64E-02
ENSG00000281106	TMEM272	379.49	-0.25	3.64E-02
ENSG00000238113	LINC01410	205.45	0.26	3.65E-02

ENSG00000141446	ESCO1	2028.31	-0.09	3.65E-02
ENSG00000173933	RBM4	895.36	-0.11	3.65E-02
ENSG00000236829		138.89	-0.19	3.65E-02
ENSG00000211965	IGHV3-49	31.19	0.36	3.65E-02
ENSG00000180354	MTURN	1164.12	-0.19	3.66E-02
ENSG00000099949	LZTR1	1345.22	0.07	3.66E-02
ENSG00000264204	AGAP7P	76.78	-0.59	3.67E-02
ENSG00000257017	HP	50.63	0.51	3.68E-02
ENSG00000255769	GOLGA2P10	335.02	-0.12	3.68E-02
ENSG00000135624	CCT7	2427.15	0.12	3.68E-02
ENSG00000262380		141.53	-0.19	3.68E-02
ENSG00000168995	SIGLEC7	378.83	-0.25	3.69E-02
ENSG00000113638	TTC33	493.48	0.12	3.69E-02
ENSG00000198363	ASPH	1802.78	0.26	3.69E-02
ENSG00000267030		19.58	-0.28	3.69E-02
ENSG00000126787	DLGAP5	144.57	0.37	3.70E-02
ENSG00000148483	TMEM236	24.21	-0.30	3.70E-02
ENSG00000179241	LDLRAD3	145.57	0.35	3.70E-02
ENSG00000196139	AKR1C3	116.19	0.24	3.72E-02
ENSG00000198961	PJA2	5215.82	-0.09	3.72E-02
ENSG00000215483	LINC00598	84.22	-0.20	3.72E-02
ENSG00000225062	CATIP-AS1	133.69	-0.47	3.73E-02
ENSG00000087995	METTL2A	277.67	0.10	3.73E-02
ENSG00000069956	MAPK6	2025.87	0.22	3.73E-02
ENSG00000140379	BCL2A1	6841.95	0.23	3.73E-02
ENSG00000099194	SCD	330.28	0.31	3.74E-02
ENSG00000139354	GAS2L3	294.06	0.46	3.74E-02
ENSG00000153823	PID1	1673.12	0.46	3.74E-02
ENSG00000248429	GASK1B-AS1	91.10	0.33	3.76E-02
ENSG00000182732	RGS6	51.65	-0.43	3.76E-02
ENSG00000174231	PRPF8	6541.54	-0.13	3.77E-02
ENSG00000261468		613.30	-0.16	3.77E-02
ENSG00000223776	LGALS8-AS1	19.50	0.31	3.77E-02
ENSG00000197555	SIPA1L1	5499.05	-0.15	3.78E-02
ENSG00000197013	ZNF429	542.98	0.13	3.78E-02
ENSG00000086015	MAST2	558.88	0.18	3.78E-02
ENSG00000116128	BCL9	336.87	-0.17	3.78E-02
ENSG00000044446	PHKA2	1610.88	-0.11	3.79E-02
ENSG00000163964	PIGX	508.53	-0.13	3.79E-02
ENSG00000131844	MCCC2	715.77	0.08	3.80E-02
ENSG00000129933	MAU2	3264.61	-0.07	3.80E-02
ENSG00000177733	HNRNPA0	2441.32	-0.08	3.80E-02
ENSG00000137731	FXD2	43.93	-0.26	3.80E-02
ENSG00000164176	EDIL3	6.26	-0.81	3.80E-02
ENSG00000162927	PUS10	274.21	0.13	3.80E-02
ENSG00000225830	ERCC6	1206.81	-0.08	3.81E-02
ENSG00000154764	WNT7A	223.81	-0.16	3.82E-02
ENSG00000143156	NME7	212.93	0.14	3.82E-02
ENSG00000213846	NA	36.46	0.25	3.82E-02
ENSG00000197766	CFD	1031.07	0.27	3.82E-02

ENSG00000250361	GYPB	241.83	-0.49	3.82E-02
ENSG00000186710	CFAP73	8.34	-0.52	3.82E-02
ENSG00000163520	FBLN2	52.50	-0.34	3.83E-02
ENSG00000205730	ITPRIPL2	789.12	0.29	3.83E-02
ENSG00000092470	WDR76	272.59	0.10	3.83E-02
ENSG00000134970	TMED7	1350.68	0.13	3.84E-02
ENSG00000155368	DBI	391.14	0.13	3.84E-02
ENSG00000228486	C2orf92	185.31	-0.12	3.85E-02
ENSG00000169026	SLC49A3	322.50	0.18	3.86E-02
ENSG00000276758		35.80	0.45	3.87E-02
ENSG00000167280	ENGASE	2195.81	-0.13	3.87E-02
ENSG00000175414	ARL10	723.65	-0.09	3.88E-02
ENSG00000166181	API5	2343.42	0.07	3.88E-02
ENSG00000099910	KLHL22	1030.22	-0.08	3.89E-02
ENSG00000170545	SMAGP	88.43	0.15	3.89E-02
ENSG00000117139	KDM5B	1915.71	-0.09	3.89E-02
ENSG00000178982	EIF3K	2585.34	-0.09	3.89E-02
ENSG00000254965	C1DP5	28.84	0.26	3.89E-02
ENSG00000223711		59.69	-0.18	3.89E-02
ENSG00000227678		120.88	0.17	3.89E-02
ENSG00000178741	COX5A	632.31	0.13	3.90E-02
ENSG00000016864	GLT8D1	493.66	0.08	3.90E-02
ENSG00000207092		35.33	-0.24	3.90E-02
ENSG00000122783	CYREN	884.62	-0.11	3.91E-02
ENSG00000113595	TRIM23	986.00	-0.10	3.91E-02
ENSG00000091732	ZC3HC1	313.38	0.11	3.92E-02
ENSG00000091651	ORC6	37.10	0.23	3.92E-02
ENSG00000139436	GIT2	4703.70	-0.12	3.92E-02
ENSG00000138316	ADAMTS14	70.16	0.51	3.92E-02
ENSG00000151023	ENKUR	88.80	-0.37	3.93E-02
ENSG00000266274	RN7SL138P	36.27	0.50	3.93E-02
ENSG00000100804	PSMB5	402.47	0.21	3.93E-02
ENSG00000108179	PPIF	7551.34	0.33	3.93E-02
ENSG00000279549		130.47	-0.27	3.93E-02
ENSG00000249592	PCGF3-AS1	903.06	-0.11	3.93E-02
ENSG00000269374		18.33	0.30	3.93E-02
ENSG00000163960	UBXN7	2737.64	-0.08	3.93E-02
ENSG00000162129	CLPB	575.37	0.10	3.94E-02
ENSG00000172006	ZNF554	233.83	-0.11	3.94E-02
ENSG00000197860	SGTB	2522.86	0.16	3.94E-02
ENSG00000137411	VARS2	652.68	0.09	3.96E-02
ENSG00000204070	SYS1	1301.94	-0.07	3.96E-02
ENSG00000037280	FLT4	297.31	-0.16	3.96E-02
ENSG00000097096	SYDE2	152.85	-0.23	3.97E-02
ENSG00000226137	BAIAP2-DT	269.05	-0.25	3.97E-02
ENSG00000167680	SEMA6B	1839.27	-0.74	3.97E-02
ENSG00000083812	ZNF324	761.29	-0.12	3.97E-02
ENSG00000169397	RNASE3	24.79	0.54	3.97E-02
ENSG00000160593	JAML	6203.10	-0.24	3.97E-02
ENSG00000155849	ELMO1	3200.38	-0.10	3.97E-02

ENSG00000171657	GPR82	34.04	0.44	3.97E-02
ENSG00000211660	IGLV2-23	134.22	0.38	3.98E-02
ENSG00000177732	SOX12	364.16	-0.21	3.98E-02
ENSG00000101745	ANKRD12	7891.92	-0.11	3.98E-02
ENSG00000182093	GET1	407.13	-0.10	3.99E-02
ENSG00000163558	PRKCI	768.70	0.13	3.99E-02
ENSG00000115956	PLEK	18660.54	0.18	3.99E-02
ENSG00000025434	NR1H3	347.33	0.24	3.99E-02
ENSG00000140830	TXNL4B	521.20	0.12	4.00E-02
ENSG00000185495	SEPTIN7P13	458.92	-0.12	4.00E-02
ENSG00000180537	RNF182	142.51	-0.53	4.00E-02
ENSG00000177575	CD163	3793.60	0.67	4.00E-02
ENSG00000273356	LINC02019	65.12	-0.30	4.00E-02
ENSG00000089159	PXN	5766.08	-0.14	4.01E-02
ENSG00000163993	S100P	573.60	-0.33	4.01E-02
ENSG00000104140	RHOV	53.51	0.99	4.01E-02
ENSG00000023287	RB1CC1	3442.17	-0.11	4.02E-02
ENSG00000138073	PREB	1130.94	0.11	4.03E-02
ENSG00000147180	ZNF711	68.43	-0.22	4.03E-02
ENSG00000140009	ESR2	116.07	-0.44	4.03E-02
ENSG00000188419	CHM	808.01	0.11	4.03E-02
ENSG00000171552	BCL2L1	9867.24	-0.35	4.03E-02
ENSG00000099860	GADD45B	5099.14	0.19	4.04E-02
ENSG00000214140	PRCD	119.48	-0.32	4.04E-02
ENSG00000119812	FAM98A	437.44	0.21	4.04E-02
ENSG00000097021	ACOT7	124.51	0.20	4.04E-02
ENSG00000124469	CEACAM8	148.75	0.32	4.04E-02
ENSG00000100055	CYTH4	9876.81	-0.14	4.05E-02
ENSG00000065970	FOXJ2	1262.46	-0.10	4.05E-02
ENSG00000124875	CXCL6	299.59	0.83	4.06E-02
ENSG00000261367		23.53	-0.61	4.06E-02
ENSG00000236946	HNRNPA1P70	52.07	-0.30	4.07E-02
ENSG00000163507	CIP2A	166.26	0.17	4.07E-02
ENSG00000279233		73.54	-0.16	4.07E-02
ENSG00000112079	STK38	5155.34	0.07	4.08E-02
ENSG00000117593	DARS2	349.43	0.16	4.09E-02
ENSG00000196220	SRGAP3	198.49	-0.18	4.09E-02
ENSG00000135378	PRRG4	273.73	0.33	4.09E-02
ENSG00000170558	CDH2	7.87	-0.64	4.09E-02
ENSG00000258944		173.44	-0.15	4.09E-02
ENSG00000074696	HACD3	592.36	0.08	4.09E-02
ENSG00000173599	PC	302.53	-0.29	4.10E-02
ENSG00000101166	PRELID3B	1078.25	0.11	4.11E-02
ENSG00000115459	ELMOD3	788.16	0.08	4.11E-02
ENSG00000102898	NUTF2	763.48	0.12	4.11E-02
ENSG00000170365	SMAD1	59.95	0.25	4.12E-02
ENSG00000118689	FOXO3	4448.41	-0.17	4.13E-02
ENSG00000169155	ZBTB43	1022.01	0.10	4.13E-02
ENSG00000189325	BNIP5	15.09	0.75	4.13E-02
ENSG00000076043	REXO2	519.79	0.11	4.13E-02

ENSG00000263961	RHEX	195.92	-0.20	4.14E-02
ENSG00000264678	MIR3140	43.19	-0.26	4.15E-02
ENSG00000118873	RAB3GAP2	1939.80	0.07	4.15E-02
ENSG00000266288	LINC02974	13.10	0.40	4.15E-02
ENSG00000137942	FNBP1L	141.40	-0.14	4.15E-02
ENSG00000258215		15.05	-0.42	4.15E-02
ENSG00000279722		136.97	-0.17	4.15E-02
ENSG00000234066	TAS2R62P	18.05	-0.32	4.15E-02
ENSG00000127578	WFIKK1	32.66	-0.31	4.15E-02
ENSG00000254470	AP5B1	4377.76	0.17	4.15E-02
ENSG00000215068	ANXA2R-AS1	599.87	-0.11	4.16E-02
ENSG00000177463	NR2C2	3395.01	-0.07	4.16E-02
ENSG00000101460	MAP1LC3A	234.49	-0.22	4.16E-02
ENSG00000226530		27.22	-0.26	4.16E-02
ENSG00000162676	GFI1	937.78	0.16	4.16E-02
ENSG00000065717	TLE2	199.62	-0.14	4.18E-02
ENSG00000243477	NAA80	232.19	-0.12	4.18E-02
ENSG00000184432	COPB2	2215.36	0.15	4.18E-02
ENSG00000076924	XAB2	1508.44	-0.11	4.18E-02
ENSG00000213654	GPSM3	4680.87	-0.10	4.18E-02
ENSG00000159753	CARMIL2	1293.63	-0.12	4.19E-02
ENSG00000137672	TRPC6	19.30	0.34	4.19E-02
ENSG00000213015	ZNF580	543.07	-0.10	4.20E-02
ENSG00000142675	CNKSR1	43.37	0.22	4.20E-02
ENSG00000204305	AGER	551.73	-0.13	4.20E-02
ENSG00000111911	HINT3	633.61	0.16	4.20E-02
ENSG00000180747	SMG1P3	1797.10	-0.09	4.21E-02
ENSG00000247774	PCED1B-AS1	3131.06	0.13	4.21E-02
ENSG00000178980	SELENOW	943.72	0.11	4.21E-02
ENSG00000147202	DIAPH2	1081.65	0.12	4.21E-02
ENSG00000225094	SETP20	18.51	-0.33	4.22E-02
ENSG00000213753	CENPBD2P	796.98	-0.12	4.22E-02
ENSG00000112232	KHDRBS2	46.01	-0.32	4.23E-02
ENSG00000168282	MGAT2	1393.46	0.13	4.23E-02
ENSG00000163882	POLR2H	476.54	0.10	4.24E-02
ENSG00000084444	FAM234B	187.26	0.11	4.24E-02
ENSG00000198400	NTRK1	76.78	-0.28	4.25E-02
ENSG00000138459	SLC35A5	678.48	0.12	4.25E-02
ENSG00000145194	ECE2	73.97	0.29	4.26E-02
ENSG00000164172	MOCS2	403.47	0.10	4.26E-02
ENSG00000014164	ZC3H3	1435.07	-0.09	4.26E-02
ENSG00000111885	MAN1A1	2378.35	-0.14	4.26E-02
ENSG00000143162	CREG1	2535.33	0.19	4.26E-02
ENSG00000142687	KIAA0319L	2430.43	0.10	4.26E-02
ENSG00000203286		30.72	-0.21	4.26E-02
ENSG00000166401	SERPINB8	992.51	0.19	4.27E-02
ENSG00000110801	PSMD9	299.01	0.11	4.27E-02
ENSG00000166278	C2	187.46	0.18	4.28E-02
ENSG00000279057		16.61	-0.33	4.28E-02
ENSG00000197959	DNM3	238.78	-0.25	4.28E-02

ENSG00000090238	YPEL3	4695.62	-0.17	4.28E-02
ENSG00000116212	LRRC42	177.74	0.12	4.28E-02
ENSG00000259421		14.39	-0.35	4.28E-02
ENSG00000272144		74.96	-0.19	4.29E-02
ENSG00000207870	MIR221	30.31	0.59	4.29E-02
ENSG00000152056	AP1S3	179.52	-0.22	4.29E-02
ENSG00000138101	DTNB	600.66	-0.12	4.29E-02
ENSG00000198538	ZNF28	509.23	0.16	4.29E-02
ENSG00000139178	C1RL	1171.00	-0.15	4.30E-02
ENSG00000154813	DPH3	650.85	0.14	4.30E-02
ENSG00000105341	DMAC2	461.87	0.09	4.30E-02
ENSG00000264743	DPRXP4	69.08	0.25	4.30E-02
ENSG00000184277	TM2D3	1310.74	-0.10	4.31E-02
ENSG00000137714	FDX1	553.65	0.11	4.31E-02
ENSG00000096968	JAK2	2618.16	0.16	4.31E-02
ENSG00000143353	LYPLAL1	577.88	-0.10	4.31E-02
ENSG00000205358	MT1H	28.94	1.03	4.34E-02
ENSG00000104381	GDAP1	161.99	0.13	4.35E-02
ENSG00000172460	PRSS30P	51.35	0.30	4.35E-02
ENSG00000180879	SSR4	1917.23	0.11	4.36E-02
ENSG00000242779	ZNF702P	108.64	0.20	4.36E-02
ENSG00000105499	PLA2G4C	285.73	0.30	4.36E-02
ENSG00000138439	FAM117B	997.58	-0.18	4.36E-02
ENSG00000184270	H2AC21	506.45	0.22	4.36E-02
ENSG00000159363	ATP13A2	1163.58	0.12	4.36E-02
ENSG00000132603	NIP7	516.80	0.15	4.36E-02
ENSG00000169599	NFU1	349.26	0.11	4.37E-02
ENSG00000214194	SMIM30	273.57	0.15	4.37E-02
ENSG00000076351	SLC46A1	213.05	0.25	4.37E-02
ENSG00000065243	PKN2	2984.50	-0.14	4.37E-02
ENSG00000152804	HHEX	431.17	-0.20	4.37E-02
ENSG00000135404	CD63	2700.89	0.20	4.38E-02
ENSG00000211445	GPX3	132.96	-0.45	4.38E-02
ENSG00000114841	DNAH1	2999.30	-0.13	4.38E-02
ENSG00000215861		238.19	0.51	4.38E-02
ENSG00000105426	PTPRS	271.26	-0.20	4.39E-02
ENSG00000177873	ZNF619	455.13	0.08	4.39E-02
ENSG00000282164	PEG13	401.45	-0.14	4.39E-02
ENSG00000076242	MLH1	1086.18	0.08	4.39E-02
ENSG00000104998	IL27RA	1529.04	0.12	4.39E-02
ENSG00000135905	DOCK10	6752.90	0.13	4.39E-02
ENSG00000170175	CHRNA1	147.35	0.15	4.39E-02
ENSG00000134909	ARHGAP32	266.41	-0.16	4.39E-02
ENSG00000059758	CDK17	3265.78	0.09	4.41E-02
ENSG00000091436	MAP3K20	906.26	0.34	4.42E-02
ENSG0000007047	MARK4	866.42	-0.08	4.42E-02
ENSG00000124126	PREX1	14759.23	-0.13	4.42E-02
ENSG00000049089	COL9A2	346.36	-0.26	4.42E-02
ENSG00000105127	AKAP8	1483.58	-0.13	4.44E-02
ENSG00000168014	C2CD3	2138.43	0.08	4.44E-02

ENSG00000085978	ATG16L1	1712.29	-0.06	4.45E-02
ENSG00000175662	TOM1L2	1430.33	-0.09	4.45E-02
ENSG00000257557	PPP1R12A-AS1	45.03	0.21	4.46E-02
ENSG00000136830	NIBAN2	1815.01	0.39	4.46E-02
ENSG00000183520	UTP11	418.15	0.20	4.46E-02
ENSG00000167641	PPP1R14A	18.85	-0.44	4.46E-02
ENSG00000064601	CTSA	2994.36	0.16	4.46E-02
ENSG00000076356	PLXNA2	303.17	-0.18	4.46E-02
ENSG00000229590	MSX2P1	44.42	-0.27	4.46E-02
ENSG00000125844	RRBP1	1285.22	0.12	4.46E-02
ENSG00000279089		195.61	-0.12	4.46E-02
ENSG00000269194		55.15	-0.20	4.46E-02
ENSG00000026297	RNASET2	3933.92	-0.16	4.46E-02
ENSG00000149679	CABLES2	251.46	-0.16	4.46E-02
ENSG00000234771	SLC25A25-AS1	544.79	-0.14	4.46E-02
ENSG00000225806		25.66	-0.25	4.46E-02
ENSG00000103429	BFAR	1187.87	0.08	4.46E-02
ENSG00000138801	PAPSS1	951.42	0.15	4.47E-02
ENSG00000173451	THAP2	382.28	0.14	4.47E-02
ENSG00000114978	MOB1A	7164.49	0.09	4.47E-02
ENSG00000250571	GLI4	796.37	-0.13	4.48E-02
ENSG00000163785	RYK	1188.96	-0.06	4.48E-02
ENSG00000080503	SMARCA2	6076.51	-0.11	4.49E-02
ENSG00000249307	LINC01088	12.57	-0.42	4.49E-02
ENSG00000142173	COL6A2	636.64	-0.21	4.49E-02
ENSG00000136235	GNPMB	734.05	0.75	4.49E-02
ENSG00000169193	CCDC126	367.59	-0.10	4.49E-02
ENSG00000263327	TAPT1-AS1	253.45	-0.16	4.49E-02
ENSG00000188612	SUMO2	2107.21	0.09	4.49E-02
ENSG00000149136	SSRP1	1319.61	0.08	4.49E-02
ENSG00000166165	CKB	156.20	0.37	4.49E-02
ENSG00000123342	MMP19	1404.44	0.87	4.49E-02
ENSG00000175166	PSMD2	2211.72	0.09	4.50E-02
ENSG00000141179	PCTP	645.98	-0.21	4.50E-02
ENSG00000223797	ENTPD3-AS1	79.43	0.15	4.50E-02
ENSG00000185386	MAPK11	152.51	0.29	4.50E-02
ENSG00000076928	ARHGEF1	12592.40	-0.10	4.51E-02
ENSG00000261556	SMG1P7	420.65	-0.10	4.51E-02
ENSG00000234268		34.03	-0.31	4.51E-02
ENSG00000121297	TSHZ3	243.76	-0.20	4.51E-02
ENSG00000064995	TAF11	589.90	0.07	4.51E-02
ENSG00000104774	MAN2B1	2963.63	-0.16	4.51E-02
ENSG00000175536	LIPT2	73.89	-0.23	4.51E-02
ENSG00000167615	LENG8	10098.17	-0.13	4.51E-02
ENSG00000198912	C1orf174	664.24	0.07	4.51E-02
ENSG00000230042	AK3P3	29.70	-0.23	4.51E-02
ENSG00000279329		37.73	-0.19	4.51E-02
ENSG00000108523	RNF167	1513.34	-0.08	4.52E-02
ENSG00000117592	PRDX6	3307.95	-0.23	4.52E-02
ENSG00000213366	GSTM2	293.97	-0.19	4.53E-02

ENSG00000115816	CEBPZ	1553.50	0.10	4.54E-02
ENSG00000124299	PEPD	834.62	0.14	4.54E-02
ENSG00000186831	KRT17P2	7.72	-0.55	4.54E-02
ENSG00000124784	RIOK1	409.29	0.11	4.55E-02
ENSG00000221926	TRIM16	163.14	-0.11	4.55E-02
ENSG00000207444	SNORD56B	19.94	-0.38	4.55E-02
ENSG00000168411	RFWD3	996.95	0.07	4.55E-02
ENSG00000238160	LINC02863	283.25	-0.27	4.55E-02
ENSG00000125304	TM9SF2	3382.37	-0.08	4.55E-02
ENSG00000228808	HMGB3P4	114.97	-0.14	4.56E-02
ENSG00000155313	USP25	3648.28	0.11	4.56E-02
ENSG00000105953	OGDH	2662.29	0.12	4.56E-02
ENSG00000274776		20.38	-0.28	4.56E-02
ENSG00000113790	EHHADH	40.61	0.18	4.56E-02
ENSG00000100348	TXN2	752.15	0.10	4.57E-02
ENSG00000128595	CALU	1013.11	0.13	4.57E-02
ENSG00000125510	OPRL1	328.84	0.16	4.58E-02
ENSG00000246582	TNFRSF10A-DT	102.57	-0.12	4.58E-02
ENSG00000231595	NA	48.32	0.20	4.58E-02
ENSG00000154305	MIA3	2394.90	0.09	4.58E-02
ENSG00000216863	LY86-AS1	19.82	-0.34	4.59E-02
ENSG00000188522	FAM83G	534.38	0.22	4.59E-02
ENSG00000100292	HMOX1	2215.80	0.27	4.60E-02
ENSG00000187862	TTC24	130.34	-0.16	4.60E-02
ENSG00000072110	ACTN1	5279.00	-0.17	4.60E-02
ENSG00000143748	NVL	674.47	0.06	4.60E-02
ENSG00000168883	USP39	1118.03	0.05	4.63E-02
ENSG00000141524	TMC6	6408.38	-0.13	4.63E-02
ENSG00000205639	MFSD2B	139.86	-0.36	4.63E-02
ENSG00000163093	BBS5	51.29	0.23	4.63E-02
ENSG00000086232	EIF2AK1	3156.12	-0.20	4.63E-02
ENSG00000172346	CSDC2	4.46	-1.04	4.64E-02
ENSG00000273320		403.13	-0.32	4.64E-02
ENSG00000262408		46.71	0.31	4.64E-02
ENSG00000101082	SLA2	2621.28	0.24	4.65E-02
ENSG00000211943	IGHV3-15	51.00	0.29	4.66E-02
ENSG00000164211	STARD4	876.42	0.29	4.67E-02
ENSG00000166477	LEO1	280.57	0.15	4.67E-02
ENSG00000241860		127.71	-0.31	4.67E-02
ENSG00000230091	TMEM254-AS1	33.53	-0.24	4.67E-02
ENSG00000160948	VPS28	1978.70	-0.10	4.67E-02
ENSG00000198618	PPIAP22	332.55	0.23	4.67E-02
ENSG00000269946	NA	36.42	-0.26	4.67E-02
ENSG00000102174	PHEX	39.79	-0.24	4.67E-02
ENSG00000196646	ZNF136	830.23	-0.09	4.67E-02
ENSG00000181915	ADO	779.49	0.11	4.67E-02
ENSG00000134590	RTL8C	166.32	0.12	4.67E-02
ENSG00000233836		144.85	-0.14	4.67E-02
ENSG00000105556	MIER2	461.60	0.11	4.68E-02
ENSG00000117691	NENF	234.69	0.12	4.68E-02

ENSG00000268001	CARD8-AS1	515.34	0.14	4.68E-02
ENSG00000060558	GNA15	1366.86	0.30	4.68E-02
ENSG00000055070	SZRD1	3143.18	0.08	4.69E-02
ENSG00000206077	ZDHH11B	99.72	-0.26	4.69E-02
ENSG00000186532	SMYD4	859.84	0.07	4.69E-02
ENSG00000110811	P3H3	59.41	-0.24	4.69E-02
ENSG00000111203	ITFG2	1258.32	-0.08	4.69E-02
ENSG00000008226	DLEC1	301.96	-0.21	4.69E-02
ENSG00000100325	ASCC2	4140.14	-0.23	4.69E-02
ENSG00000273437		88.93	-0.17	4.69E-02
ENSG00000188227	ZNF793	288.75	-0.11	4.69E-02
ENSG00000160991	ORAI2	5151.63	-0.15	4.69E-02
ENSG00000226699		29.85	-0.27	4.69E-02
ENSG00000164104	HMGB2	1652.07	0.24	4.70E-02
ENSG00000196411	EPHB4	202.31	-0.31	4.70E-02
ENSG00000163171	CDC42EP3	3287.84	0.14	4.70E-02
ENSG00000164850	GPB1	10.01	-0.61	4.70E-02
ENSG00000268861	NA	13.16	-0.36	4.70E-02
ENSG00000172469	MANEA	385.02	0.16	4.70E-02
ENSG00000068308	OTUD5	2180.98	-0.08	4.70E-02
ENSG00000200816	SNORA38	18.66	-0.31	4.71E-02
ENSG00000153560	UBP1	2277.52	0.05	4.71E-02
ENSG00000111711	GOLT1B	832.06	0.12	4.72E-02
ENSG00000244482	LILRA6	1562.78	0.23	4.73E-02
ENSG00000185909	KLHDC8B	471.41	0.33	4.73E-02
ENSG00000100483	VCPKMT	512.76	-0.10	4.74E-02
ENSG00000178188	SH2B1	2069.34	-0.07	4.74E-02
ENSG00000173349	SFT2D3	420.68	-0.12	4.74E-02
ENSG00000200063		23.51	-0.28	4.74E-02
ENSG00000279369		1290.70	-0.10	4.74E-02
ENSG00000100319	ZMAT5	390.35	0.10	4.74E-02
ENSG00000165118	C9orf64	194.75	0.11	4.74E-02
ENSG00000110799	VWF	83.08	-0.39	4.75E-02
ENSG00000155324	GRAMD2B	175.52	0.12	4.76E-02
ENSG00000188636	RTL6	845.14	0.10	4.76E-02
ENSG00000213024	NUP62	2151.05	0.20	4.76E-02
ENSG00000124006	OBSL1	47.25	-0.31	4.77E-02
ENSG00000007392	LUC7L	1716.32	-0.07	4.77E-02
ENSG00000153130	SCOC	518.17	0.11	4.77E-02
ENSG00000074590	NUAK1	48.69	0.30	4.77E-02
ENSG00000068097	HEATR6	529.69	0.09	4.77E-02
ENSG00000046604	DSG2	38.57	-0.38	4.77E-02
ENSG00000234432	LINC02983	26.40	-0.26	4.77E-02
ENSG00000278828	H3C10	1151.06	0.23	4.77E-02
ENSG00000158163	DZIP1L	41.69	0.41	4.78E-02
ENSG00000163354	DCST2	16.60	-0.38	4.78E-02
ENSG00000107242	PIP5K1B	217.82	-0.18	4.78E-02
ENSG00000179344	HLA-DQB1	2466.33	-0.14	4.78E-02
ENSG00000176340	COX8A	885.71	0.14	4.78E-02
ENSG00000137501	SYTL2	2428.04	0.13	4.80E-02

ENSG00000054116	TRAPPC3	869.33	0.09	4.80E-02
ENSG00000127870	RNF6	1097.58	0.08	4.81E-02
ENSG00000183077	AFMID	109.04	0.20	4.81E-02
ENSG00000263584	MIR4480	20.20	-0.36	4.81E-02
ENSG00000236021	COP1-DT	36.59	-0.21	4.82E-02
ENSG00000155100	OTUD6B	488.55	0.11	4.82E-02
ENSG00000114503	NCBP2	939.03	0.11	4.82E-02
ENSG00000269902		98.74	0.40	4.82E-02
ENSG00000204524	ZNF805	543.69	-0.13	4.82E-02
ENSG00000164134	NAA15	1849.57	0.09	4.83E-02
ENSG00000160888	IER2	6974.97	0.14	4.84E-02
ENSG00000161265	U2AF1L4	168.28	-0.19	4.85E-02
ENSG00000012171	SEMA3B	82.54	0.22	4.85E-02
ENSG00000198301	SDAD1	934.43	0.08	4.86E-02
ENSG00000120685	PROSER1	982.34	0.08	4.86E-02
ENSG00000276289		18.50	-0.43	4.86E-02
ENSG00000232303	DFFBP1	82.85	-0.16	4.86E-02
ENSG00000147457	CHMP7	4290.58	-0.09	4.86E-02
ENSG00000176946	THAP4	606.26	0.10	4.87E-02
ENSG00000126107	HECTD3	1073.18	0.08	4.87E-02
ENSG00000130368	MAS1	19.48	0.98	4.87E-02
ENSG00000247627	MTND4P12	25.33	-0.32	4.88E-02
ENSG00000269951		48.24	-0.21	4.88E-02
ENSG00000115841	RMDN2	181.56	-0.12	4.88E-02
ENSG00000204625	HCG9	20.11	0.38	4.88E-02
ENSG00000136718	IMP4	796.17	0.09	4.89E-02
ENSG00000111653	ING4	789.06	0.08	4.89E-02
ENSG00000244879	GABPB1-AS1	2399.34	-0.14	4.89E-02
ENSG00000269578		75.81	-0.20	4.89E-02
ENSG00000259158	ADAM20P1	33.93	-0.27	4.90E-02
ENSG00000224769	MUC20P1	33.95	-0.29	4.90E-02
ENSG00000125952	MAX	3918.48	-0.07	4.90E-02
ENSG00000103197	TSC2	1970.62	-0.11	4.90E-02
ENSG00000135093	USP30	300.79	-0.16	4.90E-02
ENSG00000102043	MTMR8	166.85	-0.10	4.90E-02
ENSG00000185361	TNFAIP8L1	958.13	-0.21	4.91E-02
ENSG00000186260	MRTFB	659.04	-0.10	4.91E-02
ENSG00000205181	LINC00654	112.47	-0.24	4.91E-02
ENSG00000178607	ERN1	4096.44	-0.12	4.91E-02
ENSG00000198001	IRAK4	1764.16	0.07	4.93E-02
ENSG00000117586	TNFSF4	148.18	-0.21	4.93E-02
ENSG00000076003	MCM6	1279.51	0.12	4.93E-02
ENSG00000143772	ITPKB	7692.76	-0.08	4.93E-02
ENSG00000104870	FCGRT	3092.99	-0.27	4.93E-02
ENSG00000174953	DHX36	2395.72	0.07	4.93E-02
ENSG00000106153	CHCHD2	2624.46	0.11	4.93E-02
ENSG00000128039	SRD5A3	172.44	0.15	4.94E-02
ENSG00000261971	MMP25-AS1	624.93	-0.17	4.94E-02
ENSG00000224897	POT1-AS1	24.25	-0.26	4.94E-02
ENSG00000214655	ZSWIM8	3746.92	-0.11	4.95E-02

ENSG00000166452	AKIP1	168.58	0.15	4.95E-02
ENSG00000213585	VDAC1	1123.98	0.22	4.96E-02
ENSG00000119682	AREL1	2449.67	-0.09	4.96E-02
ENSG00000104756	KCTD9	751.51	0.07	4.96E-02
ENSG00000029363	BCLAF1	6539.97	-0.13	4.96E-02
ENSG00000235183	SRP14P3	63.77	-0.22	4.97E-02
ENSG00000181163	NPM1	8436.69	-0.10	4.97E-02
ENSG00000218175		28.66	-0.25	4.98E-02
ENSG00000197622	CDC42SE1	15391.66	-0.06	4.98E-02
ENSG00000260425		30.25	-0.24	4.98E-02
ENSG00000263366	ABHD17AP5	29.74	-0.30	4.99E-02
ENSG00000171777	RASGRP4	1595.30	-0.25	5.00E-02
ENSG00000264468	MIR4520-1	24.06	-0.26	5.00E-02
ENSG00000253159	PCDHGA12	18.40	0.30	5.00E-02

Supplementary Table 11**Significant pathways identified using IPA for *BCG: Influenza* (cell-adjusted model).**

Gene filters for IPA analysis: adjusted p ≤0.05

Ingenuity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	z-score	Molecules
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	2.22	6.03E-03	0.028		LEP,MYD88,OAS2,OAS3
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	2.16	6.92E-03	0.045		MYD88,OAS2,OAS3

Significant pathways identified using IPA for BCG (cell-adjusted model)

Gene filters for IPA analysis: adjusted $p \leq 0.01$ and absolute $\log_2$ fold change > 0.5

Ingenuity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	z-score	Molecules
Multiple Sclerosis Signaling Pathway	10.9	1.26E-11	0.224	2.771	C1QA,C1QB,C1QC,C3,CLCF1,CXCL1,CXCL8,DUSP6,FAS,GRIN3A,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,IFNGR1,IL12B,IL13,IL1B,IL2,IL2RA,IL36G,LI,LT,MAPK13,MMP9,NLRP12,NLRP3,P2RX4,PARP11,PARP15,PARP3,PPARG,STAT1,TLR7,TLR8,TLR9,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
Pathogen Induced Cytokine Storm Signaling Pathway	8.76	1.74E-09	0.170	-0.525	C3,CD163,CITA,CKLF,CLCF1,COL19A1,COL1A1,COL7A1,CXCL1,CXCL10,CXCL2,CXCL3,CXCL6,CXCL8,CXCR3,FTH1,GSDMD,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HMGR,IFNGR1,IL12B,IL13,IL1B,IL1R1,IL1RL2,IL2,IL36G,IRF9,LI,LT,MAPK13,MAPK6,NLRC3,NLRC4,NLRP12,NLRP3,NOD1,SOC3,STAT1,STAT3,STX11,TLR7,TLR8,TLR9,TNFRSF10B,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9,TRADD
Macrophage Classical Activation Signaling Pathway	7.45	3.55E-08	0.206	2.137	CITA,CLCF1,CXCL10,CXCL8,GBP2,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,IFNGR1,IL12B,IL13,IL1B,IL2,IL36G,IRAK1,IRF8,IRF9,LI,LT,MERTK,PPARG,SOC1,SOC3,STAT1,STAT2,STAT3,TLR9,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	5.86	1.38E-06	0.205	-0.258	C1QA,C1QB,C1QC,C3,C5AR1,CLCF1,CXCL8,IL12B,IL13,IL1B,IL2,IL36G,LI,LT,NLRC4,NLRP3,NOD1,OAS1,OAS3,PIK3C2B,PIK3R5,PRKC1,TLR7,TLR8,TLR9,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
TREM1 Signaling	5.8	1.58E-06	0.278	-1.342	AKT3,CITA,CXCL3,CXCL8,FCGR2B,IL1B,IRAK1,ITGA5,ITGB1,LAT2,NLRC3,NLRC4,NLRP12,NLRP3,NOD1,STAT3,TLR7,TLR8,TLR9,TREM1
Th1 and Th2 Activation Pathway	5.23	5.89E-06	0.186		ACVR1,ACVR1B,ACVR2A,CD28,CD4,CXCR3,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,ICOS,IFNGR1,IKZF1,IL12B,IL13,IL2,IL27,IL2RA,JAK3,LT,NOTCH3,PIK3C2B,PIK3R5,SOC1,SOC3,STAT1,STAT3
Th1 Pathway	5.23	5.89E-06	0.214	2.4	CD28,CD4,CXCR3,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,ICOS,IFNGR1,IL12B,IL2,IL27,JAK3,LT,NOTCH3,PIK3C2B,PIK3R5,SOC1,SOC3,STAT1,STAT3
Cardiac Hypertrophy Signaling (Enhanced)	5.01	9.77E-06	0.125	-1.941	ACE,ACVR1,ACVR1B,ACVR2A,AKT3,CACNA2D3,CACNG6,CLCF1,CXCL8,EDNRB,EIF4E,FGFR1,FGFR1,GN12,GN15,GNB5,GNNG7,HDAC4,HDAC6,IFNLR1,IL12B,IL13,IL1B,IL1R1,IL1RL2,IL2,IL2RA,IL31RA,IL36G,IL9R,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,LI,LT,MAP3K12,MAP3K20,MAP3K3,MAP3K4,MAP3K5,MAPK13,MEF2C,MKNK1,MPPE1,NFAT5,PDE6B,PKD1,PIK3C2B,PIK3R5,PLCB3,PLCL2,PLD6,PRKC1,PTK2,RALA,RAP1A,SMPD3A,STAT3,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
Antigen Presentation Pathway	4.68	2.09E-05	0.342		CD74,CITA,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,TAP2
Caveolar-mediated Endocytosis Signaling	4.34	4.57E-05	0.240		ABL1,ACTA2,CAVIN1,COPG2,DNM2,DYRK3,FLNA,FLNB,FYN,HLA-C,HLA-G,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,PTPN1
Role Of Osteoblasts In Rheumatoid Arthritis Signaling Pathway	3.95	1.12E-04	0.152	-0.174	AKT3,BCL2,CLCF1,COL1A1,CTSL,CXCL8,IL12B,IL13,IL1B,IL2,IL36G,JAK3,LEF1,LI,LT,MAPK13,MMP10,MMP14,MMP19,MMP9,PIK3C2B,PIK3R5,SMAD1,SMAD6,SMURF2,STAT1,STAT2,STAT3,TCF7,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
IL-4 Signaling	3.87	1.35E-04	0.211		AKT3,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HMGA1,JAK3,NFAT5,NR3C1,PIK3C2B,PIK3R5,RALA,RAP1A,SOC1,SYNJ2
Wound Healing Signaling Pathway	3.87	1.35E-04	0.147	-1.859	ACTA2,ACVR1,ACVR1B,ACVR2A,CLCF1,COL19A1,COL1A1,COL7A1,CXCL1,IFNGR1,IL12B,IL13,IL1B,IL1R1,IL1RL2,IL2,IL36G,ITGA6,ITGB1,LAMB3,LI,LT,MAPK13,MMP10,MMP14,MMP19,MMP9,PDGFB,RALA,RAP1A,STAT1,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9,TRADD
Th2 Pathway	3.87	1.35E-04	0.180	2.138	ACVR1,ACVR1B,ACVR2A,CD28,CD4,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,ICOS,IKZF1,IL12B,IL13,IL2,IL2RA,JAK3,NOTCH3,PIK3C2B,PIK3R5,SOC3
Granulocyte Adhesion and Diapedesis	3.69	2.04E-04	0.161		ACKR3,C5AR1,CCR2,CDH5,CKLF,CLDN7,CXCL1,CXCL10,CXCL2,CXCL3,CXCL6,CXCL8,CXCR3,HRH1,IL1B,IL1R1,IL1RL2,IL36G,ITGB1,MMP1,MMP10,MMP14,MMP19,MMP9,SDC2,SDC4,SELL,SELP,ELPLG
Axonal Guidance Signaling	3.5	3.16E-04	0.116		ABL1,ABLIM1,ACE,ADAM10,ADAM17,ADAM19,ADAM32,ADAM9,ADAMTS10,ADAMTS17,AKT3,CRK,EFNB1,EFNB2,EIF4E,EPHA4,FES,FYN,GN12,GN15,GNAL,GNAO1,GNB5,GNNG7,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,KIF7,MET,MKNK1,MMP1,MMP10,MMP14,MMP9,NFAT5,NRP1,PDGFB,PIK3C2B,PIK3R5,PLCB3,PLCL2,PRKC1,PTK2,RALA,RAP1A,RG3S,ROBO3,SDC2,SEMA3C,SEMA3G,SEMA4C,SEMA6B,SRGAP1,TUBA1C
Interferon Signaling	3.5	3.16E-04	0.306	1	BCL2,IFI35,IFI6,IFITM1,IFNGR1,IRF9,MED14,OAS1,SOC1,STAT1,STAT2
Ephrin Receptor Signaling	3.42	3.80E-04	0.149	-2.837	ABL1,ADAM10,AKT3,CRK,EFNB1,EFNB2,EPHA4,FYN,GN12,GN15,GNAL,GNAO1,GNB5,GNNG7,GRIN3A,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,PDGFB,PTK2,PTPN13,RALA,RAP1A,RAPGEF1,RG3S,SDC2,STAT3
MSP-ROn Signaling In Macrophages Pathway	3.42	3.80E-04	0.181	-1.964	CITA,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,IFNGR1,IL12B,PIK3C2B,PIK3R5,RALA,RAP1A,SBNO2,SOC1,SOC3,ST14,STAT1,STAT3

Agranulocyte Adhesion and Diapedesis	3.38	4.17E-04	0.150		ACKR3,ACTA2,C5AR1,CCR2,CDH5,CKLF,CLDN7,CXCL1,CXCL10,CXCL2,CXCL3,CXCL6,CXCL8,CXCR3,HRH1,IL1B,IL1R1,IL36G,ITGA5,ITGB1,MMP1,MMP10,MMP14,MMP19,MMP9,MYO10,SDC4,SELL,SELP1G
Death Receptor Signaling	3.2	6.31E-04	0.191	1.414	ACTA2,BCL2,BIRC2,CASP10,CASP2,CRADD,DIABLO,FAS,LMNA,MAP3K5,PARP11,PARP15,PARP3,TNFRSF10A,TNFRSF10B,TNFRSF25,TNFSF10,TRADD
HMGB1 Signaling	3.2	6.31E-04	0.157	-0.728	AKT3,CLCF1,CXCL8,IFNGR1,IL12B,IL13,IL1B,IL1R1,IL2,IL36G,KAT7,LIF,LT,MAPK13,PIK3C2B,PIK3R5,RALA,RAP1A,RHOF,SERPINE1,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
Neuroinflammation Signaling Pathway	3.14	7.24E-04	0.127	-0.174	ACVR1,ACVR1B,ACVR2A,AKT3,BACE1,BCL2,BIRC2,CXCL10,CXCL8,FAS,GRIN3A,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,IFNGR1,IL12B,IL1B,IL1R1,IRAK1,JAK3,MAPK13,MAPK6,MMP9,NFAT5,NLRP3,PIK3C2B,PIK3R5,SLC6A12,STAT1,TLR7,TLR8,TLR9
Osteoarthritis Pathway	3.14	7.24E-04	0.138	-1.706	ANKH,ANXA5,CASP10,CASP2,CXCL8,FGFR1,HDAC4,HTRA1,IL1B,IL1R1,IL1RL2,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,LEF1,MEF2C,MMP1,MMP10,MMP9,PPARG,S100A9,S1PR3,SDC4,SLC39A8,SMAD1,SMAD6,SMAD7,SPHK1,TCF7
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	3.08	8.32E-04	0.200	1	CXCL10,CXCL3,CXCL8,IFNLR1,IL12B,IL13,IL1B,IL36G,IRF9,NLRP3,OAS1,OAS3,STAT1,STAT2,TLR7,TLR9
Type I Diabetes Mellitus Signaling	2.93	1.17E-03	0.125	-1.069	BCL2,CD28,FAS,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,HSPD1,IFNGR1,IL12B,IL1B,IL1R1,IL2,IRAK1,LT,MAPK3K5,MAPK13,SOC51,SOC52,SOC53,STAT1,TRADD,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ2-7,TRGC1,TRGC2,TRGP2
Complement System	2.91	1.23E-03	0.278	-1.265	C1QA,C1QB,C1QC,C3,C4BPA,C5AR1,CD46,CFB,CFH,SERPING1
Role of JAK1 and JAK3 in γ c Cytokine Signaling	2.86	1.38E-03	0.209		FES,IL2,IL2RA,IL9R,JAK3,PIK3C2B,PIK3R5,PTK2B,RALA,RAP1A,SOC51,SOC53,STAT1,STAT3
HGF Signaling	2.8	1.58E-03	0.160	-1.5	AKT3,ELK3,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,MAP3K12,MAP3K3,MAP3K4,MAP3K5,MET,PIK3C2B,PIK3R5,PRKCI,PTK2,RALA,RAP1A,RAPGEF1,STAT3
Glucocorticoid Receptor Signaling	2.6	2.51E-03	0.105		AKT3,ANXA1,ARG2,BCL2,CD163,CXCL3,CXCL8,DNAH1,FKBP4,GF2A2,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,HSP90AA1,HSPA4,IFNLR1,IL13,IL1B,IL1R1,IL1RL2,IL2,IL2RA,IL31RA,IL9R,JAK3,KRT86,MAPK13,MED14,MMP1,MMP9,NCOR2,NDUFS5,NDUFV1,NFAT5,NR3C1,PIK3C2B,PIK3R5,PPARG,PTGES3,RALA,RAP1A,RXRA,SERPINE1,STAT1,STAT3,TAF13,TAF4,TAF4B,VIPR1
Leukocyte Extravasation Signaling	2.54	2.88E-03	0.138	-2.041	ABL1,ACTA2,CD44,CDH5,CLDN7,CRK,CTNND1,ITGB1,ITK,MAP3K4,MAPK13,MMP1,MMP10,MMP14,MMP19,MMP9,PIK3C2B,PIK3R5,PRKCI,PTK2,PTK2B,RAP1A,SELP1G,TEC,TIMP1,VAV3
T Cell Receptor Signaling	2.54	2.88E-03	0.113	0.949	AKT3,CD28,CD4,DUSP6,FYB1,FYN,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,ICOS,IL2,ITGB1,ITK,LEF1,MALT1,MAPK13,NFAT5,PKI1,PIK3C2B,PIK3R5,PTK2B,PTPN7,RALA,RAP1A,TCF7,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ2-7,TRGC1,TRGC2,TRGP2,VAV3
IL-17 Signaling	2.54	2.88E-03	0.140	-1	AKT3,CLCF1,CXCL1,CXCL3,CXCL8,HSP90AA1,IL12B,IL13,IL1B,IL2,IL36G,LIF,LT,MAPK13,MMP9,PIK3C2B,PIK3R5,RALA,RAP1A,SRF1,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
Pulmonary Fibrosis Idiopathic Signaling Pathway	2.54	2.88E-03	0.118	-3.124	ACTA2,ACVR1,ACVR1B,ACVR2A,ADAM10,AKT3,BCL2,COL19A1,COL1A1,COL7A1,EFNB2,FGFR1,FGFRL1,GNA12,IL13,IL1B,ITGAV,ITGB1,LEF1,MAPK13,MMP1,MMP10,MMP14,MMP19,MMP9,MUC1,NOTCH3,PDGFB,PIK3C2B,PIK3R5,PTK2,PTK2B,RALA,RAP1A,SERPINE1,STAT3,TCF7,TP53
IL-15 Production	2.5	3.16E-03	0.158	-1.606	ABL1,DDR1,DYRK3,DYRK4,EPHA4,ERBB3,FES,FGFR1,FYN,ITK,JAK3,MERTK,MET,PRKCI,PTK2,PTK2B,STAT1,TEC,TYRO3
T Cell Exhaustion Signaling Pathway	2.45	3.55E-03	0.114	0.229	ACVR1,ACVR1B,ACVR2A,AKT3,BATF,CD28,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,IL12B,IRF9,JAK3,MGAT5,NFAT5,PKI1,PIK3C2B,PIK3R5,PTPA,RALA,RAP1A,STAT1,STAT2,STAT3,TCF7,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ2-7,TRGC1,TRGC2,TRGP2
Coronavirus Pathogenesis Pathway	2.43	3.72E-03	0.134	-1.877	ABL1,ACE,ADAM17,ADAM9,BCL2,CCR2,CTSL,CXCL8,E2F6,E1F4E,FURIN,HDAC4,HDAC6,IL1B,IRF9,MAPK13,NLRP3,OAS1,OAS3,SERPINE1,STAT1,STAT2,STAT3,TLR7,TP53,ZC3HAV1
TEC Kinase Signaling	2.43	3.72E-03	0.112	-0.655	ACTA2,FAS,FYN,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,ITK,JAK3,PIK3C2B,PIK3R5,PRKCI,PTK2,PTK2B,RHOF,STAT1,STAT2,STAT3,TEC,TNFRSF10A,TNFRSF10B,TNFRSF25,TNFSF10,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ2-7,TRGC1,TRGC2,TRGP2,VAV3
Airway Pathology in Chronic Obstructive Pulmonary Disease	2.43	3.72E-03	0.159		CLCF1,CXCL1,CXCL3,CXCL8,IL12B,IL13,IL1B,IL2,IL36G,LIF,LT,MAPK13,MMP9,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
STAT3 Pathway	2.34	4.57E-03	0.148	-2	BCL2,FGFR1,IFNLR1,IL1B,IL1R1,IL1RL2,IL2RA,IL31RA,IL9R,MAP3K12,MAP3K20,MAPK13,PDGFB,RALA,RAP1A,SOC51,SOC52,SOC53,STAT3,TNFRSF11A
TGF- β Signaling	2.34	4.57E-03	0.167	-0.535	ACVR1,ACVR1B,ACVR2A,BCL2,MAPK13,PMEP1A,RALA,RAP1A,SERPINE1,SKI,SMAD1,SMAD6,SMAD7,SMURF2,TGIF1,VDR
Paxillin Signaling	2.33	4.68E-03	0.160	-1.941	ACTA2,ARF6,CRK,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,MAPK13,PIK3C2B,PIK3R5,PTK2,PTK2B,PTPN12,RALA,RAP1A

Erythropoietin Signaling Pathway	2.28	5.25E-03	0.137	-1.877	AKT3,BIRC2,CLCF1,CXCL8,IL12B,IL13,IL1B,IL2,IL36G,LIF,LTA,PIK3C2B,PIK3R5,PRKCI,RALA,RAP1A,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9,TP53,TRPC3
Role Of Osteoclasts In Rheumatoid Arthritis Signaling Pathway	2.23	5.89E-03	0.116	-2.785	ADAM10,ADAM17,ADAM19,ADAM32,ADAM9,AKT3,BCL2,BIRC2,COL19A1,COL1A1,COL7A1,FCGR2B,FCGR2C,IL1B,IL1R1,IL1RL2,ITGA5,MAP3K5,MAPK13,MMP1,MMP10,MMP14,MMP19,MMP9,PIK3C2B,PIK3R5,PTK2B,PTPN1,RALA,RAP1A,RHOF,TEC,TNFRSF11A,VAV3
Inhibition of Matrix Metalloproteases	2.23	5.89E-03	0.237	1.414	ADAM10,ADAM17,MMP1,MMP10,MMP14,MMP19,MMP9,SDC2,TIMP1
Natural Killer Cell Signaling	2.18	6.61E-03	0.130	-1	AKT3,COL1A1,FYN,HLA-C,HLA-G,HSPA4,IL12B,IL2,ITGB1,JAK3,LAIR1,MAP3K12,MAP3K3,MAP3K4,MAP3K5,MAPK13,NFAT5,PIK3C2B,PIK3R5,PTK2B,PVR,RALA,RAP1A,TNFSF10,VAV3
Acute Phase Response Signaling	2.13	7.41E-03	0.130	-1.698	AKT3,C1QA,C1QB,C1QC,C3,C4BPA,CFB,HMOX2,IL1B,IL1R1,IL36G,IRAK1,MAP3K5,MAPK13,NR3C1,RALA,RAP1A,SERPINE1,SERPING1,SOCS1,SOCS2,SOCS3,STAT3,TRADD
Hepatic Cholestasis	2.1	7.94E-03	0.130		ABCB1,ATP8B1,CLCF1,CXCL8,IL12B,IL13,IL1B,IL1R1,IL1RL2,IL2,IL36G,IRAK1,LIF,LTA,MAP3K4,NR1H2,PRKCI,RXRA,SLC4A2,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9
Virus Entry via Endocytic Pathways	2.08	8.32E-03	0.155		ABL1,ACTA2,AP1S2,DNM2,FLNA,FLNB,FYN,HLA-C,HLA-G,ITGA5,ITGB1,PIK3C2B,PIK3R5,PRKCI,RALA,RAP1A
CTLA4 Signaling in Cytotoxic T Lymphocytes	2.08	8.32E-03	0.108	-0.164	AHR,AKT3,AP1S2,CD28,FYB1,FYN,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,IL2,ITGB1,ITK,MALT1,MAPK13,NFAT5,PIK3C2B,PIK3R5,PLD3,PLD6,PTPA,RALA,RAP1A,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ1-7,TRGC1,TRGC2,TRGJP2,VAV3
PEDF Signaling	2.08	8.32E-03	0.167	-1.069	AKT3,ARHGAP22,BCL2,FAS,MAPK13,PIK3C2B,PIK3R5,PPARG,RALA,RAP1A,TCF12,TCF7,TP53,ZEB1
Cholesterol Biosynthesis I	2.07	8.51E-03	0.385	-1.342	CYP51A1,EBP,MSMO1,SC5D,SQLE
Cholesterol Biosynthesis II (via 24,25-dihydrolanosterol)	2.07	8.51E-03	0.385	-1.342	CYP51A1,EBP,MSMO1,SC5D,SQLE
Cholesterol Biosynthesis III (via Desmosterol)	2.07	8.51E-03	0.385	-1.342	CYP51A1,EBP,MSMO1,SC5D,SQLE
Dendritic Cell Maturation	2.07	8.51E-03	0.106	1.616	AKT3,CD58,COL1A1,FCGR2B,FCGR2C,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,IL12B,IL1B,IL1RL2,IL32,IL36G,IRF8,LTA,LY75,MAPK13,PIK3C2B,PIK3R5,PLC3,PLC2,STAT1,STAT2,TLR9,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ1-7,TRGC1,TRGC2,TRGJP2
Purine Ribonucleosides Degradation to Ribose-1-phosphate	2.05	8.91E-03	0.500		ADA2,LACC1,PGM2L1,PNP
Neuregulin Signaling	2.05	8.91E-03	0.148	-2.333	ADAM17,AKT3,CDK5R1,CRK,ERBB3,EREG,ERRF1,HSP90AA1,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,PRKCI,RALA,RAP1A
Hepatic Fibrosis / Hepatic Stellate Cell Activation	2.02	9.55E-03	0.126		ACTA2,BCL2,COL19A1,COL1A1,COL7A1,CXCL3,CXCL8,CXCR3,EDNRB,FAS,FGFR1,IFNGR1,IL1B,IL1R1,IL1RL2,MET,MMP1,MMP9,MYO10,PDGFB,SERPINE1,SMAD7,STAT1,TIMP1
Hepatic Fibrosis Signaling Pathway	2	1.00E-02	0.104	-2.137	ACTA2,ACVR1,ACVR1B,ACVR2A,AKT3,BCL2,CACNA2D3,CACNG6,CCDC88A,COL1A1,CXCL8,FGFR1,FTH1,IL1B,IL1R1,IL1RL2,IL36G,IRAK1,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,LEF1,MAPK13,MMP1,PDGFB,PK1,PIK3C2B,PIK3R5,PPARG,PRKCI,PTK2,RALA,RAP1A,RHOF,SERPINE1,SMAD7,STAT3,TCF7,TIMP1,TRADD
Sphingosine-1-phosphate Signaling	1.98	1.05E-02	0.145	-2.324	ACER3,AKT3,ASAH1,CASP10,CASP2,GNA12,PDGFB,PIK3C2B,PIK3R5,PLC3,PLC2,PTK2,PTK2B,RHOF,S1PR3,SMPD3,SPHK1
Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway	1.98	1.05E-02	0.125	-2.041	AKT3,DOCK10,FGFR1,FGFRL1,JAK3,LTA,MAPK13,MET,MMP1,MMP9,PAR6G,PDGFB,PIK3C2B,PIK3R5,RALA,RAP1A,STAT3,TNFSF10,TNFSF13B,TNFSF14,TNFSF8,TNFSF9,ZEB1,ZEB2
Role of IL-17A in Psoriasis	1.96	1.10E-02	0.357	-2.236	CXCL1,CXCL3,CXCL6,CXCL8,S100A9
Colanic Acid Building Blocks Biosynthesis	1.96	1.10E-02	0.357	1.342	GALK1,GALT,GMDS,MPI,UGDH
IL-9 Signaling	1.96	1.10E-02	0.229	0.378	IL9R,JAK3,PIK3C2B,PIK3R5,SOCS2,SOCS3,STAT1,STAT3
Systemic Lupus Erythematosus In T Cell Signaling Pathway	1.94	1.15E-02	0.103	1.768	AKT3,CASP10,CASP2,CD28,CD44,CREM,FAS,GNA12,HLA-C,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,HLA-G,ICOS,IL12B,IL2,PK1,PIK3C2B,PIK3R5,PTK2,PTPA,RALA,RAP1A,RHOF,S1PR3,SELPLG,STAT3,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ1-7,TRGC1,TRGC2,TRGJP2
Superpathway of Cholesterol Biosynthesis	1.92	1.20E-02	0.250	-1.134	CYP51A1,EBP,HADHA,HMGCR,MSMO1,SC5D,SQLE

Role of NFAT in Regulation of the Immune Response	1.9	1.26E-02	0.104	0	AKAP5,AKT3,CD28,CD4,FCGR2B,FCGR2C,FYN,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,ITK,KPNA1,MEF2C,NFAT5,PIK3C2B,PIK3R5,PLCB3,RALA,RAP1A,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ1-7,TRGC1,TRGC2,TRGJP2
Crosstalk between Dendritic Cells and Natural Killer Cells	1.86	1.38E-02	0.154	2.53	ACTA2,CD209,CD28,CD69,FAS,HLA-C,HLA-DRB1,HLA-G,IL12B,IL2,LTA,TLR7,TLR9,TNFSF10
Sperm Motility	1.85	1.41E-02	0.115	-0.816	ABHD3,ABL1,CACNA1G,DDR1,DYRK3,DYRK4,EPHA4,ERBB3,FES,FGFR1,FYN,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,ITK,JAK3,MERTK,MET,PLCB3,PLCL2,PRKCI,PTK2,PTK2B,TEC,TYRO3
B Cell Development	1.84	1.45E-02	0.216		HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1
JAK/STAT Signaling	1.84	1.45E-02	0.159	-0.832	AKT3,JAK3,PIK3C2B,PIK3R5,PTPN1,RALA,RAP1A,SOC1,SOC2,SOC3,STAT1,STAT2,STAT3
Epithelial Adherens Junction Signaling	1.8	1.58E-02	0.128	-0.894	ACVR1,ACVR1B,ACVR2A,AKT3,CRK,CTNND1,FGFR1,FYN,LEF1,MET,NECTIN3,NOTCH3,PTPA,RACGAP1,RALA,RAP1A,RAPGEF1,TCF7,YWHA, YWHAG
Arsenate Detoxification I (Glutaredoxin)	1.78	1.66E-02	0.600		GSTO1,LACC1,PNP
RAC Signaling	1.72	1.91E-02	0.131	-2.496	ABI2,CD44,CDK5R1,ITGA5,ITGA6,ITGA7,ITGA9,ITGAV,ITGB1,PIK3C2B,PIK3R5,PIP4K2B,PRKCI,PTK2,PTK2B,RALA,RAP1A,SH3RF1
IL-8 Signaling	1.67	2.14E-02	0.117	-2.065	AKT3,BCL2,CXCL1,CXCL8,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,IRAK1,ITGAV,MMP9,PIK3C2B,PIK3R5,PLD3,PLD6,PRKCI,PTK2,PTK2B,RAB11FIP2,RALA,RAP1A,RHOF
PKCθ Signaling in T Lymphocytes	1.61	2.45E-02	0.102	1.342	CACNA1G,CACNA2D3,CACNG6,CD28,CD4,FYN,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1, IL2, MALT1, MAP3K12, MAP3K3,MAP3K4,MAP3K5,NFAT5,PIK3C2B,PIK3R5,RALA,RAP1A,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ1-7,TRGC1,TRGC2,TRGJP2,VAV3
Human Embryonic Stem Cell Pluripotency	1.61	2.45E-02	0.123		ACVR1,AKT3,FGFR1,FGFR1L,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,LEF1,PDGFB,PIK3C2B,PIK3R5,S1PR3,SMAD1,SMAD6,SMAD7,SPHK1,TCF7
p38 MAPK Signaling	1.58	2.63E-02	0.133	-1.069	ATF1,DUSP10,EEF2K,FAS,IL1B,IL1R1,IL1RL2,IL36G,IRAK1,MAP3K5,MAPK13,MEF2C,MKNK1,STAT1,TP53,TRADD
Xanthine and Xanthosine Salvage	1.58	2.63E-02	1.000		LACC1,PNP
IL-2 Signaling	1.5	3.16E-02	0.164	-0.632	AKT3,IL2,IL2RA,JAK3,PIK3C2B,PIK3R5,PTK2B,RALA,RAP1A,SOC1
Prolactin Signaling	1.5	3.16E-02	0.143	-1.155	FYN,NR3C1,PIK3C2B,PIK3R5,PRKCI,RALA,RAP1A,SOC1,SOC2,SOC3,STAT1,STAT3,TCF7
G Protein Signaling Mediated by Tubby	1.48	3.31E-02	0.186		ABL1,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,PLCB3
HIF1α Signaling	1.46	3.47E-02	0.113	-2.711	AKT3,EGLN1,EIF4E,ELOC,HSP90AA1,HSPA4,MET,MKNK1,MMP1,MMP10,MMP14,MMP19,MMP21,NAA10,PDGFB,PIK3C2B,PIK3R5,PRKCI,RALA,RAP1A,SERPINE1,STAT3,TP53
Ephrin B Signaling	1.46	3.47E-02	0.153	-1.667	EFNB1,EFNB2,GNA12,GNA15,GNAL,GNAO1,GNB5,GNNG7,PTK2,RGS3,VAV3
IGF-1 Signaling	1.43	3.72E-02	0.135	-2.309	AKT3,GRB10,PIK3C2B,PIK3R5,PRKCI,PTK2,RALA,RAP1A,SOC1,SOC2,SOC3,STAT3,YWHA, YWHAG
IL-7 Signaling Pathway	1.43	3.72E-02	0.151	-0.905	AKT3,BCL2,FYN,JAK3,MAPK13,MET,PIK3C2B,PIK3R5,PTK2,SOC1,STAT1
Role of Osteoblasts, Osteoclasts and Chondrocytes in Rheumatoid Arthritis	1.41	3.89E-02	0.110		ADAM17,AKT3,BCL2,BIRC2,COL1A1,DKK3,IL1B,IL1R1,IL1RL2,IL36G,ITGA5,LEF1,MAP3K5,MMP1,MMP14,NFAT5,PIK3C2B,PIK3R5,PTK2B,SMAD1,SMAD6,TCF7,TNFRSF11A,TRADD
Xenobiotic Metabolism General Signaling Pathway	1.41	3.89E-02	0.123	-1	AHR,AKT3,GSTK1,GSTO1,MAP3K12,MAP3K3,MAP3K4,MAP3K5,MAPK13,NQO1,NR1H2,PIK3C2B,PIK3R5,PRKCI,RALA,RAP1A,RXRA
IL-6 Signaling	1.38	4.17E-02	0.125	-2.5	ABCB1,AKT3,COL1A1,CXCL8,IL1B,IL1R1,IL1RL2,IL36G,MAPK13,PIK3C2B,PIK3R5,RALA,RAP1A,SOC1,SOC3,STAT3
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis	1.38	4.17E-02	0.100		AKT3,C5AR1,CXCL8,DKK3,GNAO1,IL1B,IL1R1,IL1RL2,IL36G,IRAK1,LEF1,LTA,MMP1,NFAT5,PDGFB,PIK3C2B,PIK3R5,PLCB3,PLCL2,PRKCI,RALA,RAP1A,SOC1,SOC3,STAT3,TCF7,TLR7,TLR8,TLR9,TNFSF13B,TRADD

Adenine and Adenosine Salvage III	1.38	4.17E-02	0.429		ADA2,LACC1,PNP
Role Of Chondrocytes In Rheumatoid Arthritis Signaling Pathway	1.36	4.37E-02	0.121	-1.698	CXCL8,IL1B,IL1R1,IL1RL2,IL36G,IRAK1,ITGA5,ITGB1,LTA,MAPK13,MMP1,MMP10,MMP14,MMP19,MMP9,NLRP3,STAT3
PDGF Signaling	1.35	4.47E-02	0.140	-1.155	ABL1,CRK,JAK3,PDGFB,PIK3C2B,PIK3R5,RALA,RAP1A,SPHK1,STAT1,STAT3,SYNJ2
Xenobiotic Metabolism Signaling	1.34	4.57E-02	0.103		ABCB1,AHR,ALDH1A2,ALDH4A1,CAT,CES4A,GSTK1,GSTO1,HDAC4,HS3ST1,HSP90AA1,IL1B,MAP3K12,MAP3K3,MAP3K4,MAP3K5,MAPK13,NCOR2,NQO1,PIK3C2B,PIK3R5,PRKC1,PTGES3,PTPA,RALA,RAP1A,RXRA,SULT1B1
UVA-Induced MAPK Signaling	1.34	4.57E-02	0.134	-0.378	MAPK13,PARP11,PARP15,PARP3,PIK3C2B,PIK3R5,PLCB3,PLCL2,RALA,RAP1A,SMPD3,STAT1,TP53
Altered T Cell and B Cell Signaling in Rheumatoid Arthritis	1.31	4.90E-02	0.101		CD28,FAS,HLA-DMA,HLA-DMB,HLA-DOB,HLA-DPA1,HLA-DPB1,HLA-DQB1,HLA-DQB2,HLA-DRB1,IL12B,IL1B,IL2,IL36G,LTA,TLR7,TLR8,TLR9,TNFSF13B,TRAJ25,TRBJ1-2,TRBJ1-3,TRBJ1-4,TRBJ1-5,TRBJ1-6,TRBJ2-7,TRGC1,TRGC2,TRGJP2

Supplementary Table 13

Significant pathways identified using IPA for *Influenza* (cell-adjusted model).

Gene filters for IPA analysis: adjusted p ≤ 0.01 and absolute log2 fold change >0.5

Ingenuity Canonical Pathways	log(B-H p-value)	adj. p	Ratio	z-score	Molecules
Systemic Lupus Erythematosus In B Cell Signaling Pathway	23.6	2.51E-24	0.127	3.638	FASLG,IFIH1,IFIT2,IFIT3,IGHA1,IGHG1,IGHG2,IGHG4,IGHV1-46,IGHV3-11,IGHV3-73,IGHV6-1,IGKC,IGKV1-12,IGKV1-16,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV3D-20,IGKV4-1,IGKV6-21,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-11,IGLV2-18,IGLV2-8,IGLV3-1,IGLV3-10,IGLV3-19,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,IRF7,ISG15,LEP,LIF,LILRB4,STAT1,STAT2,TLR3,TLR7,TNFSF10,TNFSF13B
IL-15 Signaling	21.8	1.58E-22	0.162		GZMB,IGHA1,IGHG1,IGHG2,IGHG4,IGHV1-46,IGHV3-11,IGHV3-73,IGHV6-1,IGKC,IGKV1-12,IGKV1-16,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV3D-20,IGKV4-1,IGKV6-21,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-11,IGLV2-18,IGLV2-8,IGLV3-1,IGLV3-10,IGLV3-19,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61
Communication between Innate and Adaptive Immune Cells	17	1.00E-17	0.106		CD80,CXCL10,IGHA1,IGHG1,IGHG2,IGHG4,IGHV1-46,IGHV3-11,IGHV3-73,IGHV6-1,IGKC,IGKV1-12,IGKV1-16,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV3D-20,IGKV4-1,IGKV6-21,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-11,IGLV2-18,IGLV2-8,IGLV3-1,IGLV3-10,IGLV3-19,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,CHAIN,TLR3,TLR7,TNFRSF17,TNFSF13B
B Cell Receptor Signaling	16.4	3.98E-17	0.117		IGHA1,IGHG1,IGHG2,IGHG4,IGHV1-46,IGHV3-11,IGHV3-73,IGHV6-1,IGKC,IGKV1-12,IGKV1-16,IGKV1-17,IGKV1-27,IGKV1-39,IGKV1-5,IGKV1-6,IGKV1-9,IGKV1D-13,IGKV1D-39,IGKV2-30,IGKV3-15,IGKV3-20,IGKV3D-20,IGKV4-1,IGKV6-21,IGLC2,IGLC3,IGLV1-40,IGLV1-44,IGLV1-47,IGLV2-11,IGLV2-18,IGLV2-8,IGLV3-1,IGLV3-10,IGLV3-19,IGLV3-21,IGLV3-25,IGLV5-45,IGLV6-57,IGLV7-46,IGLV8-61,CHAIN
Kinetochore Metaphase Signaling Pathway	7.88	1.32E-08	0.159	2	AURKB,BIRC5,BUB1,CDC20,CDK1,CENPA,ESPL1,KIF2C,NEK2,NUF2,PLK1,PTTG1,SKA1,SPC24,SPC25,TTK,ZWINT
Role of Hypercytokinemia/hyperchemokine in the Pathogenesis of Influenza	7.88	1.32E-08	0.188	3.873	CXCL10,DDX58,EIF2AK2,IFIT2,IFIT3,IRF7,ISG15,MX1,OAS1,OAS2,OAS3,STAT1,STAT2,TLR3,TLR7
Interferon Signaling	6.71	1.95E-07	0.278	3.162	IFI35,IFI3,IFIT1,IFITM1,IFITM3,ISG15,MX1,OAS1,STAT1,STAT2
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	6.71	1.95E-07	0.123	3	C1QA,C1QB,C1QC,DDX58,EIF2AK2,FASLG,IFIH1,IRF7,LEP,LIF,OAS1,OAS2,OAS3,PTX3,TLR3,TLR7,TNFSF10,TNFSF13B
Pathogen Induced Cytokine Storm Signaling Pathway	6.29	5.13E-07	0.079	2.294	AIM2,CCL8,CCR1,CCR5,COL13A1,COL17A1,COL4A3,COL4A4,CXCL10,CXCL11,CXCL2,DDX58,DHX58,FASLG,GZMB,IFIH1,IL1R2,IL1RAP,IRF7,LEP,LIF,STAT1,TLR3,TLR7,TNFSF10,TNFSF13B,ZBP1
Multiple Sclerosis Signaling Pathway	3.75	1.78E-04	0.081	4.123	C1QA,C1QB,C1QC,FASLG,GRIN2D,GRIN3A,LEP,LIF,PARP12,PARP14,PARP9,RNF213,STAT1,TLR3,TLR7,TNFSF10,TNFSF13B
Activation of IRF by Cytosolic Pattern Recognition Receptors	3.48	3.31E-04	0.143	1.667	DDX58,DHX58,IFIH1,IFIT2,IRF7,ISG15,STAT1,STAT2,ZBP1
Primary Immunodeficiency Signaling	3.33	4.68E-04	0.157		IGHA1,IGHG1,IGHG2,IGHG4,IGKC,IGLC2,IGLC3,CHAIN
Estrogen-mediated S-phase Entry	3.28	5.25E-04	0.231	2.449	CCNA1,CCNA2,CDC25A,CDK1,E2F7,E2F8
Pathogenesis of Multiple Sclerosis	3.13	7.41E-04	0.444		CCR1,CCR5,CXCL10,CXCL11
Mitotic Roles of Polo-Like Kinase	2.69	2.04E-03	0.125	1.134	CCNB2,CDC20,CDC25A,CDK1,ESPL1,PKMYT1,PLK1,PTTG1
Coronavirus Pathogenesis Pathway	2.58	2.63E-03	0.072	-3.051	BST2,CTSL,DDX58,E2F7,E2F8,FASLG,IRF7,OAS1,OAS2,OAS3,STAT1,STAT2,TLR3,TLR7
Role of PKR in Interferon Induction and Antiviral Response	2.41	3.89E-03	0.083	3	ATF3,CASP5,DDX58,EIF2AK2,FASLG,IFIH1,MARCO,PDGFRB,STAT1,STAT2,TLR3
Macrophage Classical Activation Signaling Pathway	2.39	4.07E-03	0.072	3.051	ACOD1,CD80,CXCL10,CXCL11,FASLG,LEP,LIF,PARP14,PARP9,STAT1,STAT2,TNFSF10,TNFSF13B
Ribonucleotide Reductase Signaling Pathway	2.1	7.94E-03	0.071	2.309	BIRC5,CDC25A,CDK1,E2F7,E2F8,FOXO1,let-7,MET,PARP12,PARP14,PARP9,RRM2
Cyclins and Cell Cycle Regulation	1.99	1.02E-02	0.095	2.828	CCNA1,CCNA2,CCNB2,CDC25A,CDK1,E2F7,E2F8,MYT1
Salvage Pathways of Pyrimidine Deoxyribonucleotides	1.83	1.48E-02	0.333		APOBEC3A,TK1,TYMP
Wound Healing Signaling Pathway	1.82	1.51E-02	0.059	1.069	COL13A1,COL17A1,COL4A3,COL4A4,FASLG,IL1R2,IL1RAP,ITGB4,LEP,LIF,MMP8,STAT1,TNFSF10,TNFSF13B
Airway Pathology in Chronic Obstructive Pulmonary Disease	1.82	1.51E-02	0.080		FASLG,FGF13,GZMB,LEP,LIF,MMP8,ORM1,TNFSF10,TNFSF13B
Hepatic Fibrosis / Hepatic Stellate Cell Activation	1.77	1.70E-02	0.063		CCR5,COL13A1,COL17A1,COL4A3,COL4A4,FASLG,IL1R2,IL1RAP,LEP,MET,PDGFRB,STAT1
Complement System	1.77	1.70E-02	0.139	1.342	C1QA,C1QB,C1QC,C4BPA,SERPING1

Salvage Pathways of Pyrimidine Ribonucleotides	1.72	1.91E-02	0.083	2.121	APOBEC3A,CDK1,CMPK2,EIF2AK2,MAK,NEK2,PLK1,TTK
Role of CHK Proteins in Cell Cycle Checkpoint Control	1.62	2.40E-02	0.103	-2	CDC25A,CDK1,CLSPN,E2F7,E2F8,PLK1
Granulocyte Adhesion and Diapedesis	1.62	2.40E-02	0.063		CCL8,CCR1,CCR5,CSF3R,CXCL10,CXCL11,CXCL2,IL1R2,IL1RAP,MMP8,SDC3
Phagosome Formation	1.57	2.69E-02	0.040	2.2	ADGRE3,CCR1,CCR5,CMKLR1,CX3CR1,FFAR2,FFAR3,GPR157,GPR162,HCAR1,IGHA1,IGHG1,IGHG2,IGHG4,IGKC,IGLC2,IGLC3,ITGB4,JCHAIN,KISS1R,MARCKS,MARCO,S1PR3,SPHK1,SUCNR1,TLR3,TLR7
Pyridoxal 5'-phosphate Salvage Pathway	1.4	3.98E-02	0.092	1.633	CDK1,EIF2AK2,MAK,NEK2,PLK1,TTK

Significantly differential expressed genes identified by maSigPro.

[illegible]

[illegible]

Supplementary Tables 15-21

Significant pathways identified using IPA for the nine gene clusters

Gene filters for IPA analysis: adjusted $p \leq 0.05$

There were nil significant pathways for Clusters 7 and 9

Supplementary Table 15: Cluster 1

Ingenuity Canonical Pathways	$-\log(B-H \text{ p-value})$	adj. p	Ratio	Molecules
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	9.79	1.62E-10	0.113	IFIT2,IFIT3,IRF7,ISG15,MX1,OAS1,OAS2,OAS3,RSAD2
Interferon Signaling	7.39	4.07E-08	0.167	IFIT1,IFIT3,IFITM1,ISG15,MX1,OAS1
Kinetochore Metaphase Signaling Pathway	3.33	4.68E-04	0.047	BIRC5,CDK1,CENPN,SKA1,ZWINT
Activation of IRF by Cytosolic Pattern Recognition Receptors	3.14	7.24E-04	0.064	IFIT2,IRF7,ISG15,ZBP1
Pyrimidine Deoxyribonucleotides De Novo Biosynthesis I	3.14	7.24E-04	0.130	CMPK2,RRM2,TYMS
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	2.98	1.05E-03	0.034	IRF7,OAS1,OAS2,OAS3,TNFSF10
Cell Cycle Control of Chromosomal Replication	2.12	7.59E-03	0.054	CDC45,CDK1,CDT1
Cyclins and Cell Cycle Regulation	1.67	2.14E-02	0.036	CCNA2,CCNB2,CDK1
Coronavirus Pathogenesis Pathway	1.63	2.34E-02	0.021	IRF7,OAS1,OAS2,OAS3
Estrogen-mediated S-phase Entry	1.63	2.34E-02	0.077	CCNA2,CDK1

Supplementary Table 16: Cluster 2

Ingenuity Canonical Pathways	$-\log(B-H \text{ p-value})$	adj. p	Ratio	Molecules
Pathogen Induced Cytokine Storm Signaling Pathway	3.61	2.45E-04	0.041	CASP7,CCL22,CCL3,CCL4,CCL8,COL1A2,CXCL2,CXCL3,IL12B,IL36G,MAPK6,TICAM1,TNF,TNFSF15
Role of Hypercytokinemia/hyperchemokineemia in the Pathogenesis of Influenza	3.15	7.08E-04	0.088	CCL3,CCL4,CXCL3,IL12B,IL36G,TICAM1,TNF
Differential Regulation of Cytokine Production in Macrophages and T Helper Cells by IL-17A and IL-17F	2.95	1.12E-03	0.222	CCL3,CCL4,IL12B,TNF
Granulocyte Adhesion and Diapedesis	2.95	1.12E-03	0.052	CCL22,CCL3,CCL4,CCL8,CXCL2,CXCL3,HRH1,IL36G,TNF
Agranulocyte Adhesion and Diapedesis	2.76	1.74E-03	0.047	CCL22,CCL3,CCL4,CCL8,CXCL2,CXCL3,HRH1,IL36G,TNF
Differential Regulation of Cytokine Production in Intestinal Epithelial Cells by IL-17A and IL-17F	2.76	1.74E-03	0.174	CCL3,CCL4,IL12B,TNF
Toll-like Receptor Signaling	2.76	1.74E-03	0.078	ELK1,IKKBK,IL12B,IL36G,TICAM1,TNF
Erythropoietin Signaling Pathway	2.56	2.75E-03	0.048	ELK1,IL12B,IL36G,NFKBIE,SOS1,SRC,TNF,TNFSF15
IL-6 Signaling	2.5	3.16E-03	0.054	ELK1,IKKBK,IL36G,NFKBIE,SOS1,TNF,TNFAIP6
Acute Phase Response Signaling	2.37	4.27E-03	0.044	CFB,ELK1,IKKBK,IL36G,NFKBIE,ORM1,SOS1,TNF
Wound Healing Signaling Pathway	2.37	4.27E-03	0.038	COL1A2,HBEGF,IKKBK,IL12B,IL36G,NFKBIE,SOS1,TNF,TNFSF15
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	2.33	4.68E-03	0.048	C3AR1,IL12B,IL36G,RIPK2,TICAM1,TNF,TNFSF15
PPAR Signaling	2.33	4.68E-03	0.058	IKKBK,IL36G,NFKBIE,PPAR,SOS1,TNF
TREM1 Signaling	2.19	6.46E-03	0.069	CASP5,CCL3,CD83,CXCL3,TNF
Airway Pathology in Chronic Obstructive Pulmonary Disease	2.19	6.46E-03	0.053	CXCL3,IL12B,IL36G,ORM1,TNF,TNFSF15
NOD1/2 Signaling Pathway	1.97	1.07E-02	0.040	IKKBK,IL12B,IL36G,NFKBIE,RIPK2,TNF,TNFSF15
IL-17 Signaling	1.95	1.12E-02	0.039	CCL22,CXCL3,ELK1,IL12B,IL36G,TNF,TNFSF15
Macrophage Classical Activation Signaling Pathway	1.95	1.12E-02	0.039	IKKBK,IL12B,IL36G,NFKBIE,TICAM1,TNF,TNFSF15
TNFR1 Signaling	1.93	1.17E-02	0.080	CASP7,IKKBK,NFKBIE,TNF
Tumoricidal Function of Hepatic Natural Killer Cells	1.86	1.38E-02	0.125	CASP7,M6PR,SERPINB9
Macrophage Alternative Activation Signaling Pathway	1.86	1.38E-02	0.036	CCL22,IL12B,IL2RG,IL36G,NFKBIE,PPAR,TNF
Tryptophan Degradation to 2-amino-3-carboxymuconate Semialdehyde	1.86	1.38E-02	0.333	IDO1,KYNU
Death Receptor Signaling	1.86	1.38E-02	0.053	CASP7,IKKBK,NFKBIE,TNF,TNFSF15
Tryptophan Degradation III (Eukaryotic)	1.81	1.55E-02	0.115	ACAT2,IDO1,KYNU
Apelin Liver Signaling Pathway	1.81	1.55E-02	0.115	COL1A2,EDN1,TNF
IL-10 Signaling	1.74	1.82E-02	0.040	CDKN1A,ELK1,IKKBK,IL36G,NFKBIE,TNF
Multiple Sclerosis Signaling Pathway	1.71	1.95E-02	0.033	GRIN1,IL12B,IL36G,P2RX4,PPAR,TNF,TNFSF15
Hepatic Fibrosis Signaling Pathway	1.65	2.24E-02	0.024	CCL3,COL1A2,EDN1,ELK1,IKKBK,IL36G,NFKBIE,SOS1,SUCNR1,TNF
TNFR2 Signaling	1.64	2.29E-02	0.097	IKKBK,NFKBIE,TNF

Pathogenesis of Multiple Sclerosis	1.59	2.57E-02	0.222	CCL3,CCL4
Neuregulin Signaling	1.58	2.63E-02	0.044	ELK1,EREG,HBEGF,SOS1,SRC
Cholecystokinin/Gastrin-mediated Signaling	1.56	2.75E-02	0.043	ELK1,IL36G,SOS1,SRC,TNF
IL-9 Signaling	1.53	2.95E-02	0.086	CISH,IL2RG,TNF
Antiproliferative Role of Somatostatin Receptor 2	1.52	3.02E-02	0.054	CDKN1A,ELK1,SRC,SSTR2
TWEAK Signaling	1.52	3.02E-02	0.083	CASP7,IKBKB,NFKBIE
IL-33 Signaling Pathway	1.52	3.02E-02	0.034	CASP5,CASP7,IKBKB,IL36G,NFKBIE,TNF
NAD biosynthesis II (from tryptophan)	1.49	3.24E-02	0.182	IDO1,KYNU
Atherosclerosis Signaling	1.46	3.47E-02	0.039	COL1A2,F3,IL36G,ORM1,TNF
Hepatic Cholestasis	1.46	3.47E-02	0.032	IKKBK,IL12B,IL36G,NFKBIE,TNF,TNFSF15
Endothelin-1 Signaling	1.44	3.63E-02	0.032	CASP5,CASP7,EDN1,MAPK6,SOS1,SRC
Regulation Of The Epithelial Mesenchymal Transition By Growth Factors Pathway	1.42	3.80E-02	0.031	HMGA2,IKBKB,MET,SOS1,TNF,TNFSF15
April Mediated Signaling	1.42	3.80E-02	0.071	ELK1,IKBKB,NFKBIE
STAT3 Pathway	1.42	3.80E-02	0.037	CDKN1A,CISH,IL2RG,PTPN2,SRC
PEDF Signaling	1.42	3.80E-02	0.048	CASP7,ELK1,IKBKB,NFKBIE
γ -glutamyl Cycle	1.42	3.80E-02	0.154	CHAC1,GGT5
B Cell Activating Factor Signaling	1.42	3.80E-02	0.070	ELK1,IKBKB,NFKBIE
Oncostatin M Signaling	1.42	3.80E-02	0.070	ELK1,MT2A,SOS1
PDGF Signaling	1.4	3.98E-02	0.046	ELK1,SOS1,SPHK1,SRC
RANK Signaling in Osteoclasts	1.39	4.07E-02	0.046	ELK1,IKBKB,NFKBIE,SRC
DNA damage-induced 14-3-3 σ Signaling	1.36	4.37E-02	0.065	CASP5,CASP7,CDKN1A
Crosstalk between Dendritic Cells and Natural Killer Cells	1.35	4.47E-02	0.044	CD83,IL12B,IL2RG,TNF
ERBB Signaling	1.33	4.68E-02	0.043	ELK1,EREG,HBEGF,SOS1

Supplementary Table 17: Cluster 3

Ingenuity Canonical Pathways	$-\log(B-H \text{ p-value})$	adj. p	Ratio	Molecules
Reelin Signaling in Neurons	2.31	4.90E-03	0.094	AKT1,AKT2,ARHGEF1,ARHGEF18,ARHGEF40,CAMK2G,CDH2,DNAH1,MAP2K4,MAP2K7,MAPK1,MAPK8IP3,NDEL1
IL-22 Signaling	1.54	2.88E-02	0.208	AKT1,AKT2,MAP2K4,MAPK1,STAT5B
Role of NFAT in Cardiac Hypertrophy	1.52	3.02E-02	0.064	AKT1,AKT2,CABIN1,CACNB4,CAMK1D,CAMK2G,GNAQ,GNQ7,MAP2K4,MAP2K7,MAPK1,PLCB2,PPP3CA,RAF1
BER (Base Excision Repair) Pathway	1.52	3.02E-02	0.136	MAP2K4,MAP2K7,MAPK1,RF3,SLC19A1,XRCC1
Role of MAPK Signaling in the Pathogenesis of Influenza	1.52	3.02E-02	0.099	AKT1,AKT2,MAP2K4,MAP2K7,MAPK1,PLB1,PNPLA2,RAF1
HIF1 α Signaling	1.46	3.47E-02	0.064	AKT1,AKT2,CAMK1D,CAMK2G,CCNG2,EGLN2,MAP2K4,MAP2K7,MAPK1,MKNK2,NCOA1,PPP3CA,RAF1
G α 12/13 Signaling	1.46	3.47E-02	0.075	AKT1,AKT2,ARHGEF1,CDH2,LPAR2,MAP2K4,MAP2K7,MAPK1,PXN,RAF1
Melatonin Signaling	1.46	3.47E-02	0.101	CAMK2G,GNAQ,MAP2K4,MAP2K7,MAPK1,PLCB2,RAF1
GM-CSF Signaling	1.46	3.47E-02	0.100	AKT1,AKT2,CAMK2G,MAPK1,PPP3CA,RAF1,STAT5B
Oxytocin In Brain Signaling Pathway	1.34	4.57E-02	0.062	AKT1,AKT2,CACNB4,CAMKK1,GNAQ,GNQ7,MAPK1,NLRP1,NLRP6,PLB1,PNPLA2,RAF1
EGF Signaling	1.32	4.79E-02	0.107	AKT1,AKT2,MAP2K4,MAP2K7,MAPK1,RAF1

Supplementary Table 18: Cluster 4

Ingenuity Canonical Pathways	$-\log(B-H \text{ p-value})$	adj. p	Ratio	Molecules
Sirtuin Signaling Pathway	4.73	1.86E-05	0.039	ATP5F1B,BECN1,DUSP6,GLUD1,NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2,TP53,UQCRCF1
Oxidative Phosphorylation	4.65	2.24E-05	0.066	ATP5F1B,NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2,UQCRCF1
Granzyme A Signaling	3.59	2.57E-04	0.070	NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2
Mitochondrial Dysfunction	3.49	3.24E-04	0.030	ACO2,ATP5F1B,BECN1,NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2,TP53,UQCRCF1
Estrogen Receptor Signaling	3.42	3.80E-04	0.027	ATP5F1B,EIF2B1,GNB2,NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2,NRAS,TP53,UQCRCF1
ERK5 Signaling	2.54	2.88E-03	0.054	FOSL1,NRAS,SFN,SGK1
Ferroptosis Signaling Pathway	2.45	3.55E-03	0.039	ARF6,BAP1,BECN1,NRAS,TP53
DNA damage-induced 14-3-3 σ Signaling	2.23	5.89E-03	0.065	CHEK1,SFN,TP53
Cell Cycle: G2/M DNA Damage Checkpoint Regulation	2.13	7.41E-03	0.060	CHEK1,SFN,TP53
NER (Nucleotide Excision Repair, Enhanced Pathway)	2.05	8.91E-03	0.039	CHAF1B,COPS2,GPS1,POLE3

Cell Cycle Control of Chromosomal Replication	2	1.00E-02	0.054	MCM2,MCM4,ORC6
Ribonucleotide Reductase Signaling Pathway	1.94	1.15E-02	0.030	AKT1S1,CHEK1,NRAS,SMARCC1,TP53
Glucocorticoid Receptor Signaling	1.93	1.17E-02	0.019	ATP5F1B,NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2,NRAS,SGK1,SMARCC1,UQCRCF1
Neutrophil Extracellular Trap Signaling Pathway	1.85	1.41E-02	0.020	ATP5F1B,NDUFA10,NDUFA5,NDUF89,NDUFS3,NDUFV2,NLRP3,UQCRCF1
MicroRNA Biogenesis Signaling Pathway	1.8	1.58E-02	0.027	EXOSC9,NRAS,NUP214,POM121/POM121C,TP53
Glutamate Biosynthesis II	1.8	1.58E-02	0.500	GLUD1
Glutamate Degradation X	1.8	1.58E-02	0.500	GLUD1
Huntington's Disease Signaling	1.62	2.40E-02	0.022	ATP5F1B,GNB2,PSMC1,PSME3,SGK1,TP53
Immunogenic Cell Death Signaling Pathway	1.53	2.95E-02	0.036	BECN1,GZMM,NLRP3
Pyrimidine Ribonucleotides Interconversion	1.48	3.31E-02	0.056	CANT1,NUDT15
Necroptosis Signaling Pathway	1.47	3.39E-02	0.026	GLUD1,NLRP3,PELI1,TP53
Actin Nucleation by ARP-WASP Complex	1.44	3.63E-02	0.033	ARPC5L,NRAS,PPP1R12C
Pyrimidine Ribonucleotides De Novo Biosynthesis	1.41	3.89E-02	0.051	CANT1,NUDT15
Tetrahydrofolate Salvage from 5,10-methenyltetrahydrofolate	1.41	3.89E-02	0.200	MTHFD1
Folate Polyglutamylation	1.41	3.89E-02	0.200	MTHFD1
Inhibition of ARE-Mediated mRNA Degradation Pathway	1.41	3.89E-02	0.025	EXOSC9,PSMC1,PSME3,SFN
VEGF Signaling	1.37	4.27E-02	0.031	EIF2B1,NRAS,SFN
ATM Signaling	1.35	4.47E-02	0.030	CHEK1,TPBP1,TP53
Arginine Biosynthesis IV	1.33	4.68E-02	0.167	GLUD1
BER (Base Excision Repair) Pathway	1.32	4.79E-02	0.046	FEN1,TP53

Supplementary Table 19: Cluster 5

Inguinity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	Molecules
Agranulocyte Adhesion and Diapedesis	1.89	1.29E-02	0.052	CCL2,CCL7,CCR5,CXCL10,CXCL11,CXCR4,IL1R1,ITGA5,MMP19,SDC4
Pathogenesis of Multiple Sclerosis	1.89	1.29E-02	0.333	CCR5,CXCL10,CXCL11
Granulocyte Adhesion and Diapedesis	1.89	1.29E-02	0.052	CCL2,CCL7,CCR5,CXCL10,CXCL11,CXCR4,IL1R1,MMP19,SDC4
Superpathway of Cholesterol Biosynthesis	1.76	1.74E-02	0.143	GGPS1,MSMO1,NSDHL,SQLE
Cholesterol Biosynthesis I	1.76	1.74E-02	0.231	MSMO1,NSDHL,SQLE
Cholesterol Biosynthesis II (via 24,25-dihydrolanosterol)	1.76	1.74E-02	0.231	MSMO1,NSDHL,SQLE
Cholesterol Biosynthesis III (via Desmosterol)	1.76	1.74E-02	0.231	MSMO1,NSDHL,SQLE
Osteoarthritis Pathway	1.39	4.07E-02	0.039	ANXA5,CREB3,IL1R1,ITGA5,ITGA7,PPARG,S1PR2,SDC4,SPP1
Arsenate Detoxification I (Glutaredoxin)	1.36	4.37E-02	0.400	GSTO1,PNP
Tetrahydrofolate Salvage from 5,10-methenyltetrahydrofolate	1.36	4.37E-02	0.400	GART,MTHFD2
Chemokine Signaling	1.34	4.57E-02	0.065	CCL2,CCL7,CCR5,CXCR4,RALA
Role of IL-17F in Allergic Inflammatory Airway Diseases	1.34	4.57E-02	0.087	CCL2,CCL7,CREB3,CXCL10
Inhibition of ARE-Mediated mRNA Degradation Pathway	1.33	4.68E-02	0.044	AGO2,FASLG,PPP2CB,PSMA5,PSMB5,TNFSF18,YWHAE
Zymosterol Biosynthesis	1.33	4.68E-02	0.333	MSMO1,NSDHL

Supplementary Table 20: Cluster 6

Inguinity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	Molecules
RAN Signaling	3.74	1.82E-04	0.235	KPNA1,KPNA2,RAN,RANBP1

Supplementary Table 21: Cluster 8

Inguinity Canonical Pathways	-log(B-H p-value)	adj. p	Ratio	Molecules
Sirtuin Signaling Pathway	1.38	4.17E-02	0.042	ATP5F1C,E2F1,H1-10,H1-2,H1-3,H1-4,H3-3A/H3-3B,MAP1LC3B2,MAPK7,NDUF810,PGAM1,VDAC3
Granzyme A Signaling	1.38	4.17E-02	0.085	H1-10,H1-2,H1-3,H1-4,HMGB2,NDUF810
Kinetochore Metaphase Signaling Pathway	1.38	4.17E-02	0.065	DSN1,H2AC20,H2AC21,H2AZ1,PPP1CA,PPP1CC,REC8
CDK5 Signaling	1.38	4.17E-02	0.061	EGR1,LAMA2,MAPK7,PPP1CA,PPP1CC,RAP2B,RRAS
Role of Macrophages, Fibroblasts and Endothelial Cells in Rheumatoid Arthritis	1.38	4.17E-02	0.038	C5,CALM1 (includes others),FCGR3A/FCGR3B,IL17RC,JAK2,MAP2K6,MYD88,PPP3CC,RAP2B,RRAS,TLR7,TNFSF13B
Regulation of Cellular Mechanics by Calpain Protease	1.32	4.79E-02	0.068	CAPN2,CAPNS1,CAST,CDK6,RAP2B,RRAS