



Supplementary Figure 1 The identified central node genes (more than 10 connections/interactions).

Supplementary materials

The significantly changed genes of GSE13601

Downregulated				Upregulated			
ID	logFC	t	P.Value	ID	logFC	t	P.Value
SERPINF1	-1.00077	-4.33027	5.76E-05	DNAJC2	1.000384	3.325036	0.001514
CTNNA2	-1.00218	-3.6553	0.000543	LRRC15	1.001208	3.026136	0.003649
LMO1	-1.00298	-6.26996	4.37E-08	CKAP4	1.002912	5.034806	4.68E-06
LAMB2	-1.00636	-6.13855	7.27E-08	ADAM12	1.003678	4.225826	8.25E-05
LECT1	-1.00716	-3.43596	0.001079	BICD2	1.004566	6.440467	2.26E-08
GAS7	-1.00773	-3.6084	0.00063	GALE	1.004687	3.061862	0.003293
TEK	-1.01296	-5.52869	7.46E-07	CDK7	1.00522	4.071674	0.000139
AL109706	-1.01321	-3.23055	0.002009	BTN3A3	1.005387	4.148552	0.000107
ITIH4	-1.01323	-5.42596	1.10E-06	PLEKHM2	1.006134	2.876185	0.005569
AC090627.	-1.01385	-4.06544	0.000142	ITCH	1.006275	4.057548	0.000146
AKAP6	-1.01429	-3.42758	0.001107	CYFIP1	1.006737	6.075976	9.25E-08
FBLN2	-1.01477	-3.58087	0.000687	GEMIN2	1.006962	3.812984	0.000327
TTC28	-1.015	-3.58657	0.000675	LIMK2	1.007974	7.988671	5.22E-11
PENK	-1.02018	-3.07721	0.00315	KDEL3	1.008107	3.198389	0.00221
AQP1	-1.02153	-4.08646	0.000132	DHX8	1.00839	5.137994	3.20E-06
RAPSN	-1.0216	-3.44864	0.001038	BCAP31	1.008701	6.630478	1.08E-08
C1orf21	-1.02198	-2.7886	0.007087	COX6A1	1.010281	4.793793	1.12E-05
CITED2	-1.02242	-4.74938	1.32E-05	B2M	1.011592	5.847563	2.22E-07
MST1L	-1.0229	-4.71174	1.51E-05	SNRNP40	1.013089	5.780642	2.87E-07
FEZ2	-1.02436	-3.53568	0.000792	PDCL	1.013706	3.45426	0.00102
CX3CL1	-1.02636	-5.10885	3.56E-06	CDC45	1.015551	4.158608	0.000104
CLDN8	-1.02638	-3.02809	0.003628	PXDN	1.016013	4.576501	2.44E-05
TLR5	-1.02863	-2.83955	0.006164	RPN2	1.016349	5.865641	2.07E-07
LMO2	-1.02878	-5.6987	3.92E-07	POLR2E	1.017556	3.132668	0.002681
IVD	-1.02964	-6.75007	6.74E-09	PPIH	1.018057	4.855765	8.98E-06
PHTF2	-1.02973	-3.71344	0.000451	SDC4	1.01867	4.03938	0.000155
SASH1	-1.03377	-5.85456	2.16E-07	DAAM1	1.020591	4.735675	1.38E-05
NDUFS7	-1.03466	-3.89052	0.000254	CYP7B1	1.021414	3.398224	0.001212
PPAP2B	-1.0355	-5.40154	1.20E-06	EIF6	1.021868	6.759598	6.50E-09
EDN3	-1.03551	-3.82367	0.000316	IFNGR2	1.022726	5.440796	1.04E-06
CFHR2	-1.03614	-2.76655	0.007525	SYNCRIP	1.023227	6.88071	4.04E-09
PINK1	-1.0366	-5.21542	2.40E-06	SCNN1G	1.024879	3.771135	0.000375
EFHD1	-1.03705	-4.19847	9.06E-05	NEU1	1.02647	3.801912	0.000339
AKAP1	-1.04034	-5.4949	8.47E-07	LAT	1.02864	3.990199	0.000183
F8	-1.04138	-4.25251	7.53E-05	ZNF267	1.028737	4.57192	2.48E-05
HSPA1L	-1.04204	-4.29106	6.60E-05	PSMD11	1.029228	4.628371	2.03E-05
PLAGL1	-1.04396	-4.95753	6.20E-06	DR1	1.029457	8.621887	4.39E-12
CD34	-1.04461	-6.91277	3.57E-09	COL4A2	1.030144	4.23495	8.00E-05
SLC4A4	-1.04475	-4.45917	3.68E-05	PLXNC1	1.032637	4.525486	2.92E-05
ERVH-1	-1.04555	-3.93269	0.000221	GM2A	1.032893	6.605371	1.19E-08
JAM3	-1.04568	-3.29639	0.00165	FXYD3	1.033146	2.455719	0.016982
HPN	-1.04814	-5.79088	2.76E-07	PAQR3	1.033543	3.024337	0.003668

SGCE	-1.04948	-5.40699	1.18E-06	ARFIP2	1.033581	3.736676	0.000419
ACACB	-1.05061	-5.9554	1.47E-07	ITK	1.033603	3.269036	0.001791
ADCY1	-1.05199	-5.40932	1.17E-06	TOM1L1	1.035264	3.508059	0.000863
GUCY2C	-1.05283	-2.92643	0.00484	TIAM1	1.036299	4.037299	0.000156
OR7E24	-1.05505	-3.90572	0.000241	IRAK1	1.036358	6.446546	2.20E-08
ROR1	-1.05574	-3.98474	0.000186	NAT1	1.036552	3.443206	0.001055
C6	-1.05753	-4.15477	0.000105	ETS2	1.037007	3.727773	0.000431
YBX3	-1.05763	-4.44137	3.92E-05	FBXL2	1.037071	3.214097	0.00211
FZD7	-1.05773	-3.88778	0.000256	TRIAP1	1.037646	2.842303	0.006117
MGLL	-1.05906	-6.32574	3.52E-08	15-Sep	1.037758	4.164403	0.000102
ALOX12	-1.05917	-3.77486	0.00037	ADNP2	1.038474	3.117957	0.002799
IL11RA	-1.06038	-7.05322	2.06E-09	ODC1	1.038503	3.538552	0.000785
VWA8	-1.06189	-5.6841	4.14E-07	9-Sep	1.038781	4.650161	1.88E-05
FGF9	-1.0626	-4.85407	9.03E-06	ABL2	1.038844	4.417663	4.26E-05
MRAS	-1.0637	-3.4576	0.00101	SND1-IT1	1.039592	4.136153	0.000112
ADRB1	-1.06375	-4.13631	0.000112	MMP11	1.040384	3.672618	0.000514
ADCY8	-1.066	-3.54896	0.00076	HCK	1.041808	4.797619	1.11E-05
ALPK3	-1.07133	-5.31583	1.66E-06	ZNF250	1.042035	3.457846	0.001009
TRIL	-1.0726	-4.07188	0.000139	VAMP8	1.043284	4.084088	0.000133
COX5A	-1.07294	-5.57448	6.27E-07	NVL	1.043462	3.964528	0.000199
GLUL	-1.07424	-5.12902	3.31E-06	RNF24	1.044606	3.208224	0.002147
DAAM2	-1.07453	-7.58518	2.54E-10	PAWR	1.044675	5.101052	3.67E-06
ATP6V1G2	-1.07481	-4.13267	0.000113	MAPK6	1.044766	5.541141	7.11E-07
GRIK2	-1.07537	-5.56502	6.50E-07	TLR2	1.04628	4.468846	3.56E-05
FUT6	-1.07616	-3.68417	0.000495	DHCR24	1.046714	3.784179	0.000359
SPRY1	-1.07922	-5.96332	1.43E-07	SAT1	1.047536	6.113416	8.01E-08
PARD6A	-1.07926	-4.99616	5.39E-06	PPFIBP1	1.049629	2.59682	0.011824
ALDH3A2	-1.08118	-6.27361	4.31E-08	EPHA1	1.04984	2.685557	0.009356
ACOT11	-1.08698	-5.50903	8.03E-07	TSPAN9	1.050016	5.679058	4.22E-07
NRXN1	-1.08784	-4.04859	0.00015	RAN	1.051045	8.576494	5.23E-12
C14orf132	-1.0893	-3.17333	0.00238	GLRX3	1.051439	4.100911	0.000126
NME5	-1.09173	-4.61508	2.13E-05	EFNB2	1.051912	5.37668	1.32E-06
COLGALT2	-1.09353	-6.79381	5.68E-09	FAM50A	1.052439	3.099481	0.002953
RASGRP3	-1.09369	-3.54338	0.000773	BZW1	1.054012	7.265609	8.93E-10
SFRP1	-1.09975	-2.50064	0.015154	NCAPD2	1.054493	3.597982	0.000651
SLC2A5	-1.1015	-3.1218	0.002768	IRF7	1.055043	6.137843	7.29E-08
ACADS	-1.10205	-6.59781	1.22E-08	SOCS1	1.055589	4.380029	4.85E-05
RHOBTB1	-1.1021	-2.25074	0.028089	ADAM19	1.056963	5.111957	3.52E-06
AGTPBP1	-1.10249	-3.93164	0.000222	KIAA0754	1.057097	4.446578	3.85E-05
ARHGEF6	-1.10254	-5.66218	4.50E-07	SLC36A1	1.058665	5.891992	1.87E-07
DMPK	-1.10274	-6.44719	2.20E-08	SLC20A1	1.059856	6.432932	2.32E-08
KCNQ3	-1.10319	-4.85993	8.84E-06	CBX3	1.061	7.46182	4.13E-10
HOXA4	-1.10667	-4.0067	0.000173	SH2D2A	1.061058	4.372502	4.98E-05
FXR1	-1.10774	-2.79711	0.006925	VCAN	1.061381	3.324268	0.001517
RERE	-1.1097	-8.5187	6.56E-12	SORL1	1.061566	5.544821	7.02E-07
SLC22A14	-1.1101	-4.52735	2.90E-05	ITPA	1.0643	8.048452	4.13E-11
KCNAB1	-1.11121	-5.96315	1.43E-07	SLC25A16	1.064842	4.216692	8.51E-05

FOXO4	-1.11192	-4.50065	3.18E-05	TSTA3	1.066334	6.372806	2.93E-08
NR2F2	-1.11275	-5.41332	1.15E-06	CDKN1A	1.066541	4.491485	3.29E-05
TACC2	-1.11439	-7.20709	1.12E-09	HSD17B6	1.066576	3.569914	0.000712
ATP2A2	-1.11813	-3.84959	0.00029	HCG4	1.066685	3.335038	0.001469
CCNG1	-1.11826	-4.44411	3.88E-05	CST6	1.067447	3.673362	0.000513
ELN	-1.11893	-5.1728	2.82E-06	GPSM2	1.067611	3.605232	0.000637
GJA4	-1.11964	-4.07222	0.000139	TMX1	1.067914	7.108823	1.65E-09
FOSB	-1.12159	-3.16342	0.00245	B4GALT4	1.069555	3.087905	0.003054
NR4A2	-1.12437	-2.41094	0.018999	TFCP2	1.069797	4.184325	9.50E-05
ARNT2	-1.12752	-5.03909	4.61E-06	SAMHD1	1.070321	3.003434	0.003893
SCCPDH	-1.12774	-4.32849	5.80E-05	COL7A1	1.072039	5.616192	5.36E-07
HSD11B2	-1.13029	-3.18941	0.00227	SSR1	1.07217	6.735602	7.14E-09
AP1S2	-1.13169	-5.0624	4.23E-06	SPARC	1.074778	3.843901	0.000296
S100A4	-1.13232	-6.91303	3.56E-09	NCBP2	1.075208	6.84365	4.68E-09
NTRK3	-1.13294	-7.67824	1.76E-10	SLC22A4	1.075835	3.119831	0.002784
SLIT2	-1.13419	-6.54213	1.52E-08	SMC1A	1.07712	5.85381	2.17E-07
CYP2B7P	-1.13625	-4.25505	7.47E-05	IFNGR1	1.07809	6.926395	3.38E-09
GBAS	-1.13653	-3.62674	0.000595	FOXF2	1.078704	2.660193	0.010009
LIMCH1	-1.13664	-3.19027	0.002264	VPS4B	1.078825	3.153662	0.002521
LAMA2	-1.13847	-4.44166	3.91E-05	FUBP3	1.079949	5.599738	5.70E-07
LRIG1	-1.13847	-6.98416	2.70E-09	RFC4	1.080178	7.617441	2.24E-10
FGF7	-1.13941	-5.47093	9.27E-07	CKS1B	1.082133	6.362531	3.05E-08
USP2	-1.14042	-3.78526	0.000358	ARL4C	1.083614	4.967277	5.99E-06
CHAD	-1.14162	-5.3221	1.62E-06	LILRB4	1.083708	4.199114	9.04E-05
PCDH9	-1.14262	-5.89803	1.83E-07	HSPB11	1.085628	6.360791	3.07E-08
TMPRSS2	-1.14344	-4.15311	0.000106	C9orf91	1.085988	3.459376	0.001004
PCLO	-1.14404	-4.57781	2.43E-05	MKI67	1.087923	4.716252	1.48E-05
NTS	-1.14463	-2.91306	0.005025	DYNLL1	1.088505	5.988657	1.29E-07
ANGPT1	-1.14479	-6.44855	2.19E-08	CFL1	1.088856	6.880096	4.05E-09
MDH2	-1.14639	-4.88125	8.19E-06	KLF7	1.091373	8.655526	3.85E-12
SVEP1	-1.14726	-4.70236	1.56E-05	DUSP11	1.092045	8.292117	1.59E-11
NELL1	-1.14817	-2.71976	0.008538	LUM	1.092208	3.036063	0.003546
ALDH2	-1.14909	-5.82517	2.42E-07	CD3D	1.092327	3.049941	0.003408
ANKRD6	-1.15072	-4.08254	0.000134	ARNTL	1.092532	3.258753	0.001847
SLC7A2	-1.15126	-5.10371	3.63E-06	GMFG	1.092734	2.832915	0.006277
CTSF	-1.15279	-8.32597	1.39E-11	CA12	1.092915	3.155685	0.002507
NPR1	-1.15297	-4.78969	1.14E-05	IRF1	1.093483	3.59656	0.000654
ABCA6	-1.15715	-3.73227	0.000425	IRF9	1.093836	6.725534	7.42E-09
TFF3	-1.15853	-4.5953	2.28E-05	PSMB2	1.094225	11.12853	3.32E-16
DCX	-1.15853	-3.42279	0.001124	TNFAIP8	1.094273	5.510356	7.99E-07
AES	-1.15888	-7.56054	2.80E-10	SLC25A13	1.095754	5.486462	8.74E-07
CYP3A5	-1.16162	-5.58851	5.95E-07	MYD88	1.098375	5.381007	1.30E-06
ACADSB	-1.16506	-4.94451	6.51E-06	FLNA	1.09983	5.280788	1.89E-06
SOX30	-1.16548	-3.86987	0.000272	TGIF1	1.100004	5.37697	1.32E-06
KHDRBS3	-1.166	-4.72067	1.46E-05	H2AFZ	1.102121	3.507279	0.000865
VDAC3	-1.16706	-5.46911	9.33E-07	NFKBIE	1.102285	4.868905	8.56E-06
RBFADN	-1.16959	-5.03421	4.69E-06	SEC16A	1.102298	3.248656	0.001904

ADAMTSL3	-1.16966	-5.10079	3.67E-06	CBR1	1.102991	4.425133	4.15E-05
SCNN1B	-1.17233	-3.41804	0.00114	CD58	1.103634	6.553921	1.45E-08
CORO2B	-1.1729	-4.68437	1.66E-05	LMNB2	1.104594	6.862437	4.34E-09
ECH1	-1.17418	-5.27419	1.93E-06	EPHB3	1.105107	3.942953	0.000214
EYA4	-1.17489	-3.28215	0.001722	LPCAT4	1.105358	2.548109	0.013417
RGP1	-1.17505	-5.33241	1.56E-06	NKRF	1.1073	4.889898	7.93E-06
UCP2	-1.17775	-5.18679	2.67E-06	HMGA1	1.107571	4.029483	0.00016
NOVA1	-1.18039	-6.21111	5.49E-08	FST	1.108638	4.104405	0.000125
SUCLG2	-1.18214	-4.03979	0.000155	GPNMB	1.108662	4.086752	0.000132
GPR64	-1.1827	-3.58056	0.000688	PSMG1	1.109189	4.554497	2.63E-05
ACSL1	-1.18439	-6.31172	3.72E-08	PTPN12	1.1092	7.290462	8.10E-10
CFH	-1.1863	-5.45327	9.90E-07	AHR	1.109885	6.809716	5.34E-09
CAPN6	-1.18652	-4.39304	4.64E-05	NUDT21	1.110964	4.238619	7.90E-05
GPM6A	-1.18801	-4.02937	0.00016	FSTL3	1.11118	4.486772	3.34E-05
EIF2AK2	-1.18993	-3.45414	0.00102	LOX	1.113669	4.426462	4.13E-05
RAB6B	-1.19049	-4.10475	0.000124	FCGR2A	1.114408	4.975188	5.82E-06
ZCCHC24	-1.19373	-4.0899	0.000131	SC5D	1.115546	3.614691	0.000618
PRUNE2	-1.19657	-3.13909	0.002631	GTF2H4	1.115568	4.673635	1.73E-05
BTG2	-1.19692	-4.00781	0.000172	UGCG	1.1158	5.712584	3.72E-07
DDO	-1.19753	-3.37839	0.001287	PSPH	1.115991	2.645684	0.0104
SLC1A6	-1.19844	-5.19844	2.56E-06	LY96	1.116385	4.899104	7.67E-06
ZNF132	-1.20377	-5.67903	4.22E-07	MED1	1.116802	4.93033	6.85E-06
EEF1A2	-1.2043	-6.85822	4.42E-09	PIR	1.118471	2.611632	0.011375
ZNRF4	-1.20448	-5.34015	1.51E-06	PLK1	1.119614	5.926718	1.64E-07
ATP5A1	-1.20665	-6.28142	4.18E-08	OAS2	1.120588	5.736537	3.39E-07
IDH2	-1.20747	-5.00174	5.28E-06	SLBP	1.121263	4.173342	9.87E-05
SYNE1	-1.20884	-6.40621	2.58E-08	MVD	1.121282	3.793423	0.000349
ATP12A	-1.21356	-4.01434	0.000169	IRF6	1.121366	5.009191	5.14E-06
ANK1	-1.21548	-5.20537	2.50E-06	FANCI	1.121614	4.322941	5.91E-05
PRKAA2	-1.21755	-3.96031	0.000202	EPHB2	1.122598	7.536966	3.07E-10
SSBP2	-1.21874	-4.41372	4.32E-05	PRKAA1	1.123923	3.11945	0.002787
APOOL	-1.21875	-4.07052	0.00014	PRKDC	1.124808	7.745375	1.36E-10
DOK5	-1.21895	-5.41586	1.14E-06	ARPC5	1.126514	6.940795	3.20E-09
GABARAPL	-1.22174	-6.0198	1.15E-07	ADAM17	1.126542	5.222264	2.34E-06
RP11-119F	-1.22256	-4.28672	6.70E-05	RASGRP1	1.128429	3.255192	0.001867
KLK1	-1.22762	-2.48216	0.015883	RRAS2	1.129717	5.066401	4.17E-06
AR	-1.2305	-6.47388	1.98E-08	NFYA	1.130189	5.731517	3.46E-07
PLCL1	-1.23234	-4.57929	2.41E-05	CAPZA1	1.13064	6.172171	6.38E-08
ETFDH	-1.2325	-5.51213	7.94E-07	PDCD6	1.131504	5.859558	2.12E-07
GPT	-1.23475	-6.05641	9.97E-08	RPE	1.132545	4.451796	3.78E-05
SAMD4A	-1.2368	-3.73901	0.000416	EIF3B	1.134931	5.195404	2.59E-06
CYP27A1	-1.23755	-5.33106	1.56E-06	RAP1GDS1	1.138772	7.510607	3.41E-10
CYP2A13	-1.23798	-6.7043	8.06E-09	GPR1	1.140431	3.914867	0.000234
HADHB	-1.23862	-8.64843	3.96E-12	APP	1.142166	6.013095	1.18E-07
PAIP2B	-1.23923	-4.06976	0.00014	TRAF3	1.142456	5.122104	3.39E-06
SOD3	-1.23978	-6.6818	8.81E-09	EVI2B	1.143455	2.03491	0.046298
FRY	-1.24052	-7.41243	5.02E-10	PSMD14	1.145159	4.302961	6.33E-05

PRKCQ	-1.24447	-3.25091	0.001891	SLC25A17	1.145834	4.279506	6.86E-05
MAN2A2	-1.25079	-7.92509	6.69E-11	EIF4A3	1.148771	8.121542	3.10E-11
GSN	-1.25333	-6.30318	3.84E-08	S100A12	1.149211	4.074302	0.000138
SPRY2	-1.2547	-5.53045	7.41E-07	WDR46	1.150306	4.843484	9.38E-06
DYRK1B	-1.25819	-4.09062	0.000131	NUP160	1.15048	5.097036	3.72E-06
NOL4	-1.26	-4.8002	1.10E-05	SRD5A1	1.151799	5.97965	1.34E-07
ZBTB18	-1.26139	-4.73178	1.40E-05	E2F3	1.152233	5.817742	2.49E-07
NEURL1	-1.26266	-7.49395	3.64E-10	TUBA1B	1.153467	7.150669	1.40E-09
SGCB	-1.26449	-2.97955	0.004167	RDH11	1.154354	4.966076	6.01E-06
MYRIP	-1.2645	-4.46911	3.56E-05	RALA	1.156611	5.635077	4.99E-07
ADIRF	-1.26702	-3.76592	0.000381	RIN1	1.157628	5.546298	6.98E-07
MGP	-1.26745	-6.07013	9.46E-08	S100A8	1.158636	2.335903	0.022866
HBD	-1.26985	-5.69624	3.95E-07	HSPA5	1.159824	7.039121	2.17E-09
LMO7	-1.27372	-3.57991	0.00069	GNB5	1.160248	6.01001	1.19E-07
HLF	-1.27736	-7.75128	1.32E-10	INPP4B	1.160295	3.006389	0.00386
CLGN	-1.27742	-3.76485	0.000382	PKP3	1.160656	4.357919	5.24E-05
CLCN4	-1.27922	-4.89335	7.83E-06	DDX39A	1.16165	5.990279	1.29E-07
SLC25A20	-1.27975	-5.24885	2.12E-06	DDX10	1.162461	5.724001	3.56E-07
CLDN3	-1.28373	-3.39983	0.001206	AIM1	1.166894	2.78238	0.007209
PCP4	-1.28506	-4.21481	8.57E-05	SIAH2	1.167265	5.415682	1.14E-06
LGI1	-1.28923	-4.96346	6.07E-06	TFAP2C	1.167399	3.462078	0.000996
C16orf45	-1.28952	-6.72624	7.40E-09	SMURF2	1.174541	6.805236	5.43E-09
GPR68	-1.29128	-6.02755	1.11E-07	RHOH	1.174941	2.867116	0.005711
PCNT	-1.29527	-4.16553	0.000101	WNT5A	1.175103	5.031057	4.74E-06
OLFML1	-1.29527	-5.24053	2.19E-06	RCOR1	1.17638	4.777079	1.19E-05
SEMA6C	-1.29904	-4.33447	5.68E-05	ISG20	1.17647	4.417906	4.25E-05
CKM	-1.30629	-4.72523	1.44E-05	ZNF165	1.177756	3.150255	0.002547
UBL3	-1.30832	-6.08709	8.86E-08	ZNF365	1.179999	2.967752	0.004308
PRH1	-1.30995	-2.74363	0.008007	HIST1H2BN	1.180466	5.699881	3.90E-07
PPARG	-1.31144	-4.12652	0.000116	FADD	1.183713	7.502753	3.52E-10
CPEB3	-1.3135	-7.26225	9.05E-10	NOC2L	1.183923	4.03024	0.00016
LMO3	-1.31369	-3.87066	0.000271	NOP2	1.183981	4.650991	1.87E-05
MYL9	-1.31775	-3.1265	0.00273	PWP1	1.1853	6.743169	6.93E-09
ACO2	-1.32024	-4.00109	0.000176	COPB2	1.189816	6.65588	9.74E-09
LIFR	-1.32061	-3.89986	0.000246	AJAP1	1.191934	3.222993	0.002055
PRELP	-1.32097	-7.75075	1.33E-10	MCM4	1.19443	5.834542	2.34E-07
GADD45G	-1.32253	-4.48427	3.37E-05	NPM3	1.196394	6.629469	1.08E-08
PRPH2	-1.32364	-3.94294	0.000214	APOC1	1.197643	2.975301	0.004217
ST18	-1.3248	-3.71711	0.000446	MAML3	1.19817	4.449395	3.81E-05
ANG	-1.32914	-3.94608	0.000211	SNRPB	1.198307	9.876171	3.52E-14
CRYM	-1.33019	-4.59823	2.26E-05	ITGB2	1.200108	3.006321	0.003861
MTUS1	-1.3316	-6.60495	1.19E-08	CDH11	1.200471	4.54336	2.74E-05
EPM2A	-1.33262	-4.89431	7.81E-06	SPAG1	1.201683	4.674677	1.72E-05
PLA2G4C	-1.3328	-6.39116	2.73E-08	CDKN2B	1.202436	4.117395	0.000119
ITM2A	-1.3339	-5.46347	9.53E-07	CTNBP1	1.204289	3.602502	0.000642
TFF1	-1.33685	-3.27832	0.001742	DST	1.204595	5.454445	9.86E-07
CRISP2	-1.33789	-3.25411	0.001873	KIN	1.205058	3.805697	0.000335

HMGCS2	-1.3384	-6.43078	2.34E-08	PRDM1	1.205198	3.687194	0.000491
PPM1E	-1.34556	-4.5585	2.60E-05	CRABP2	1.205318	4.076369	0.000137
TCN1	-1.35073	-2.08728	0.04113	EIF4EBP1	1.205895	4.329489	5.78E-05
NR3C2	-1.3518	-7.67186	1.81E-10	NME1	1.2063	7.801623	1.09E-10
TAC1	-1.35387	-3.56616	0.00072	SLC39A7	1.209727	3.819479	0.00032
NOVA2	-1.35466	-5.67229	4.33E-07	BAZ1A	1.209834	7.922762	6.75E-11
EYA2	-1.35498	-3.9663	0.000198	APRT	1.213615	5.533896	7.31E-07
PLA2G2A	-1.35692	-2.93016	0.00479	FSTL1	1.213959	3.591401	0.000665
BEX4	-1.36225	-4.76013	1.27E-05	GZMK	1.215337	2.422517	0.018458
CX3CR1	-1.36679	-5.04444	4.52E-06	ARHGDI1	1.215404	5.378126	1.31E-06
GHR	-1.3671	-6.24121	4.89E-08	PLOD2	1.216523	4.742255	1.35E-05
COBL	-1.37664	-3.49382	0.000902	PAICS	1.217765	6.746168	6.85E-09
PIP5K1B	-1.37729	-4.19313	9.22E-05	ZNF593	1.220219	4.584389	2.37E-05
SRPK3	-1.37779	-6.83667	4.81E-09	STIL	1.220476	5.236362	2.23E-06
SORBS1	-1.38078	-3.58422	0.00068	CDC40	1.221192	4.242877	7.78E-05
HSPB3	-1.38319	-3.71468	0.000449	PPIB	1.224516	6.325255	3.53E-08
PITX2	-1.38869	-3.33164	0.001484	SERPINH1	1.22519	6.452697	2.15E-08
ACAA2	-1.39301	-4.80571	1.08E-05	SLC39A6	1.225664	6.508952	1.73E-08
NF2	-1.39376	-4.14114	0.00011	DNAJC9	1.225848	7.747245	1.35E-10
MPPED2	-1.40035	-3.73838	0.000416	CCL5	1.226821	4.582703	2.38E-05
SATB1	-1.40043	-6.04404	1.05E-07	NFE2L3	1.227575	3.533094	0.000799
FBLN5	-1.40171	-6.5574	1.43E-08	HDAC9	1.227656	2.76128	0.007634
TTC9	-1.40255	-3.79547	0.000346	ADAM10	1.229257	8.649316	3.94E-12
CCDC69	-1.40291	-7.13119	1.51E-09	MAD2L1	1.230087	5.058927	4.28E-06
SSPN	-1.40648	-6.13829	7.27E-08	ESM1	1.231109	3.027331	0.003636
BAGE	-1.41129	-3.77215	0.000373	SEL1L3	1.231638	2.870846	0.005653
GPX3	-1.41727	-4.22968	8.14E-05	RNF126	1.232527	4.317189	6.03E-05
SLITRK5	-1.41782	-4.40286	4.48E-05	MBOAT7	1.23721	5.778977	2.89E-07
DCLK1	-1.41787	-5.59627	5.78E-07	CCNC	1.238209	4.934657	6.74E-06
FAM149A	-1.42101	-4.2204	8.41E-05	KDM5B	1.239871	5.587974	5.96E-07
CLTCL1	-1.42471	-4.22123	8.38E-05	MDK	1.241648	3.968992	0.000196
PDE4D	-1.42873	-5.10086	3.67E-06	RNASE6	1.241721	4.334535	5.68E-05
BZRAP1	-1.43006	-6.26393	4.48E-08	ARHGEF5	1.241883	4.472968	3.51E-05
GDF10	-1.43368	-4.73912	1.37E-05	TPGS2	1.241895	5.207813	2.47E-06
TENC1	-1.43597	-4.35828	5.23E-05	MLLT11	1.243541	2.615336	0.011265
PGM1	-1.43874	-4.68074	1.68E-05	STX5	1.244915	4.512283	3.06E-05
NFIB	-1.43951	-9.29292	3.27E-13	MAPRE1	1.244963	5.18193	2.72E-06
GYPC	-1.44665	-7.32141	7.17E-10	LCP1	1.247511	3.471129	0.000968
PARK2	-1.44737	-4.86433	8.70E-06	CD151	1.248884	3.684053	0.000496
ZNF135	-1.45572	-4.31656	6.04E-05	EXT1	1.250987	8.427481	9.36E-12
SMIM8	-1.4597	-5.20624	2.49E-06	BCL10	1.253275	5.25582	2.07E-06
ACOX2	-1.46091	-4.75558	1.29E-05	IFITM1	1.255582	5.781338	2.86E-07
GRIA2	-1.46703	-4.11225	0.000121	SEC24D	1.25818	4.274605	6.98E-05
UCP3	-1.46775	-4.52159	2.96E-05	UBE2H	1.258269	3.666628	0.000524
TSPAN7	-1.46816	-3.12168	0.002769	AQP3	1.259592	2.315511	0.024031
TOX3	-1.47282	-4.11088	0.000122	CSTA	1.259859	2.167199	0.034211
RP11-429B	-1.47559	-5.58438	6.04E-07	YWHAQ	1.259929	8.447713	8.65E-12

PTGIS	-1.47708	-4.43111	4.06E-05	CA2	1.260271	3.260632	0.001837
PBX1	-1.48023	-9.14283	5.82E-13	ASPH	1.263201	4.913344	7.29E-06
PWAR5	-1.48311	-3.51966	0.000833	SEL1L	1.265764	3.847924	0.000292
KLF9	-1.48411	-7.37489	5.81E-10	PDCD11	1.267922	6.146863	7.04E-08
ZBTB20	-1.48453	-6.34554	3.26E-08	ZNF185	1.269018	2.641079	0.010527
ATP8A1	-1.48528	-5.26467	2.00E-06	DNAJC3	1.26992	3.59303	0.000662
CDO1	-1.48948	-4.05022	0.000149	CDK1	1.27001	6.917079	3.51E-09
FAM134B	-1.48977	-3.60029	0.000647	MTSS1	1.270449	7.288329	8.17E-10
PTH2R	-1.49115	-4.38175	4.82E-05	MALT1	1.27119	5.453671	9.89E-07
MEF2C	-1.50394	-4.71388	1.50E-05	KLK10	1.271233	2.452242	0.017132
CDH19	-1.50515	-5.72106	3.60E-07	RAB29	1.272669	5.689342	4.06E-07
PTN	-1.51726	-4.93527	6.73E-06	RPN1	1.273103	6.903141	3.70E-09
PEG3	-1.51883	-4.09794	0.000127	LYN	1.273344	5.430576	1.08E-06
DNAH7	-1.52271	-4.05269	0.000148	COL16A1	1.273348	5.582727	6.08E-07
GPRC5B	-1.52628	-6.57662	1.33E-08	LGALS3BP	1.273514	4.451063	3.79E-05
DTNA	-1.5269	-7.64244	2.03E-10	SF3B4	1.273519	5.911629	1.74E-07
SLC29A2	-1.53081	-7.24128	9.83E-10	PNO1	1.274645	4.898263	7.70E-06
FRZB	-1.53267	-3.99647	0.000179	PTPLB	1.274699	6.241262	4.89E-08
SLIT3	-1.53332	-5.41392	1.15E-06	APEX2	1.274812	7.020212	2.34E-09
HADH	-1.53497	-7.90523	7.24E-11	DUSP6	1.275256	5.514334	7.87E-07
KRT76	-1.53624	-3.69189	0.000483	IL17RA	1.276581	5.957905	1.46E-07
KAT2B	-1.53718	-4.90592	7.49E-06	POP1	1.27731	4.939329	6.63E-06
NR4A1	-1.54593	-4.47401	3.50E-05	VDR	1.277359	6.649624	9.98E-09
ACTN3	-1.54626	-3.041	0.003496	SMC4	1.278577	5.963263	1.43E-07
RGN	-1.54861	-5.34388	1.49E-06	PPARD	1.27978	4.979789	5.72E-06
MYH6	-1.54959	-4.52317	2.94E-05	LAMB1	1.280559	5.270823	1.96E-06
GPRASP1	-1.5504	-6.14509	7.09E-08	RECQL	1.281358	6.55455	1.45E-08
PLCL2	-1.55365	-6.37291	2.93E-08	APOE	1.283211	2.816897	0.00656
ACTA2	-1.55544	-4.79021	1.14E-05	CXCR6	1.284038	4.621081	2.08E-05
DMBT1	-1.55957	-3.46093	0.000999	IL1B	1.284672	5.325894	1.59E-06
MEG3	-1.56504	-5.31355	1.67E-06	PLP2	1.284674	6.457379	2.11E-08
NNT	-1.56822	-7.58226	2.57E-10	PPAT	1.284935	4.911402	7.34E-06
GPC4	-1.5699	-3.83975	0.0003	SHC1	1.285897	8.013353	4.73E-11
PHYHIP	-1.57528	-6.22541	5.20E-08	GJB5	1.28709	5.486784	8.73E-07
TSPYL5	-1.57998	-6.99694	2.56E-09	ZYX	1.288251	4.707604	1.53E-05
AGT	-1.58682	-4.21673	8.51E-05	SH3BP2	1.291899	5.29217	1.81E-06
ALDH5A1	-1.59148	-3.83803	0.000301	NRAS	1.292546	4.525974	2.91E-05
TF	-1.59254	-3.31909	0.001541	DDX21	1.293229	6.593391	1.24E-08
GMPR	-1.60036	-7.35621	6.26E-10	PTPRE	1.294402	7.991844	5.15E-11
MITF	-1.6029	-6.82839	4.96E-09	CD47	1.29527	5.240717	2.19E-06
FAM189A2	-1.60618	-9.65406	8.19E-14	GNAI3	1.296636	4.884849	8.08E-06
CXCL12	-1.61174	-5.82991	2.38E-07	SOX4	1.297001	4.806938	1.07E-05
SEC14L5	-1.61334	-5.88892	1.90E-07	TAGLN2	1.297381	9.068868	7.75E-13
SVIL	-1.6154	-5.82493	2.42E-07	LRRC42	1.299268	3.726781	0.000432
MAPRE2	-1.61631	-6.49803	1.80E-08	PDLIM4	1.299825	4.387473	4.73E-05
MEOX2	-1.61641	-7.71883	1.50E-10	PKP1	1.300889	5.209476	2.46E-06
SIX1	-1.61695	-4.40233	4.49E-05	SKAP2	1.302504	5.430486	1.08E-06

PTGDS	-1.61902	-5.77655	2.91E-07	UBE2K	1.30255	3.204313	0.002172
GOT1	-1.62429	-9.35074	2.62E-13	FCGR3A	1.303631	4.621195	2.08E-05
SERPINI1	-1.62704	-5.9615	1.44E-07	HLA-J	1.307659	6.997019	2.56E-09
PCK1	-1.62756	-3.66538	0.000526	NCF2	1.311768	5.016249	5.01E-06
ME3	-1.62931	-5.40637	1.18E-06	ACTR3	1.31261	8.476684	7.73E-12
KIAA0368	-1.63245	-6.00623	1.21E-07	TXNDC9	1.313319	5.15788	2.98E-06
GULP1	-1.63429	-4.72818	1.42E-05	PROCR	1.31736	5.76999	2.99E-07
HSPB2	-1.63646	-7.22038	1.07E-09	ACKR3	1.318453	4.164418	0.000102
SCN4A	-1.63723	-8.20789	2.21E-11	SLC6A15	1.318962	3.255256	0.001867
KIF5C	-1.64171	-6.56906	1.37E-08	UBE2S	1.321725	7.987286	5.24E-11
RBP4	-1.6511	-3.94018	0.000216	ZWINT	1.322598	5.952874	1.48E-07
GATM	-1.65132	-6.92089	3.45E-09	GATC	1.326435	5.757362	3.13E-07
SLC16A4	-1.65272	-4.04969	0.00015	CCDC86	1.32681	4.549896	2.68E-05
CBX7	-1.65319	-8.19604	2.31E-11	TUBB3	1.328843	7.790476	1.14E-10
SLC2A4	-1.65488	-5.59773	5.74E-07	SNAPC1	1.331441	5.704516	3.83E-07
LPIN1	-1.66571	-6.64287	1.03E-08	ZNF217	1.331654	4.652882	1.86E-05
AURKC	-1.67562	-6.43063	2.34E-08	RP2	1.331708	7.032009	2.23E-09
SPARCL1	-1.68233	-6.22014	5.30E-08	HIST1H2BD	1.332357	4.759734	1.27E-05
PDE8B	-1.68774	-5.56602	6.48E-07	LTBP1	1.332691	6.297338	3.93E-08
SERPINA5	-1.69104	-4.66786	1.76E-05	RAB32	1.332846	6.34832	3.23E-08
LMOD1	-1.6926	-6.64464	1.02E-08	LIPA	1.33348	5.481291	8.91E-07
MAL	-1.69401	-2.7432	0.008016	SEC61G	1.334483	5.492143	8.56E-07
CDKN1C	-1.70602	-7.88519	7.83E-11	GLIPR1	1.337831	4.294908	6.51E-05
ACADL	-1.70937	-4.9392	6.63E-06	DPY19L1	1.338245	6.135918	7.34E-08
AGL	-1.71136	-6.21128	5.49E-08	ZBED4	1.339155	4.788336	1.14E-05
AGR2	-1.71154	-2.9918	0.004024	PGAM1	1.340725	7.78577	1.16E-10
DPT	-1.73373	-7.57978	2.60E-10	PLK2	1.343219	7.523244	3.24E-10
SNTA1	-1.73501	-5.91124	1.74E-07	GSTP1	1.343552	8.274755	1.70E-11
CACNG1	-1.73672	-4.19772	9.08E-05	YAP1	1.344799	4.834482	9.70E-06
SH2B2	-1.73875	-5.06562	4.18E-06	CCT5	1.346313	8.711471	3.10E-12
MYL6B	-1.75216	-5.12757	3.33E-06	IL4R	1.346368	5.735426	3.41E-07
MBP	-1.75722	-5.32817	1.58E-06	FAT1	1.347407	4.723291	1.45E-05
MUC5B	-1.75775	-3.90731	0.00024	ID1	1.348332	5.530998	7.39E-07
TJP3	-1.7587	-6.00215	1.23E-07	SRPX2	1.349332	4.85956	8.85E-06
AQP4	-1.76798	-4.25729	7.41E-05	DLX5	1.351552	4.829748	9.86E-06
SORBS2	-1.77794	-6.37178	2.95E-08	KNTC1	1.353336	3.625717	0.000597
MSTN	-1.78471	-3.54749	0.000763	HMGA2	1.35587	4.682714	1.67E-05
TIMP4	-1.78661	-4.31917	5.99E-05	ACLY	1.35875	9.151532	5.63E-13
FMO2	-1.79501	-4.85094	9.14E-06	OSMR	1.358797	7.043567	2.14E-09
CNN1	-1.79614	-5.31334	1.67E-06	TGFA	1.361149	6.736465	7.11E-09
CRAT	-1.79664	-11.413	1.18E-16	SLC7A8	1.362671	5.434229	1.06E-06
SYNGR1	-1.7997	-8.54389	5.94E-12	CENPE	1.364594	4.079162	0.000136
ACADM	-1.80902	-7.5608	2.80E-10	FEN1	1.364917	7.521931	3.26E-10
CACNB1	-1.82114	-6.98602	2.68E-09	TPBG	1.367475	6.371779	2.95E-08
CLU	-1.83383	-4.44164	3.91E-05	FYB	1.368447	3.944335	0.000213
PDZRN3	-1.83566	-5.39022	1.25E-06	TOP2A	1.370217	7.364912	6.05E-10
PPP1R12B	-1.84183	-8.61998	4.42E-12	BBOX1	1.370638	3.097478	0.002971

TGFBR3	-1.86553	-5.81703	2.50E-07	SQLE	1.371157	6.169235	6.45E-08
GRB14	-1.86739	-4.64975	1.88E-05	CORO2A	1.372281	4.259617	7.35E-05
CAPN3	-1.86966	-5.40184	1.20E-06	FOXMI	1.373369	7.521556	3.27E-10
CAV3	-1.8782	-6.60335	1.20E-08	LYPD3	1.373535	3.41688	0.001144
AK055981	-1.8783	-8.41344	9.89E-12	UMPS	1.375409	6.952038	3.06E-09
FABP7	-1.8783	-7.70013	1.62E-10	NOP16	1.375832	4.847773	9.24E-06
EPHX2	-1.88348	-5.6895	4.06E-07	SLC7A7	1.377463	4.815702	1.04E-05
PFKFB1	-1.89706	-5.40415	1.19E-06	BIK	1.377547	4.312293	6.13E-05
ZNF423	-1.90138	-4.45248	3.77E-05	EGFR	1.379016	4.351956	5.35E-05
PLP1	-1.91383	-7.77441	1.21E-10	CDH1	1.3802	4.20029	9.00E-05
PLIN1	-1.91739	-4.89652	7.75E-06	PPP1R8	1.380718	5.311994	1.68E-06
ITGA7	-1.92383	-5.09478	3.75E-06	MARCKS	1.381501	8.988371	1.06E-12
BIN1	-1.93027	-5.68235	4.17E-07	CLIC1	1.383442	6.787334	5.83E-09
RTN2	-1.93067	-6.96622	2.89E-09	RIT1	1.385225	6.361512	3.07E-08
GPC3	-1.95238	-5.9931	1.27E-07	CXCL8	1.386636	3.544008	0.000772
SCN1B	-1.95261	-6.64623	1.01E-08	RIN2	1.389538	8.225725	2.06E-11
GOS2	-1.95411	-3.75034	0.000401	HLA-DQB1	1.392405	2.676674	0.00958
TMEM47	-1.96217	-7.90384	7.28E-11	PRMT3	1.393742	4.530367	2.87E-05
PHKG1	-1.96756	-7.07472	1.89E-09	PDXK	1.3947	4.638786	1.95E-05
TXNIP	-1.98728	-7.93145	6.53E-11	KIF2A	1.395338	6.940305	3.20E-09
ERBB4	-1.99254	-6.30045	3.88E-08	PRSS3	1.395573	2.129223	0.03736
CLDN5	-1.99651	-7.0331	2.23E-09	MSMO1	1.396412	5.847831	2.22E-07
ALDH6A1	-2.00593	-6.00596	1.21E-07	TSR1	1.40142	4.485981	3.35E-05
TLE2	-2.01724	-9.33752	2.75E-13	TRIM22	1.406483	4.433264	4.03E-05
AOC3	-2.02983	-6.26424	4.47E-08	GMPS	1.407921	7.019277	2.35E-09
MAOB	-2.04032	-8.70406	3.19E-12	HMGB3	1.408416	4.409152	4.38E-05
ESRRG	-2.05718	-5.32535	1.60E-06	ACTL6A	1.412102	7.632147	2.12E-10
CAP2	-2.06488	-5.06076	4.25E-06	EXT2	1.413453	6.088297	8.82E-08
DMD	-2.06732	-8.59556	4.86E-12	PLS3	1.413512	6.963711	2.92E-09
KRT19	-2.07375	-2.63379	0.010732	TXN	1.416961	4.768323	1.23E-05
TNNT1	-2.07778	-5.27828	1.90E-06	FZD6	1.419039	6.938884	3.22E-09
KRT4	-2.07896	-3.66291	0.00053	N4BP1	1.423339	6.745584	6.86E-09
HRC	-2.07992	-4.72268	1.45E-05	MAD1L1	1.426771	5.631603	5.05E-07
ENPP4	-2.09461	-7.04042	2.16E-09	HMMR	1.43088	5.057648	4.30E-06
LPL	-2.09801	-7.00697	2.47E-09	ITPR3	1.430895	6.972913	2.82E-09
PDGFRL	-2.10317	-6.17932	6.21E-08	UBE2L6	1.432103	7.709024	1.56E-10
METTL7A	-2.10443	-6.873	4.17E-09	NXT2	1.433101	5.048118	4.46E-06
RCAN2	-2.11923	-8.28288	1.65E-11	RGS19	1.433891	5.529933	7.42E-07
SMARCD3	-2.13166	-5.60829	5.52E-07	CAP1	1.433902	8.661874	3.75E-12
GLRB	-2.13663	-6.98994	2.64E-09	TRIP13	1.43536	8.244543	1.91E-11
GPD1L	-2.13926	-11.0276	4.80E-16	PSMB9	1.436486	6.003703	1.22E-07
CFD	-2.15828	-9.10566	6.72E-13	S100P	1.4366	2.989247	0.004054
PRR4	-2.1589	-3.28111	0.001728	DSG1	1.438103	3.233223	0.001993
PFKM	-2.17444	-7.02244	2.32E-09	PAIP1	1.444717	5.313677	1.67E-06
IGFBP5	-2.1841	-7.83634	9.48E-11	AXIN1	1.44508	6.763579	6.40E-09
WFDC2	-2.18978	-3.48828	0.000918	DUSP7	1.445245	7.36884	5.95E-10
FABP3	-2.2063	-5.51163	7.95E-07	GLA	1.445755	6.12255	7.73E-08

WIF1	-2.22093	-4.25944	7.35E-05	SUB1	1.448164	7.465553	4.07E-10
ACTG2	-2.22989	-5.16065	2.94E-06	SP110	1.450142	6.400497	2.63E-08
CRYAB	-2.24567	-5.03939	4.60E-06	SDC1	1.450583	4.820813	1.02E-05
AZGP1	-2.25124	-3.01488	0.003768	IFI16	1.454432	8.249743	1.88E-11
MYF6	-2.25286	-5.28242	1.88E-06	IGFBP3	1.455028	5.648644	4.74E-07
THBS4	-2.25365	-4.75149	1.31E-05	SLC25A5	1.455654	6.042588	1.05E-07
CILP	-2.25446	-6.40759	2.56E-08	NMI	1.457775	10.53408	2.97E-15
MYOZ3	-2.25497	-7.01421	2.40E-09	THY1	1.459839	4.732362	1.40E-05
ASPA	-2.25801	-7.04108	2.16E-09	LPCAT1	1.463007	9.782982	5.01E-14
LTF	-2.26772	-3.5014	0.000881	KRT10	1.464417	5.019688	4.94E-06
KIAA1024	-2.26819	-6.59273	1.25E-08	F2R	1.466783	5.380345	1.30E-06
CLDN10	-2.27162	-4.18733	9.41E-05	LMNB1	1.468196	4.725547	1.43E-05
FOXA1	-2.27563	-4.51277	3.05E-05	MAGEA12	1.469755	3.334311	0.001472
PROM1	-2.28222	-4.03015	0.00016	IVL	1.469875	3.321425	0.00153
PKIA	-2.29321	-6.67853	8.92E-09	ITGB4	1.471009	6.245827	4.80E-08
USP13	-2.29425	-6.54606	1.50E-08	ADM	1.472937	5.49709	8.40E-07
PDK4	-2.29734	-4.93588	6.71E-06	PCYT1A	1.474425	7.457488	4.20E-10
SGCG	-2.30572	-5.102	3.66E-06	HDAC1	1.474821	7.680878	1.75E-10
RRAGD	-2.34372	-8.75577	2.61E-12	MPDU1	1.476525	4.57684	2.43E-05
RNASE4	-2.35465	-6.81791	5.17E-09	PRSS23	1.479305	4.601956	2.23E-05
CASQ2	-2.36512	-4.32054	5.96E-05	KIF14	1.481679	6.728914	7.32E-09
RYR1	-2.39122	-4.35373	5.31E-05	NELL2	1.482363	4.50412	3.15E-05
S100A1	-2.39339	-5.68543	4.12E-07	OSTF1	1.484945	6.020794	1.14E-07
DLK1	-2.41007	-7.686	1.71E-10	IFIT1	1.486908	4.608242	2.18E-05
MYOM2	-2.412	-4.50153	3.17E-05	TCFL5	1.488375	6.315287	3.67E-08
FXYD1	-2.45109	-9.5077	1.43E-13	JUP	1.489797	5.795628	2.71E-07
TPM2	-2.47597	-5.97804	1.35E-07	TPM4	1.489969	5.706871	3.80E-07
CACNA1S	-2.47646	-5.37664	1.32E-06	BOLA2	1.491502	7.133159	1.50E-09
CRISP3	-2.47759	-5.36389	1.38E-06	SLC39A8	1.491585	3.064943	0.003264
FLNC	-2.54019	-5.32678	1.59E-06	PCK2	1.493428	4.210844	8.68E-05
MUC7	-2.55667	-3.25013	0.001895	SHB	1.496213	5.245607	2.15E-06
ZBTB16	-2.56293	-7.23848	9.94E-10	S100A10	1.498549	5.645582	4.79E-07
PDLIM3	-2.56519	-4.73332	1.39E-05	SH3GL1	1.499048	4.939059	6.64E-06
TMOD1	-2.58601	-6.04502	1.04E-07	ATP13A3	1.499972	7.419439	4.88E-10
PIP	-2.59006	-3.41283	0.001159	KCNK1	1.500429	5.178019	2.76E-06
AMOT	-2.59336	-8.40999	1.00E-11	NCLN	1.501058	7.054105	2.05E-09
ADH1C	-2.60976	-6.07824	9.17E-08	FOLR3	1.501723	4.364961	5.11E-05
CSRP3	-2.62604	-4.56023	2.58E-05	RAB31	1.508732	9.812842	4.48E-14
ALDH1L1	-2.63705	-9.15362	5.58E-13	CD53	1.513523	3.42191	0.001127
MYBPC2	-2.6475	-4.51888	2.99E-05	AP1S1	1.514131	7.033601	2.22E-09
ADH1A	-2.66838	-7.62643	2.16E-10	CCNE2	1.517639	6.374073	2.92E-08
TNNI1	-2.68471	-3.39533	0.001222	HLA-F	1.518439	6.839029	4.76E-09
PPP1R3C	-2.68492	-7.0563	2.03E-09	ASL	1.522198	5.013746	5.05E-06
TCAP	-2.71638	-6.25095	4.71E-08	LST1	1.524057	5.28585	1.85E-06
PPP1R1A	-2.72196	-8.24416	1.92E-11	CEMIP	1.527782	4.6923	1.62E-05
PLA2G16	-2.75879	-6.51864	1.66E-08	CD27	1.527848	2.676181	0.009593
HBB	-2.76929	-6.02325	1.13E-07	ITGA5	1.541763	5.346474	1.48E-06

ABCA8	-2.79932	-7.61919	2.23E-10	SLC7A5	1.543529	5.542619	7.07E-07
CHRD1	-2.83763	-7.66677	1.85E-10	IL1RAP	1.544198	7.293315	8.01E-10
CLIC5	-2.86867	-7.01371	2.40E-09	PHLDA1	1.546119	4.160468	0.000103
MFAP4	-2.87135	-8.29066	1.60E-11	P2RY6	1.548622	5.927106	1.64E-07
PHYH	-2.87484	-7.19379	1.18E-09	TNFAIP3	1.550664	7.643426	2.02E-10
GPD1	-2.87657	-8.5617	5.55E-12	H2AFX	1.550717	5.104462	3.62E-06
MYL2	-2.90639	-4.626	2.05E-05	IL11	1.551579	3.65794	0.000539
TNNT3	-2.91985	-5.25853	2.05E-06	FN1	1.556122	3.439897	0.001066
SLC25A4	-2.92717	-8.65561	3.85E-12	NDEL1	1.557464	5.02049	4.93E-06
TPM3	-2.92852	-5.43246	1.07E-06	CAV2	1.561076	6.556781	1.43E-08
ALDH1A1	-2.93591	-7.74127	1.38E-10	PCNA	1.567588	7.164994	1.33E-09
FBP2	-2.9473	-5.44532	1.02E-06	LAPTM5	1.568572	4.298134	6.44E-05
MYOZ2	-2.95482	-4.80225	1.09E-05	BPGM	1.569601	6.46719	2.03E-08
SGCA	-2.99651	-7.0125	2.41E-09	HOMER3	1.569688	6.734011	7.18E-09
HSPB6	-3.00168	-7.08068	1.85E-09	TRIM29	1.570126	3.800623	0.00034
ADH1B	-3.00625	-6.71474	7.74E-09	PLSCR1	1.576493	5.930519	1.62E-07
MYH11	-3.00944	-9.55963	1.17E-13	CORO1A	1.581507	3.070994	0.003207
DES	-3.00987	-4.40028	4.52E-05	LAS1L	1.58305	6.811841	5.30E-09
ADIPOQ	-3.02697	-5.38692	1.27E-06	CELSR1	1.583431	5.202859	2.52E-06
SYNM	-3.03844	-6.63965	1.04E-08	TWF1	1.584862	7.16123	1.35E-09
GAMT	-3.04075	-7.01714	2.37E-09	IFI35	1.590893	8.243748	1.92E-11
PDE4DIP	-3.04552	-4.88339	8.12E-06	COL4A5	1.591538	6.047683	1.03E-07
ART3	-3.07978	-4.99083	5.49E-06	PPP4R1	1.593349	6.347599	3.24E-08
SELENBP1	-3.08172	-12.4979	2.50E-18	COL4A1	1.597383	6.420825	2.43E-08
ACTN2	-3.08386	-5.40847	1.17E-06	PCDH7	1.597537	6.126659	7.61E-08
RPL3L	-3.10248	-5.84093	2.28E-07	HTATIP2	1.59943	9.183491	4.98E-13
FHL1	-3.1277	-6.3935	2.71E-08	HIST1H2BK	1.599608	6.579958	1.31E-08
TNNC1	-3.15552	-4.16954	9.99E-05	LTB4R	1.60398	4.924705	6.99E-06
PADI2	-3.16324	-5.89823	1.83E-07	AKR1B10	1.604592	4.121663	0.000118
PPP1R3A	-3.18622	-5.81397	2.53E-07	F2RL1	1.606291	7.6868	1.71E-10
MYOM1	-3.1909	-6.76099	6.46E-09	ATP1B3	1.607244	6.209032	5.53E-08
PLN	-3.19508	-7.74432	1.36E-10	RRP12	1.60988	5.017771	4.98E-06
ACTA1	-3.20639	-3.7875	0.000355	HIST1H2BL	1.609907	6.618988	1.13E-08
LDB3	-3.21797	-6.26197	4.51E-08	IFI44L	1.61014	4.068779	0.00014
TSPAN8	-3.2233	-8.87991	1.61E-12	CHPF	1.610306	6.593696	1.24E-08
MYH2	-3.26477	-4.06514	0.000142	ALDH3B2	1.610476	4.430746	4.07E-05
SH3BGR	-3.26798	-7.22145	1.06E-09	ATP10D	1.611656	7.068903	1.93E-09
AMPD1	-3.31562	-7.81522	1.03E-10	AIM2	1.612035	7.580648	2.59E-10
MYL1	-3.37457	-3.65497	0.000544	CYP27B1	1.616504	6.742046	6.96E-09
SLN	-3.37937	-4.56494	2.54E-05	RIPK2	1.618185	5.438371	1.05E-06
NEB	-3.39693	-4.52088	2.97E-05	SOX15	1.618673	5.746923	3.26E-07
MYBPC1	-3.41776	-6.55757	1.43E-08	CHEK1	1.627867	4.652291	1.86E-05
COX6A2	-3.50692	-5.64124	4.87E-07	EREG	1.62995	3.376285	0.001296
CA3	-3.51376	-6.09627	8.55E-08	DBF4	1.63097	4.629512	2.02E-05
TTN	-3.56269	-4.3072	6.24E-05	UPP1	1.631437	5.452243	9.94E-07
MYL3	-3.58986	-5.62561	5.17E-07	CFB	1.631635	5.221064	2.35E-06
COX7A1	-3.59329	-9.27158	3.55E-13	RAC2	1.639242	5.636838	4.95E-07

CAND2	-3.62041	-6.00419	1.22E-07	CDKN2A	1.639512	3.821923	0.000318
STATH	-3.665	-5.78138	2.86E-07	LY6E	1.649776	6.211181	5.49E-08
ATP1A2	-3.6774	-6.62908	1.08E-08	OAS1	1.652454	7.589609	2.50E-10
ENO3	-3.7989	-4.97786	5.76E-06	GNA15	1.654427	5.57461	6.27E-07
MB	-3.81639	-4.92927	6.88E-06	KLK7	1.654449	4.138388	0.000111
APOD	-3.94552	-8.21343	2.16E-11	MIF	1.657738	9.162573	5.39E-13
MYOC	-3.94868	-9.38892	2.26E-13	PLA2G7	1.659131	4.615977	2.12E-05
TNNI2	-3.95041	-5.37859	1.31E-06	NDRG1	1.659224	6.797457	5.60E-09
MYLPF	-3.99426	-4.2579	7.39E-05	DSC3	1.660902	5.095232	3.75E-06
MYH7	-4.11179	-4.39021	4.68E-05	MYOF	1.664303	6.710652	7.87E-09
CKMT2	-4.14519	-7.37186	5.88E-10	DLGAP5	1.664484	7.067365	1.95E-09
TNNC2	-4.32103	-4.82207	1.01E-05	SCG5	1.666454	5.521775	7.65E-07
ATP2A1	-4.32365	-5.81721	2.50E-07	IFITM3	1.667817	7.26751	8.86E-10
PGAM2	-4.38866	-7.45827	4.19E-10	C14orf1	1.671403	5.612687	5.43E-07
PYGM	-5.04614	-7.42455	4.78E-10	GNLY	1.678765	5.644728	4.81E-07
				HIST1H3D	1.679012	3.913513	0.000235
				PDCD10	1.679884	8.549663	5.81E-12
				ENO1	1.683386	8.202693	2.25E-11
				HCP5	1.684154	4.85411	9.03E-06
				MSN	1.686143	11.42408	1.13E-16
				S100A3	1.689355	5.363017	1.39E-06
				IFI44	1.693687	6.151825	6.90E-08
				CASP4	1.694341	7.296634	7.91E-10
				THBS2	1.696457	6.477395	1.95E-08
				CAPG	1.698012	7.209284	1.11E-09
				CXADR	1.698457	4.851609	9.11E-06
				COL4A6	1.699377	7.3396	6.68E-10
				CD44	1.706218	10.33593	6.23E-15
				GZMA	1.706798	4.512894	3.05E-05
				CD52	1.714004	3.335703	0.001466
				BASP1	1.716405	8.201552	2.26E-11
				TNFSF10	1.728937	7.245255	9.67E-10
				DSG2	1.7293	5.801341	2.65E-07
				HLA-A	1.729514	8.325039	1.40E-11
				C1QB	1.733165	4.732869	1.40E-05
				PFN1	1.73493	8.510987	6.76E-12
				PDPN	1.740271	8.289322	1.61E-11
				MMP7	1.744218	2.582686	0.012267
				ITGA6	1.74641	8.049266	4.11E-11
				ASNA1	1.748365	4.597625	2.26E-05
				SPAG5	1.748625	5.516995	7.79E-07
				YWHAZ	1.749296	9.251926	3.82E-13
				PRNP	1.751157	8.350282	1.27E-11
				SERPINE2	1.753859	7.435712	4.58E-10
				SPINT2	1.759644	4.776682	1.19E-05
				ACP5	1.764484	6.786595	5.85E-09
				PFKP	1.768355	5.095182	3.75E-06

C2orf27A	1.770093	5.185407	2.69E-06
CXCL1	1.772497	4.882736	8.14E-06
DKK1	1.773059	3.544711	0.00077
CDC25B	1.781106	6.851404	4.54E-09
STAT1	1.781782	8.403829	1.03E-11
CCL4	1.787465	4.640242	1.94E-05
TMSB10	1.791409	11.75203	3.48E-17
HIST1H2AE	1.792418	5.212119	2.43E-06
VASP	1.795273	7.63144	2.12E-10
PLAUR	1.800427	6.979726	2.74E-09
DFNA5	1.800717	7.209216	1.11E-09
PNP	1.801991	7.355037	6.28E-10
BNC1	1.806689	6.977602	2.77E-09
PTBP3	1.818934	6.926927	3.37E-09
LAD1	1.823421	4.778448	1.19E-05
GINS1	1.823708	7.043541	2.14E-09
STK3	1.828893	7.591176	2.48E-10
PTGES	1.834797	5.554628	6.76E-07
TTK	1.840535	6.205914	5.60E-08
HIF1A	1.84781	9.256371	3.76E-13
SLC16A1	1.850551	5.892184	1.87E-07
MYO5A	1.854582	7.380115	5.70E-10
IFIT3	1.857637	6.06433	9.67E-08
F3	1.85809	4.473	3.51E-05
CTSC	1.863694	10.892	7.90E-16
MAPK13	1.86461	4.337546	5.62E-05
MDFI	1.866176	7.421121	4.85E-10
TFAP2A	1.873684	5.613984	5.40E-07
TUBB2A	1.877586	8.122439	3.09E-11
CDA	1.878232	4.973576	5.85E-06
NT5E	1.887432	4.180496	9.63E-05
KLK8	1.887744	3.751115	0.0004
CNGB1	1.894476	8.872814	1.65E-12
TAP2	1.897969	6.343467	3.29E-08
TK1	1.924666	8.435071	9.09E-12
LOXL2	1.924706	6.018415	1.15E-07
TES	1.925342	7.129726	1.52E-09
GZMB	1.931816	4.392439	4.65E-05
TAP1	1.934108	8.516265	6.62E-12
FCER1G	1.942611	5.963731	1.42E-07
GNAI1	1.947075	8.811913	2.10E-12
STK17B	1.947229	5.543453	7.05E-07
HMGCS1	1.948892	5.164971	2.90E-06
MYBL2	1.955705	6.15611	6.79E-08
LAMB3	1.956934	6.211178	5.49E-08
ACTN1	1.95881	9.918125	3.00E-14
BUB1	1.971565	7.540008	3.04E-10

TPST1	1.974337	8.049671	4.11E-11
VEGFC	1.978443	4.354513	5.30E-05
GRN	2.000766	6.17746	6.25E-08
TP63	2.000841	8.24019	1.95E-11
PDZK1IP1	2.004805	4.490387	3.30E-05
OASL	2.014493	7.42646	4.75E-10
DSC2	2.022209	5.037792	4.63E-06
KPNA2	2.027821	7.816347	1.03E-10
GGH	2.032013	7.511373	3.40E-10
CASP1	2.033912	8.30901	1.49E-11
LRP8	2.047473	8.028927	4.45E-11
SULF1	2.049035	4.774649	1.20E-05
IFI6	2.049785	8.626485	4.31E-12
BST2	2.051129	7.293646	8.00E-10
KIF2C	2.053825	6.762974	6.41E-09
ITGA2	2.060734	7.478409	3.87E-10
GJB3	2.069178	6.834313	4.85E-09
GART	2.071568	7.746412	1.35E-10
ANXA2	2.073678	8.071458	3.77E-11
KIF23	2.077935	5.807065	2.59E-07
GBP1	2.083381	7.056295	2.03E-09
MX1	2.090105	7.388172	5.52E-10
COL3A1	2.091197	5.497577	8.38E-07
PSMB8	2.097789	6.950648	3.07E-09
GPR137B	2.098843	7.272616	8.69E-10
COL1A2	2.107475	6.899199	3.76E-09
SFN	2.110735	5.320073	1.63E-06
CDK5	2.114478	10.69105	1.66E-15
S100A9	2.114941	3.531213	0.000803
TPX2	2.122775	6.610592	1.16E-08
PLCB3	2.138544	6.213615	5.44E-08
FABP5	2.140823	7.797149	1.11E-10
BMP2	2.149846	7.138171	1.47E-09
NEFL	2.154494	6.247227	4.77E-08
ELF4	2.156904	7.669186	1.83E-10
S100A11	2.160414	6.062872	9.73E-08
CXCL13	2.170293	3.860428	0.00028
PTK7	2.170898	8.289877	1.60E-11
AHNAK2	2.172139	5.755858	3.15E-07
DSC1	2.183171	3.637504	0.000575
ABCA12	2.192604	5.156028	3.00E-06
KIF11	2.197077	6.097435	8.52E-08
CYP24A1	2.19731	5.710404	3.75E-07
TRIM14	2.203087	7.150873	1.40E-09
COL5A2	2.203845	7.331144	6.90E-10
DUSP14	2.218426	7.224601	1.05E-09
COL11A1	2.232169	4.680436	1.69E-05

MICB	2.24811	7.058974	2.01E-09
STAM2	2.250018	8.015293	4.70E-11
YKT6	2.251639	8.575486	5.26E-12
KCNJ15	2.253822	8.325407	1.39E-11
DSP	2.259377	4.826026	1.00E-05
ARPC1B	2.263211	10.28363	7.57E-15
CCNB2	2.266699	8.292491	1.59E-11
ADORA2B	2.270001	5.567432	6.44E-07
CCNB1	2.283908	7.061131	1.99E-09
CTSV	2.293292	7.00084	2.53E-09
MYO10	2.312412	8.964436	1.16E-12
SERPINB5	2.316827	5.330743	1.57E-06
BAK1	2.31866	10.71103	1.54E-15
SPRR1B	2.319801	3.097545	0.00297
PHLDA2	2.332876	8.142537	2.85E-11
ASCC3	2.338711	7.254509	9.33E-10
PLAU	2.3403	10.07539	1.66E-14
LAMA3	2.342691	7.207141	1.12E-09
DSG3	2.349786	4.445532	3.86E-05
CKS2	2.351803	8.691467	3.35E-12
GPR183	2.359542	4.854488	9.02E-06
PTTG1	2.361423	7.31874	7.25E-10
CDC20	2.377067	8.674261	3.58E-12
CCL18	2.379759	4.82393	1.01E-05
RUNX3	2.395863	7.680991	1.75E-10
SERPINB3	2.403984	4.373291	4.97E-05
NDC80	2.42235	6.536556	1.55E-08
ANXA2P1	2.423777	8.166373	2.60E-11
KRT5	2.431042	4.652568	1.86E-05
APOL1	2.433998	7.294489	7.97E-10
PTGS2	2.439703	5.104492	3.62E-06
FAP	2.439918	8.160177	2.66E-11
SCO2	2.441406	9.313714	3.01E-13
CCL20	2.460508	5.50195	8.25E-07
POLR1C	2.480654	8.283545	1.64E-11
XAF1	2.492915	7.238886	9.92E-10
LAMP3	2.497003	6.983923	2.70E-09
SERPINB8	2.504218	7.093734	1.75E-09
KRT6A	2.533408	6.220417	5.30E-08
EFNA1	2.534261	7.120247	1.58E-09
LY6D	2.535858	3.744626	0.000408
LSR	2.57467	6.068783	9.51E-08
CHI3L1	2.576694	5.776788	2.91E-07
POSTN	2.580822	7.281468	8.39E-10
RSAD2	2.583065	5.319462	1.63E-06
CLCA2	2.589918	7.26362	9.00E-10
FGFBP1	2.601835	4.34223	5.53E-05

FSCN1	2.613153	10.906	7.50E-16
CDH3	2.653868	11.73324	3.72E-17
APOBEC3B	2.65486	7.575004	2.65E-10
PYGL	2.662565	9.751077	5.66E-14
NUP155	2.674107	8.256059	1.83E-11
SERPINE1	2.68803	7.550294	2.92E-10
KRT75	2.693009	7.642811	2.03E-10
IGSF3	2.712607	6.894924	3.82E-09
CXCL9	2.715784	5.557581	6.69E-07
MYO1B	2.729415	12.18003	7.62E-18
MMP12	2.739998	9.463797	1.70E-13
SNAI2	2.767017	8.250272	1.87E-11
AREG	2.774405	6.386893	2.78E-08
CTPS1	2.793648	10.45198	4.04E-15
TNC	2.832664	10.26759	8.04E-15
PTPRZ1	2.845334	5.913242	1.73E-07
RGS20	2.937217	10.63871	2.01E-15
S100A2	2.938165	7.203922	1.14E-09
GJA1	2.957856	11.5064	8.42E-17
KIAA0101	2.958386	8.885916	1.57E-12
TGFBI	2.972154	9.269705	3.57E-13
COL17A1	2.98263	6.753847	6.64E-09
CDKN3	2.988991	9.038373	8.71E-13
ISG15	3.00374	10.36828	5.52E-15
UBE2C	3.008555	8.595391	4.86E-12
CHST2	3.058357	7.653796	1.94E-10
PTHLH	3.1791	9.432213	1.91E-13
RBP1	3.248238	8.927932	1.34E-12
CXCL11	3.249236	6.314779	3.68E-08
KRT14	3.299558	7.157879	1.36E-09
MMP9	3.313782	7.764072	1.26E-10
SPP1	3.331132	6.782933	5.93E-09
PI3	3.331424	6.815791	5.21E-09
LAMC2	3.418757	10.07355	1.67E-14
IFI27	3.46067	10.29381	7.29E-15
KRT16	3.485348	7.560718	2.80E-10
CXCL10	3.507572	6.411933	2.52E-08
MMP3	3.88762	7.586868	2.53E-10
TYMP	3.977677	12.6639	1.41E-18
S100A7	4.019238	6.828292	4.97E-09
MMP13	4.466895	7.555042	2.86E-10
MMP10	4.698412	7.447426	4.37E-10
MMP1	5.918185	11.3564	1.45E-16

The significantly changed genes of GSE30784

Downregulated				Upregulated			
ID	logFC	t	P.Value	ID	logFC	t	P.Value
PLXNA2	-1.00023	-10.0997	8.16E-20	CLDN1	1.00011	4.180389	4.26E-05
BAG1	-1.00117	-8.04973	5.99E-14	FOXQ1	1.00017	4.613132	6.88E-06
LINC00948	-1.0021	-4.28066	2.83E-05	HORMAD1	1.000583	2.853567	0.004754
MKNK2	-1.00259	-8.89008	2.76E-16	CD300LF	1.000609	5.751922	3.07E-08
C15orf59	-1.00283	-13.8324	2.14E-31	IL18R1	1.000701	5.800347	2.40E-08
TSTD1	-1.00315	-6.29958	1.71E-09	C1S	1.001079	7.20274	1.03E-11
ZFP3	-1.00321	-6.92091	5.30E-11	CLSTN1	1.001662	11.36141	1.20E-23
ATP1B1	-1.00331	-8.34227	9.47E-15	MFSD10	1.001709	8.132896	3.56E-14
SMAD9	-1.00429	-9.24478	2.65E-17	VOPP1	1.002606	7.649674	7.07E-13
TCL1A	-1.0066	-4.17927	4.28E-05	NGFRAP1	1.004754	10.08855	8.80E-20
DBI	-1.00673	-9.61782	2.18E-18	TMEM138	1.004819	12.02498	1.05E-25
RELN	-1.00718	-7.8968	1.55E-13	MAGEA11	1.005617	3.40355	0.000796
MBOAT1	-1.0091	-7.4871	1.89E-12	ISG20	1.006123	5.204665	4.60E-07
CXCL12	-1.00959	-3.67109	0.000306	EML1	1.008013	5.024769	1.07E-06
AHNAK	-1.00971	-13.7855	3.01E-31	ELF4	1.008579	12.02528	1.04E-25
DEFB1	-1.01058	-2.88075	0.004377	ASTN2	1.009761	6.932325	4.96E-11
EPHX1	-1.01117	-5.45359	1.37E-07	LYN	1.010224	5.955402	1.07E-08
RHOD	-1.01128	-4.73481	4.02E-06	ERVMER34	1.011022	5.8965	1.46E-08
HIBCH	-1.01239	-9.21804	3.17E-17	RHOBTB1	1.011953	5.73063	3.43E-08
PEBP1	-1.01342	-12.7225	6.83E-28	STEAP2	1.01311	6.626084	2.83E-10
GMDS	-1.01358	-11.5642	2.83E-24	AKR1B1	1.013485	7.969291	9.89E-14
SMDT1	-1.0137	-15.9214	5.25E-38	ASAP1	1.013782	13.45995	3.22E-30
PCBD2	-1.01405	-9.7495	8.92E-19	NCAPH	1.014951	6.815935	9.66E-11
MIPEP	-1.01413	-9.63884	1.89E-18	CCR7	1.01496	3.301245	0.00113
CAMK2N1	-1.01428	-5.18434	5.07E-07	RNF217	1.017122	9.040636	1.03E-16
CRTAC1	-1.01634	-16.3126	3.08E-39	CDK4	1.017922	14.3328	5.56E-33
SUCLG2	-1.01731	-12.2624	1.90E-26	CEMIP	1.018554	9.371268	1.14E-17
CLINT1	-1.01815	-11.1666	4.76E-23	MYO10	1.019525	8.2272	1.96E-14
MPZL3	-1.0198	-9.35684	1.26E-17	CENPL	1.019724	10.33217	1.64E-20
PLIN1	-1.01997	-6.54287	4.50E-10	MLLT11	1.020143	3.810103	0.000182
LY6G6C	-1.02176	-3.60705	0.000387	KRT6A	1.020786	7.338615	4.60E-12
LY6D	-1.02208	-3.19726	0.001601	FTL	1.022137	11.05917	1.02E-22
ACER1	-1.02359	-7.18144	1.16E-11	HSD17B6	1.023761	7.67232	6.16E-13
SEMA4D	-1.024	-8.60978	1.71E-15	FLG2	1.02422	2.445069	0.015303
ABCA6	-1.02446	-7.54309	1.35E-12	DTX3L	1.025818	9.735775	9.79E-19
DLEU1	-1.02663	-8.8205	4.35E-16	MMP19	1.026491	9.615434	2.21E-18
SOX21-AS1	-1.0271	-8.37811	7.54E-15	VEGFA	1.027423	6.058918	6.22E-09
STYK1	-1.02904	-7.2982	5.84E-12	RAD51AP1	1.027486	7.115477	1.71E-11
CBX7	-1.02988	-6.9014	5.93E-11	TMCC3	1.027804	7.578026	1.09E-12
ECHDC3	-1.03129	-3.99619	8.90E-05	CKS1B	1.028176	9.320908	1.60E-17
DENND2D	-1.03205	-6.63411	2.70E-10	HOXD11	1.028486	6.788609	1.13E-10
TCP11L2	-1.03212	-18.6421	1.77E-46	FUT8	1.029124	6.934703	4.89E-11
MOB4	-1.0371	-13.635	9.00E-31	ITM2C	1.029955	6.677712	2.11E-10
AR	-1.03832	-12.5573	2.26E-27	NINJ2	1.030291	7.286893	6.25E-12

CBR3	-1.03839	-5.64918	5.18E-08	CLEC4A	1.031981	6.002357	8.38E-09
NLRX1	-1.03845	-7.07913	2.12E-11	FZD6	1.033085	7.271483	6.85E-12
HEBP2	-1.0386	-14.8322	1.45E-34	MYO5A	1.033354	9.270026	2.24E-17
DUOXA1	-1.04005	-6.93067	5.01E-11	APP	1.033452	10.85347	4.33E-22
FAM171A1	-1.04026	-5.4936	1.13E-07	PSTPIP2	1.034769	6.977448	3.82E-11
ERO1L	-1.04297	-6.89091	6.29E-11	SERPINA1	1.034814	9.240143	2.74E-17
FBXO40	-1.04311	-6.23247	2.46E-09	LEPREL4	1.03684	8.505176	3.35E-15
TMEM255/	-1.0435	-4.99059	1.26E-06	SLFN11	1.037387	6.938245	4.79E-11
SYNPO2	-1.04552	-4.60978	6.98E-06	NLRC5	1.037652	5.945308	1.13E-08
PANK1	-1.04653	-6.80083	1.05E-10	MMP14	1.040082	6.851972	7.87E-11
CERS4	-1.04663	-7.46489	2.16E-12	FOSB	1.04034	2.583	0.010471
GOLPH3L	-1.04679	-9.25452	2.49E-17	RPS6KA1	1.040854	9.623146	2.10E-18
DLG3	-1.04711	-9.69261	1.31E-18	SULT1E1	1.042318	4.557434	8.76E-06
ATG9B	-1.0478	-8.16088	2.98E-14	FAM83B	1.04242	5.492812	1.13E-07
ZNF426	-1.04963	-6.68044	2.08E-10	TWSG1	1.042561	10.61318	2.33E-21
MAPK3	-1.05058	-13.1979	2.17E-29	AHR	1.042696	10.38891	1.11E-20
XK	-1.05091	-4.85157	2.38E-06	TMEM263	1.042965	7.584964	1.05E-12
PPARG	-1.05202	-8.7628	6.33E-16	NEK2	1.043258	6.886074	6.47E-11
USP9Y	-1.05301	-3.43601	0.000711	HLA-J	1.044979	9.95493	2.20E-19
CYP11A1	-1.05488	-8.75032	6.87E-16	ZNF114	1.047066	5.624304	5.87E-08
FAM63A	-1.05553	-13.7314	4.46E-31	ASAP1-IT1	1.04763	8.192371	2.45E-14
SCNN1A	-1.05613	-9.27916	2.11E-17	PHLDB2	1.047638	9.598285	2.48E-18
PALMD	-1.05663	-7.99871	8.24E-14	RNASEH2A	1.047775	8.040265	6.36E-14
POF1B	-1.05775	-4.91982	1.74E-06	HSPA2	1.049114	5.027047	1.06E-06
GRAMD3	-1.05804	-9.381	1.07E-17	EXO1	1.049418	7.426451	2.72E-12
EMP2	-1.0588	-8.86009	3.36E-16	SHOX2	1.051466	8.437738	5.15E-15
SLC44A2	-1.05908	-12.2608	1.92E-26	EDNRA	1.054231	5.382241	1.95E-07
MYH6	-1.06046	-5.83697	1.99E-08	IFNGR1	1.054554	11.63721	1.68E-24
ATP6V0E2	-1.06129	-6.75563	1.36E-10	MXRA5	1.054658	4.831196	2.61E-06
HSBP1	-1.06152	-16.8251	7.59E-41	RNF19B	1.054781	7.578909	1.09E-12
ZHX1	-1.06163	-11.0016	1.53E-22	ADTRP	1.055996	6.506897	5.49E-10
IGFBP6	-1.06184	-3.49983	0.000568	FXYS5	1.057804	6.357091	1.25E-09
TC2N	-1.06278	-9.1215	6.02E-17	PTK7	1.059884	11.15807	5.06E-23
LINC01003	-1.06407	-7.82494	2.42E-13	COL6A1	1.060048	9.81723	5.63E-19
CAMSAP3	-1.06466	-8.31665	1.11E-14	APOLD1	1.061486	6.486068	6.16E-10
VPS4B	-1.06507	-11.6694	1.34E-24	RUVBL1	1.062867	9.443828	7.02E-18
RAI2	-1.06637	-8.0737	5.16E-14	SELL	1.06626	3.020691	0.002834
HSD17B8	-1.06681	-8.41449	5.98E-15	GNB4	1.066681	9.410332	8.79E-18
C6orf58	-1.06698	-3.1489	0.001876	MME	1.068548	5.472148	1.25E-07
TEX101	-1.06829	-10.7496	8.96E-22	CD109	1.06898	7.738605	4.11E-13
TNNI1	-1.06846	-2.14958	0.032727	SLC3A2	1.06956	9.474957	5.70E-18
TLR5	-1.06915	-6.19122	3.07E-09	AGTRAP	1.070734	13.6121	1.06E-30
FCGBP	-1.07154	-3.55017	0.000475	APMAP	1.071466	11.62047	1.89E-24
BCKDHB	-1.07206	-11.1336	6.01E-23	ARRB2	1.071575	6.97369	3.91E-11
SLIT2	-1.07265	-5.77937	2.67E-08	BAK1	1.071828	9.197449	3.64E-17
MAP3K1	-1.07286	-11.1152	6.85E-23	EN1	1.072561	4.799161	3.01E-06
SCARA3	-1.07484	-9.41779	8.36E-18	COL8A2	1.072756	6.133221	4.19E-09

MYRIP	-1.07521	-14.7938	1.92E-34	CACNA2D3	1.073715	6.615791	2.99E-10
OR7E47P	-1.07543	-7.73373	4.23E-13	PAG1	1.07377	6.989536	3.57E-11
PRADC1	-1.07639	-9.62834	2.03E-18	CCM2	1.074263	10.50692	4.88E-21
PRELP	-1.07688	-6.95872	4.26E-11	NDRG1	1.074977	7.040116	2.66E-11
E2F8	-1.0795	-6.35541	1.26E-09	HLA-A	1.075588	11.60665	2.09E-24
ALDH6A1	-1.07953	-9.9716	1.96E-19	LAPTM5	1.075646	5.821226	2.15E-08
MEOX2	-1.07984	-10.2943	2.13E-20	UBE2S	1.075782	8.172077	2.78E-14
LGALS3	-1.07992	-9.51781	4.27E-18	LRP8	1.0769	7.550376	1.29E-12
TMOD3	-1.08106	-12.7836	4.38E-28	SP110	1.077517	6.847841	8.05E-11
XPA	-1.08322	-9.94912	2.29E-19	AKR1B10	1.079954	2.890828	0.004244
FAM172A	-1.08354	-11.3137	1.68E-23	HLA-F	1.080692	8.013642	7.50E-14
FIBIN	-1.08408	-5.41763	1.64E-07	UBE2T	1.081469	7.043075	2.61E-11
ISOC1	-1.08471	-9.85827	4.26E-19	CLEC7A	1.081724	8.773628	5.90E-16
TRIM13	-1.08617	-11.8279	4.30E-25	ACTN1	1.083109	9.936045	2.50E-19
PARD3	-1.09033	-9.57051	2.99E-18	RBBP8	1.084104	8.980444	1.53E-16
SPRR1A	-1.09143	-3.38232	0.000857	FKBP14	1.085163	9.131581	5.63E-17
MAPK13	-1.09314	-7.12514	1.62E-11	MYC	1.085619	7.93042	1.26E-13
NR2F2-AS1	-1.09355	-9.63815	1.90E-18	BPIFC	1.089522	3.684149	0.000292
RAB27B	-1.09371	-7.03898	2.68E-11	C1QTNF6	1.089587	8.279537	1.41E-14
C4orf3	-1.09469	-13.8825	1.48E-31	FEN1	1.089744	8.795195	5.13E-16
ACAA1	-1.09653	-12.3918	7.46E-27	OIP5	1.092133	5.954191	1.08E-08
PHACTR2	-1.09715	-10.7102	1.18E-21	SLC39A14	1.092361	11.20025	3.75E-23
B3GALT5	-1.09718	-8.64103	1.39E-15	SOX4	1.093055	11.2003	3.75E-23
ANKRD22	-1.09795	-5.40568	1.74E-07	GNA12	1.093797	11.49298	4.70E-24
VLDLR	-1.09828	-5.61409	6.18E-08	ACVR1	1.097882	10.99485	1.60E-22
TLE2	-1.09892	-8.56963	2.21E-15	ID3	1.099596	8.650473	1.31E-15
LOC10013C	-1.10426	-6.99777	3.40E-11	TMEM44	1.100386	8.403269	6.42E-15
FAM149A	-1.10543	-12.5735	2.01E-27	PTPRK	1.102085	10.84794	4.50E-22
GSTM5	-1.10598	-13.4896	2.60E-30	BAX	1.102465	12.94401	1.37E-28
TNFRSF11A	-1.10613	-9.65942	1.64E-18	MNDA	1.102824	6.201189	2.91E-09
PIM1	-1.10622	-8.10804	4.16E-14	EXT2	1.102956	9.176762	4.17E-17
LIPH	-1.10778	-8.26458	1.55E-14	TK1	1.103086	7.918502	1.36E-13
GALNT5	-1.10814	-9.15909	4.69E-17	BC027448	1.105213	7.31202	5.38E-12
ABCA5	-1.1082	-10.4745	6.11E-21	FAM198B	1.106569	6.7003	1.86E-10
TCEA3	-1.10827	-9.11505	6.28E-17	GIN51	1.106584	8.072591	5.19E-14
CD1A	-1.10842	-5.00641	1.17E-06	FBXO6	1.106739	6.347993	1.32E-09
HYMAI	-1.10973	-7.58988	1.02E-12	NID1	1.10727	8.919237	2.28E-16
NCOA1	-1.1115	-12.1977	3.02E-26	EIF5A2	1.107282	7.571776	1.13E-12
HSPB2	-1.1136	-6.24125	2.35E-09	SHCBP1	1.107574	7.553648	1.27E-12
IDNK	-1.1137	-9.7824	7.13E-19	C4orf46	1.10772	8.621215	1.59E-15
PPP1R1A	-1.11424	-8.98797	1.45E-16	CDC45	1.107837	7.631832	7.88E-13
PAQR5	-1.11542	-5.03596	1.02E-06	LGALS3BP	1.108123	9.757831	8.43E-19
SLK	-1.11557	-13.4305	3.99E-30	MXRA8	1.109951	5.461149	1.32E-07
FCHO2	-1.11899	-12.6664	1.02E-27	MSRB1	1.112294	8.455809	4.59E-15
DENND2C	-1.11911	-6.61658	2.98E-10	CHSY1	1.112463	10.9697	1.91E-22
AF289551	-1.11965	-9.33051	1.50E-17	LY96	1.113748	7.211602	9.75E-12
MDFIC	-1.12002	-12.2891	1.56E-26	SLAMF7	1.115761	4.590669	7.59E-06

AKTIP	-1.1208	-13.4374	3.80E-30	WFDC5	1.117639	3.700292	0.000275
TECR	-1.12146	-10.1197	7.11E-20	FAM83A	1.118051	4.560291	8.66E-06
LINC01405	-1.122	-4.58234	7.87E-06	FADS3	1.118118	5.604763	6.48E-08
FAM219B	-1.12704	-15.752	1.80E-37	FMNL2	1.121207	10.5296	4.17E-21
ZNF519	-1.12905	-13.747	3.98E-31	COL18A1	1.123797	8.482509	3.87E-15
MBOAT2	-1.12913	-6.33806	1.39E-09	LOC100507	1.125413	6.830325	8.90E-11
VAT1	-1.13078	-8.88622	2.83E-16	KIF18A	1.125447	7.971794	9.74E-14
FOLR1	-1.13201	-3.836	0.000165	C1QA	1.125902	5.83521	2.00E-08
FIG4	-1.13579	-14.3052	6.79E-33	OLR1	1.12706	4.978296	1.33E-06
RDH12	-1.13627	-3.21031	0.001533	KIF23	1.129292	7.923109	1.32E-13
ALDH3B2	-1.13739	-4.4371	1.47E-05	RRAS2	1.129341	7.62461	8.23E-13
PLCD1	-1.13823	-8.62072	1.59E-15	SLC25A32	1.129545	11.26666	2.34E-23
ITM2A	-1.13946	-5.46129	1.32E-07	THBD	1.130997	5.71611	3.69E-08
BBOX1	-1.141	-3.63171	0.000354	NPTX2	1.131319	5.265911	3.43E-07
AC007292	-1.14474	-13.5884	1.26E-30	CSGALNAC	1.13147	11.33807	1.41E-23
ALAD	-1.14595	-12.9887	9.91E-29	LBH	1.13183	6.095073	5.13E-09
DGAT2	-1.14608	-5.10315	7.44E-07	MYH9	1.132549	12.21529	2.66E-26
SYTL4	-1.1464	-14.3537	4.77E-33	ARNTL	1.133428	8.117442	3.92E-14
KIF1C	-1.15087	-11.0002	1.54E-22	TFPI2	1.133618	3.731905	0.000244
GYS2	-1.15111	-8.21034	2.18E-14	PIM2	1.133954	5.306978	2.81E-07
TPRN	-1.15129	-13.6478	8.21E-31	BLM	1.134103	6.868205	7.17E-11
ZDHH13	-1.15186	-10.354	1.41E-20	IGLV1-44	1.137025	3.833317	0.000167
BEX2	-1.1552	-4.29193	2.70E-05	GTSF1	1.137858	3.265199	0.001276
ITPR2	-1.15522	-12.2734	1.75E-26	TPSB2	1.137955	4.524882	1.01E-05
PLA2G4A	-1.15525	-4.63768	6.18E-06	SCG2	1.140518	5.219137	4.29E-07
TMOD1	-1.15572	-6.47757	6.46E-10	FGD6	1.140575	10.3643	1.31E-20
ZFAND2B	-1.1564	-14.2102	1.36E-32	HLA-C	1.141391	11.50028	4.46E-24
SUOX	-1.1572	-12.5181	3.00E-27	STARD3NL	1.143483	9.395781	9.69E-18
ATP10B	-1.158	-7.82003	2.49E-13	ARTN	1.144642	7.120464	1.66E-11
AIM1L	-1.15841	-10.0165	1.44E-19	EGLN3	1.145058	5.180497	5.16E-07
DEPTOR	-1.16062	-9.40588	9.06E-18	CDKN3	1.145346	6.658617	2.35E-10
GSTA1	-1.16184	-5.92024	1.29E-08	NRG1	1.147162	8.36381	8.26E-15
S100A16	-1.1621	-10.1973	4.17E-20	RBP1	1.148824	8.404389	6.38E-15
LOC285556	-1.16254	-4.61321	6.88E-06	MAD2L2	1.151068	11.11066	7.07E-23
MLIP	-1.16397	-5.89597	1.46E-08	MYH10	1.15147	5.505363	1.06E-07
SLC9A3R1	-1.16533	-7.95614	1.07E-13	LILRB2	1.152643	6.988545	3.59E-11
AOX1	-1.16591	-6.36031	1.23E-09	STARD4	1.155483	7.091061	1.98E-11
SPTBN2	-1.16629	-9.50678	4.60E-18	IQCG	1.155556	7.041266	2.64E-11
EBF1	-1.16767	-7.13586	1.52E-11	GALNT18	1.15565	12.52504	2.85E-27
PRIMA1	-1.1682	-5.59853	6.69E-08	FCGR2A	1.156317	14.52596	1.36E-33
LRBA	-1.1683	-10.9798	1.78E-22	SSFA2	1.157813	8.372772	7.80E-15
ATP2A1	-1.1696	-7.22289	9.12E-12	FBXO45	1.158873	9.535668	3.79E-18
NRAP	-1.17027	-5.76859	2.82E-08	VANGL2	1.159072	7.254602	7.57E-12
DUSP13	-1.1753	-7.23116	8.69E-12	HIST1H2BK	1.161462	7.2281	8.85E-12
SDR16C5	-1.17612	-5.95091	1.10E-08	SCRN1	1.161484	8.164432	2.92E-14
ACOX2	-1.17742	-10.1661	5.16E-20	PXN	1.162438	8.555756	2.42E-15
LIFR	-1.1776	-8.87904	2.97E-16	IFI16	1.162457	12.95864	1.23E-28

ACTN2	-1.1798	-3.60315	0.000392	KIF2C	1.165444	7.157717	1.34E-11
SH2D4A	-1.18164	-7.43526	2.58E-12	CD14	1.165788	8.906981	2.47E-16
NTN4	-1.18202	-7.39394	3.30E-12	SLFN5	1.166818	8.357601	8.59E-15
LOC102724	-1.18303	-10.1268	6.77E-20	ACVR1C	1.166998	6.470415	6.72E-10
GPRASP1	-1.18401	-9.69947	1.25E-18	NUDT11	1.168649	5.691824	4.17E-08
MYO6	-1.18402	-9.15572	4.80E-17	ENO2	1.169434	5.705149	3.90E-08
OPLAH	-1.18405	-8.95066	1.85E-16	KANK4	1.174815	4.015364	8.25E-05
FAM83D	-1.18454	-6.29194	1.78E-09	WDR72	1.177139	5.972246	9.82E-09
PLAC9	-1.18786	-10.3224	1.75E-20	XPR1	1.179038	12.06782	7.69E-26
PLBD1	-1.19002	-6.47176	6.67E-10	GPR183	1.179401	5.655257	5.02E-08
CHP1	-1.19014	-12.6962	8.26E-28	BATF2	1.180158	5.358891	2.19E-07
MYL5	-1.19118	-10.1806	4.67E-20	SQLE	1.181644	7.095977	1.92E-11
GOT1	-1.19302	-10.5192	4.48E-21	AQP9	1.181882	5.067128	8.81E-07
PEBP4	-1.19374	-7.32869	4.88E-12	CDCA8	1.184823	7.764758	3.50E-13
GLIDR	-1.19825	-10.0391	1.24E-19	MX2	1.185075	4.748503	3.78E-06
CYSLTR1	-1.19856	-10.4884	5.55E-21	HSPH1	1.187209	9.32136	1.59E-17
NFIA	-1.20032	-11.9507	1.78E-25	HCP5	1.188227	6.708031	1.78E-10
SLITRK5	-1.20754	-12.1691	3.71E-26	MAGEA12	1.190917	3.272315	0.001246
SLC16A9	-1.20761	-4.58581	7.75E-06	ANGPTL2	1.195401	6.424488	8.65E-10
EIF4E3	-1.21215	-12.6386	1.25E-27	GPR68	1.196673	10.89245	3.29E-22
BLVRB	-1.21347	-10.777	7.40E-22	IFITM2	1.198775	10.62478	2.15E-21
BCL11A	-1.21395	-6.24194	2.34E-09	CALB1	1.200144	3.43134	0.000723
IKZF2	-1.21551	-14.3157	6.29E-33	MYBL2	1.202481	8.2579	1.62E-14
COLCA2	-1.21903	-5.33999	2.40E-07	FADD	1.202711	6.270907	2.00E-09
CHPT1	-1.21912	-5.9357	1.19E-08	LOC440173	1.202736	5.723853	3.55E-08
ITLN1	-1.21991	-4.67416	5.26E-06	GFPT2	1.203384	5.483587	1.19E-07
ABHD14B	-1.21999	-8.91816	2.30E-16	SLC52A2	1.204075	9.615335	2.21E-18
RMND5B	-1.22032	-13.4142	4.50E-30	CCDC102B	1.2041	8.332754	1.01E-14
OBFC1	-1.22105	-17.973	2.03E-44	MCAM	1.2047	9.470866	5.86E-18
ANG	-1.22146	-6.37244	1.15E-09	PLEC	1.205987	8.641821	1.39E-15
SCGB1D2	-1.22167	-6.55484	4.21E-10	CPA3	1.206323	5.164294	5.57E-07
PTGR1	-1.22645	-6.91292	5.55E-11	ADA	1.208557	8.420597	5.75E-15
GSTA4	-1.23072	-6.33595	1.40E-09	CDKN1A	1.209345	8.699322	9.56E-16
DDIT4L	-1.23506	-4.08833	6.18E-05	LOC284215	1.211045	8.461683	4.42E-15
TMPRSS4	-1.23546	-5.24577	3.78E-07	LCE2B	1.211109	3.403931	0.000795
RNF128	-1.23752	-3.82312	0.000173	PCDH7	1.211224	6.837541	8.54E-11
FUT2	-1.23818	-7.8755	1.77E-13	CCDC86	1.211366	9.195999	3.67E-17
ACVR2A	-1.239	-9.48121	5.46E-18	TGFB1	1.211948	14.08975	3.27E-32
EFHD1	-1.23914	-7.68522	5.69E-13	ITGB4	1.212414	12.14005	4.57E-26
DANCR	-1.24081	-7.27228	6.81E-12	H2BFS	1.212909	7.068182	2.26E-11
TMEM38A	-1.24126	-7.15545	1.36E-11	ANLN	1.213677	6.31829	1.55E-09
MLPH	-1.24254	-4.66578	5.46E-06	MELK	1.214004	8.088861	4.69E-14
HMGCS1	-1.24266	-7.4695	2.10E-12	LOXL1	1.214575	6.011853	7.97E-09
TRDN	-1.24267	-4.33611	2.25E-05	IGHM	1.215281	3.547773	0.000479
C19orf33	-1.24507	-5.98046	9.41E-09	PDE4B	1.216949	7.275666	6.68E-12
KLHDC8A	-1.2461	-10.7947	6.54E-22	GPX7	1.217975	6.148862	3.85E-09
CRYL1	-1.25034	-9.94908	2.29E-19	GALNT2	1.218742	12.15356	4.15E-26

DUOX1	-1.25397	-9.25748	2.44E-17	SOCS3	1.219482	12.62482	1.38E-27
DCXR	-1.25403	-11.2722	2.25E-23	MT2A	1.219696	7.489639	1.86E-12
AIFM2	-1.25546	-11.37	1.13E-23	TTPAL	1.220114	9.878504	3.71E-19
SLC2A12	-1.25853	-7.35461	4.18E-12	ZNF532	1.223629	12.13546	4.73E-26
SPAG1	-1.25893	-8.09515	4.51E-14	LOXL2	1.224624	15.1161	1.84E-35
PIGN	-1.25924	-9.19127	3.79E-17	BIRC5	1.228693	8.617912	1.62E-15
CIPC	-1.25952	-12.309	1.35E-26	ACSL4	1.228778	11.3288	1.51E-23
RHBDL2	-1.26252	-8.31569	1.12E-14	ATP2C1	1.229118	15.01305	3.89E-35
TCN1	-1.26483	-2.37898	0.018253	PRSS23	1.230846	8.290393	1.32E-14
UNC13B	-1.26663	-9.02955	1.10E-16	CXCL14	1.231832	4.684523	5.03E-06
IVL	-1.26747	-4.1919	4.07E-05	GZMA	1.23582	4.169599	4.46E-05
VPS37B	-1.26795	-11.8639	3.32E-25	IKBIP	1.237992	11.80526	5.05E-25
ASAP3	-1.26796	-9.78602	6.96E-19	PCDH17	1.243085	8.634712	1.45E-15
CEL	-1.2683	-5.36861	2.09E-07	CLMP	1.243923	5.732816	3.39E-08
MYOM1	-1.26845	-6.10895	4.77E-09	MET	1.245985	8.070325	5.27E-14
DCT	-1.27071	-9.08606	7.60E-17	ELAVL2	1.247675	5.597972	6.70E-08
ZBTB7C	-1.27075	-10.4743	6.12E-21	SMTN	1.252323	9.210511	3.33E-17
SECISBP2L	-1.27226	-12.7651	5.01E-28	IGLL3P	1.253665	4.317191	2.43E-05
KIAA1468	-1.27408	-10.5864	2.80E-21	CSPG4	1.256338	6.794518	1.09E-10
TMEM80	-1.2755	-11.3876	9.94E-24	STC1	1.256636	5.954998	1.07E-08
PCOLCE2	-1.27607	-5.30184	2.88E-07	ZNF281	1.256811	10.66425	1.63E-21
TMC4	-1.27941	-5.30017	2.91E-07	AFAP1L2	1.257407	7.09194	1.97E-11
LRRC37A4F	-1.27977	-9.88775	3.48E-19	HOXC10	1.257442	6.251066	2.23E-09
FGFBP1	-1.28072	-5.73221	3.40E-08	PCOLCE	1.26078	5.843963	1.91E-08
JAM2	-1.28107	-7.23247	8.62E-12	TP63	1.263154	7.799102	2.83E-13
TRNP1	-1.28236	-10.2421	3.06E-20	CD274	1.263474	6.603744	3.20E-10
KCNT2	-1.28394	-9.54223	3.62E-18	LAMC1	1.268157	11.59978	2.19E-24
ZNF431	-1.28465	-11.5957	2.26E-24	OAS3	1.26858	8.131349	3.59E-14
CSRP3	-1.28773	-2.52096	0.012443	CARD18	1.269936	4.040597	7.47E-05
TMEM154	-1.28978	-7.97634	9.47E-14	ADAMTS12	1.27212	10.24937	2.91E-20
PRB3	-1.29138	-4.30125	2.60E-05	RFC4	1.273617	9.043056	1.01E-16
LYPD3	-1.29275	-5.87562	1.63E-08	SLC38A6	1.276062	9.988211	1.75E-19
PPFIBP2	-1.29278	-7.89129	1.60E-13	KNSTRN	1.276208	10.2654	2.60E-20
NT5C2	-1.29477	-14.3269	5.80E-33	GAS1	1.278072	7.294813	5.96E-12
RHOV	-1.29544	-7.00227	3.31E-11	PPP1R18	1.279179	9.792227	6.67E-19
STRADB	-1.29823	-14.7787	2.15E-34	TGIF1	1.281007	14.33302	5.55E-33
C18orf25	-1.29946	-16.1893	7.52E-39	PCDHB14	1.281468	6.89214	6.25E-11
SLC27A2	-1.30302	-8.60528	1.76E-15	CDC20	1.282289	7.68556	5.68E-13
ADIPOQ	-1.30356	-6.2331	2.45E-09	KYNU	1.285506	6.375886	1.13E-09
AIM1	-1.30487	-11.2818	2.11E-23	IGLJ3	1.286514	4.964408	1.42E-06
CHAC1	-1.30545	-7.82896	2.36E-13	CALD1	1.287277	8.378775	7.51E-15
OSR1	-1.30898	-9.29952	1.84E-17	GLIPR1	1.287495	8.682315	1.07E-15
OGFRL1	-1.30949	-9.65813	1.66E-18	KLF10	1.288402	12.41374	6.36E-27
LOC101927	-1.31368	-11.9321	2.04E-25	SNAPC1	1.288586	9.054602	9.36E-17
EEF1A2	-1.31739	-4.84731	2.42E-06	STAT4	1.289728	5.708514	3.83E-08
USP54	-1.31836	-9.41027	8.79E-18	SLC20A1	1.290673	10.37777	1.20E-20
ZNF844	-1.32194	-16.9	4.43E-41	TMEM184f	1.291983	16.51797	6.97E-40

LOC101927	-1.32396	-10.7315	1.02E-21	SLC39A4	1.292246	6.679595	2.09E-10
GPR64	-1.32453	-7.41024	3.00E-12	LEMD1	1.294781	5.422825	1.60E-07
NAGK	-1.32708	-13.5511	1.66E-30	PRNP	1.295002	10.72884	1.04E-21
MFSD6	-1.32715	-9.59894	2.47E-18	IFIT2	1.296828	5.495131	1.12E-07
CHCHD10	-1.32882	-9.24248	2.70E-17	PPFIA1	1.297168	6.424274	8.66E-10
DEGS2	-1.32901	-8.18259	2.60E-14	GOS2	1.297852	4.552101	8.97E-06
TMEM254	-1.33296	-10.5185	4.50E-21	SIRPA	1.299753	12.9556	1.26E-28
TJP1	-1.33332	-13.315	9.25E-30	CD163	1.302645	6.449432	7.54E-10
ERMP1	-1.33406	-7.82678	2.39E-13	SPOCK1	1.305253	4.038927	7.52E-05
EPN3	-1.33599	-7.9328	1.24E-13	MCM2	1.308763	7.647301	7.17E-13
P2RY2	-1.33652	-6.19019	3.09E-09	PLK1	1.313342	7.42428	2.76E-12
TPD52L1	-1.33905	-7.51786	1.57E-12	KRTDAP	1.317675	2.476724	0.014046
ANXA1	-1.3398	-7.05301	2.47E-11	ATP13A3	1.319076	11.50161	4.42E-24
AQP5	-1.3398	-5.57137	7.66E-08	FHOD3	1.319398	5.534306	9.22E-08
PHC1	-1.34168	-13.2482	1.50E-29	STRIP2	1.32409	6.795716	1.08E-10
FXYD6	-1.34495	-6.10141	4.96E-09	AP2B1	1.326988	10.79202	6.66E-22
EMCN	-1.34654	-8.02686	6.91E-14	PI15	1.329269	8.808394	4.70E-16
RAB11A	-1.34821	-15.3349	3.73E-36	NRIP3	1.331279	7.898053	1.54E-13
VSIG2	-1.34923	-12.5926	1.75E-27	HLA-B	1.331462	11.79931	5.27E-25
KIAA0232	-1.35216	-14.9555	5.92E-35	RPL39L	1.331768	5.805179	2.34E-08
NEB	-1.35301	-4.0549	7.06E-05	COL5A3	1.333808	7.25389	7.60E-12
ABCA8	-1.35506	-12.2702	1.79E-26	AMIGO2	1.336661	6.252521	2.21E-09
GLTP	-1.3589	-8.10706	4.18E-14	MICALCL	1.337865	6.849508	7.98E-11
FMO1	-1.35924	-4.61543	6.81E-06	ABL2	1.339295	12.61493	1.49E-27
EPS8L2	-1.36191	-13.6773	6.62E-31	NMB	1.339596	7.416042	2.90E-12
LLGL2	-1.36308	-12.691	8.58E-28	SH2D5	1.340571	5.757241	2.99E-08
DQ592442	-1.36312	-7.91909	1.35E-13	TPX2	1.340885	8.281534	1.39E-14
RP11-532F	-1.36774	-9.02093	1.17E-16	NAV1	1.341428	11.48481	4.98E-24
SYNGR1	-1.36914	-15.1184	1.81E-35	CXCL16	1.346853	9.41223	8.68E-18
SMPD2	-1.37413	-14.769	2.31E-34	CHPF2	1.349077	14.62903	6.40E-34
TMEM125	-1.37881	-9.31918	1.62E-17	COL4A6	1.349693	8.667402	1.18E-15
ADRA2A	-1.37933	-5.3482	2.30E-07	APOE	1.350746	6.666465	2.25E-10
LOC28307C	-1.38102	-9.2618	2.37E-17	COL27A1	1.352604	14.59696	8.09E-34
GFOD2	-1.3825	-12.8759	2.25E-28	RP4-781L3	1.35527	11.8189	4.58E-25
NOSTRIN	-1.38464	-7.96975	9.86E-14	HMGB3	1.358666	10.86051	4.12E-22
CHST9	-1.38496	-5.51002	1.04E-07	SLC7A8	1.359784	7.231942	8.65E-12
LOC101928	-1.38542	-11.9022	2.52E-25	HCK	1.360398	8.312405	1.15E-14
CD24	-1.38656	-9.10984	6.50E-17	CD86	1.361734	9.105992	6.67E-17
IL17D	-1.38669	-9.00916	1.26E-16	SPAG4	1.363459	5.354107	2.24E-07
AK055981	-1.38715	-10.307	1.95E-20	GUCY1B3	1.363766	7.709592	4.90E-13
ZNF662	-1.38994	-10.5864	2.80E-21	SHC1	1.368598	12.82293	3.30E-28
MYO5B	-1.39092	-12.0534	8.53E-26	SMAD7	1.371364	12.13855	4.62E-26
PHACTR4	-1.39216	-13.2295	1.72E-29	LOC100132	1.371807	7.077385	2.14E-11
FAM107A	-1.39407	-8.23925	1.82E-14	GPR171	1.371971	4.862729	2.26E-06
AOC3	-1.39607	-6.94764	4.54E-11	MICB	1.373118	7.079882	2.11E-11
TSPAN7	-1.39848	-4.95585	1.48E-06	KRT6B	1.378892	7.621393	8.39E-13
ADIRF	-1.39865	-6.68763	2.00E-10	CEBPD	1.37951	11.76774	6.61E-25

TTN	-1.39906	-5.14013	6.25E-07	HAS3	1.381617	10.01238	1.48E-19
TOX3	-1.40116	-6.45778	7.20E-10	NOX4	1.385564	10.36414	1.31E-20
CGN	-1.40132	-10.0242	1.37E-19	SLC15A3	1.385762	8.726763	8.00E-16
ENO3	-1.40193	-7.24155	8.17E-12	COL6A2	1.386011	7.856688	1.99E-13
C8orf22	-1.40202	-7.64788	7.15E-13	ADM	1.386268	8.538605	2.70E-15
PTGDS	-1.40583	-5.93336	1.20E-08	TNFSF4	1.386605	6.568614	3.90E-10
GPR133	-1.40608	-11.1696	4.66E-23	LRRC8E	1.387637	7.527342	1.48E-12
CMYA5	-1.41082	-4.36194	2.02E-05	CHST2	1.390837	12.22803	2.43E-26
RCAN2	-1.41232	-6.97339	3.91E-11	PRTFDC1	1.394627	8.465242	4.32E-15
SMTNL1	-1.41277	-7.04506	2.58E-11	CNTNAP2	1.395491	6.24032	2.36E-09
RP11-250B	-1.41281	-14.6931	4.01E-34	TMEM2	1.396475	9.703029	1.22E-18
COX6A2	-1.41709	-6.47991	6.37E-10	PDGFRB	1.396751	9.356358	1.26E-17
ABI3BP	-1.41725	-10.4133	9.35E-21	F2RL1	1.396778	6.002843	8.36E-09
FAAH2	-1.41794	-8.92018	2.27E-16	HOXD10	1.397489	9.159693	4.67E-17
SYNM	-1.4204	-6.10156	4.96E-09	VEGFC	1.406244	5.186504	5.01E-07
ARHGEF26	-1.42145	-9.14779	5.05E-17	UBE2C	1.406862	10.25431	2.81E-20
KLF8	-1.42276	-12.8892	2.04E-28	IL15RA	1.410406	9.732374	1.00E-18
ALDH9A1	-1.42287	-13.1371	3.37E-29	DTL	1.41108	8.818308	4.41E-16
PLAGL1	-1.43973	-8.69175	1.00E-15	CYTIP	1.411141	5.924821	1.26E-08
C4orf19	-1.43989	-7.69683	5.30E-13	PRKCDBP	1.411437	7.825043	2.42E-13
PROM1	-1.44185	-3.19619	0.001606	CKAP2L	1.414784	8.42727	5.51E-15
TMEM184/	-1.44326	-12.4306	5.63E-27	TNFSF13B	1.417281	6.102909	4.92E-09
ZNF273	-1.44638	-11.9741	1.51E-25	KIAA1644	1.418096	7.357223	4.11E-12
RP11-96D1	-1.44863	-9.29141	1.95E-17	DDIT4	1.420046	8.320949	1.08E-14
GULP1	-1.4501	-10.2858	2.26E-20	SLC7A11	1.42049	5.811889	2.26E-08
DHRS1	-1.45019	-8.97216	1.61E-16	TRAM2	1.421274	15.79653	1.30E-37
DDAH2	-1.45039	-11.8958	2.64E-25	IGLL5	1.423029	3.697721	0.000277
SMPX	-1.45082	-2.98796	0.003141	C11orf96	1.423861	6.154711	3.74E-09
TCEAL2	-1.45211	-8.10223	4.31E-14	BCAT1	1.425045	7.148008	1.42E-11
ARHGEF10/	-1.45246	-14.7618	2.43E-34	IRF7	1.426191	8.078333	5.01E-14
STRBP	-1.45267	-10.2453	2.99E-20	IRF9	1.427354	12.5924	1.75E-27
ULK3	-1.4537	-9.88204	3.62E-19	TPBG	1.427821	12.03831	9.50E-26
RERGL	-1.45375	-12.9332	1.48E-28	LINC01094	1.429441	8.738152	7.43E-16
RANBP9	-1.45533	-14.8408	1.37E-34	FSTL3	1.432644	5.914076	1.33E-08
GAS7	-1.45666	-11.3971	9.29E-24	ZNF469	1.435372	9.52684	4.02E-18
RP11-680F/	-1.45876	-10.3852	1.14E-20	COL4A5	1.435983	11.77664	6.20E-25
INMT	-1.45883	-12.2615	1.91E-26	MS4A7	1.438147	8.700402	9.50E-16
RAB11FIP1	-1.45907	-10.2898	2.20E-20	COLGALT1	1.439199	15.94609	4.39E-38
ACADSB	-1.45923	-11.2605	2.45E-23	FAM101B	1.445945	8.529054	2.87E-15
BPIFA1	-1.46037	-2.83099	0.005089	SFRP2	1.451218	4.308868	2.52E-05
LRRK2	-1.46072	-9.55007	3.44E-18	GEM	1.451332	7.609811	9.01E-13
SPINT1	-1.4614	-13.0476	6.46E-29	TYROBP	1.451486	9.710089	1.17E-18
SPRR2C	-1.46206	-3.23649	0.001405	RELB	1.452089	8.985104	1.48E-16
UPK3B	-1.46227	-12.0014	1.24E-25	MIAT	1.458469	7.526539	1.49E-12
CPPED1	-1.46941	-18.1954	4.18E-45	MLF1	1.45948	5.920128	1.29E-08
TST	-1.47022	-9.49121	5.11E-18	GPR176	1.461545	11.16236	4.91E-23
TMEM120/	-1.47195	-13.5375	1.83E-30	FLNA	1.461798	12.1344	4.76E-26

S100P	-1.47483	-4.19904	3.95E-05	PDGFC	1.467274	7.233009	8.59E-12
FLG-AS1	-1.47917	-18.6557	1.60E-46	DDX58	1.467914	8.107444	4.17E-14
KRT80	-1.48007	-5.43348	1.52E-07	EVA1A	1.468623	5.634905	5.57E-08
XIRP2	-1.48728	-2.90667	0.004043	CCL2	1.47203	6.543678	4.48E-10
FCER1A	-1.4898	-11.3101	1.72E-23	LEPRE1	1.472772	9.710964	1.16E-18
TOM1	-1.49087	-10.8215	5.42E-22	LINC01116	1.472863	7.357533	4.11E-12
C1QTNF7	-1.49265	-15.1008	2.05E-35	IGK	1.475306	4.355064	2.08E-05
ACOX3	-1.49813	-14.2385	1.11E-32	ACP5	1.475469	8.507267	3.30E-15
TRIM6	-1.49971	-9.82314	5.41E-19	C6orf141	1.477146	7.450225	2.36E-12
PPCDC	-1.50194	-14.2968	7.22E-33	CCR1	1.477403	7.827687	2.38E-13
SIM2	-1.50316	-10.2827	2.31E-20	CDC42EP3	1.477982	9.153067	4.88E-17
KRT19	-1.50535	-5.06235	9.01E-07	LIPG	1.478321	6.078083	5.62E-09
PITX2	-1.5087	-4.87098	2.18E-06	SPRY4	1.480988	8.910605	2.41E-16
TMEM246	-1.51076	-8.20612	2.24E-14	PTX3	1.481016	5.168455	5.46E-07
LRG1	-1.51155	-6.03218	7.16E-09	LRRC8D	1.48206	13.32896	8.36E-30
CRABP2	-1.51165	-6.46284	7.00E-10	NTS	1.484218	2.748281	0.00651
FAM129B	-1.51592	-14.1835	1.65E-32	KLF7	1.4868	10.63525	1.99E-21
IL33	-1.51959	-5.53589	9.14E-08	STEAP1B	1.488068	5.298796	2.93E-07
NEBL	-1.52004	-13.0326	7.20E-29	FPR1	1.489912	9.289586	1.97E-17
PBX1	-1.5202	-8.60655	1.74E-15	LAMP5	1.492175	5.905256	1.39E-08
GATSL3	-1.52043	-9.30102	1.83E-17	MMP11	1.493405	7.526681	1.49E-12
LINC00551	-1.52124	-15.0322	3.39E-35	IRX4	1.495167	7.533262	1.43E-12
AL833181	-1.52169	-6.78789	1.13E-10	LURAP1L	1.498306	7.016878	3.04E-11
AGPAT9	-1.52598	-7.70361	5.09E-13	TNFRSF10E	1.501105	12.18462	3.32E-26
LINC01279	-1.52631	-4.92959	1.67E-06	MSANTD3	1.502077	12.36504	9.04E-27
PIK3C2B	-1.5265	-12.2126	2.71E-26	NANOS1	1.502198	6.187488	3.13E-09
CDKN2AIP	-1.52705	-13.6903	6.02E-31	SERPINB4	1.503228	3.069308	0.002427
PAMR1	-1.53011	-9.212	3.30E-17	IFITM3	1.506737	13.16146	2.83E-29
SRPX	-1.5302	-5.30963	2.78E-07	HAS2	1.514095	6.098557	5.04E-09
CCL21	-1.53107	-5.09044	7.90E-07	MEST	1.515081	8.024512	7.01E-14
C15orf52	-1.53404	-11.8679	3.23E-25	GPC6	1.517443	5.308079	2.80E-07
STK39	-1.5341	-11.1445	5.57E-23	GLIS3	1.517624	7.358506	4.08E-12
HBB	-1.53475	-6.44066	7.92E-10	NREP	1.518665	11.20189	3.71E-23
SORBS2	-1.5348	-14.3189	6.15E-33	MDK	1.518962	7.097855	1.90E-11
LOC100506	-1.53632	-10.7049	1.23E-21	CHSY3	1.519061	8.097695	4.44E-14
PMM1	-1.53802	-16.3384	2.55E-39	ENAH	1.519956	12.58545	1.84E-27
FNDC4	-1.53817	-14.7622	2.42E-34	LOC100131	1.522165	9.338018	1.43E-17
AZGP1	-1.53899	-2.74398	0.006593	MX1	1.522244	6.519718	5.11E-10
FGFBP2	-1.54424	-5.49327	1.13E-07	CDKN2A	1.522745	6.032962	7.13E-09
HLCS	-1.54508	-16.4794	9.21E-40	CD69	1.523392	5.628932	5.74E-08
LMOD2	-1.54696	-4.21675	3.68E-05	GPX8	1.523456	8.362611	8.32E-15
ARHGAP32	-1.55003	-10.3327	1.63E-20	KIF14	1.523746	10.20683	3.90E-20
PLCB4	-1.55077	-6.38139	1.10E-09	SHISA2	1.523826	4.746513	3.82E-06
DBNDD1	-1.55227	-13.9726	7.69E-32	CD38	1.524907	5.350136	2.28E-07
PRSS3P2	-1.55291	-8.81256	4.58E-16	CTSL	1.527818	11.25329	2.58E-23
TMEM79	-1.55558	-6.72734	1.60E-10	IFITM1	1.528595	9.979543	1.86E-19
CP	-1.55572	-5.61942	6.02E-08	NRIP1	1.528652	13.51517	2.16E-30

NR2F1	-1.55987	-8.67371	1.13E-15	CCL5	1.528798	5.835487	2.00E-08
OCLN	-1.56383	-12.5242	2.86E-27	ARPC1B	1.530129	12.53785	2.60E-27
ARHGAP5-/	-1.56592	-11.0057	1.48E-22	DNMT3B	1.531639	8.443735	4.96E-15
CYP4F22	-1.56801	-6.26269	2.09E-09	TIMP1	1.532648	8.529396	2.86E-15
SEMA3G	-1.56823	-10.0643	1.04E-19	MZB1	1.53288	4.338017	2.23E-05
SSTR5-AS1	-1.57084	-5.48406	1.18E-07	DUSP6	1.534685	10.06322	1.05E-19
PGAP3	-1.57476	-15.2743	5.80E-36	KDELC1	1.535302	10.40913	9.62E-21
CD1C	-1.57769	-9.10562	6.68E-17	PARP9	1.540395	10.24761	2.94E-20
BTC	-1.58651	-15.5188	9.79E-37	CHI3L1	1.542211	7.427975	2.70E-12
PKIA	-1.58892	-6.3192	1.54E-09	KLHDC7B	1.542269	5.902643	1.41E-08
BTBD11	-1.59135	-7.1108	1.76E-11	SRGN	1.542554	9.324686	1.56E-17
FAM46B	-1.59465	-6.13088	4.24E-09	VMP1	1.543013	8.798394	5.02E-16
LOC646014	-1.59772	-13.4683	3.03E-30	APOBEC3B	1.54313	6.531462	4.79E-10
ALDH3A2	-1.59796	-11.1285	6.24E-23	NUAK1	1.543537	7.76357	3.52E-13
SOSTDC1	-1.5995	-4.78311	3.24E-06	ENPEP	1.545623	8.110293	4.10E-14
SYNPO2L	-1.60728	-6.21669	2.68E-09	LEPREL1	1.547929	9.392032	9.94E-18
GNE	-1.60805	-10.0035	1.58E-19	TEAD4	1.550007	10.7127	1.16E-21
PPP1R1B	-1.60938	-6.93039	5.02E-11	C1QC	1.551991	9.022877	1.15E-16
PIGR	-1.6096	-3.93749	0.000112	STEAP1	1.552304	10.03145	1.30E-19
RP11-38P2	-1.61095	-6.1854	3.17E-09	PLOD1	1.557111	13.32917	8.35E-30
SLC13A4	-1.6128	-15.3651	3.00E-36	SLC7A7	1.560487	9.469233	5.92E-18
LRMP	-1.61392	-5.6707	4.65E-08	CDC25B	1.563108	13.10291	4.32E-29
AQP3	-1.61422	-6.18671	3.15E-09	TTC7B	1.563713	8.263169	1.56E-14
EP300-AS1	-1.61466	-9.40006	9.42E-18	CALU	1.564301	11.72827	8.77E-25
ABAT	-1.61821	-12.0742	7.34E-26	EMILIN1	1.56457	8.057357	5.71E-14
CASQ1	-1.62098	-6.48964	6.04E-10	THEMIS2	1.566996	9.00358	1.31E-16
APOBEC2	-1.62132	-6.43035	8.38E-10	TNS4	1.570811	11.14074	5.72E-23
SLC16A7	-1.62338	-10.7797	7.26E-22	MICAL2	1.570895	12.53421	2.67E-27
COX7A1	-1.62536	-6.698	1.89E-10	PPAPDC1A	1.571757	5.906383	1.39E-08
DUOX2	-1.62931	-5.22669	4.14E-07	PLOD2	1.572894	8.137312	3.46E-14
SYTL1	-1.63161	-10.169	5.06E-20	OAS2	1.574228	9.043096	1.01E-16
MPP7	-1.63226	-12.0466	8.96E-26	CTSC	1.578745	11.98559	1.39E-25
SBSN	-1.63466	-4.01893	8.14E-05	SLA	1.584726	7.465718	2.15E-12
UBL3	-1.64051	-17.9151	3.07E-44	COL8A1	1.585036	12.59112	1.77E-27
SERPINB1	-1.6424	-10.2917	2.17E-20	CST7	1.585317	7.63349	7.80E-13
ELOVL4	-1.64565	-5.77124	2.78E-08	ERRFI1	1.588418	10.55438	3.51E-21
SLC24A3	-1.64804	-7.58466	1.05E-12	ACOT9	1.591287	13.31961	8.95E-30
FXYD1	-1.64837	-7.55842	1.23E-12	LAPTM4B	1.597364	12.02027	1.08E-25
GPR110	-1.6485	-11.5581	2.95E-24	TRIP13	1.599197	8.820263	4.35E-16
GRAMD1C	-1.64893	-7.70328	5.10E-13	IL32	1.606149	7.997591	8.29E-14
DUSP5	-1.65127	-9.06068	8.99E-17	UHRF1	1.606831	9.841226	4.78E-19
EDAR	-1.65168	-13.5782	1.36E-30	AAED1	1.608297	13.54904	1.68E-30
BSPRY	-1.6562	-7.67381	6.10E-13	ALOX12B	1.610924	3.929657	0.000115
IGFL1	-1.6619	-3.74557	0.000232	IL2RB	1.612839	6.825726	9.14E-11
DIO2	-1.66757	-8.07842	5.01E-14	GPNMB	1.613507	10.68975	1.36E-21
ATP12A	-1.67018	-6.93017	5.02E-11	KRT14	1.615818	9.62231	2.11E-18
CKMT2	-1.67214	-5.99481	8.72E-09	PTGFRN	1.621019	12.26712	1.83E-26

P2RY14	-1.67597	-8.03814	6.44E-14	PANX1	1.62221	11.83028	4.23E-25
PAX1	-1.68121	-7.444	2.45E-12	DLX5	1.623854	7.680487	5.86E-13
LMO7	-1.68252	-11.4118	8.37E-24	SLC39A6	1.624155	12.41866	6.14E-27
TCAP	-1.68529	-5.87411	1.64E-08	CDCA5	1.625609	10.60724	2.42E-21
ID4	-1.68732	-13.3955	5.15E-30	SLC6A14	1.626197	4.524324	1.01E-05
MYL2	-1.68753	-2.83793	0.004984	RCN3	1.628956	8.631007	1.49E-15
RP11-747H	-1.69318	-9.66223	1.61E-18	LPAR3	1.630451	7.520569	1.55E-12
CRIP2	-1.69326	-10.1425	6.08E-20	RAC2	1.632056	7.538367	1.39E-12
SYT8	-1.69518	-14.1971	1.49E-32	AX746823	1.632809	8.859786	3.36E-16
ABLIM1	-1.69816	-10.2968	2.10E-20	GPR153	1.633122	10.12911	6.66E-20
PRSS2	-1.69934	-11.8817	2.92E-25	CTSV	1.633528	5.866206	1.71E-08
MXD1	-1.70061	-9.47307	5.77E-18	RP1-86D1.3	1.63708	10.91052	2.90E-22
EHD3	-1.70303	-19.9087	2.50E-50	CAV1	1.638623	7.588589	1.02E-12
ZBED2	-1.70378	-5.92907	1.23E-08	SUGCT	1.642399	7.925069	1.30E-13
ETFDH	-1.70471	-16.5582	5.21E-40	MB21D2	1.646697	13.51359	2.18E-30
RAPGEFL1	-1.70646	-7.5226	1.53E-12	MFHAS1	1.648521	12.90451	1.82E-28
MGST2	-1.7082	-14.7913	1.96E-34	LHFPL2	1.651051	12.568	2.09E-27
SDPR	-1.71215	-11.7528	7.36E-25	FOXMI	1.652572	9.597772	2.49E-18
TGM5	-1.71534	-7.06078	2.36E-11	PSMB9	1.654371	8.15106	3.17E-14
SVIP	-1.72207	-9.00861	1.27E-16	LRP12	1.655344	9.269941	2.25E-17
MLLT4-AS1	-1.72225	-18.3472	1.42E-45	FKBP5	1.657964	6.640206	2.61E-10
KRT15	-1.72317	-5.33405	2.47E-07	ANGPT2	1.658739	11.17715	4.42E-23
TFF1	-1.72656	-4.61037	6.96E-06	HOXB7	1.663082	8.908139	2.45E-16
TF	-1.7276	-8.57349	2.16E-15	CPXM1	1.666945	7.435142	2.58E-12
KRT33A	-1.72801	-11.9749	1.50E-25	DACT1	1.668341	5.877788	1.61E-08
BCAS1	-1.73082	-12.9566	1.25E-28	PROCR	1.673285	10.10317	7.96E-20
TMPRSS2	-1.73945	-12.2139	2.69E-26	C3AR1	1.673667	10.73684	9.80E-22
TMEM178A	-1.74135	-5.41149	1.69E-07	CCNA1	1.685733	4.957363	1.47E-06
PRR15L	-1.74626	-8.57019	2.20E-15	PI3	1.689662	5.852959	1.83E-08
CRISP2	-1.74628	-8.14558	3.29E-14	WNT2	1.691013	6.95451	4.37E-11
TMEM40	-1.74884	-9.53346	3.84E-18	FJX1	1.692928	8.863897	3.27E-16
VAV3	-1.7517	-8.85129	3.56E-16	ITGAV	1.693395	14.49568	1.69E-33
FAM214A	-1.75283	-13.6934	5.89E-31	CTGF	1.696139	7.388619	3.41E-12
ALS2CL	-1.75378	-11.4222	7.77E-24	RAI14	1.697916	10.02747	1.34E-19
RAB25	-1.77132	-8.46194	4.41E-15	F2RL2	1.704442	12.95292	1.28E-28
SLC25A23	-1.77462	-15.6012	5.37E-37	TMEM200A	1.71748	6.942757	4.67E-11
MEIS2	-1.77912	-11.3328	1.47E-23	WDR54	1.721064	11.56604	2.79E-24
CRYAB	-1.78042	-7.11825	1.69E-11	RGS20	1.723117	8.548079	2.54E-15
CYP4X1	-1.78665	-5.32182	2.62E-07	PARP12	1.72469	12.5418	2.52E-27
ZNF750	-1.79208	-7.21777	9.40E-12	TDO2	1.727578	9.775284	7.49E-19
WIF1	-1.79549	-5.93713	1.18E-08	UBE2L6	1.728942	11.64176	1.63E-24
C9orf152	-1.79615	-10.4637	6.59E-21	LOC344887	1.731484	4.975214	1.35E-06
RP11-391N	-1.79741	-11.0426	1.14E-22	LY6E	1.736368	10.43752	7.90E-21
MYH7	-1.79771	-6.61387	3.03E-10	SLC2A3	1.736592	9.246827	2.62E-17
PLEKHA7	-1.7988	-12.3022	1.42E-26	IL12RB2	1.737769	7.454923	2.29E-12
SLC6A4	-1.81292	-17.4491	8.57E-43	RGS4	1.738494	7.271604	6.84E-12
TMPRSS11A	-1.81534	-5.04486	9.77E-07	PGBD5	1.741338	7.642009	7.41E-13

CLU	-1.81712	-8.6924	1.00E-15	RAB31	1.743362	13.89663	1.34E-31
ZDHHC11	-1.81835	-11.2242	3.17E-23	BID	1.746601	13.31027	9.58E-30
ZNF823	-1.81862	-16.3031	3.30E-39	PLAT	1.748421	7.031064	2.80E-11
TRIP10	-1.82532	-17.4581	8.03E-43	PLOD3	1.753786	13.77859	3.16E-31
RFK	-1.82794	-18.8989	2.89E-47	MINPP1	1.761657	16.56637	4.91E-40
EXPH5	-1.83484	-12.4461	5.04E-27	FOS	1.762412	5.634891	5.57E-08
CES2	-1.84098	-10.6153	2.29E-21	RUNX1-IT1	1.766085	7.559299	1.22E-12
PLEKHG6	-1.84181	-12.6227	1.41E-27	RP11-1L12	1.766339	9.095774	7.13E-17
DPT	-1.84546	-6.99613	3.43E-11	POPDC3	1.766609	4.867472	2.21E-06
SERPINB13	-1.84793	-7.02125	2.97E-11	LGALS1	1.767355	11.52544	3.73E-24
AMPD1	-1.85791	-7.23131	8.68E-12	TSHZ3	1.769376	9.411305	8.73E-18
EPB41L3	-1.85934	-11.305	1.79E-23	KIF4A	1.771975	10.90343	3.05E-22
LDOC1	-1.8681	-8.76305	6.32E-16	APOC1	1.773527	8.034707	6.58E-14
CLDN17	-1.86838	-5.70616	3.88E-08	HENMT1	1.779641	10.45434	7.03E-21
SLC16A14	-1.86954	-7.9071	1.46E-13	FNDC1	1.781462	6.517086	5.19E-10
LOC100507	-1.87393	-14.3798	3.94E-33	MAGEA4	1.788093	4.310391	2.50E-05
PLN	-1.87616	-7.72457	4.48E-13	PFN2	1.789276	7.063884	2.32E-11
SERPINB2	-1.87848	-6.50212	5.64E-10	BGN	1.791809	9.227189	2.98E-17
NYNRIN	-1.88013	-11.5778	2.57E-24	CEBPB	1.793682	17.4072	1.16E-42
BEX4	-1.88051	-9.63082	1.99E-18	IGFBP3	1.795015	9.095608	7.14E-17
ATP13A4	-1.8832	-13.8379	2.05E-31	GJA1	1.79785	11.75516	7.23E-25
CFH	-1.88664	-8.87303	3.09E-16	DRAM1	1.803828	13.33298	8.12E-30
SLN	-1.8874	-3.26996	0.001256	SAMSN1	1.814026	9.868297	3.97E-19
CWH43	-1.88818	-5.91706	1.31E-08	CLIC4	1.814435	13.83606	2.08E-31
SH3PXD2A	-1.89337	-9.20205	3.53E-17	SLAMF8	1.816264	10.33533	1.60E-20
SLC44A3	-1.89431	-11.6002	2.19E-24	CHN1	1.819428	12.01578	1.12E-25
GGTA1P	-1.89797	-10.3453	1.50E-20	CTSK	1.819999	10.05761	1.09E-19
LRRN4CL	-1.90426	-10.5972	2.60E-21	WARS	1.820528	8.094927	4.52E-14
NDRG2	-1.90935	-13.8446	1.96E-31	SLC28A3	1.820786	8.352914	8.85E-15
PGAM2	-1.90944	-8.39107	6.94E-15	XAF1	1.821302	9.432461	7.58E-18
SLC35C1	-1.91204	-16.5772	4.54E-40	FCER1G	1.822302	10.99263	1.63E-22
ATP6V1C2	-1.91599	-7.45235	2.33E-12	CXCL5	1.822955	7.838411	2.22E-13
ECHDC2	-1.92194	-11.5267	3.69E-24	CST1	1.82664	4.862736	2.26E-06
MYL3	-1.92485	-6.50573	5.53E-10	FOXD1	1.827696	9.410641	8.77E-18
CEACAM5	-1.92541	-8.92294	2.22E-16	SPARC	1.831293	10.56688	3.21E-21
MYO5C	-1.92636	-6.63112	2.75E-10	EPPK1	1.834722	10.58656	2.80E-21
CTTNBP2	-1.92737	-11.9598	1.67E-25	DKK1	1.837016	4.901346	1.90E-06
C15orf48	-1.93239	-8.39266	6.87E-15	MTCL1	1.83992	11.1136	6.93E-23
MYLPF	-1.93649	-4.07778	6.44E-05	SLCO1B3	1.842229	5.550937	8.48E-08
GREM2	-1.93679	-15.5795	6.29E-37	S100A7A	1.848045	8.466772	4.28E-15
RNASE4	-1.94261	-8.41431	5.99E-15	ZIC2	1.860361	8.285717	1.36E-14
HSPB8	-1.94301	-9.62986	2.01E-18	CEP55	1.863418	12.29431	1.51E-26
LNX1	-1.94749	-15.6835	2.95E-37	LCE3D	1.885539	3.811836	0.000181
SORT1	-1.94841	-16.0922	1.52E-38	NEFL	1.886379	5.808401	2.30E-08
EHF	-1.94875	-9.94392	2.37E-19	C1QB	1.887675	9.655575	1.69E-18
TSPAN6	-1.95411	-12.9327	1.49E-28	ITGA5	1.889154	9.976	1.90E-19
DHRS11	-1.95454	-12.1872	3.26E-26	IRS1	1.890458	11.11312	6.95E-23

REEP6	-1.95661	-15.4665	1.43E-36	SLC2A1	1.892662	9.19228	3.76E-17
CLGN	-1.97187	-8.24123	1.80E-14	SLC38A5	1.893326	6.862957	7.39E-11
SHROOM3	-1.97258	-15.8734	7.43E-38	ICAM1	1.89349	10.45376	7.06E-21
S100A14	-1.98001	-10.8296	5.12E-22	THBS1	1.894985	10.18807	4.44E-20
STX19	-1.9802	-11.3785	1.06E-23	OSMR	1.898118	12.61463	1.49E-27
CXCR2	-1.98103	-10.1308	6.58E-20	FCGR3B	1.898736	9.400975	9.36E-18
HRASLS	-1.98196	-8.68998	1.02E-15	CYP27B1	1.902082	7.845295	2.13E-13
ELF3	-1.98392	-8.39902	6.60E-15	IGFL2	1.90302	5.689072	4.23E-08
NR3C2	-1.98866	-11.593	2.30E-24	CYP24A1	1.913291	7.059698	2.37E-11
FHL1	-1.99662	-6.60437	3.19E-10	FAT1	1.916335	12.5411	2.54E-27
KAT2B	-2.00351	-13.3689	6.25E-30	TYMP	1.916686	13.97691	7.45E-32
MUC4	-2.00363	-7.34946	4.31E-12	CCL18	1.917479	6.950382	4.47E-11
PP14571	-2.00709	-14.7892	1.99E-34	RGS1	1.920696	11.71858	9.40E-25
HOPX	-2.00747	-10.5439	3.77E-21	LPCAT1	1.925158	12.55084	2.36E-27
GRHL1	-2.01026	-8.51794	3.08E-15	CDC6	1.932033	10.82129	5.42E-22
ACKR1	-2.01146	-7.07671	2.15E-11	ODC1	1.935157	8.691615	1.01E-15
LTF	-2.01315	-3.10298	0.002178	AR SJ	1.953045	9.46436	6.12E-18
SCARA5	-2.01321	-11.1772	4.42E-23	TAP1	1.954758	11.82246	4.47E-25
FETUB	-2.01482	-7.85716	1.98E-13	LAMB3	1.956465	8.925605	2.19E-16
LCN2	-2.01887	-5.84213	1.93E-08	GNLY	1.95775	7.807955	2.68E-13
CRIP1	-2.01934	-11.6902	1.15E-24	FBLIM1	1.963996	12.20457	2.87E-26
CA3	-2.02295	-6.23884	2.38E-09	CYP27C1	1.964548	8.526109	2.92E-15
CAPN5	-2.02345	-17.6362	2.25E-43	MMP7	1.965862	5.204953	4.59E-07
PKIB	-2.04073	-15.624	4.55E-37	C4orf48	1.969514	14.0691	3.80E-32
TPPP3	-2.04261	-6.42399	8.68E-10	SMIM3	1.977746	12.55042	2.37E-27
ABLIM3	-2.05611	-12.7951	4.04E-28	FN1	1.981801	7.978964	9.31E-14
IL18	-2.06306	-9.42579	7.92E-18	LTBP1	1.986652	9.939907	2.44E-19
MALL	-2.06764	-10.9946	1.60E-22	COL17A1	1.990702	7.088237	2.01E-11
OGN	-2.07644	-7.11055	1.76E-11	NFIL3	1.990886	14.88966	9.57E-35
ELOVL6	-2.09746	-16.3738	1.98E-39	PNLIPRP3	1.993646	5.071286	8.64E-07
WFDC21P	-2.10352	-7.07726	2.14E-11	TTYH3	1.998611	13.98908	6.82E-32
LOC101928	-2.1096	-12.2093	2.78E-26	USP18	2.000981	8.505197	3.35E-15
TFF3	-2.11337	-5.36603	2.11E-07	FST	2.017401	7.428857	2.68E-12
CD207	-2.11494	-8.70922	8.97E-16	SFRP4	2.034113	5.466643	1.29E-07
MEIS1	-2.12127	-10.738	9.73E-22	CCL8	2.035537	7.585995	1.04E-12
ESPL1	-2.1254	-15.3317	3.82E-36	MARCKSL1	2.035882	11.02923	1.26E-22
PAQR8	-2.12649	-17.3136	2.26E-42	COL16A1	2.037839	14.88773	9.70E-35
SCGB2A1	-2.14469	-6.83777	8.53E-11	GBP1	2.038221	10.45045	7.22E-21
IL1RN	-2.14589	-11.9401	1.92E-25	GALNT6	2.039203	6.623975	2.86E-10
SLC26A2	-2.15628	-12.4431	5.15E-27	TREM2	2.045402	9.712111	1.15E-18
TMEM45B	-2.16079	-7.22595	8.96E-12	DSG2	2.045763	8.73937	7.37E-16
PTN	-2.16499	-10.0132	1.48E-19	KHDC1L	2.049349	6.147777	3.88E-09
FMO2	-2.16654	-5.81922	2.18E-08	AP000525	2.0585	7.966821	1.00E-13
ANGPTL1	-2.17201	-10.1862	4.50E-20	LAMB1	2.059393	14.02352	5.30E-32
SLC27A6	-2.17213	-13.0994	4.44E-29	TPST1	2.076267	10.86026	4.13E-22
KLK13	-2.1795	-8.33173	1.01E-14	LRRC15	2.078743	13.29733	1.05E-29
DMBT1	-2.17969	-4.56628	8.43E-06	MUCL1	2.082056	5.309914	2.77E-07

MFAP4	-2.18093	-8.08506	4.80E-14	HTRA1	2.087798	10.12153	7.02E-20
UPK1A	-2.18311	-9.55074	3.42E-18	SNAI2	2.096224	13.36549	6.41E-30
GPX3	-2.18566	-9.5969	2.51E-18	COMP	2.098227	5.894379	1.47E-08
SPRR3	-2.19317	-5.10125	7.51E-07	TREM1	2.10123	7.55319	1.27E-12
C6orf132	-2.20472	-11.5292	3.63E-24	ADORA2B	2.102031	9.92782	2.65E-19
MUC1	-2.20538	-10.1365	6.33E-20	LL22NC03-	2.105876	9.298206	1.86E-17
APOD	-2.20666	-6.21871	2.65E-09	WFDC12	2.116276	5.033209	1.03E-06
CYP4F12	-2.20766	-10.1259	6.81E-20	MIR31HG	2.118132	7.682998	5.77E-13
CALB2	-2.21167	-11.106	7.31E-23	NCF2	2.127582	12.30008	1.44E-26
C2orf40	-2.21231	-11.6351	1.71E-24	FLRT3	2.136362	5.284297	3.14E-07
SCGB2A2	-2.21622	-7.02885	2.84E-11	LAMP3	2.137576	9.238475	2.77E-17
GRHL3	-2.21731	-8.06322	5.51E-14	DDX60	2.138386	10.97933	1.79E-22
RRAGD	-2.21865	-10.7222	1.09E-21	HOMER3	2.140982	13.06413	5.73E-29
MYOT	-2.21884	-4.682	5.08E-06	AEBP1	2.145064	10.4268	8.51E-21
MYOC	-2.22651	-14.0085	5.92E-32	IFIT1	2.153464	6.902627	5.88E-11
MACC1	-2.2269	-11.8834	2.89E-25	ADAM12	2.156405	12.29851	1.46E-26
SULT2B1	-2.22739	-8.56962	2.21E-15	FPR3	2.157999	11.45852	6.00E-24
SNORA68	-2.23017	-16.7264	1.55E-40	ITGA6	2.158463	13.03579	7.04E-29
MANSC1	-2.23816	-10.8827	3.52E-22	COL12A1	2.164371	11.41314	8.29E-24
PLS1	-2.24114	-7.95166	1.10E-13	OLFML2B	2.169431	10.42208	8.80E-21
CYP4F3	-2.24307	-7.7696	3.40E-13	ANO1	2.178165	7.718601	4.64E-13
FAM221A	-2.24823	-14.1875	1.60E-32	TMEM158	2.194143	10.22428	3.46E-20
PTK6	-2.24956	-12.8067	3.71E-28	GZMB	2.218801	7.949524	1.12E-13
CSTB	-2.26066	-12.7435	5.86E-28	ITGA3	2.229614	12.24181	2.20E-26
KRT23	-2.27131	-6.25429	2.19E-09	PPP1R14C	2.241132	10.53194	4.10E-21
FAM189A2	-2.27579	-14.094	3.17E-32	PTPRZ1	2.250242	10.54199	3.82E-21
ADH1B	-2.27878	-15.3636	3.03E-36	ABCA12	2.259652	7.267654	7.00E-12
MAB21L3	-2.27903	-10.4656	6.50E-21	TLR2	2.261589	12.70618	7.68E-28
KRT24	-2.298	-4.56554	8.46E-06	LOX	2.264884	11.79897	5.29E-25
TNNC1	-2.30113	-4.11483	5.56E-05	RTP4	2.278331	8.833067	4.01E-16
SELENBP1	-2.31678	-10.1891	4.41E-20	SNX10	2.296345	11.88658	2.82E-25
SMAGP	-2.31798	-13.3782	5.84E-30	SPINK6	2.297831	5.199329	4.72E-07
LINC01315	-2.31898	-12.3923	7.43E-27	CDH11	2.298662	10.7317	1.02E-21
COBL	-2.33145	-14.7245	3.19E-34	NELL2	2.299707	6.603846	3.20E-10
PLP1	-2.33265	-12.0356	9.69E-26	COL7A1	2.308426	14.52596	1.36E-33
SAMD5	-2.3364	-15.5982	5.49E-37	ADAMTS2	2.309819	14.66049	5.09E-34
UPK1B	-2.33845	-5.40899	1.71E-07	WISP1	2.325073	12.92034	1.63E-28
ATP1A2	-2.34365	-7.53697	1.40E-12	FSCN1	2.327813	14.77696	2.18E-34
CEACAM6	-2.34529	-7.15996	1.32E-11	SERPINA3	2.335799	5.398204	1.80E-07
C1orf116	-2.34774	-11.0897	8.20E-23	SCG5	2.338985	7.864828	1.89E-13
ZNF185	-2.35033	-11.7174	9.48E-25	NETO2	2.352293	12.07907	7.09E-26
CLDN8	-2.3566	-10.2874	2.24E-20	TNFAIP3	2.355405	14.79002	1.98E-34
KRT31	-2.35845	-9.13106	5.65E-17	TNC	2.357823	11.93339	2.02E-25
BLNK	-2.37051	-10.4139	9.31E-21	DCBLD1	2.359497	12.01874	1.09E-25
LPIN1	-2.37366	-16.6042	3.74E-40	STAT1	2.376663	12.745	5.80E-28
BNIP1	-2.37389	-11.4538	6.21E-24	THBS2	2.402192	10.06369	1.04E-19
CLDN7	-2.38975	-9.43944	7.23E-18	BMP2	2.405514	9.996103	1.66E-19

PPP1R3C	-2.39846	-14.6871	4.19E-34	GBP5	2.410837	8.533458	2.79E-15
TJP3	-2.39852	-15.6378	4.12E-37	FCGR1B	2.436147	10.03645	1.26E-19
CYP2J2	-2.39909	-11.4209	7.84E-24	IFI35	2.436187	12.50984	3.18E-27
KLHL41	-2.40232	-4.76144	3.57E-06	PLEK2	2.436236	10.43979	7.78E-21
SASH1	-2.40459	-15.0412	3.17E-35	PDPN	2.444978	14.18128	1.68E-32
PAIP2B	-2.40945	-13.3858	5.53E-30	CXCR4	2.449955	8.391162	6.94E-15
EVPL	-2.41027	-12.1323	4.83E-26	MYO1B	2.450346	14.65411	5.33E-34
MUC5B	-2.41666	-5.87714	1.61E-08	CHST11	2.478803	13.52141	2.06E-30
C15orf62	-2.41666	-19.2821	1.96E-48	HERC5	2.484981	10.91666	2.78E-22
C1orf177	-2.41836	-15.5426	8.23E-37	CMPK2	2.488969	9.431566	7.62E-18
NUCB2	-2.42417	-20.6761	1.26E-52	ASPRV1	2.498077	5.509127	1.04E-07
RBP7	-2.42769	-11.4581	6.02E-24	EGFL6	2.504554	10.72082	1.10E-21
IGSF10	-2.43055	-13.6713	6.91E-31	FOSL1	2.512226	9.197623	3.63E-17
ACPP	-2.43381	-16.6792	2.17E-40	IFIT3	2.513587	9.65226	1.72E-18
TP53INP2	-2.43967	-14.309	6.61E-33	DSC1	2.51549	4.956672	1.47E-06
EYA2	-2.46072	-9.35315	1.29E-17	CDSN	2.51937	6.026134	7.40E-09
CYP2E1	-2.46556	-8.76238	6.35E-16	SEMA3C	2.522306	10.32288	1.75E-20
SUSD4	-2.47056	-9.79382	6.60E-19	CYR61	2.527728	9.968012	2.01E-19
TGFBR3	-2.47157	-11.155	5.17E-23	CCL11	2.528816	8.653966	1.28E-15
BPIFB2	-2.47492	-5.26341	3.47E-07	CXCL3	2.534832	8.62958	1.50E-15
NMU	-2.47965	-8.39795	6.64E-15	IFI44	2.53826	10.96216	2.02E-22
TMEM100	-2.48306	-13.9716	7.74E-32	APOL1	2.549728	11.9115	2.36E-25
MMRN1	-2.49343	-11.2756	2.20E-23	TGFBI	2.565914	11.75051	7.48E-25
MUC20	-2.49547	-13.161	2.83E-29	CA2	2.567784	7.680845	5.85E-13
MYOZ1	-2.50625	-7.30867	5.49E-12	IL7R	2.573475	9.744411	9.23E-19
EPS8L1	-2.5137	-12.9068	1.80E-28	DFNA5	2.587399	10.84861	4.48E-22
CCDC64B	-2.51967	-12.3749	8.42E-27	C5AR1	2.593295	13.1942	2.23E-29
SLC16A6	-2.52309	-13.1717	2.62E-29	LUM	2.600988	16.07302	1.75E-38
MYBPC1	-2.52645	-5.05833	9.18E-07	WDR66	2.601907	14.15938	1.97E-32
NDNF	-2.53696	-15.3695	2.90E-36	BNC1	2.65109	12.7404	6.00E-28
PLLP	-2.53785	-12.2529	2.03E-26	KRT1	2.669005	3.944948	0.000109
BARX2	-2.54555	-17.5519	4.10E-43	PTGS2	2.70203	8.15929	3.01E-14
MGLL	-2.55354	-14.5929	8.33E-34	KRT75	2.71888	6.884964	6.51E-11
CILP	-2.56463	-8.19245	2.45E-14	C12orf75	2.718955	14.00335	6.14E-32
PIP	-2.5704	-4.93777	1.60E-06	IFI27	2.720669	12.32353	1.22E-26
KLK11	-2.57481	-8.30232	1.22E-14	AIM2	2.758313	9.201793	3.53E-17
MYL1	-2.57586	-3.93563	0.000113	CTA-384D8	2.767899	11.63115	1.75E-24
SFTA2	-2.59542	-14.5484	1.15E-33	EPSTI1	2.771028	11.82784	4.30E-25
DHRS9	-2.59619	-8.78416	5.51E-16	PLAUR	2.779973	16.37318	1.99E-39
KLK12	-2.6027	-7.21461	9.58E-12	NID2	2.788327	12.96604	1.17E-28
HPGD	-2.61924	-9.90274	3.14E-19	IFI44L	2.796363	8.161389	2.97E-14
TGM1	-2.63127	-7.6188	8.53E-13	CCL4	2.809322	11.71671	9.52E-25
CAB39L	-2.64082	-21.6169	2.12E-55	IL6	2.815996	8.287649	1.34E-14
MB	-2.64592	-5.05277	9.42E-07	IL1B	2.849882	8.653315	1.29E-15
CEACAM7	-2.64632	-7.30376	5.65E-12	TMEM45A	2.866847	10.98547	1.71E-22
EPHX3	-2.64689	-7.8962	1.56E-13	SLC16A1	2.874677	14.13115	2.42E-32
SCNN1B	-2.65044	-11.3562	1.24E-23	COL3A1	2.875045	13.82641	2.23E-31

CFD	-2.66319	-11.3855	1.01E-23	IDO1	2.910369	7.989298	8.73E-14
TNNI2	-2.6644	-6.56857	3.90E-10	PMEPA1	2.912619	14.60839	7.44E-34
EMP1	-2.67872	-17.4934	6.24E-43	SPP1	2.932579	11.02323	1.31E-22
CAPNS2	-2.70283	-8.82159	4.32E-16	BCL2A1	2.934567	10.3214	1.77E-20
SCGB3A1	-2.71598	-5.58983	6.98E-08	MAGEA6	2.95178	5.327191	2.55E-07
OR7E14P	-2.72771	-17.1939	5.34E-42	VCAN	2.981889	11.3217	1.59E-23
CXCL17	-2.73684	-7.85936	1.95E-13	COL1A2	2.99199	13.75072	3.88E-31
CYP3A5	-2.75024	-14.4284	2.77E-33	ADAMDEC:	3.00084	8.510348	3.24E-15
GPT2	-2.76005	-12.3881	7.66E-27	POSTN	3.001292	13.09541	4.57E-29
AGR3	-2.76838	-7.08592	2.04E-11	THY1	3.041052	15.6939	2.74E-37
TNNC2	-2.77992	-5.91055	1.36E-08	SULF1	3.059891	11.3659	1.16E-23
DAPL1	-2.79248	-6.64967	2.48E-10	COL1A1	3.129156	18.82721	4.79E-47
GCHFR	-2.82093	-14.0103	5.84E-32	PRR9	3.130595	6.385975	1.07E-09
AGR2	-2.82678	-6.85824	7.59E-11	CXCL6	3.132362	8.945397	1.92E-16
ANKRD35	-2.83366	-13.4886	2.62E-30	PXDN	3.16655	13.96197	8.31E-32
EPHX2	-2.88598	-14.2752	8.46E-33	COL10A1	3.175412	8.874092	3.06E-16
LYVE1	-2.89675	-13.9794	7.32E-32	ASPN	3.181614	10.31004	1.91E-20
LOC102724	-2.91926	-10.9722	1.88E-22	BST2	3.201741	12.64902	1.16E-27
AIF1L	-2.92822	-18.0277	1.38E-44	CCL20	3.210124	7.438841	2.53E-12
CNFN	-2.93576	-7.52602	1.50E-12	OASL	3.283294	11.20134	3.72E-23
TSPAN8	-2.95884	-7.34672	4.38E-12	TENM2	3.303345	10.14456	5.99E-20
SCIN	-2.9591	-18.5099	4.49E-46	RSAD2	3.312447	9.901946	3.16E-19
CEACAM1	-2.95959	-12.5235	2.88E-27	COL6A3	3.314983	17.93378	2.68E-44
FUT6	-2.96922	-17.4724	7.25E-43	COL11A1	3.356114	8.765146	6.24E-16
TM7SF2	-2.98116	-11.073	9.22E-23	IL24	3.375638	9.472989	5.77E-18
TTC9	-2.98536	-14.5836	8.91E-34	IL36G	3.444116	9.09012	7.40E-17
PITX1	-2.99695	-11.9847	1.40E-25	COL4A2	3.510492	20.11908	5.83E-51
PLAC8	-2.99822	-6.94815	4.53E-11	CXCL11	3.515367	8.206465	2.24E-14
VIT	-3.00126	-19.3997	8.63E-49	TNFRSF12A	3.568476	14.79329	1.93E-34
PPL	-3.00404	-12.4674	4.32E-27	PLA2G7	3.60176	15.89236	6.48E-38
GABRP	-3.02582	-6.61008	3.09E-10	SERPINH1	3.647878	19.16471	4.47E-48
ALDH1A1	-3.03384	-8.58028	2.06E-15	CDH3	3.685165	18.2152	3.63E-45
PRSS3	-3.04219	-9.83122	5.12E-19	HOXC6	3.716364	14.2302	1.17E-32
TYRP1	-3.04988	-10.2888	2.21E-20	S100A7	3.718484	10.16688	5.14E-20
FUT3	-3.06164	-15.0553	2.86E-35	COL5A2	3.72419	15.80782	1.20E-37
RAET1E	-3.06581	-11.6788	1.25E-24	COL4A1	3.800549	22.06665	1.04E-56
SCGB1A1	-3.06734	-10.4665	6.46E-21	COL5A1	3.819101	14.84346	1.34E-34
ALOX12	-3.0811	-9.74556	9.16E-19	TNFAIP6	3.837969	14.33273	5.56E-33
MUC15	-3.0919	-9.95598	2.18E-19	MMP9	3.914773	12.86954	2.35E-28
CYP2C18	-3.09869	-9.8156	5.69E-19	ISG15	3.943725	14.4287	2.76E-33
GGT6	-3.10295	-15.0084	4.03E-35	CXCL9	4.022741	9.890737	3.41E-19
ECM1	-3.11884	-13.9362	1.00E-31	MFAP2	4.023363	16.65403	2.61E-40
LOC284825	-3.12022	-24.3516	3.35E-63	INHBA	4.065762	14.3718	4.18E-33
CLIC3	-3.13352	-10.1305	6.60E-20	KRT16	4.094001	13.7665	3.45E-31
PEG3	-3.1354	-12.9953	9.44E-29	MMP13	4.11304	8.200689	2.32E-14
C2orf54	-3.1487	-20.628	1.76E-52	LAMC2	4.178281	15.06421	2.68E-35
TPRG1	-3.18727	-9.99242	1.70E-19	CXCL1	4.178731	14.25267	9.97E-33

SCEL	-3.18959	-12.0584	8.23E-26	CXCL13	4.288425	9.676518	1.46E-18
SPNS2	-3.19638	-14.1028	2.97E-32	SPRR2G	4.461817	8.230987	1.92E-14
PLA2G2A	-3.19718	-6.98771	3.60E-11	PLAU	4.490298	17.84768	4.96E-44
ST6GALNAI	-3.19937	-9.98748	1.76E-19	CTHRC1	4.565173	17.08793	1.14E-41
ACTA1	-3.20549	-4.86425	2.25E-06	PTHLH	4.698533	12.27519	1.73E-26
SLC8A1-AS	-3.22068	-18.6588	1.57E-46	FAP	4.727096	15.62655	4.47E-37
HCG22	-3.26505	-17.2069	4.87E-42	IFI6	4.872446	16.33535	2.61E-39
CKM	-3.26923	-5.65502	5.03E-08	CXCL10	4.903219	11.92982	2.07E-25
C5orf66-AS	-3.27497	-14.8398	1.38E-34	SERPINE1	5.097755	15.52477	9.37E-37
CYP4B1	-3.2808	-12.3291	1.17E-26	GREM1	5.246117	19.98275	1.50E-50
RBM20	-3.28965	-18.7875	6.33E-47	CXCL8	5.272451	13.82639	2.23E-31
BPIFB1	-3.34734	-5.11359	7.08E-07	MMP10	5.920461	12.15161	4.21E-26
PYGM	-3.36014	-9.57477	2.91E-18	MMP12	6.527112	18.03831	1.28E-44
HLF	-3.37151	-14.4198	2.94E-33	MMP3	6.65594	14.82071	1.58E-34
GCNT3	-3.37458	-10.3371	1.59E-20	MMP1	9.096161	22.34133	1.66E-57
A2ML1	-3.38099	-11.002	1.52E-22				
MYH2	-3.42238	-5.31675	2.68E-07				
GPD1L	-3.44047	-15.6055	5.21E-37				
GALNT12	-3.46255	-14.9283	7.22E-35				
PAX9	-3.46284	-13.9873	6.90E-32				
ALDH3A1	-3.48334	-8.74233	7.23E-16				
AADAC	-3.51091	-15.145	1.49E-35				
STATH	-3.51669	-5.9579	1.06E-08				
CRCT1	-3.52158	-8.1448	3.30E-14				
SMIM5	-3.52812	-15.5775	6.38E-37				
GDPD3	-3.5655	-12.4276	5.76E-27				
CHRD1	-3.63949	-10.5387	3.91E-21				
CRYM	-3.67952	-13.9571	8.61E-32				
SNX31	-3.72591	-13.9979	6.39E-32				
ETNK2	-3.76088	-19.6428	1.58E-49				
VSIG10L	-3.79023	-10.7396	9.61E-22				
GBP6	-3.82769	-12.3689	8.80E-27				
MYZAP	-3.84299	-17.5102	5.53E-43				
PADI1	-3.84546	-25.1513	2.09E-65				
ADH7	-3.86615	-10.024	1.37E-19				
ZG16B	-3.8876	-6.34064	1.37E-09				
FLG	-3.91013	-8.67639	1.11E-15				
PSCA	-3.91476	-14.9127	8.09E-35				
CYSRT1	-3.92192	-10.971	1.89E-22				
FMO9P	-4.03616	-19.6885	1.15E-49				
TMPRSS11	-4.05253	-9.23723	2.79E-17				
ATP6VOA4	-4.09692	-23.4241	1.33E-60				
ANXA9	-4.10032	-14.0457	4.51E-32				
CLDN10	-4.15796	-8.94584	1.91E-16				
SPINK7	-4.2637	-8.04802	6.06E-14				
SPINK5	-4.29041	-10.6062	2.44E-21				
MAMDC2	-4.32441	-15.2347	7.74E-36				

KRT4	-4.33725	-10.7074	1.20E-21
IL36A	-4.35442	-15.0266	3.53E-35
KRT13	-4.47405	-7.58703	1.03E-12
ANKRD20A	-4.49603	-23.3086	2.84E-60
C21orf15	-4.51054	-23.8001	1.16E-61
SLURP1	-4.54168	-8.77155	5.98E-16
RHCG	-4.5512	-10.7283	1.04E-21
LOC100506	-4.57081	-20.6166	1.90E-52
SH3BGRL2	-4.61744	-17.2213	4.39E-42
PRSS27	-4.6196	-13.1486	3.10E-29
CAPN14	-4.73414	-12.3894	7.58E-27
FAM3B	-4.78286	-11.3573	1.23E-23
SERPINB11	-4.93945	-13.9384	9.86E-32
CLCA4	-5.14307	-11.3652	1.17E-23
FAM3D	-5.19515	-13.4299	4.01E-30
ENDOU	-5.27062	-15.0909	2.21E-35
TGM3	-5.57705	-10.1696	5.04E-20
KRT78	-5.66483	-15.9568	4.06E-38
LOC441178	-5.66951	-22.773	9.53E-59
MAL	-6.40286	-12.0239	1.05E-25
CRNN	-6.95308	-10.6888	1.37E-21

The significantly changed genes of GSE30991

Downregulated				Upregulated			
ID	logFC	t	P.Value	ID	logFC	t	P.Value
SLC22A17	-1.0022	-6.41696	9.09E-09	CYP26B1	1.000842	7.474499	8.53E-11
TEKT3	-1.0023	-5.94168	6.97E-08	AURKA	1.001106	8.750585	2.69E-13
LOC646962	-1.00231	-4.73481	9.32E-06	FCRLM2	1.00111	7.027669	6.24E-10
SLC8A3	-1.00237	-5.50987	4.23E-07	PCSK9	1.002332	7.457763	9.19E-11
CYP2J2	-1.00273	-7.98863	8.45E-12	FURIN	1.002483	7.630495	4.24E-11
PFKFB1	-1.0031	-7.15181	3.60E-10	RCN3	1.003076	7.416978	1.10E-10
GGT6	-1.00563	-6.20794	2.24E-08	SCARB1	1.003462	6.308216	1.45E-08
GHRL	-1.0065	-5.68217	2.07E-07	IQCA	1.003711	3.500209	0.000763
GNAT1	-1.00762	-6.85918	1.31E-09	C1orf155	1.003945	9.772148	2.66E-15
UNC45B	-1.00904	-3.75573	0.000326	TMEM16J	1.004218	6.007567	5.27E-08
SYN2	-1.00931	-7.31249	1.76E-10	KRT9	1.004259	5.851017	1.02E-07
FLJ10159	-1.01141	-5.38882	6.95E-07	PFKFB4	1.005552	7.353611	1.46E-10
ZNF701	-1.01207	-7.0502	5.65E-10	POTE2	1.006393	3.818602	0.000263
SPRR3	-1.01233	-5.5984	2.94E-07	BICD1	1.007392	7.82982	1.73E-11
RAB9B	-1.01414	-6.30633	1.47E-08	LOC653767	1.007416	5.623795	2.64E-07
MGC62100	-1.01463	-5.47551	4.87E-07	KIF2C	1.008238	5.904558	8.15E-08
LIPL1	-1.01537	-5.77035	1.43E-07	TTYH3	1.008826	10.72622	3.72E-17
GPD1L	-1.01587	-12.1609	7.00E-20	KIF21B	1.008945	7.68853	3.26E-11
PDZRN4	-1.01707	-8.36787	1.52E-12	ARID5A	1.009402	6.118741	3.28E-08
MYH13	-1.01827	-3.89443	0.000203	TCF3	1.009553	5.792986	1.30E-07
RBM24	-1.01858	-4.02509	0.000128	FLJ10815	1.010106	7.565261	5.68E-11
REEP2	-1.01858	-7.76127	2.35E-11	B4GALNT3	1.01022	4.679277	1.15E-05
IGSF22	-1.02096	-7.93574	1.07E-11	SULT1E1	1.010313	3.803817	0.000277
SIGLECP16	-1.02131	-3.75295	0.000329	KIF14	1.010475	7.414741	1.11E-10
NGFRAP1L	-1.02141	-4.36129	3.81E-05	BTBD4	1.011987	6.026291	4.87E-08
SFRP5	-1.02153	-4.66969	1.20E-05	HOXA2	1.013069	4.262804	5.47E-05
TMEM31	-1.02169	-7.50483	7.44E-11	C21orf56	1.013249	5.232042	1.31E-06
CAMK2A	-1.0242	-4.79554	7.37E-06	NEU2	1.013466	3.56484	0.000617
C1orf115	-1.02464	-6.12526	3.19E-08	NOD3	1.015237	6.94533	8.99E-10
IGSF11	-1.02507	-6.31659	1.40E-08	RGS4	1.01591	5.508908	4.25E-07
ANGPT1	-1.02544	-4.8061	7.08E-06	GFPT2	1.017098	4.55109	1.88E-05
TSGA2	-1.02577	-7.03797	5.96E-10	ROBO4	1.017373	9.497265	9.17E-15
OR7E37P	-1.0259	-6.66711	3.06E-09	C14orf73	1.017421	5.066756	2.54E-06
PTPN20A	-1.02657	-3.78916	0.000291	FLJ16478	1.017937	6.47472	7.07E-09
C1orf87	-1.02694	-9.06965	6.34E-14	C5orf16	1.018306	5.465863	5.07E-07
PDE8B	-1.02701	-4.75698	8.56E-06	KIF18A	1.018554	6.096194	3.61E-08
PKIB	-1.02735	-5.97016	6.18E-08	GPR68	1.020037	7.252876	2.29E-10
TM7SF2	-1.02741	-4.75022	8.78E-06	VNN3	1.020215	3.066509	0.002953
BMP3	-1.02776	-7.65674	3.76E-11	CCL18	1.020422	6.682165	2.86E-09
ZNF233	-1.02795	-6.54293	5.26E-09	CDC25C	1.020712	7.097262	4.58E-10
NOXA1	-1.02804	-4.87654	5.38E-06	ARHGEF17	1.021189	8.517576	7.72E-13
SNORD116	-1.02886	-7.97905	8.82E-12	TIGD5	1.022763	8.764574	2.52E-13
ZNF569	-1.02924	-6.22439	2.09E-08	MFHAS1	1.022827	6.59766	4.14E-09
PAQR8	-1.03029	-7.37887	1.31E-10	ZNF474	1.024254	5.386605	7.01E-07

NMNAT3	-1.03129	-7.39236	1.23E-10	HKDC1	1.025864	3.876408	0.000216
MAB21L2	-1.03243	-2.07044	0.041632	KIAA0963	1.026045	7.809698	1.89E-11
CRYAB	-1.0327	-9.82882	2.06E-15	C8orf42	1.028245	5.161851	1.74E-06
GPD1	-1.03405	-8.46241	9.92E-13	LRFN4	1.028312	6.543565	5.24E-09
AZGP1	-1.03455	-3.53368	0.000684	HIST1H2AI	1.029204	5.665828	2.22E-07
FLJ30294	-1.03611	-5.12162	2.04E-06	GMPPB	1.029711	7.331634	1.61E-10
DIRAS3	-1.03635	-9.59064	6.02E-15	HSPG2	1.030867	6.442558	8.13E-09
SLITRK2	-1.03641	-6.2844	1.61E-08	NCOA6IP	1.031338	7.013776	6.64E-10
ABCA10	-1.03652	-9.36027	1.70E-14	RNASE2	1.031907	4.454365	2.70E-05
PACRG	-1.03724	-13.2015	8.48E-22	THOC4	1.032293	7.743137	2.55E-11
PRB3	-1.03831	-3.11818	0.002528	HAMP	1.032995	4.542129	1.94E-05
MIA	-1.03885	-4.50528	2.23E-05	H2BFS	1.032998	8.111613	4.85E-12
CEL	-1.03924	-4.28718	5.01E-05	COL4A1	1.034134	14.26857	1.05E-23
PRKAR2B	-1.04018	-6.29599	1.53E-08	APOBEC3B	1.034562	5.111095	2.13E-06
ZNF493	-1.04083	-9.0359	7.39E-14	AMZ1	1.034703	6.816333	1.59E-09
TDRD10	-1.04174	-8.0274	7.09E-12	CCNF	1.034732	5.994094	5.58E-08
NAALADL2	-1.04198	-5.48695	4.65E-07	LGALS3BP	1.034974	6.835901	1.46E-09
SYPL2	-1.04355	-5.06541	2.56E-06	TNFSF9	1.035855	5.016762	3.10E-06
FLJ35773	-1.04374	-5.64713	2.40E-07	PSG6	1.036909	4.141373	8.49E-05
TCEAL7	-1.04508	-5.70565	1.88E-07	MAML1	1.037867	6.842033	1.42E-09
SLC7A4	-1.04543	-3.9496	0.000167	HIST1H2AK	1.038287	8.326243	1.84E-12
UNQ473	-1.0481	-4.86483	5.63E-06	RAB43	1.038503	7.062739	5.34E-10
ACVR2A	-1.04818	-8.95477	1.07E-13	FBN2	1.03897	6.110673	3.40E-08
HTR3B	-1.0497	-4.72505	9.68E-06	C13orf16	1.040005	6.230999	2.03E-08
PALM	-1.04973	-7.47508	8.50E-11	FOXF2	1.040265	7.437696	1.01E-10
LOC390927	-1.05059	-5.58012	3.17E-07	HIST1H2AF	1.04174	7.399638	1.19E-10
GGTA1	-1.05104	-5.55889	3.46E-07	ANPEP	1.043742	5.319132	9.23E-07
ERN2	-1.05111	-2.64406	0.009853	HELB	1.044175	6.295058	1.54E-08
RAB17	-1.05248	-4.23708	6.01E-05	C1orf186	1.044479	3.846709	0.000239
ANKRD6	-1.05332	-9.16619	4.10E-14	KIAA1862	1.0451	6.622488	3.72E-09
MAP1LC3A	-1.05491	-7.56182	5.76E-11	XRCC3	1.046431	8.53403	7.17E-13
GPR88	-1.05716	-2.99721	0.003627	RELB	1.04746	6.068675	4.06E-08
SMARCD3	-1.05718	-8.40641	1.28E-12	GRIA3	1.047908	5.701844	1.91E-07
C1orf64	-1.05722	-3.00336	0.003562	ITGA5	1.048436	11.17082	5.21E-18
BPIL3	-1.05862	-3.55288	0.000642	SHCBP1	1.049168	11.11433	6.68E-18
LOC440508	-1.06327	-7.17973	3.18E-10	PSG1	1.050789	4.081167	0.000105
SAP18	-1.06468	-10.572	7.38E-17	PCQAP	1.051075	9.6787	4.04E-15
STRC	-1.06568	-6.22245	2.10E-08	CD19	1.051684	2.808544	0.00625
KIAA0644	-1.06955	-5.83334	1.10E-07	UNC5A	1.051836	2.975782	0.003862
LOC442715	-1.07206	-7.80241	1.96E-11	WNT3	1.052714	4.735564	9.29E-06
KIT	-1.0724	-7.73983	2.59E-11	RIN3	1.052876	7.895805	1.28E-11
CA11	-1.07249	-6.75142	2.11E-09	BFSP1	1.053733	5.381498	7.16E-07
PLCB4	-1.07269	-5.79809	1.28E-07	RCOR2	1.05396	5.183857	1.59E-06
LOC221091	-1.07282	-6.27464	1.68E-08	TBL2	1.055993	9.372331	1.61E-14
FUT3	-1.07349	-5.64128	2.46E-07	ADCK5	1.057181	5.518172	4.09E-07
MYH1	-1.07377	-2.9673	0.00396	GABRR2	1.057993	7.232269	2.52E-10
CEACAM1	-1.07391	-6.44828	7.94E-09	CHEK1	1.058352	7.576643	5.39E-11

CYSLTR1	-1.07406	-6.80452	1.67E-09	AYTL2	1.058455	11.05682	8.61E-18
PCDHB6	-1.07493	-4.49943	2.28E-05	GBF1	1.05881	8.186077	3.46E-12
C1orf51	-1.07502	-5.71327	1.82E-07	CNGB1	1.059778	6.956681	8.55E-10
PTCHD3	-1.0753	-7.93486	1.08E-11	BAI2	1.059808	6.142478	2.96E-08
THSD4	-1.07646	-6.42499	8.78E-09	SLC15A3	1.059913	9.333196	1.92E-14
MYB	-1.0782	-9.61434	5.41E-15	FER1L4	1.059945	4.945944	4.10E-06
GPR63	-1.08003	-6.21118	2.21E-08	BCAT1	1.061626	6.593568	4.22E-09
GAS7	-1.08007	-8.91442	1.28E-13	FRMD5	1.061636	6.353908	1.19E-08
LDB3	-1.08016	-8.76099	2.56E-13	LOC284751	1.062904	9.463501	1.07E-14
TCP10L	-1.08177	-10.1056	5.93E-16	HIST1H2BH	1.063717	7.839903	1.65E-11
KCNIP4	-1.08222	-6.34405	1.25E-08	HAS1	1.064082	4.41615	3.11E-05
LOC136306	-1.08332	-4.37211	3.66E-05	VSIG1	1.064337	7.495094	7.77E-11
RNF180	-1.08349	-7.56637	5.65E-11	HTR2C	1.065605	4.963879	3.82E-06
SERHL2	-1.08367	-5.81546	1.19E-07	LOC440836	1.065782	6.219481	2.13E-08
ATP6V0E2L	-1.08399	-8.79689	2.18E-13	DKFZp762E	1.066088	5.130002	1.98E-06
FCGBP	-1.08418	-6.02376	4.92E-08	CXCL1	1.066471	5.461752	5.16E-07
ANKFN1	-1.08702	-4.53301	2.01E-05	ODZ3	1.067138	8.307376	2.00E-12
HNMT	-1.08992	-9.13336	4.75E-14	LOC348262	1.067709	7.089699	4.74E-10
FXYD1	-1.09017	-9.80899	2.25E-15	GSDM1	1.067742	3.673028	0.000431
P2RY14	-1.09108	-7.30169	1.85E-10	KLK14	1.069463	2.432331	0.017231
MUM1L1	-1.09427	-2.86782	0.005281	FSD1NL	1.070057	7.977578	8.88E-12
HS3ST6	-1.09465	-5.15295	1.80E-06	PC	1.07069	6.314937	1.41E-08
GLUL	-1.0963	-6.82377	1.54E-09	IRGQ	1.070849	5.794954	1.29E-07
MAPK4	-1.09683	-7.46581	8.86E-11	LHFPL2	1.072278	6.543077	5.25E-09
SLURP1	-1.09772	-3.33358	0.0013	CLEC12A	1.072969	5.05545	2.66E-06
KERA	-1.09836	-5.36887	7.54E-07	KIAA0802	1.073386	5.546995	3.63E-07
COL4A3	-1.09987	-3.80621	0.000275	DEFA3	1.073696	3.233265	0.001778
PDCL2	-1.10002	-8.84011	1.79E-13	EFNB1	1.075519	8.839328	1.80E-13
CNTN4	-1.10198	-7.22671	2.58E-10	ARSI	1.075713	7.219485	2.66E-10
SLC19A3	-1.10313	-4.54003	1.96E-05	ARFGAP1	1.076557	6.994541	7.23E-10
ART5	-1.10319	-7.96383	9.45E-12	BMPR1B	1.077517	6.957593	8.51E-10
CFD	-1.10371	-12.2157	5.53E-20	DPP3	1.078271	7.295284	1.90E-10
LANCL3	-1.10378	-6.24621	1.90E-08	SIGLEC12	1.07854	6.878858	1.21E-09
ACADSB	-1.10471	-10.2437	3.20E-16	FLJ20105	1.078894	5.289858	1.04E-06
FLJ10986	-1.105	-10.1298	5.32E-16	SLC11A1	1.079905	4.484682	2.41E-05
ACSM1	-1.10566	-6.12693	3.17E-08	CTLA4	1.081892	5.622488	2.66E-07
SERPINB12	-1.10589	-3.02872	0.003304	GRIN3B	1.084868	6.898657	1.10E-09
MMRN1	-1.10598	-5.73714	1.65E-07	CPNE5	1.085567	4.930505	4.36E-06
TCEA3	-1.10608	-8.79309	2.22E-13	CHPF	1.085574	6.453682	7.75E-09
PDGFRL	-1.10658	-4.83419	6.35E-06	CCDC11	1.085695	5.437675	5.69E-07
C20orf191	-1.10703	-4.73132	9.45E-06	LRAP	1.087291	4.58261	1.67E-05
SILV	-1.10955	-3.785	0.000295	EXO1	1.087651	7.100948	4.51E-10
IGF1	-1.11086	-5.88206	8.97E-08	C9orf32	1.088383	6.802524	1.69E-09
SH3GL3	-1.11108	-4.71887	9.91E-06	CNTROB	1.089184	7.40793	1.15E-10
SAMD13	-1.11142	-5.62728	2.60E-07	CD109	1.089792	6.063611	4.15E-08
DNAH7	-1.11164	-3.92781	0.000181	FCGR1A	1.089968	4.720229	9.86E-06
RGS11	-1.11167	-7.53841	6.40E-11	PDIA5	1.09053	11.82087	3.04E-19

PGR	-1.11277	-5.89901	8.35E-08	ATP8A2	1.0908	8.397482	1.33E-12
SMAD9	-1.11289	-8.27577	2.31E-12	FBXL6	1.091068	7.162478	3.43E-10
FYCO1	-1.11315	-7.67431	3.48E-11	SOLH	1.092042	7.660615	3.70E-11
SLC25A4	-1.11345	-9.15564	4.30E-14	CCNL2	1.094142	5.917687	7.71E-08
LRRC3B	-1.11347	-6.17753	2.55E-08	SLC4A3	1.09417	7.098288	4.56E-10
TTY2	-1.11387	-5.1495	1.83E-06	APH1B	1.095379	9.553019	7.13E-15
ARG1	-1.11395	-2.70848	0.008262	COX6B2	1.095813	5.736357	1.65E-07
IL33	-1.11505	-5.01715	3.10E-06	ITGA11	1.095978	4.445041	2.79E-05
NELL1	-1.11527	-5.18353	1.60E-06	PHC2	1.095995	6.718156	2.44E-09
URB	-1.11644	-6.4433	8.11E-09	EME1	1.096093	8.202147	3.22E-12
TLR5	-1.11676	-7.28816	1.96E-10	LOC65360C	1.09631	3.874379	0.000217
LIFR	-1.11731	-8.25651	2.52E-12	DYSF	1.097552	8.554205	6.54E-13
C9orf58	-1.11773	-6.35852	1.17E-08	EPIM	1.09799	8.31661	1.92E-12
MUC15	-1.11856	-6.43881	8.27E-09	OR10A3	1.099142	6.577247	4.53E-09
NIPSNAP3E	-1.11877	-9.06643	6.43E-14	LMNB2	1.100437	6.327442	1.34E-08
GSTM2	-1.11989	-5.70947	1.85E-07	DKFZp434k	1.100506	7.783414	2.13E-11
LOC65023C	-1.12096	-5.90017	8.31E-08	TNFRSF4	1.101278	6.71101	2.52E-09
MYH8	-1.12109	-2.99535	0.003647	GREM1	1.101678	6.798165	1.72E-09
LOC44104C	-1.12155	-5.46246	5.14E-07	STK10	1.101722	8.554524	6.53E-13
FMO5	-1.1224	-5.39564	6.76E-07	HAP1	1.102052	6.363475	1.15E-08
TCBA1	-1.1259	-3.969	0.000156	OLFM2	1.103178	4.232741	6.10E-05
DNAH1	-1.12615	-9.04798	6.99E-14	DHCR7	1.10343	7.166668	3.37E-10
ACOX2	-1.12689	-7.7226	2.80E-11	RP1	1.10562	6.47897	6.94E-09
ABCA9	-1.12795	-8.28191	2.24E-12	INSM2	1.105733	5.801547	1.26E-07
BEXL1	-1.13084	-10.4693	1.17E-16	CITED4	1.105765	5.171842	1.67E-06
TSGA10	-1.13174	-6.14791	2.90E-08	HOXB3	1.10617	5.966487	6.27E-08
ZNF610	-1.13205	-6.21518	2.17E-08	WFDC12	1.106392	2.723765	0.00792
ZNF350	-1.1321	-7.26306	2.19E-10	SHD	1.107409	4.182922	7.31E-05
FLJ23577	-1.13379	-10.7053	4.08E-17	AP2M1	1.10851	9.215778	3.27E-14
CEACAM5	-1.13387	-4.65901	1.25E-05	TRIO	1.109087	6.74548	2.17E-09
ZNF662	-1.13518	-8.2873	2.19E-12	TCOF1	1.109136	9.339957	1.87E-14
DIRAS2	-1.13537	-5.63644	2.51E-07	NELL2	1.111457	5.233163	1.31E-06
FRZB	-1.13564	-8.52312	7.53E-13	REG1A	1.111751	3.339853	0.001275
FLJ30058	-1.13659	-4.77524	7.98E-06	CENPO	1.113038	6.381681	1.06E-08
SLC1A7	-1.13696	-5.0075	3.22E-06	REC8L1	1.114734	8.278369	2.28E-12
DNALI1	-1.13782	-6.33092	1.32E-08	ZIC5	1.117242	5.633952	2.53E-07
ZFP3	-1.13804	-6.98953	7.39E-10	HLA-H	1.117538	4.946425	4.09E-06
LOR	-1.13871	-2.16544	0.033329	NAT11	1.119133	7.552701	6.01E-11
SPINK7	-1.13881	-3.67571	0.000427	OR2B6	1.119661	6.82302	1.54E-09
NDST3	-1.13893	-6.77323	1.92E-09	FLJ23657	1.12032	4.268792	5.35E-05
TFF1	-1.13893	-3.13258	0.00242	HSPC049	1.120393	6.416007	9.13E-09
GLRB	-1.13902	-4.45985	2.64E-05	XPNPEP3	1.121389	7.403302	1.17E-10
C1orf175	-1.13995	-5.76701	1.45E-07	ADA	1.123014	7.173126	3.27E-10
SELP	-1.14056	-4.72617	9.64E-06	CCDC57	1.123108	6.763518	2.00E-09
ANKAR	-1.14295	-10.0232	8.59E-16	ITGB4	1.123876	11.31298	2.79E-18
ZCWPW2	-1.14345	-10.8857	1.83E-17	TMEM104	1.124281	8.535574	7.12E-13
XK	-1.14415	-5.88535	8.84E-08	KCNE4	1.124322	7.006488	6.86E-10

LRRIQ1	-1.14601	-4.42058	3.06E-05	SH2D2A	1.124409	7.738358	2.61E-11
RELN	-1.14735	-7.79931	1.98E-11	DNAJC11	1.124442	7.541375	6.32E-11
TSPYL5	-1.14797	-5.87772	9.13E-08	CACNA1H	1.127023	7.544338	6.23E-11
PLUNC	-1.14812	-2.30543	0.02373	DUSP5P	1.128059	6.597414	4.15E-09
SOX8	-1.14913	-5.96351	6.35E-08	QPCTL	1.129598	5.343781	8.35E-07
ASTN	-1.14917	-6.29078	1.57E-08	RDH16	1.13052	6.251773	1.86E-08
ARMETL1	-1.15017	-8.58471	5.70E-13	PLA2G4E	1.131329	3.509407	0.00074
ACP6	-1.15045	-7.37596	1.32E-10	LCE2A	1.131509	2.240715	0.027813
LMOD1	-1.15068	-5.61379	2.75E-07	DEFA1	1.131783	3.25086	0.001684
KRTHB5	-1.15175	-3.2832	0.001523	FLCN	1.13185	7.519136	6.98E-11
ACACB	-1.15196	-8.02876	7.05E-12	IL1F10	1.132046	3.17763	0.00211
B3GALT2	-1.15203	-6.87875	1.21E-09	ADAMTS14	1.132956	10.60231	6.45E-17
MOSC2	-1.15205	-8.72953	2.96E-13	CSPG4	1.133851	8.674036	3.80E-13
SHRM	-1.15722	-6.25072	1.86E-08	MAF1	1.134206	7.624845	4.34E-11
HTR2B	-1.15866	-4.37993	3.56E-05	RPS6KA4	1.134281	7.601544	4.82E-11
ODF4	-1.159	-5.4312	5.84E-07	MCM2	1.135594	6.548568	5.13E-09
KLRF1	-1.15918	-5.76829	1.45E-07	C6orf10	1.137714	4.273904	5.25E-05
LRRN1	-1.15994	-4.0944	0.0001	OTOF	1.138315	5.545574	3.65E-07
ARPP-21	-1.16081	-3.41702	0.000997	LAMB3	1.141915	9.297358	2.26E-14
MTMR7	-1.16132	-7.38491	1.27E-10	BIK	1.143805	6.43678	8.34E-09
CTSG	-1.16143	-6.55071	5.08E-09	OGFR	1.145221	7.256707	2.26E-10
SOD3	-1.16276	-4.55581	1.84E-05	ZNFX1	1.145806	9.244002	2.88E-14
LRP16	-1.16384	-6.60559	4.00E-09	SPC24	1.146326	8.425589	1.17E-12
NNAT	-1.16481	-4.03029	0.000126	FKBP10	1.147652	5.714072	1.81E-07
BCHE	-1.16767	-4.68248	1.14E-05	SLC13A5	1.148304	2.639145	0.009985
GSTM1	-1.16786	-5.03024	2.94E-06	MELK	1.148713	7.482483	8.23E-11
RLN2	-1.16903	-6.55551	4.98E-09	SH2D3C	1.149997	9.788931	2.46E-15
GABRB3	-1.16936	-6.31775	1.40E-08	SPON2	1.150676	5.37266	7.42E-07
TUBB2B	-1.16946	-5.79381	1.30E-07	HLA-F	1.151131	4.662824	1.23E-05
KRTHA3B	-1.17003	-2.91083	0.004666	CACNA1C	1.151793	9.759747	2.81E-15
ZNF420	-1.17203	-9.07599	6.16E-14	AGTRAP	1.152561	10.77776	2.96E-17
XLKD1	-1.17211	-8.46053	1.00E-12	ENTPD6	1.152588	9.638508	4.85E-15
PDGFD	-1.17259	-5.48759	4.64E-07	MYBPHL	1.152658	4.656451	1.26E-05
SHC4	-1.17287	-4.82957	6.46E-06	TMEM26	1.154154	6.09686	3.60E-08
WFDC6	-1.17352	-6.33242	1.31E-08	WISP3	1.155272	4.200631	6.86E-05
ZNF568	-1.17371	-11.0959	7.25E-18	ERG	1.158019	9.699591	3.68E-15
KLK1	-1.17413	-4.34082	4.11E-05	TNFAIP8L1	1.158836	9.879599	1.64E-15
CYP2C18	-1.17414	-4.16469	7.81E-05	POU3F1	1.158838	7.388003	1.26E-10
EPB49	-1.17477	-8.21107	3.09E-12	MPP4	1.162549	4.304118	4.71E-05
CAPS2	-1.1752	-7.06962	5.18E-10	PTPRR	1.165013	7.397787	1.20E-10
PRH2	-1.1786	-3.2288	0.001803	GLT25D1	1.165523	5.869517	9.45E-08
GFRA3	-1.18033	-4.51199	2.18E-05	MMP19	1.167456	6.185365	2.47E-08
KRT33A	-1.18119	-5.3097	9.59E-07	E2F7	1.168721	5.930553	7.31E-08
CMYA1	-1.18445	-3.97172	0.000155	MYO7A	1.169368	6.717224	2.45E-09
TDRD5	-1.1845	-2.8992	0.004826	KIF17	1.169417	8.718957	3.10E-13
CBLN4	-1.18493	-4.15451	8.10E-05	IFNK	1.172254	5.089252	2.33E-06
SLCO4C1	-1.18577	-5.31154	9.52E-07	UBE2C	1.174103	9.22609	3.12E-14

GPR81	-1.18808	-5.12148	2.05E-06	GPR153	1.177639	7.220233	2.65E-10
BNC2	-1.19004	-6.95125	8.75E-10	C20orf75	1.177775	5.949859	6.73E-08
CCL16	-1.19124	-8.45396	1.03E-12	HDAC10	1.177878	6.656961	3.20E-09
KCNK12	-1.19323	-4.94126	4.18E-06	TRIP13	1.177949	8.704833	3.31E-13
SLC30A8	-1.19444	-4.20092	6.85E-05	ARPC1B	1.183678	9.122528	4.99E-14
PDE1A	-1.19449	-8.30509	2.02E-12	EHMT1	1.183805	5.489618	4.60E-07
OCLN	-1.19497	-5.6095	2.80E-07	PPARD	1.185417	7.170541	3.31E-10
PTGER3	-1.19574	-6.01696	5.06E-08	PYCARD	1.185573	6.549048	5.12E-09
PRDM16	-1.19604	-6.6102	3.92E-09	ZFP64	1.185718	9.676486	4.09E-15
FGF13	-1.19655	-5.57829	3.19E-07	C14orf151	1.186057	5.980257	5.92E-08
LOC653685	-1.19717	-4.60615	1.52E-05	KIF3C	1.186438	5.592746	3.01E-07
LOC130940	-1.19739	-4.4222	3.04E-05	RECQL4	1.186601	4.364176	3.77E-05
RBP7	-1.19902	-9.3605	1.70E-14	PLEK2	1.188021	8.442972	1.08E-12
PSCA	-1.19906	-3.67104	0.000434	LILRA3	1.189313	4.811539	6.93E-06
MEOX2	-1.20201	-8.27202	2.35E-12	FST	1.189815	9.01994	7.94E-14
SYT8	-1.20305	-3.8179	0.000264	GYLTL1B	1.189953	8.707755	3.26E-13
LRRN5	-1.205	-7.36155	1.41E-10	AQP10	1.19056	4.15323	8.14E-05
SOX5	-1.20566	-8.10906	4.90E-12	ABCD1	1.191586	8.490784	8.72E-13
ALDH3A1	-1.20622	-7.04076	5.89E-10	CARD10	1.192602	8.094048	5.25E-12
RNF165	-1.20661	-5.08032	2.41E-06	HERC2P2	1.192844	5.798312	1.28E-07
TNNI3K	-1.20668	-7.46399	8.94E-11	TMEM132A	1.197442	10.29731	2.51E-16
TRHDE	-1.20964	-3.22598	0.001819	ARSB	1.20189	8.886165	1.45E-13
GCHFR	-1.21228	-6.02427	4.91E-08	TSPAN10	1.20366	7.284496	1.99E-10
FAM55D	-1.21296	-3.74377	0.00034	C10orf80	1.207596	5.327288	8.93E-07
CLEC4F	-1.21558	-4.62072	1.44E-05	FLJ16008	1.211681	9.633336	4.96E-15
DKFZP564C	-1.21634	-7.88892	1.32E-11	OSM	1.211919	4.517546	2.13E-05
ZNF396	-1.21641	-7.7609	2.36E-11	PLEC1	1.212707	8.452853	1.04E-12
MAMDC2	-1.21907	-8.53295	7.21E-13	CXCL10	1.213728	5.754393	1.53E-07
C9orf125	-1.21945	-4.96806	3.76E-06	LOC653170	1.214412	8.444483	1.08E-12
PYGO1	-1.22042	-7.93657	1.07E-11	IKIP	1.215676	11.96042	1.66E-19
CBLN1	-1.22061	-3.81752	0.000264	CAMTA2	1.216067	7.031381	6.14E-10
FNDC4	-1.22263	-5.83219	1.11E-07	IFNB1	1.216519	6.589776	4.29E-09
FLJ90586	-1.22547	-5.85432	1.01E-07	RPS7	1.219641	5.523933	3.99E-07
FAM70A	-1.22676	-7.85603	1.54E-11	XTP7	1.219709	7.188902	3.05E-10
LEFTY2	-1.2289	-6.62911	3.61E-09	PPP1R9B	1.220119	7.261799	2.21E-10
RORC	-1.2313	-6.62817	3.62E-09	LOC653490	1.220779	8.647676	4.29E-13
MRAP	-1.23391	-5.63991	2.47E-07	PNPLA1	1.221189	4.20749	6.69E-05
ZNF651	-1.23634	-9.5302	7.90E-15	GPR97	1.221243	5.185132	1.59E-06
FXVD6	-1.23707	-6.64208	3.41E-09	LBH	1.221506	8.243302	2.67E-12
MYLK2	-1.23917	-4.72104	9.83E-06	CELSR3	1.221529	8.385638	1.40E-12
KCTD8	-1.23941	-6.96585	8.21E-10	KLC2	1.222833	7.326019	1.66E-10
LOC619208	-1.23954	-8.12338	4.60E-12	MATN3	1.224007	12.03345	1.21E-19
C10orf71	-1.24085	-4.87311	5.45E-06	LOC654052	1.22587	7.6123	4.60E-11
ZNF447	-1.24092	-9.86193	1.77E-15	TPX2	1.226318	8.205894	3.17E-12
MGC34647	-1.24108	-5.7851	1.35E-07	FAM38B	1.228085	8.278334	2.28E-12
ANKRD20A	-1.24142	-9.88686	1.58E-15	EPSTI1	1.229097	8.676829	3.76E-13
SDPR	-1.24152	-9.47361	1.02E-14	GTSE1	1.229113	7.731171	2.69E-11

KLHL14	-1.24243	-5.46406	5.11E-07	ODF3L1	1.230286	7.409067	1.14E-10
MGC35212	-1.24271	-4.89673	4.97E-06	BCAM	1.230723	7.926792	1.12E-11
KIF5C	-1.24354	-8.07518	5.71E-12	IGF1R	1.231688	7.533403	6.55E-11
FMN2	-1.24354	-7.87716	1.40E-11	CD274	1.23231	5.796862	1.28E-07
KRTAP9-4	-1.24586	-2.90917	0.004689	ST3GAL2	1.233464	7.811924	1.87E-11
RALGPS1	-1.24699	-12.4577	1.96E-20	TRAF2	1.234608	6.188528	2.43E-08
C9orf96	-1.25026	-9.39449	1.46E-14	BCAR1	1.234791	11.465	1.43E-18
RNF175	-1.25176	-7.83368	1.70E-11	DAB2IP	1.234865	11.19556	4.67E-18
MGC42367	-1.25211	-7.13968	3.80E-10	LOC388385	1.234919	7.463327	8.96E-11
SYT13	-1.25254	-2.89771	0.004846	PDE7A	1.235072	11.28704	3.13E-18
FBN3	-1.25342	-4.37738	3.59E-05	CORO1A	1.235102	6.824758	1.53E-09
ZNF435	-1.25487	-7.81691	1.83E-11	FADS1	1.237177	7.492073	7.88E-11
MYH7B	-1.25657	-5.9832	5.84E-08	STC2	1.238683	10.13312	5.24E-16
TMEM38A	-1.25811	-5.1244	2.02E-06	MYO3B	1.242418	5.467221	5.04E-07
ASIP	-1.25886	-4.57314	1.73E-05	DSG2	1.242444	6.238119	1.97E-08
DRD1IP	-1.26076	-6.71857	2.44E-09	LOC653755	1.242861	7.46223	9.01E-11
SLC27A2	-1.26116	-6.18697	2.45E-08	KIF23	1.243779	7.69744	3.14E-11
SCN11A	-1.26126	-6.44969	7.89E-09	NETO1	1.244572	8.006406	7.79E-12
ZNF347	-1.26208	-9.08877	5.81E-14	HOXA9	1.245167	8.352441	1.63E-12
RXRG	-1.26239	-6.85623	1.33E-09	LOC653705	1.245358	9.257854	2.71E-14
KRT7	-1.26278	-3.2216	0.001843	SLC6A2	1.246062	7.730276	2.71E-11
DEFB104B	-1.26434	-5.9843	5.82E-08	FZD2	1.247189	6.771538	1.93E-09
PKIA	-1.26521	-7.94413	1.03E-11	METRNL	1.248109	7.05314	5.58E-10
C10orf13	-1.26542	-9.82624	2.08E-15	DENND1A	1.249963	9.933307	1.29E-15
KCNH8	-1.26565	-7.10261	4.48E-10	PPP1R14C	1.250564	6.505938	6.18E-09
KIAA1683	-1.26609	-9.38707	1.51E-14	OR2L8	1.252668	6.528452	5.60E-09
RYR3	-1.26758	-4.82487	6.58E-06	LTBP1	1.253442	8.744895	2.76E-13
NRG2	-1.26801	-14.0106	3.00E-23	SEMA7A	1.253524	6.196772	2.35E-08
SCARA3	-1.26838	-9.33165	1.94E-14	PEX10	1.254322	7.32819	1.64E-10
FHL5	-1.26857	-5.42122	6.09E-07	UBTD1	1.255725	7.13521	3.87E-10
DPP6	-1.27137	-5.69239	1.99E-07	PDPN	1.256143	14.31412	8.74E-24
ZNF626	-1.2714	-12.1465	7.45E-20	ACP5	1.258326	7.357507	1.44E-10
CD40LG	-1.27196	-5.13055	1.97E-06	BAX	1.259857	9.680032	4.02E-15
ADPRHL1	-1.27221	-7.15787	3.50E-10	IL4I1	1.259943	7.862783	1.49E-11
ZMYND12	-1.27269	-6.55141	5.07E-09	MKL1	1.260502	8.454598	1.03E-12
KLF15	-1.27351	-7.95895	9.66E-12	SP8	1.26168	5.562146	3.41E-07
CLDN17	-1.27386	-3.08087	0.002828	BMP1	1.265303	13.59447	1.66E-22
MGAT4C	-1.27447	-7.4192	1.09E-10	C6orf150	1.266368	11.36927	2.18E-18
CH25H	-1.27461	-5.38133	7.17E-07	NOD27	1.267076	9.005301	8.48E-14
VSIG2	-1.27502	-5.40105	6.61E-07	LEPRE1	1.267446	12.50953	1.57E-20
SLC6A16	-1.27527	-7.79825	1.99E-11	HOXC10	1.269112	7.076776	5.02E-10
MGC48915	-1.27565	-5.31624	9.34E-07	DERL3	1.270937	5.371554	7.46E-07
MYO5C	-1.27723	-10.2729	2.80E-16	KIF20A	1.272247	6.192875	2.39E-08
ARSG	-1.27756	-11.8829	2.32E-19	ANXA13	1.272291	7.325875	1.66E-10
CLDN7	-1.27784	-3.18462	0.002065	ZP4	1.272461	6.421139	8.93E-09
ADHFE1	-1.28017	-8.96747	1.01E-13	HIST1H3G	1.275695	6.923551	9.89E-10
ATOX8	-1.28096	-5.94158	6.97E-08	LYPD1	1.276086	7.765897	2.30E-11

EFCBP1	-1.28125	-6.55118	5.07E-09	PCDH7	1.276336	9.691863	3.81E-15
FOLR1	-1.2836	-3.31259	0.001389	TM7SF4	1.278988	5.724361	1.74E-07
AS3MT	-1.28567	-9.20048	3.51E-14	CNTNAP2	1.281979	3.497608	0.000769
ROPN1	-1.28787	-2.91844	0.004565	SH3TC1	1.28262	8.063271	6.03E-12
MAN1C1	-1.28864	-8.23041	2.83E-12	LIPG	1.283304	5.354207	8.00E-07
GYS2	-1.29053	-6.66129	3.14E-09	PXDN	1.283596	11.55245	9.78E-19
ACPP	-1.29067	-7.47494	8.51E-11	SLC2A9	1.284959	10.47543	1.14E-16
SARM1	-1.29119	-8.85591	1.67E-13	GAST	1.2871	8.767587	2.49E-13
K5B	-1.29128	-5.3731	7.41E-07	C22orf5	1.288408	10.50049	1.02E-16
SYTL4	-1.29168	-11.2984	2.97E-18	GPR176	1.289726	8.005776	7.82E-12
NUDT10	-1.29403	-7.23486	2.49E-10	GDPD2	1.291859	5.071642	2.49E-06
NTF3	-1.2945	-7.12135	4.12E-10	LOC653762	1.29239	5.637435	2.50E-07
F8	-1.29564	-9.73358	3.16E-15	KIRREL	1.294396	8.653906	4.17E-13
ETNK2	-1.29856	-5.74818	1.57E-07	HOXD9	1.297102	10.28048	2.71E-16
KCNJ13	-1.30032	-6.5743	4.59E-09	TGIF	1.297369	9.477017	1.00E-14
CPNE4	-1.30192	-8.50329	8.24E-13	CHTF18	1.29739	7.82034	1.80E-11
TNXB	-1.3023	-10.0398	7.97E-16	LILRB4	1.299562	4.998724	3.33E-06
MYOZ2	-1.30434	-4.43898	2.86E-05	ALG1	1.299722	8.741883	2.80E-13
LRFN2	-1.30447	-4.74431	8.99E-06	PRKAR1B	1.300009	7.359708	1.42E-10
ZNF433	-1.30528	-7.23142	2.53E-10	HOXB5	1.30027	5.691118	2.00E-07
C10orf81	-1.30634	-3.15336	0.002272	FAM64A	1.303169	5.008994	3.20E-06
C3orf57	-1.30683	-5.03881	2.84E-06	HK3	1.305624	6.853746	1.35E-09
TTN	-1.30729	-4.78343	7.73E-06	SLC6A11	1.306336	6.079464	3.88E-08
TEX101	-1.30876	-4.36206	3.80E-05	ACRV1	1.306536	5.082506	2.39E-06
BCAS1	-1.30921	-5.33991	8.48E-07	LRRC50	1.30718	6.029647	4.80E-08
CUL3	-1.31008	-9.70417	3.61E-15	GLDC	1.309281	3.740431	0.000344
RGS9BP	-1.31247	-6.46066	7.52E-09	PIF1	1.310423	6.516485	5.90E-09
VMD2L3	-1.31345	-4.33567	4.19E-05	GLIPR1	1.311383	8.527765	7.38E-13
DLGAP2	-1.31376	-7.96658	9.33E-12	RNPC1	1.311916	7.511314	7.23E-11
C6orf194	-1.31459	-9.79695	2.37E-15	F2RL3	1.312189	12.72985	6.17E-21
TMC4	-1.31626	-7.22655	2.58E-10	CPZ	1.3164	7.630989	4.23E-11
FLJ26175	-1.31689	-10.3161	2.31E-16	SLC7A8	1.316529	8.782512	2.33E-13
ZDHC11	-1.31763	-8.80334	2.12E-13	HIST1H1A	1.317337	5.035969	2.87E-06
SLC38A3	-1.31773	-6.39041	1.02E-08	HIST1H1D	1.318959	8.498271	8.43E-13
ABCB1	-1.31943	-5.82929	1.12E-07	P2RX4	1.320618	7.168941	3.33E-10
N4BP3	-1.31979	-7.45203	9.43E-11	CYP2D6	1.320902	6.721244	2.41E-09
UGT1A8	-1.32069	-7.193	3.00E-10	KIF26B	1.32109	8.673672	3.81E-13
LOC653814	-1.32134	-4.77719	7.92E-06	PSMC3IP	1.322203	9.397545	1.44E-14
GCNT3	-1.32291	-5.90731	8.06E-08	PIP5KL1	1.322471	7.144166	3.72E-10
HTR3A	-1.32311	-3.5756	0.000596	DKFZp686E	1.323518	6.637646	3.48E-09
GRB14	-1.32487	-7.47303	8.58E-11	OR10H1	1.326314	7.262406	2.20E-10
SPATA6	-1.32714	-11.0225	1.00E-17	NR2E1	1.326785	4.717181	9.97E-06
BDH2	-1.32934	-9.5628	6.82E-15	UCN2	1.330398	6.900379	1.10E-09
COL21A1	-1.33026	-7.57867	5.34E-11	LOC440686	1.332465	8.28107	2.25E-12
MESP1	-1.33077	-6.56999	4.67E-09	FLJ33860	1.332605	4.439864	2.85E-05
C1orf178	-1.33079	-6.54948	5.11E-09	AIM2	1.333618	8.504472	8.20E-13
NOS1	-1.33402	-4.65483	1.27E-05	ECOP	1.333926	8.221744	2.95E-12

TRIM55	-1.33475	-4.40861	3.20E-05	IL8	1.335617	5.46459	5.10E-07
SBK1	-1.33544	-7.33547	1.59E-10	RPL36A	1.336607	6.818048	1.58E-09
LUZP2	-1.33545	-5.98848	5.72E-08	MAGEA3	1.336717	5.889252	8.70E-08
GLOXD1	-1.33556	-5.52866	3.92E-07	ECE1	1.33696	8.055972	6.23E-12
CLIC6	-1.33634	-7.34644	1.51E-10	HIST1H3B	1.337449	5.894392	8.51E-08
DGKB	-1.33742	-9.67186	4.17E-15	SPATS1	1.338109	7.169462	3.33E-10
PRLR	-1.3375	-6.7304	2.32E-09	SLC12A4	1.338726	10.76319	3.16E-17
C10orf68	-1.33783	-7.10905	4.35E-10	FOXA2	1.339267	3.720971	0.000367
SLC16A7	-1.33854	-7.76139	2.35E-11	BNC1	1.340104	7.042344	5.85E-10
ZNF418	-1.34181	-10.0712	6.92E-16	IL11	1.340268	8.501041	8.33E-13
HRC	-1.34182	-4.51903	2.12E-05	CDC6	1.341408	8.986597	9.23E-14
CMYA5	-1.34248	-7.31245	1.76E-10	HCG4	1.342157	5.840132	1.07E-07
NAP1L3	-1.34342	-5.76295	1.48E-07	SDK2	1.342964	8.774358	2.41E-13
C4orf7	-1.34353	-2.40974	0.018257	KIAA0415	1.344642	9.132245	4.77E-14
PLEKHB1	-1.34413	-6.26562	1.75E-08	MAD1L1	1.344887	8.156919	3.95E-12
TGFBR3	-1.3455	-11.8285	2.94E-19	OAS3	1.346088	8.304192	2.03E-12
FOXP2	-1.34618	-6.66641	3.07E-09	FSTL3	1.348393	9.439362	1.19E-14
CLDN20	-1.34728	-6.29359	1.55E-08	MORC2	1.349094	9.495143	9.26E-15
AGR3	-1.34794	-3.23898	0.001747	CPXM	1.349658	10.22694	3.45E-16
LRRC31	-1.34908	-3.98933	0.000146	MARCKSL1	1.349827	9.144836	4.51E-14
HHIP	-1.34924	-7.10672	4.40E-10	GFI1	1.351306	8.395868	1.34E-12
CCDC85A	-1.34981	-6.38222	1.06E-08	CHRNA9	1.352584	4.102979	9.74E-05
DYNLRB2	-1.35179	-9.64658	4.67E-15	DPF1	1.354483	9.377278	1.58E-14
KRT19	-1.35286	-2.84204	0.005684	FLJ13909	1.356678	8.502005	8.29E-13
CHL1	-1.35322	-7.55161	6.03E-11	DCBLD1	1.359247	12.32487	3.47E-20
AMHR2	-1.35558	-6.11288	3.36E-08	PML	1.359705	11.95637	1.69E-19
RERG	-1.35612	-7.23588	2.48E-10	CHGB	1.361645	4.126191	8.96E-05
NDST4	-1.35822	-7.05601	5.51E-10	SPDY1	1.364217	9.027095	7.69E-14
CLCA4	-1.3584	-5.61028	2.79E-07	C2	1.365062	8.282289	2.24E-12
CLYBL	-1.35862	-9.956	1.16E-15	FLJ42986	1.366801	9.832589	2.02E-15
TRIM63	-1.36116	-5.74014	1.63E-07	KLK5	1.369612	5.799637	1.27E-07
SLC35F1	-1.36208	-6.05548	4.30E-08	FLT4	1.371551	8.874898	1.53E-13
C21orf34	-1.36356	-9.07171	6.28E-14	CSMD2	1.375018	7.656058	3.78E-11
LOC388335	-1.36389	-7.11056	4.32E-10	LOC653315	1.375572	7.097075	4.59E-10
C12orf39	-1.36519	-7.14798	3.66E-10	LOC645562	1.37807	6.517047	5.88E-09
MOSC1	-1.36535	-6.76651	1.98E-09	GPR82	1.37812	4.90074	4.89E-06
NPR3	-1.36724	-5.99982	5.45E-08	C10orf85	1.38092	5.80981	1.22E-07
MYH14	-1.37132	-6.06534	4.12E-08	GPR4	1.381255	4.278775	5.16E-05
A2BP1	-1.37148	-5.01341	3.14E-06	DDX58	1.381711	8.191195	3.38E-12
WBSCR14	-1.37333	-8.55689	6.46E-13	RAG1	1.38563	7.275674	2.07E-10
NOVA1	-1.3742	-8.63423	4.55E-13	NEK6	1.385951	6.914841	1.03E-09
EFNB3	-1.37498	-6.18339	2.49E-08	SLC43A2	1.386043	7.36891	1.37E-10
HSPB2	-1.37538	-6.90004	1.10E-09	CAD	1.386516	7.459214	9.13E-11
SALL2	-1.37623	-6.41303	9.25E-09	CAMK2N2	1.38857	7.286565	1.97E-10
MYOM2	-1.37698	-6.52041	5.80E-09	FLJ90166	1.392582	4.751403	8.74E-06
EPHX2	-1.3773	-10.2268	3.45E-16	C6orf105	1.393402	6.375697	1.09E-08
ZC3H12B	-1.38191	-7.50632	7.39E-11	CDCA8	1.393721	9.54802	7.29E-15

GSTM3	-1.38473	-9.93812	1.26E-15	TGM2	1.393736	8.290044	2.16E-12
CPLX3	-1.38596	-4.1316	8.79E-05	GJB7	1.394023	4.754122	8.65E-06
ZNF287	-1.38598	-7.33301	1.61E-10	KIFC1	1.394106	6.806725	1.66E-09
DUSP13	-1.38738	-8.75875	2.59E-13	IGLL1	1.394659	3.67609	0.000427
TKTL1	-1.3875	-7.20072	2.89E-10	KCNC3	1.394909	7.951462	9.99E-12
SGCA	-1.38881	-4.55591	1.84E-05	KREMEN2	1.395455	7.520325	6.94E-11
ZNF546	-1.38885	-8.11439	4.79E-12	BST2	1.398092	9.975926	1.06E-15
ICA1	-1.3915	-10.3257	2.22E-16	VEGFC	1.398094	10.13794	5.13E-16
ZNF334	-1.39238	-6.89636	1.12E-09	DOK3	1.399578	7.00802	6.81E-10
HSPB6	-1.39242	-8.80281	2.12E-13	LHB	1.400891	8.352312	1.63E-12
LOC253012	-1.39248	-4.8892	5.12E-06	RBP1	1.401042	10.26018	2.97E-16
SERPINB11	-1.39309	-4.90518	4.81E-06	SYT12	1.402148	8.980889	9.47E-14
SLC24A5	-1.39513	-5.59805	2.94E-07	TMEM89	1.403076	9.152211	4.36E-14
CLCNKA	-1.3956	-5.27771	1.09E-06	CLCF1	1.403526	7.586827	5.15E-11
ALDH1L1	-1.39599	-5.69253	1.99E-07	COL22A1	1.404646	6.48358	6.81E-09
KCNB1	-1.39603	-6.67528	2.95E-09	NMB	1.405213	6.675531	2.95E-09
ATP6V1C2	-1.39733	-4.21386	6.54E-05	DISP2	1.406288	6.793298	1.76E-09
PLN	-1.39781	-8.70036	3.38E-13	COL27A1	1.40793	9.142248	4.56E-14
LOC387758	-1.39781	-6.08176	3.84E-08	ADAM8	1.40827	5.894683	8.50E-08
EEF1A2	-1.39868	-5.65691	2.30E-07	DNMT3B	1.409502	12.40609	2.45E-20
PCSK2	-1.4011	-12.0472	1.14E-19	PDGFB	1.420587	11.98573	1.49E-19
ZNF415	-1.4017	-8.61439	4.98E-13	COL12A1	1.421196	10.84037	2.24E-17
LTF	-1.40744	-3.26489	0.001612	VWA1	1.422392	11.33215	2.56E-18
CGREF1	-1.40847	-5.50317	4.35E-07	ZNF695	1.422717	5.820835	1.16E-07
TNNT3	-1.40867	-4.33334	4.23E-05	PIK3CD	1.423165	9.820336	2.14E-15
GULP1	-1.41043	-9.19169	3.65E-14	NRIP3	1.424832	8.439349	1.10E-12
PAK7	-1.41125	-10.9638	1.30E-17	HSF1	1.425171	7.418839	1.09E-10
TNN	-1.41195	-4.70803	1.03E-05	SNX10	1.425243	8.81369	2.02E-13
KCNA5	-1.41343	-5.2289	1.33E-06	SLC10A6	1.426354	5.296607	1.01E-06
HSPB7	-1.41439	-3.66531	0.000442	IGFBP3	1.432209	5.590497	3.03E-07
ANXA9	-1.41501	-4.44356	2.81E-05	SLC2A6	1.433493	10.26868	2.86E-16
ADRA2A	-1.41578	-5.9943	5.58E-08	HIST1H2BC	1.433705	8.746802	2.74E-13
PDE4C	-1.41596	-6.39289	1.01E-08	OSR2	1.43626	6.83702	1.45E-09
ITLN1	-1.41667	-3.72612	0.000361	ADAMTSL2	1.438648	8.513644	7.86E-13
ROR1	-1.41681	-8.34296	1.70E-12	CCL3	1.442592	5.660748	2.27E-07
CABC1	-1.41781	-7.40881	1.14E-10	LY6H	1.444125	9.164842	4.12E-14
SLC7A10	-1.41919	-7.54005	6.36E-11	CEECAM1	1.444621	8.800685	2.14E-13
CD1E	-1.4212	-7.18593	3.09E-10	EXTL3	1.445689	9.529924	7.91E-15
FLJ22184	-1.42244	-8.69958	3.39E-13	FBXL18	1.446283	7.03706	5.99E-10
MLPH	-1.42401	-7.80915	1.90E-11	PPAPDC1A	1.446369	8.26636	2.41E-12
TGM3	-1.42641	-4.45146	2.73E-05	ARL14	1.446947	6.916444	1.02E-09
FLJ43505	-1.42771	-3.36075	0.001193	FLJ41423	1.447704	8.096088	5.20E-12
HBB	-1.42777	-4.96746	3.77E-06	LETM2	1.448087	7.76714	2.29E-11
GKAP1	-1.42996	-11.9583	1.68E-19	LAMC2	1.448219	13.78178	7.66E-23
C3orf15	-1.43026	-10.2004	3.88E-16	CTHRC1	1.451361	7.79138	2.05E-11
KATNAL2	-1.43331	-13.0166	1.84E-21	TMEMPAI	1.454033	10.51584	9.48E-17
FLJ42461	-1.43813	-5.4998	4.41E-07	MGAT4B	1.454967	9.488581	9.54E-15

PTHR2	-1.4386	-2.83902	0.005733	TUBB3	1.458165	9.97517	1.07E-15
INMT	-1.43902	-8.23068	2.83E-12	DLX1	1.461584	9.155436	4.30E-14
CSN2	-1.43927	-6.30251	1.49E-08	FAP	1.463978	7.862514	1.49E-11
TM4SF11	-1.44085	-8.84179	1.78E-13	ZNF707	1.466447	8.929732	1.19E-13
MAML3	-1.44086	-9.08318	5.96E-14	BIRC5	1.471194	8.842235	1.78E-13
DKK2	-1.4416	-6.01301	5.15E-08	DKK1	1.474817	4.900294	4.90E-06
MMAB	-1.44161	-7.87771	1.39E-11	PLAUR	1.478669	8.36631	1.53E-12
ROPN1B	-1.44259	-5.17048	1.68E-06	PCTK1	1.480224	7.05178	5.61E-10
RSPO3	-1.44643	-7.23025	2.54E-10	IL1RL1	1.480838	5.865129	9.63E-08
C19orf18	-1.44651	-8.1145	4.78E-12	SLCO6A1	1.483431	3.859547	0.000229
HS3ST2	-1.44714	-4.84015	6.20E-06	NRG1	1.4836	8.891842	1.42E-13
GABRA2	-1.44821	-10.1741	4.37E-16	EXT1	1.4838	8.825895	1.91E-13
ARHGAP20	-1.44885	-8.06478	5.99E-12	CSF3	1.48449	3.853906	0.000233
GLS2	-1.44961	-9.39653	1.45E-14	PPEF1	1.486912	6.422862	8.86E-09
ZNF536	-1.44966	-8.4123	1.24E-12	DNHD3	1.487356	4.788524	7.58E-06
C13orf21	-1.45007	-8.56029	6.37E-13	PSMB9	1.490112	7.348695	1.50E-10
EPHB6	-1.45159	-7.13521	3.87E-10	CDX1	1.493881	7.112296	4.29E-10
PEBP4	-1.45298	-8.92751	1.21E-13	SSH1	1.496419	8.65618	4.12E-13
SPOCK3	-1.45368	-4.66154	1.23E-05	SST	1.497201	5.19443	1.53E-06
LRRK2	-1.45848	-11.6497	6.40E-19	KRTAP4-10	1.49993	6.559417	4.89E-09
KRT13	-1.45867	-6.2898	1.57E-08	NALP10	1.500896	8.372468	1.49E-12
FLJ25996	-1.46183	-6.74351	2.19E-09	MEFV	1.502074	6.354178	1.19E-08
PODN	-1.46358	-6.44204	8.15E-09	PNKD	1.50763	10.95916	1.33E-17
GALNT5	-1.46459	-5.65356	2.33E-07	LAMA3	1.510865	12.62589	9.60E-21
MGC3101	-1.46472	-6.59321	4.22E-09	C7orf10	1.511506	12.3676	2.89E-20
PRR4	-1.46491	-4.10296	9.74E-05	PRR11	1.517687	10.16927	4.46E-16
PPIL6	-1.46611	-9.80565	2.28E-15	TFAP2E	1.523074	6.794084	1.75E-09
EGF	-1.46619	-6.80807	1.65E-09	FLJ20245	1.524785	8.427191	1.16E-12
SCUBE2	-1.46709	-5.21043	1.43E-06	ABL2	1.530585	9.369882	1.63E-14
NLGN3	-1.47246	-9.28536	2.39E-14	CNGB3	1.532205	5.604079	2.87E-07
TMEM56	-1.47283	-6.46236	7.46E-09	HSD17B6	1.532449	8.563056	6.29E-13
FLJ20701	-1.47355	-9.04573	7.06E-14	BCL9L	1.534783	9.598075	5.82E-15
MFSD4	-1.47471	-4.96326	3.83E-06	GALNT6	1.536134	8.087491	5.41E-12
HPGD	-1.47792	-7.48961	7.97E-11	SUNC1	1.536651	9.635396	4.92E-15
PCDH19	-1.47886	-5.81318	1.20E-07	INCA	1.537308	5.708025	1.86E-07
CHAD	-1.47998	-5.6848	2.05E-07	FKSG44	1.539769	7.660448	3.70E-11
FAM71A	-1.48155	-7.04933	5.67E-10	PTK7	1.542998	12.80092	4.57E-21
DEPDC6	-1.48181	-10.4377	1.34E-16	WNT2	1.543499	7.526968	6.74E-11
SLC17A7	-1.48306	-12.6016	1.06E-20	FLJ25084	1.545645	3.966131	0.000158
C14orf39	-1.4835	-5.27328	1.11E-06	DKFZp434E	1.547535	7.272802	2.10E-10
ZNF677	-1.48596	-11.1105	6.79E-18	GDF15	1.54773	5.57563	3.23E-07
HBA2	-1.48711	-7.22195	2.63E-10	ISG15	1.548305	10.67136	4.75E-17
CYP4X1	-1.48767	-8.76442	2.53E-13	AURKB	1.549934	6.076345	3.93E-08
CACNG1	-1.49189	-3.60856	0.000534	CXCR7	1.549989	6.871523	1.24E-09
ZNF285A	-1.49254	-7.05487	5.53E-10	LOC644943	1.550086	5.664327	2.23E-07
MYBPC2	-1.49503	-4.55112	1.88E-05	TINAGL1	1.553607	8.154612	3.99E-12
TXLNB	-1.49728	-6.79653	1.73E-09	INDO	1.558043	6.440984	8.19E-09

B3GALT1	-1.49858	-7.43035	1.04E-10	COL4A2	1.559072	11.57258	8.96E-19
ENPP3	-1.49941	-6.01876	5.03E-08	PTRH1	1.559332	8.128291	4.50E-12
SLC1A1	-1.49952	-7.47196	8.62E-11	MMP3	1.560208	8.113886	4.80E-12
CLCN4	-1.49965	-7.61996	4.44E-11	PLSCR1	1.560379	11.87671	2.39E-19
AMY2B	-1.49977	-11.006	1.08E-17	SPANXA1	1.562662	4.624917	1.42E-05
MPPED2	-1.49996	-5.55455	3.52E-07	THY1	1.564535	8.248543	2.61E-12
RNF150	-1.50052	-8.0389	6.73E-12	LHX2	1.565009	5.403543	6.54E-07
GAS2	-1.50081	-10.1667	4.51E-16	RTP4	1.565796	7.830669	1.72E-11
CGNL1	-1.50101	-11.4409	1.59E-18	FAM101B	1.56595	8.478744	9.21E-13
UGT8	-1.50501	-6.48859	6.66E-09	KCNF1	1.570162	6.709446	2.54E-09
SLC13A4	-1.50602	-5.34415	8.34E-07	HIST1H3F	1.57062	9.472787	1.02E-14
IL22	-1.50695	-4.3702	3.69E-05	SLIC1	1.570713	7.103189	4.47E-10
GUP1	-1.50776	-6.8824	1.19E-09	EMILIN1	1.573144	8.697453	3.42E-13
NTRK3	-1.50832	-9.76882	2.70E-15	LOC352905	1.57378	5.975036	6.05E-08
CART1	-1.50916	-3.14473	0.002333	PYY2	1.577383	5.566775	3.35E-07
ABHD9	-1.51021	-7.02288	6.38E-10	PSG5	1.578386	4.993229	3.40E-06
CCL23	-1.51065	-9.20909	3.37E-14	PSKH1	1.580247	7.949621	1.01E-11
BARX2	-1.51095	-7.09307	4.67E-10	PATZ1	1.580346	7.775192	2.21E-11
LOC285498	-1.51329	-7.97836	8.85E-12	CASP5	1.584806	6.71663	2.46E-09
SCN4A	-1.51529	-5.74717	1.58E-07	PGF	1.589256	8.81242	2.03E-13
ASB5	-1.51819	-4.20517	6.75E-05	AJAP1	1.590393	6.883453	1.18E-09
RNASE4	-1.51865	-12.1778	6.51E-20	TCIRG1	1.593028	10.3773	1.76E-16
NBEA	-1.52048	-8.39322	1.36E-12	DSC1	1.593106	4.135742	8.66E-05
TMSB4Y	-1.52177	-9.16188	4.18E-14	HIST1H1B	1.594085	8.411726	1.25E-12
PPM1L	-1.52493	-11.1076	6.88E-18	APLN	1.595907	11.05262	8.77E-18
CD1C	-1.52651	-8.87573	1.53E-13	SERPINA9	1.597836	6.299703	1.51E-08
OMD	-1.52661	-6.32294	1.37E-08	TK1	1.598822	8.122808	4.61E-12
IL17RB	-1.52783	-6.96451	8.26E-10	FAM83A	1.599134	6.732073	2.30E-09
LNX1	-1.52837	-7.57646	5.40E-11	CXCL6	1.600476	4.982614	3.55E-06
UNC13C	-1.5313	-5.26702	1.14E-06	SMTN	1.602266	9.49153	9.41E-15
C9orf111	-1.53518	-7.49182	7.89E-11	FAM112B	1.602645	4.153614	8.12E-05
SLC9A2	-1.53651	-7.24314	2.40E-10	ISLR	1.605692	7.344377	1.53E-10
SOSTDC1	-1.53913	-6.7849	1.82E-09	C12orf36	1.605696	3.801042	0.00028
PPP1R3C	-1.53923	-9.6399	4.82E-15	UNQ689	1.610561	3.474729	0.000828
COX7A1	-1.54011	-11.7047	5.04E-19	CCR8	1.621399	7.51663	7.06E-11
CLEC10A	-1.54016	-7.41883	1.09E-10	CHST1	1.622344	7.628221	4.28E-11
ANG	-1.54439	-10.4087	1.53E-16	CGB5	1.623377	6.17792	2.55E-08
NTRK2	-1.54504	-8.79252	2.22E-13	RSAD2	1.627482	11.2118	4.35E-18
UGT1A10	-1.54944	-5.67004	2.18E-07	C19orf21	1.627672	8.238059	2.74E-12
ABCC8	-1.55222	-8.86189	1.62E-13	SLC24A2	1.628235	10.27169	2.82E-16
RBM11	-1.55341	-8.89176	1.42E-13	RCC1	1.629006	8.924558	1.22E-13
DTNA	-1.55486	-7.18738	3.07E-10	GUCY1A2	1.629434	9.517142	8.38E-15
FRAS1	-1.55547	-7.77552	2.21E-11	HOXC13	1.632004	6.818625	1.57E-09
MT4	-1.55824	-3.95699	0.000163	ARHGEF1	1.633215	9.243864	2.88E-14
NTNG1	-1.55897	-7.28839	1.96E-10	HOXD13	1.634154	5.434235	5.77E-07
XPNPEP2	-1.56123	-10.614	6.12E-17	C19orf10	1.634421	9.847301	1.89E-15
GALNT12	-1.56434	-8.95853	1.05E-13	CSAG2	1.636133	6.806314	1.66E-09

CRABP1	-1.56473	-5.43894	5.66E-07	TNIP3	1.63766	5.803435	1.25E-07
KGFLP1	-1.57263	-8.09094	5.32E-12	HIST1H2AB	1.638623	8.064505	6.00E-12
DACT2	-1.5738	-5.60184	2.89E-07	RASA4	1.639808	5.534958	3.82E-07
SYNGR1	-1.57592	-10.0058	9.29E-16	PTGIR	1.64217	10.95178	1.37E-17
SCGB3A1	-1.57684	-3.74014	0.000344	HOXC6	1.644948	11.19298	4.73E-18
ZMAT1	-1.57699	-9.50758	8.75E-15	COL7A1	1.645576	8.186307	3.46E-12
LOC150084	-1.57809	-6.0445	4.50E-08	FOXD1	1.647304	6.850314	1.37E-09
OSTN	-1.57878	-7.49918	7.63E-11	COL1A1	1.649679	14.71142	1.77E-24
ABCA6	-1.58033	-9.25767	2.71E-14	HIST1H2AC	1.650119	8.497213	8.47E-13
SH3BGRL2	-1.58418	-11.9103	2.07E-19	C10orf67	1.650272	8.243835	2.67E-12
CYP2E1	-1.58645	-9.23806	2.96E-14	CLSPN	1.651567	11.36261	2.24E-18
RPL3L	-1.58655	-5.23769	1.28E-06	FAM7A2	1.65676	10.08042	6.64E-16
FLJ10847	-1.58673	-8.92967	1.19E-13	UBD	1.656934	5.814414	1.19E-07
PBX1	-1.58722	-11.1865	4.86E-18	HOMER3	1.660956	10.23333	3.35E-16
AFF3	-1.58919	-8.08655	5.43E-12	SDS	1.663326	5.573302	3.26E-07
OSTalpha	-1.59057	-7.04146	5.87E-10	HIST1H3H	1.668772	9.686944	3.90E-15
ZNF6	-1.59674	-8.89796	1.38E-13	CYP27B1	1.66926	9.903643	1.47E-15
CYorf14	-1.60077	-11.4322	1.65E-18	NID1	1.670015	10.57791	7.19E-17
TTC18	-1.60229	-8.99011	9.09E-14	PCDH17	1.670065	9.859675	1.79E-15
NCAM2	-1.60237	-6.15812	2.77E-08	MGC45800	1.672794	8.523862	7.51E-13
PTCHD1	-1.60267	-4.23939	5.96E-05	DHRS2	1.674328	7.268141	2.14E-10
TM4SF4	-1.60297	-6.45759	7.62E-09	PRIC285	1.677747	10.86875	1.98E-17
LOC161931	-1.6039	-7.76808	2.28E-11	STRA6	1.678413	7.3509	1.48E-10
LOC389432	-1.60419	-11.3599	2.27E-18	SCG5	1.680578	10.17964	4.26E-16
PTGFR	-1.60433	-12.0281	1.24E-19	B3GAT3	1.6837	10.15792	4.69E-16
ATP13A4	-1.60474	-5.79331	1.30E-07	FN1	1.687563	10.5391	8.55E-17
MSTP9	-1.60474	-9.61429	5.41E-15	THSD1	1.68814	13.51407	2.31E-22
IL1RAPL1	-1.60787	-7.10601	4.41E-10	MAGEA12	1.690173	4.87687	5.37E-06
PARK2	-1.60833	-12.5777	1.18E-20	LIMK1	1.69731	11.94982	1.74E-19
LOC389425	-1.60951	-2.94207	0.004262	GNLY	1.69982	9.43186	1.23E-14
USP6	-1.61309	-6.08676	3.76E-08	TNFRSF9	1.701462	8.590888	5.54E-13
ENPP4	-1.61491	-6.6332	3.55E-09	COL11A1	1.703544	5.990576	5.66E-08
ECHDC3	-1.61518	-5.3364	8.60E-07	SERPINH1	1.706837	14.93313	7.34E-25
C5orf4	-1.61919	-11.4409	1.59E-18	HOXA13	1.709726	4.993565	3.40E-06
CNTN3	-1.62329	-4.35617	3.89E-05	COL6A2	1.710116	9.229524	3.07E-14
FLJ46385	-1.63347	-7.08786	4.78E-10	OR2L2	1.714423	6.974932	7.88E-10
C8orf47	-1.63747	-8.16795	3.76E-12	HAPLN3	1.719107	9.158284	4.24E-14
ZNF229	-1.64079	-7.99844	8.08E-12	LOC146905	1.721591	9.673069	4.15E-15
NEB	-1.64107	-6.75998	2.03E-09	C9orf84	1.728443	5.193361	1.53E-06
CPEB1	-1.6416	-11.0577	8.58E-18	ALOX12P2	1.729802	8.454644	1.03E-12
LOC349236	-1.64244	-7.83562	1.68E-11	EPHB2	1.732058	8.447023	1.06E-12
FLJ42177	-1.64369	-8.86405	1.61E-13	TMC7	1.732468	10.60905	6.26E-17
MYH11	-1.6443	-7.64422	3.98E-11	NEFL	1.734467	5.094479	2.28E-06
BOC	-1.645	-9.41032	1.36E-14	WDR66	1.739878	8.680589	3.69E-13
INA	-1.64668	-5.88486	8.86E-08	ITGAX	1.743925	9.886142	1.59E-15
MFAP4	-1.64708	-8.04002	6.70E-12	PRMT8	1.744054	5.594982	2.98E-07
FLJ30046	-1.6512	-9.98869	1.00E-15	LOC642782	1.755541	8.892897	1.41E-13

CYP2C19	-1.6523	-5.52493	3.98E-07	SLC28A3	1.756389	6.718957	2.44E-09
GIPC2	-1.65395	-7.872	1.43E-11	BAZ1B	1.757037	9.84569	1.91E-15
KIF1A	-1.65678	-7.6068	4.71E-11	NALP7	1.759775	8.639922	4.44E-13
PLIN	-1.65721	-8.62952	4.65E-13	PXDNL	1.761537	9.561623	6.86E-15
TCEAL6	-1.65798	-8.08039	5.58E-12	FLJ37970	1.768923	7.914228	1.18E-11
FLJ36445	-1.65807	-8.36192	1.56E-12	HOXD11	1.769286	9.469624	1.04E-14
HPSE2	-1.65942	-8.15233	4.03E-12	CDCA3	1.770304	10.91888	1.58E-17
DCAMKL1	-1.66457	-9.38508	1.52E-14	GBP5	1.777433	8.058102	6.17E-12
CX3CR1	-1.66553	-7.83205	1.71E-11	PLAC1	1.778358	10.26461	2.91E-16
DMBT1	-1.66721	-2.61343	0.010704	CXCL5	1.784637	4.501941	2.26E-05
CLEC3B	-1.67068	-8.81754	1.99E-13	CASP14	1.792363	4.498384	2.29E-05
SPINK9	-1.67182	-3.23507	0.001768	SCN8A	1.792434	6.627174	3.64E-09
IGSF1	-1.67185	-9.25478	2.74E-14	COL5A3	1.798209	10.12893	5.34E-16
C1orf165	-1.6746	-7.63474	4.16E-11	CD276	1.799174	13.92669	4.23E-23
KARCA1	-1.67682	-7.96447	9.42E-12	BET1L	1.807142	9.801161	2.33E-15
DARC	-1.67769	-6.5862	4.35E-09	HAPLN1	1.808617	8.136699	4.33E-12
C6orf117	-1.68217	-6.77509	1.90E-09	LOC654125	1.81004	8.6258	4.73E-13
TMPRSS11	-1.68224	-5.87588	9.20E-08	TCHHL1	1.813329	3.361433	0.00119
NEGR1	-1.6862	-7.91759	1.16E-11	MGC29506	1.814467	4.441644	2.83E-05
CAND2	-1.68646	-9.54936	7.25E-15	FADS3	1.814633	11.45241	1.51E-18
COCH	-1.68648	-6.43385	8.45E-09	FOXO1	1.815021	9.429802	1.24E-14
RRAGD	-1.68927	-12.6007	1.07E-20	ST8SIA2	1.817135	8.669382	3.88E-13
CYP4Z1	-1.69028	-7.62471	4.35E-11	IGFL3	1.830141	4.603847	1.54E-05
CYP3A4	-1.69156	-7.04753	5.72E-10	ATAD3B	1.832532	9.994427	9.77E-16
LY6G6D	-1.69576	-8.23403	2.79E-12	RGS20	1.833197	8.154031	4.00E-12
FLJ14054	-1.69579	-6.93321	9.48E-10	HSF2BP	1.836269	9.125759	4.92E-14
MYPN	-1.69834	-4.93499	4.28E-06	IFIT3	1.836865	10.38238	1.72E-16
ABCA3	-1.70049	-9.77646	2.60E-15	PLA2G7	1.842345	9.482424	9.80E-15
C20orf166	-1.70289	-5.885	8.86E-08	CD80	1.844473	8.546325	6.78E-13
ST6GALNA1	-1.70401	-6.03878	4.62E-08	FEZ1	1.844615	12.79454	4.70E-21
WIF1	-1.70978	-8.53936	7.00E-13	FLJ46010	1.848935	7.580556	5.30E-11
CAMK2B	-1.70985	-5.89521	8.48E-08	CTSL	1.850482	9.41297	1.34E-14
PDK4	-1.71068	-8.2371	2.75E-12	SPOCD1	1.853653	10.99573	1.13E-17
ZNF471	-1.71098	-10.9269	1.53E-17	FOLR3	1.854595	7.650198	3.88E-11
PLEKHG6	-1.71317	-6.803	1.68E-09	IER5L	1.8562	13.52282	2.23E-22
P11	-1.71327	-6.79259	1.76E-09	GALNTL4	1.869784	9.955559	1.16E-15
GPR64	-1.71353	-5.73256	1.68E-07	HMGA2	1.871292	13.36302	4.33E-22
KCNT1	-1.71473	-5.05659	2.65E-06	TREM2	1.872049	13.24069	7.20E-22
ZNF540	-1.71486	-11.0762	7.90E-18	ADAMTS6	1.87434	14.20799	1.34E-23
L3MBTL4	-1.71884	-9.37161	1.62E-14	SERINC2	1.874466	8.170063	3.72E-12
BMP5	-1.71961	-8.47615	9.32E-13	HIST1H2AM	1.899381	9.608505	5.55E-15
CRHBP	-1.72015	-10.351	1.98E-16	SALL4	1.900803	7.807324	1.91E-11
FLJ11017	-1.7215	-5.12332	2.03E-06	ANGPT2	1.900976	14.36155	7.22E-24
SUSD4	-1.72365	-7.33625	1.58E-10	LST-3TM12	1.905308	5.509563	4.24E-07
B3GALT5	-1.72396	-7.07349	5.09E-10	PLCZ1	1.918253	11.21178	4.35E-18
NPY6R	-1.72396	-7.35913	1.43E-10	HOXC4	1.9219	10.89644	1.75E-17
AMY1B	-1.7267	-10.1836	4.18E-16	SPHK1	1.933954	9.700363	3.67E-15

RND2	-1.73067	-8.78879	2.26E-13	EDG7	1.939597	10.00591	9.28E-16
UGT1A6	-1.73174	-5.5822	3.14E-07	WNT7B	1.946154	5.368205	7.56E-07
PKHD1L1	-1.73209	-8.94212	1.13E-13	ZBTB32	1.949345	8.477411	9.27E-13
MGC13057	-1.73335	-9.4381	1.20E-14	CCL7	1.976283	8.419795	1.20E-12
CYP2C9	-1.73531	-6.30505	1.47E-08	LOC440157	1.982413	8.733211	2.91E-13
GLT25D2	-1.74103	-9.32595	1.99E-14	HOXC9	1.983151	12.49914	1.65E-20
GUCY2C	-1.74299	-6.08234	3.83E-08	CDSN	1.986342	4.856391	5.82E-06
PIK3C2G	-1.74553	-5.71838	1.78E-07	INHBA	1.98707	11.55406	9.71E-19
NAALAD2	-1.74621	-12.4986	1.65E-20	SOCS1	1.991657	9.743801	3.02E-15
SCGB1A1	-1.7469	-3.7312	0.000355	ADAM12	1.991758	14.37601	6.81E-24
KCNAB1	-1.75079	-11.2469	3.73E-18	SPRY4	1.995873	16.08371	8.35E-27
ZNF135	-1.75363	-9.35985	1.71E-14	GPR172B	2.004103	7.940007	1.05E-11
TMEM178	-1.75642	-8.39012	1.38E-12	DLL3	2.00511	6.861922	1.30E-09
SRD5A2L2	-1.7584	-6.28312	1.62E-08	KIAA1609	2.010915	10.5287	8.95E-17
FABP3	-1.7679	-7.86235	1.49E-11	LOC399947	2.023115	6.157208	2.78E-08
FOXA1	-1.76791	-6.04365	4.52E-08	LOC200810	2.032961	10.29505	2.54E-16
BEX1	-1.76839	-6.9725	7.97E-10	ADAMTS4	2.036896	6.606353	3.99E-09
C10orf65	-1.76856	-11.5315	1.07E-18	ODZ2	2.040504	8.775447	2.40E-13
ATP6VOA4	-1.76929	-7.46522	8.89E-11	CGB1	2.043909	6.882323	1.19E-09
LOC441178	-1.77023	-5.26861	1.13E-06	PLAU	2.046534	11.43852	1.61E-18
FSTL5	-1.77105	-6.90118	1.09E-09	MAPKBP1	2.04691	9.452507	1.12E-14
FHIT	-1.77183	-13.1725	9.58E-22	CDH3	2.051389	9.062477	6.55E-14
SLC16A14	-1.77393	-9.96637	1.11E-15	HIST1H4I	2.05675	10.95908	1.33E-17
LRRC2	-1.77433	-8.34162	1.71E-12	LOC653133	2.06441	12.21424	5.57E-20
FLJ35220	-1.7786	-10.6144	6.11E-17	OFCC1	2.068073	11.61206	7.54E-19
RSPO1	-1.77989	-9.98351	1.03E-15	CLSTN3	2.070427	9.007453	8.40E-14
AOX1	-1.78034	-7.70515	3.03E-11	SLC44A5	2.074387	7.04793	5.71E-10
FGF14	-1.78228	-11.7363	4.39E-19	SPRR4	2.074834	5.062431	2.59E-06
FLJ46831	-1.78419	-11.2757	3.29E-18	GNGT1	2.079242	9.9957	9.72E-16
SCNN1B	-1.78538	-6.60361	4.03E-09	CREG2	2.082815	7.161359	3.45E-10
GAMT	-1.78588	-11.3597	2.27E-18	FBLIM1	2.09343	14.41119	5.91E-24
THBS4	-1.78693	-5.80225	1.25E-07	ZPLD1	2.106005	7.991289	8.35E-12
ABI3BP	-1.78738	-10.8972	1.74E-17	LY6K	2.117782	11.68808	5.42E-19
SELENBP1	-1.79019	-14.0576	2.48E-23	UHRF1	2.12135	12.05303	1.11E-19
ACTN2	-1.79059	-7.0863	4.81E-10	NXPH4	2.122599	8.723911	3.03E-13
CD207	-1.79479	-5.18727	1.57E-06	ITGA3	2.125983	15.5093	7.64E-26
OR13A1	-1.79482	-9.34983	1.78E-14	CDKN2A	2.131135	6.798752	1.72E-09
BEX2	-1.796	-8.37611	1.47E-12	ADAMDEC1	2.13422	6.138763	3.01E-08
NKX2-3	-1.79795	-7.74679	2.51E-11	STX1A	2.135044	13.6889	1.12E-22
GFRA1	-1.80713	-10.1357	5.18E-16	IL12RB2	2.136617	9.317302	2.07E-14
CASC1	-1.81085	-9.27255	2.53E-14	COL4A6	2.143827	14.34238	7.80E-24
KLB	-1.81196	-12.3347	3.32E-20	MAGEA4	2.148953	4.387789	3.46E-05
MYOZ1	-1.8121	-7.90604	1.23E-11	TNFRSF12A	2.155089	10.80636	2.61E-17
CORIN	-1.8137	-5.82758	1.13E-07	PLA2G2F	2.156758	7.388711	1.25E-10
SLC7A2	-1.81417	-10.644	5.36E-17	BATF2	2.167859	9.878332	1.65E-15
DES	-1.81457	-4.41612	3.11E-05	CSAG1	2.1681	5.690426	2.00E-07
EPHA6	-1.82202	-9.86235	1.77E-15	ATP6VOD2	2.187776	6.71415	2.49E-09

C10orf92	-1.8279	-7.29203	1.93E-10	HOXA10	2.192584	12.72667	6.26E-21
SFTPG	-1.82825	-6.30137	1.50E-08	PKMYT1	2.209886	12.23738	5.04E-20
PLP1	-1.82921	-12.0841	9.75E-20	WISP1	2.249282	14.65536	2.22E-24
CLIC5	-1.82952	-7.94399	1.03E-11	FLJ13391	2.268778	9.447437	1.15E-14
PLAC9	-1.83276	-10.3399	2.08E-16	CXCL9	2.276592	7.275519	2.07E-10
KIAA1912	-1.83364	-9.03368	7.46E-14	TMEM92	2.284269	8.296335	2.10E-12
ARSF	-1.83395	-7.85051	1.57E-11	MGC17624	2.296836	13.50178	2.43E-22
SSTR1	-1.83765	-10.4167	1.48E-16	MSC	2.299363	9.735931	3.13E-15
DUSP26	-1.84161	-7.75254	2.45E-11	GRP	2.303013	6.485149	6.76E-09
SPATA18	-1.84684	-8.58448	5.71E-13	GLIS2	2.322219	8.94663	1.11E-13
DKFZP564J	-1.84733	-11.7242	4.63E-19	ARTN	2.348851	16.53856	1.49E-27
DDIT4L	-1.85277	-5.86543	9.62E-08	IGFL2	2.348874	6.435212	8.40E-09
SLC6A1	-1.85555	-7.07321	5.10E-10	GSG2	2.355391	13.52369	2.22E-22
DEGS2	-1.86184	-6.01847	5.03E-08	C10orf63	2.362804	8.297349	2.09E-12
SCGB2A2	-1.86398	-3.81799	0.000264	CXCL11	2.369473	6.505738	6.18E-09
SMR3B	-1.86796	-3.93774	0.000174	S100A7L1	2.370064	5.05339	2.68E-06
ZFP2	-1.8711	-11.4464	1.55E-18	ESM1	2.394912	8.616383	4.94E-13
LPO	-1.87322	-3.97273	0.000154	HOXB7	2.41044	6.641114	3.42E-09
FLJ25791	-1.87329	-7.97207	9.10E-12	KIAA1893	2.413481	12.96205	2.32E-21
GLYATL2	-1.88113	-4.65837	1.25E-05	MMP7	2.419167	4.418008	3.09E-05
ALDH1A1	-1.88159	-11.0669	8.24E-18	RPIP8	2.427794	10.65994	4.99E-17
TLE2	-1.88638	-12.9406	2.54E-21	LAMA1	2.434426	8.970021	9.95E-14
MMP27	-1.88774	-8.66133	4.03E-13	LOC643425	2.451386	7.857864	1.52E-11
ZBTB16	-1.89044	-6.43104	8.55E-09	TNFRSF6B	2.458355	10.79781	2.71E-17
KRTAP13-1	-1.89664	-4.2754	5.23E-05	CCL11	2.461515	10.66744	4.83E-17
TIMP4	-1.89692	-9.9169	1.38E-15	SPP1	2.472496	7.125126	4.05E-10
FAM130A2	-1.89736	-9.67648	4.09E-15	MFAP2	2.496301	13.6651	1.24E-22
LOC138046	-1.89792	-5.1916	1.54E-06	LHX1	2.4968	13.79504	7.25E-23
ALOX12	-1.89856	-5.69808	1.94E-07	SATL1	2.507408	7.296998	1.88E-10
ENO3	-1.8993	-8.12477	4.57E-12	C1QTNF6	2.533069	21.81764	1.89E-35
WISP2	-1.90483	-5.99827	5.48E-08	TM4SF19	2.543664	12.35529	3.04E-20
PLEKHA6	-1.90526	-11.8321	2.90E-19	ZNF114	2.550314	14.42901	5.50E-24
RGS22	-1.90609	-8.69036	3.53E-13	ELAVL2	2.553923	10.93823	1.45E-17
TRPM1	-1.90805	-6.02393	4.92E-08	AGRN	2.568845	11.17199	5.18E-18
MAOB	-1.90908	-13.7929	7.32E-23	RTP3	2.583347	8.172896	3.67E-12
SCARA5	-1.90917	-8.60635	5.17E-13	CALB1	2.605234	8.411672	1.25E-12
LOC643394	-1.91052	-3.23924	0.001746	PTHLH	2.606797	12.90335	2.97E-21
MGST1	-1.91713	-6.51204	6.01E-09	OASL	2.629184	11.69776	5.19E-19
TMEM52	-1.91715	-8.59212	5.51E-13	KIAA1622	2.638863	11.12863	6.27E-18
PPP1R1B	-1.91752	-5.9324	7.25E-08	C10orf132	2.640181	10.03507	8.14E-16
CYP3A5	-1.91981	-7.26996	2.13E-10	HOXA5	2.658109	8.853132	1.69E-13
LMOD3	-1.92113	-6.0068	5.29E-08	HOXD10	2.658512	11.01019	1.06E-17
LDOC1	-1.92452	-8.24185	2.69E-12	LOC129607	2.668066	13.07105	1.47E-21
LOC284434	-1.92461	-4.83868	6.24E-06	CSMD3	2.678694	10.89114	1.79E-17
KSP37	-1.92512	-6.61067	3.91E-09	SBEM	2.71862	6.99916	7.08E-10
CNTD	-1.92668	-6.28293	1.62E-08	HOXA11	2.730205	10.56471	7.63E-17
ABCA8	-1.92684	-10.4993	1.02E-16	PROC	2.734585	9.818276	2.16E-15

CAPZA3	-1.93086	-6.51684	5.89E-09	WNT7A	2.744039	13.43135	3.26E-22
PAX9	-1.93168	-8.81252	2.03E-13	TAGLN3	2.747362	8.979277	9.54E-14
STAB2	-1.94549	-7.67251	3.51E-11	MMP12	2.765054	10.10701	5.90E-16
SFRP1	-1.94748	-5.98517	5.80E-08	CST1	2.76654	7.087844	4.78E-10
C18orf34	-1.94869	-8.16569	3.80E-12	TNFRSF18	2.786517	12.34359	3.20E-20
DBC1	-1.94871	-6.03687	4.65E-08	TH	2.793774	11.03614	9.43E-18
ANK2	-1.94878	-10.2274	3.44E-16	CCNA1	2.821397	8.849674	1.72E-13
ANKS1B	-1.94954	-13.2401	7.22E-22	TDO2	2.855374	12.17952	6.47E-20
PCK1	-1.95025	-8.83055	1.87E-13	SERPINE1	2.883038	11.78972	3.48E-19
ANGPTL1	-1.95062	-10.0242	8.55E-16	ADAMTS2	2.883631	14.78179	1.34E-24
ATP13A5	-1.95407	-6.10059	3.55E-08	IFI6	2.921803	16.68323	8.66E-28
MGC72075	-1.95633	-10.6999	4.18E-17	COL10A1	2.945713	9.067521	6.40E-14
CAPN9	-1.95732	-4.19203	7.07E-05	ZIC2	2.958402	9.615426	5.38E-15
CTTNBP2	-1.95791	-11.4073	1.84E-18	MMP9	3.060322	11.94396	1.79E-19
CA3	-1.96305	-8.02729	7.09E-12	CSF2	3.061011	9.215493	3.28E-14
LOC285016	-1.96468	-9.83528	2.00E-15	CXCL13	3.10144	9.971269	1.08E-15
FLJ22671	-1.96527	-7.44206	9.86E-11	MMP1	3.247745	16.07648	8.58E-27
ESRRG	-1.96581	-8.12167	4.63E-12	DNAH17	3.252448	11.69509	5.25E-19
LOC161247	-1.96634	-7.68687	3.29E-11	MMP10	3.359732	13.17634	9.43E-22
TMOD1	-1.96737	-7.38644	1.26E-10	CSAG3A	3.36166	9.212227	3.33E-14
TMEM16E	-1.96933	-7.16059	3.46E-10	SOX11	3.36341	14.06227	2.43E-23
APOD	-1.96994	-8.94932	1.09E-13	K6HF	3.364014	8.20235	3.22E-12
BCMO1	-1.97109	-7.52568	6.78E-11	PAEP	3.419997	11.64771	6.46E-19
ELF5	-1.97436	-5.99885	5.47E-08	FLJ25801	3.58835	11.18995	4.79E-18
LOC89944	-1.97894	-8.83346	1.85E-13	HOXC8	3.653167	12.17138	6.70E-20
KRTAP11-1	-1.9791	-4.69745	1.08E-05	SLCO1B3	3.665511	8.249653	2.60E-12
TMEM100	-1.98092	-12.0591	1.09E-19	MMP11	4.298541	16.96997	2.98E-28
NSUN7	-1.98834	-11.1723	5.18E-18	IL24	4.560307	12.77096	5.19E-21
CA8	-1.99241	-8.62663	4.71E-13	CA9	4.844677	15.40268	1.16E-25
PART1	-1.99378	-6.55569	4.97E-09	MMP13	5.335988	15.34258	1.46E-25
MLCK	-1.99384	-6.70319	2.61E-09				
GRIN3A	-1.995	-8.67768	3.74E-13				
KRTHB4	-1.99903	-3.9793	0.000151				
MDH1B	-1.99951	-12.3111	3.68E-20				
STXBP6	-1.9997	-11.112	6.75E-18				
MYL6P	-2.00502	-5.59222	3.01E-07				
PGM5	-2.00543	-9.18538	3.75E-14				
KRTAP3-2	-2.00836	-6.2291	2.04E-08				
TMEM74	-2.01816	-9.71549	3.43E-15				
PPARGC1A	-2.02255	-9.66601	4.28E-15				
CSN3	-2.02682	-4.18021	7.38E-05				
ZFP28	-2.02905	-11.9977	1.42E-19				
PPARG	-2.04006	-12.8029	4.53E-21				
PROM1	-2.04371	-4.84085	6.18E-06				
COMP	-2.04657	-6.0455	4.49E-08				
LRFN5	-2.0467	-8.08115	5.56E-12				
TNNI2	-2.04991	-6.40169	9.71E-09				

LOC388135	-2.05447	-9.33792	1.88E-14
ACSM3	-2.06192	-15.2932	1.78E-25
CALML6	-2.06329	-9.39296	1.47E-14
CES1	-2.06529	-6.98325	7.60E-10
SLITRK3	-2.07311	-7.86869	1.45E-11
KRTHA6	-2.0741	-4.67097	1.19E-05
APOBEC2	-2.07669	-6.45757	7.62E-09
AGTR1	-2.07832	-6.95405	8.65E-10
TLX1	-2.07896	-5.73879	1.64E-07
SMPX	-2.07911	-5.97953	5.94E-08
NME5	-2.0802	-7.29133	1.93E-10
IL1F6	-2.08052	-4.80013	7.24E-06
MGC39715	-2.08139	-7.57898	5.34E-11
ASB10	-2.08323	-6.92791	9.71E-10
C9orf61	-2.09362	-10.9444	1.41E-17
OXGR1	-2.09523	-9.27334	2.52E-14
FLJ45803	-2.09584	-8.70601	3.29E-13
OTC	-2.09605	-9.67083	4.19E-15
PROL1	-2.09736	-4.29137	4.93E-05
RPS6KA6	-2.10847	-12.1683	6.79E-20
HRASLS	-2.10856	-8.45579	1.02E-12
LMX1A	-2.11074	-13.0039	1.94E-21
ADAMTS19	-2.11094	-10.8545	2.11E-17
EYA1	-2.11124	-8.79013	2.25E-13
ALDH1A2	-2.11459	-9.04607	7.05E-14
C6orf60	-2.11478	-12.4899	1.71E-20
FUT6	-2.11808	-9.37878	1.57E-14
RORB	-2.11958	-12.6131	1.01E-20
PRELP	-2.12479	-11.4961	1.25E-18
CACNB4	-2.12655	-17.2168	1.20E-28
ART3	-2.12657	-6.81088	1.63E-09
GPT	-2.12857	-10.1514	4.83E-16
SLC25A21	-2.13039	-10.1476	4.92E-16
TYR	-2.13066	-6.03275	4.74E-08
FAM107A	-2.13886	-10.2683	2.86E-16
TJP3	-2.13929	-7.34059	1.55E-10
MYL1	-2.14266	-5.40704	6.45E-07
KCNT2	-2.14286	-12.2123	5.62E-20
CES4	-2.14377	-6.32289	1.37E-08
SLC5A7	-2.14657	-9.07861	6.09E-14
SLN	-2.15073	-6.37124	1.11E-08
S100A1	-2.16048	-6.55007	5.10E-09
CEACAM7	-2.16552	-5.04851	2.73E-06
ABO	-2.16852	-8.68493	3.62E-13
MYH6	-2.17801	-5.64872	2.38E-07
FMO2	-2.1793	-8.19455	3.33E-12
MYBPC1	-2.17983	-6.328	1.34E-08

DPT	-2.18368	-8.85107	1.71E-13
LRRC7	-2.18806	-9.18017	3.84E-14
C20orf114	-2.18873	-3.73236	0.000353
LRRC4C	-2.18916	-11.2066	4.45E-18
ASPA	-2.19204	-10.095	6.22E-16
ELA2	-2.19335	-8.96868	1.00E-13
SLC4A4	-2.19436	-10.0607	7.26E-16
C6orf142	-2.19723	-8.34551	1.68E-12
TNNC1	-2.19875	-5.9663	6.28E-08
DPCR1	-2.20016	-7.80274	1.95E-11
IDI2	-2.20286	-7.50322	7.50E-11
BTC	-2.20741	-12.242	4.94E-20
PCP4	-2.20776	-5.50982	4.23E-07
LRP1B	-2.21157	-10.6482	5.26E-17
LRTM1	-2.22939	-7.968	9.27E-12
SOX10	-2.23295	-7.11121	4.31E-10
FGF7	-2.23567	-7.42421	1.07E-10
HTN1	-2.2398	-4.41548	3.12E-05
FLJ90650	-2.2399	-8.57237	6.03E-13
GRIA2	-2.24939	-6.17398	2.59E-08
CLGN	-2.26217	-8.92995	1.19E-13
TNRC9	-2.26328	-8.91673	1.27E-13
ASB15	-2.26465	-8.25806	2.50E-12
OSR1	-2.26887	-9.3185	2.06E-14
BAI3	-2.27023	-8.53013	7.30E-13
HMGCLL1	-2.27357	-11.7329	4.46E-19
TNNC2	-2.27546	-7.46001	9.10E-11
CCDC110	-2.27779	-9.19241	3.64E-14
MAL	-2.27795	-8.61471	4.98E-13
SH3GL2	-2.27931	-11.2366	3.90E-18
FNDC5	-2.28176	-10.7544	3.28E-17
UNC5D	-2.29065	-9.50943	8.68E-15
ANGPTL7	-2.29519	-10.1102	5.81E-16
KAZALD1	-2.29536	-10.9139	1.62E-17
EDN3	-2.29699	-8.8283	1.89E-13
TFF3	-2.30077	-8.89187	1.42E-13
CYP11A1	-2.30124	-12.4871	1.73E-20
AMOT	-2.30766	-13.2356	7.36E-22
BPIL1	-2.32209	-4.20646	6.71E-05
KCNJ16	-2.32339	-7.6848	3.32E-11
IL17D	-2.32659	-11.5594	9.49E-19
SLC27A6	-2.32876	-20.0632	5.59E-33
GALNTL1	-2.33233	-8.2665	2.41E-12
CYP4B1	-2.34965	-9.03568	7.39E-14
AADAC	-2.3517	-7.32529	1.66E-10
MYOM1	-2.36004	-8.23032	2.83E-12
RIC3	-2.36051	-12.2431	4.92E-20

LONRF2	-2.36385	-12.338	3.28E-20
ENPP6	-2.36499	-7.85404	1.55E-11
CRNN	-2.36683	-6.96222	8.34E-10
ATP2A1	-2.3692	-6.19473	2.37E-08
HLF	-2.37584	-12.0802	9.92E-20
PRKAA2	-2.38062	-9.24248	2.90E-14
YBX2	-2.38416	-10.6639	4.91E-17
UPK1A	-2.38613	-7.19851	2.92E-10
PENK	-2.3895	-7.98894	8.43E-12
TCAP	-2.40829	-8.23698	2.75E-12
ATP1A2	-2.40874	-6.6784	2.91E-09
ZIM2	-2.41251	-8.24388	2.67E-12
EYA2	-2.42022	-10.4019	1.58E-16
CD300LG	-2.4205	-10.14	5.09E-16
ASB12	-2.42693	-11.5603	9.45E-19
SERPINI2	-2.4286	-15.9228	1.55E-26
HFE2	-2.42932	-6.4427	8.13E-09
PEG3	-2.43552	-9.81955	2.14E-15
AQP7	-2.44084	-10.0001	9.53E-16
MAPT	-2.44299	-12.6301	9.43E-21
SCGB1D2	-2.44396	-6.35922	1.17E-08
TRPV6	-2.44401	-11.3855	2.03E-18
NR3C2	-2.44631	-11.4542	1.50E-18
GDF8	-2.44815	-10.2581	3.00E-16
FLJ23191	-2.45625	-11.1202	6.51E-18
TFAP2B	-2.46453	-8.04228	6.63E-12
PGAM2	-2.47773	-9.68024	4.02E-15
ACTA1	-2.4779	-5.67428	2.14E-07
CP	-2.49051	-7.48925	7.98E-11
ROBO2	-2.49073	-9.22026	3.21E-14
PIGR	-2.4915	-3.65175	0.000463
SIM2	-2.49173	-6.60188	4.07E-09
SORCS1	-2.50405	-13.1632	9.96E-22
GADL1	-2.50421	-7.93733	1.06E-11
KRTAP13-2	-2.50597	-5.29095	1.03E-06
MB	-2.51651	-7.92027	1.15E-11
KBTBD10	-2.51843	-7.51046	7.26E-11
COBL	-2.5187	-13.0967	1.32E-21
MYOZ3	-2.52477	-8.13958	4.27E-12
SGCG	-2.5315	-8.76462	2.52E-13
FGF10	-2.54501	-12.7013	6.97E-21
KEL	-2.54685	-10.2607	2.96E-16
C18orf26	-2.56	-8.41967	1.20E-12
GSTA1	-2.56673	-6.42859	8.64E-09
ENPP5	-2.56923	-12.0218	1.28E-19
CDO1	-2.57247	-10.8981	1.74E-17
SERPINA5	-2.57842	-12.3124	3.66E-20

C1orf168	-2.61394	-8.15148	4.05E-12
CLDN10	-2.62507	-7.72793	2.73E-11
CNTFR	-2.62746	-12.5274	1.46E-20
MLXIPL	-2.63462	-9.70966	3.52E-15
NLGN1	-2.63553	-11.7404	4.31E-19
FAM3D	-2.64369	-7.53677	6.45E-11
COX6A2	-2.64686	-6.76438	1.99E-09
DKK4	-2.64865	-7.9247	1.13E-11
RPESP	-2.6511	-10.6305	5.69E-17
MYRIP	-2.65208	-9.30937	2.14E-14
SCN7A	-2.65816	-11.1353	6.09E-18
CKM	-2.68011	-7.35161	1.48E-10
PLA2G2A	-2.68442	-7.89337	1.30E-11
IRX6	-2.6881	-11.9357	1.85E-19
F10	-2.68836	-10.9911	1.15E-17
TMOD4	-2.6912	-8.20383	3.20E-12
THRSP	-2.69765	-7.09293	4.67E-10
OGN	-2.71162	-10.8335	2.31E-17
CSRP3	-2.71574	-5.37562	7.33E-07
SGEF	-2.71736	-13.8207	6.53E-23
PCDH20	-2.74371	-11.4664	1.42E-18
TSPAN8	-2.75543	-14.0302	2.77E-23
TTC6	-2.76656	-7.83192	1.71E-11
CDH10	-2.76755	-11.1851	4.89E-18
MYOT	-2.77893	-7.39997	1.19E-10
TF	-2.78477	-10.0162	8.86E-16
GPC3	-2.79383	-11.3553	2.32E-18
PLD5	-2.79847	-10.3953	1.62E-16
PMP2	-2.79848	-9.48316	9.77E-15
VIT	-2.80019	-14.293	9.52E-24
PPP1R9A	-2.80374	-9.23027	3.06E-14
CKMT2	-2.80516	-9.18138	3.82E-14
LHCGR	-2.80538	-11.686	5.47E-19
KA21	-2.82348	-12.2059	5.77E-20
SCIN	-2.82738	-11.6496	6.40E-19
LINGO4	-2.8304	-9.519	8.31E-15
MYL2	-2.83365	-6.21834	2.14E-08
RPRML	-2.84012	-10.6925	4.32E-17
MUC7	-2.84782	-5.19948	1.50E-06
IGSF10	-2.84861	-17.6572	2.40E-29
CA4	-2.84989	-11.4885	1.29E-18
RANBP3L	-2.85867	-10.0154	8.89E-16
C1QTNF7	-2.88036	-16.1683	6.05E-27
KBTBD5	-2.88237	-7.39494	1.22E-10
XKR4	-2.88774	-11.8003	3.33E-19
TYRP1	-2.89033	-8.98579	9.27E-14
C7	-2.8996	-9.47876	9.97E-15

TMPRSS11	-2.90945	-7.42684	1.06E-10
APIN	-2.91009	-5.9431	6.93E-08
ZDHC15	-2.91228	-13.7341	9.31E-23
WNK4	-2.93551	-11.1403	5.96E-18
KIAA2022	-2.93891	-13.5896	1.69E-22
PCOLCE2	-2.94546	-11.8118	3.16E-19
LOC124220	-2.94913	-5.84816	1.03E-07
KLHDC6	-2.94968	-8.43622	1.12E-12
PTGIS	-2.97234	-9.90146	1.48E-15
IGSF4D	-2.97803	-10.6192	5.98E-17
GSTM5	-2.98078	-16.3345	3.22E-27
GATM	-2.98172	-16.551	1.42E-27
LAMB4	-2.99451	-13.8145	6.69E-23
LMO3	-3.00946	-12.8804	3.27E-21
NRAP	-3.02406	-8.72901	2.96E-13
PYGM	-3.02569	-10.6323	5.64E-17
SLC6A4	-3.02767	-12.5326	1.43E-20
GDF10	-3.03266	-13.3206	5.16E-22
AADACL2	-3.0399	-7.03837	5.95E-10
ADIPOQ	-3.0578	-10.6625	4.94E-17
RPRM	-3.07748	-10.7311	3.64E-17
KRT4	-3.08004	-7.41274	1.12E-10
PLCXD3	-3.08415	-13.7623	8.29E-23
MYH7	-3.08587	-7.15624	3.53E-10
AQP4	-3.08677	-13.3828	3.98E-22
CMYA3	-3.08738	-7.29956	1.86E-10
SMYD1	-3.12372	-7.49726	7.70E-11
PPP1R1A	-3.12428	-11.4892	1.29E-18
LOC389816	-3.13531	-8.1518	4.04E-12
WDR49	-3.13599	-13.6785	1.17E-22
AMPD1	-3.14601	-9.04105	7.21E-14
ACADL	-3.16393	-12.9881	2.08E-21
KRT2B	-3.16669	-6.82295	1.54E-09
SNAP91	-3.18724	-11.143	5.89E-18
TMPRSS2	-3.20366	-7.42473	1.07E-10
FSD2	-3.2215	-9.76223	2.78E-15
CRISP2	-3.22283	-8.33768	1.74E-12
CILP	-3.23737	-10.5857	6.95E-17
LG11	-3.24678	-15.5864	5.66E-26
KRT3	-3.2542	-7.93194	1.09E-11
PPP1R3A	-3.2767	-8.92898	1.20E-13
GREM2	-3.27791	-13.4459	3.07E-22
CRTAC1	-3.27814	-14.3492	7.59E-24
ADH1A	-3.28443	-10.6188	5.99E-17
DLK1	-3.29466	-11.2818	3.20E-18
LOC652744	-3.32217	-8.94505	1.11E-13
FAIM2	-3.32247	-13.0173	1.84E-21

CYP4F12	-3.34458	-9.92517	1.33E-15
MT3	-3.38684	-18.5082	1.15E-30
OCA2	-3.38832	-14.4468	5.12E-24
TNMD	-3.42725	-18.0806	5.24E-30
MGC26718	-3.47354	-10.8165	2.49E-17
SLC36A2	-3.5023	-8.89525	1.40E-13
TMEFF2	-3.52565	-11.9884	1.47E-19
FLJ37266	-3.55107	-16.3364	3.19E-27
C8orf22	-3.5513	-12.2047	5.80E-20
MLANA	-3.59729	-6.80662	1.66E-09
PIP	-3.62034	-5.88495	8.86E-08
ADH1C	-3.63518	-12.5946	1.10E-20
C6orf205	-3.67573	-10.5549	7.97E-17
UGT1A7	-3.69219	-8.98459	9.32E-14
DCT	-3.69664	-11.9899	1.46E-19
ECRG4	-3.73747	-12.3186	3.56E-20
CDH12	-3.73966	-8.66834	3.90E-13
CRISP3	-3.7575	-9.20947	3.37E-14
SCGB2A1	-3.8167	-9.15551	4.30E-14
SCRG1	-3.82229	-12.2629	4.52E-20
PI16	-3.85785	-14.3443	7.74E-24
CASQ1	-3.88521	-10.7229	3.77E-17
C6	-3.91294	-12.792	4.75E-21
DLG2	-3.93306	-16.3124	3.50E-27
CHRD1	-3.96657	-11.7945	3.41E-19
FBP2	-3.97805	-13.7074	1.04E-22
CIDEC	-3.99384	-11.6934	5.29E-19
SLITRK5	-4.01091	-16.9885	2.78E-28
ANGPTL5	-4.02866	-14.2118	1.32E-23
CLDN8	-4.05501	-12.2235	5.35E-20
C9orf152	-4.06952	-12.806	4.47E-21
MYH2	-4.07874	-8.83682	1.82E-13
CYP2F1	-4.1383	-16.5392	1.49E-27
TCEAL2	-4.16526	-12.7134	6.62E-21
FAM3B	-4.18321	-16.6164	1.11E-27
CHST9	-4.34042	-13.1136	1.23E-21
HMGCS2	-4.37825	-14.3975	6.25E-24
MYOC	-4.71175	-18.0744	5.36E-30
STATH	-5.30964	-14.2695	1.05E-23
ADH1B	-5.51874	-17.5049	4.17E-29

The significantly changed genes of TCGA

Downregulated			Upregulated		
ID	logFC	PValue	ID	logFC	PValue
HTN3	-12.6365949	7.23E-76	S100A12	1.000418	0.017057
BPIFA2	-11.9261505	1.84E-116	C10orf35	1.000457	5.44E-06
PRH2	-11.8829322	2.30E-102	MED30	1.001939	1.38E-11
HTN1	-11.6007096	2.12E-130	SLC6A11	1.00199	0.000232
CST4	-11.280711	3.87E-194	MAGEB6	1.002587	0.048476
SMR3B	-11.2264643	8.52E-56	MCM8	1.002713	1.09E-05
LCN1	-11.0439208	7.80E-154	PFN2	1.003953	1.07E-05
STATH	-10.7663481	2.19E-90	AC091180	1.004174	0.020805
CST5	-10.6159256	5.60E-109	HLTF	1.004513	1.77E-06
PRH1	-10.3073654	1.89E-212	TLDC1	1.004657	2.74E-09
CST2	-10.1372773	1.13E-218	FPR2	1.005001	0.017373
PRR27	-9.33959254	1.75E-113	TP63	1.007026	6.31E-09
CA6	-9.31551011	4.16E-168	SYT12	1.007157	0.002338
PIP	-8.82090131	9.41E-62	ARRDC4	1.007505	2.91E-05
PRB3	-8.55754357	7.69E-181	LSR	1.008472	1.36E-11
PRR4	-7.69122509	5.42E-128	KCP	1.009589	0.004087
LPO	-7.63059577	1.58E-123	PTPRZ1	1.009737	7.59E-06
ZG16B	-7.51711936	2.56E-72	HIST1H2BN	1.010219	0.042406
CSN3	-7.4200126	5.99E-106	CENPH	1.010572	8.49E-08
MUC7	-7.25052817	1.59E-32	FNDC3B	1.011619	1.77E-10
KRT85	-7.04368663	7.01E-109	SIAH1	1.012123	2.56E-07
THRSP	-6.89844762	6.77E-120	PLSCR1	1.012873	9.81E-10
KRT36	-6.75445931	1.01E-41	TRIM46	1.012916	0.03699
C6orf58	-6.42133509	1.33E-42	AC108925	1.013753	0.042406
KLK1	-6.36669563	1.25E-178	TNFRSF25	1.013896	1.42E-06
BPIFB1	-6.32441066	6.17E-32	LGALS3BP	1.014356	1.18E-10
CRISP3	-6.19748403	2.25E-51	ATP1B3	1.015706	9.66E-11
KRT84	-6.10603551	2.00E-60	ANXA13	1.017025	0.036225
BPIFA1	-6.08237859	2.92E-24	RUNDC3A	1.017043	0.00266
PRB4	-6.05387218	1.08E-70	FAM101B	1.017169	1.17E-07
KRT35	-5.94050782	3.96E-69	BAK1	1.01727	5.32E-10
KRT83	-5.89259185	3.31E-59	LIMA1	1.017892	7.50E-11
PIGR	-5.88296924	9.14E-47	RTKN	1.018059	5.82E-13
CST1	-5.78152582	1.86E-62	SLC2A9	1.018602	8.45E-07
LACRT	-5.7170536	3.46E-45	IL27RA	1.01914	2.19E-05
KRT76	-5.62039853	2.07E-38	ZNF281	1.019766	4.54E-10
KRTAP11-1	-5.59784537	4.31E-52	LOXL3	1.020434	0.001277
PYGM	-5.54304623	3.42E-44	LRP8	1.020526	3.28E-05
C20orf85	-5.51583484	1.67E-34	ECE2	1.022238	1.88E-06
MYOC	-5.48300466	4.28E-78	EMILIN1	1.022422	0.000301
LTF	-5.48205266	5.35E-36	PARP9	1.023518	7.81E-09
DGAT2L6	-5.47725796	3.29E-53	PDE7A	1.023773	3.34E-08
HSD3B1	-5.39714006	7.93E-49	KLHL5	1.023831	8.57E-11
KRT25	-5.36300166	5.47E-66	CBX3	1.024751	3.50E-19

AWAT2	-5.34318033	9.81E-52	BCAM	1.025573	2.06E-05
ATP2A1	-5.28102921	3.29E-47	SPSB4	1.026126	0.038555
EDN3	-5.2730385	2.84E-83	MFHAS1	1.027057	3.86E-09
DMBT1	-5.25681123	5.08E-33	GSDMB	1.028677	0.000567
KRTAP3-1	-5.20803977	8.21E-49	HIST1H4D	1.02899	0.025482
KRTAP13-1	-5.20341755	2.59E-54	ADAMTS2C	1.02901	0.034518
KRTAP3-3	-5.20291839	4.92E-56	SKIL	1.029361	1.07E-09
KRTAP13-2	-5.15735495	3.76E-51	RAD54B	1.029864	0.012093
DCD	-5.1422231	1.75E-16	DDIT4	1.029865	2.41E-05
KRT71	-5.13408358	7.15E-62	MPP3	1.029988	0.000929
FBP2	-5.12112415	2.76E-69	SGOL1	1.031641	0.000317
DHRS7C	-5.09259009	8.37E-39	RELT	1.032394	4.88E-06
FABP7	-5.07401195	8.26E-77	COL8A2	1.034308	3.30E-05
NXPE4	-5.04616904	8.82E-52	FLNA	1.034336	1.03E-09
SMR3A	-5.04533368	5.92E-41	FKBP14	1.034501	1.68E-08
PM20D1	-5.01285743	8.01E-61	FAM69A	1.034845	1.41E-11
SCGB3A1	-4.97284943	1.65E-26	PDIA4	1.035574	1.28E-20
KRT4	-4.94919495	1.75E-34	C19orf66	1.036144	5.68E-10
AWAT1	-4.9335999	4.43E-48	SDK1	1.037571	9.68E-05
LRRC26	-4.89501705	1.52E-59	ABCD1	1.037577	6.52E-08
TMEM213	-4.89302663	3.88E-45	LAMC1	1.040015	4.69E-11
KRTAP3-2	-4.87164075	1.63E-39	ITGAV	1.040235	4.31E-08
PROL1	-4.84764022	5.91E-43	POLE2	1.040508	1.79E-06
CA3	-4.82919802	4.14E-52	B4GALNT4	1.040969	0.013467
AMY1B	-4.82310956	6.81E-39	DKK3	1.042366	5.64E-07
GPD1	-4.78213066	3.19E-82	RAB32	1.042966	2.24E-09
AZGP1	-4.74413386	1.16E-42	TMEM206	1.044881	4.38E-09
ENO3	-4.73798768	8.01E-56	APBB2	1.045251	2.10E-08
MYH7	-4.71580313	4.17E-28	CEP72	1.046273	2.53E-05
PEBP4	-4.69932425	1.85E-52	LMNB2	1.046801	1.77E-14
WFDC2	-4.69755589	5.19E-42	LAPTM4B	1.048861	2.87E-12
CASQ1	-4.67480353	5.31E-32	JADE2	1.049023	2.29E-05
ELOVL3	-4.67033986	9.68E-85	TICRR	1.049266	5.98E-05
ADH1B	-4.67002882	7.80E-78	WNT2B	1.049357	0.005534
TMPRSS11B	-4.633437	3.36E-36	FAM89A	1.049872	1.23E-07
DYNAP	-4.62199687	3.59E-34	PI15	1.050189	0.001659
ADIPOQ	-4.5413527	8.39E-51	ACTL6A	1.050467	4.73E-13
DNASE2B	-4.52811224	3.54E-44	BOP1	1.050743	5.90E-09
MUC21	-4.51974751	2.24E-24	CKAP2	1.051657	1.05E-13
CALML6	-4.51090472	6.62E-59	ABL2	1.051664	1.71E-09
PLIN1	-4.50880121	8.31E-68	MYH10	1.051891	8.64E-09
C16orf89	-4.50731946	1.22E-71	NUDT1	1.052831	3.47E-08
CLCNKB	-4.48999271	3.43E-54	NAT14	1.054336	2.94E-06
MAL	-4.48711848	2.34E-34	MDFI	1.054794	1.76E-08
TCHH	-4.47599061	3.04E-37	SLC19A1	1.056359	0.000109
FNDC5	-4.46955578	4.66E-65	ESCO2	1.059708	0.001157
MYOZ1	-4.45666079	1.35E-32	ALG3	1.060382	8.90E-14

CCL28	-4.4402552	7.55E-124	SLC3A2	1.06185	2.35E-13
GP2	-4.43151861	9.04E-23	HES4	1.062384	5.07E-06
CFTR	-4.40755849	2.01E-57	FANCG	1.063046	1.37E-09
ATP6V1B1	-4.37246359	1.43E-61	IL12RB1	1.06327	0.000621
KRTAP1-3	-4.37097222	1.31E-36	HENMT1	1.06329	9.53E-08
SPINK9	-4.36708486	1.26E-34	C2	1.064011	6.94E-06
MB	-4.36170888	5.53E-32	HLA-C	1.064114	1.03E-08
ABRA	-4.36012826	3.52E-46	MSANTD3	1.064398	3.94E-14
CKM	-4.35891185	1.34E-25	DSE	1.064743	1.79E-09
C8orf22	-4.35311769	1.61E-32	SP140	1.065335	0.003915
PLIN4	-4.34954771	8.32E-75	WDR76	1.066775	2.92E-07
LDB3	-4.34596909	1.38E-36	BCHE	1.066804	0.038259
FABP9	-4.32782662	1.06E-43	IL31RA	1.067211	0.002126
AQP5	-4.32452036	5.36E-30	RAI14	1.067228	9.71E-08
MUC13	-4.32167891	1.40E-31	FAM24B	1.067488	0.002371
SMCO1	-4.31896192	1.56E-47	SMIM3	1.06757	4.38E-08
KRTAP1-1	-4.31130334	7.36E-40	SMCO2	1.068704	0.01213
OLFM4	-4.26687831	9.16E-23	FPR3	1.069103	3.74E-05
HMGCS2	-4.25373731	2.98E-60	AXL	1.069933	1.02E-05
CIDEC	-4.24715106	2.30E-58	SMOC1	1.070295	0.025672
PROM1	-4.24582631	2.41E-33	LAYN	1.070582	2.22E-05
TNNC2	-4.24115845	1.72E-30	HIST1H2BF	1.070704	0.008267
MYH2	-4.23443522	1.34E-18	ASCL2	1.070872	0.000174
SLC5A5	-4.23078121	5.91E-48	NCAPG2	1.070968	1.61E-10
FBXO40	-4.22582834	1.63E-38	NUP62CL	1.072095	0.000197
CRNN	-4.22050329	7.35E-22	DNM1	1.072154	7.11E-05
KRT33B	-4.21248055	7.21E-44	GABRD	1.072612	0.02085
SLC34A2	-4.18594144	6.37E-31	MMP19	1.072867	1.22E-05
SLC13A2	-4.18331788	1.01E-50	TCF19	1.07356	4.60E-10
KRTAP8-1	-4.16605759	1.22E-30	ICOS	1.074271	0.000215
MS4A8	-4.15571876	8.07E-35	CENPL	1.075335	4.50E-05
KRTAP1-5	-4.14990162	2.81E-43	SERINC2	1.075829	8.49E-09
FAM3D	-4.12166307	4.79E-51	NCS1	1.075908	1.32E-13
PDK4	-4.11391415	5.91E-46	ITGA1	1.076449	1.41E-05
MYL3	-4.10975382	8.20E-26	IQCG	1.076751	0.000198
PPP1R3A	-4.07640494	7.75E-38	TNFSF9	1.076888	4.15E-05
MYLK3	-4.05301434	2.15E-34	FYB	1.078632	0.000165
MYOM1	-4.05272068	5.10E-38	CCBE1	1.078927	0.009943
DLK1	-4.0526696	3.79E-43	ASPHD2	1.079641	1.06E-06
HSPB6	-4.04274386	8.98E-37	IL18BP	1.0802	4.54E-05
SLC2A4	-4.03829185	2.37E-57	PILRB	1.080866	0.004772
AMPD1	-4.03674931	1.59E-34	FRMD5	1.081267	0.022242
COX6A2	-4.02684775	3.72E-23	GPR161	1.081703	1.63E-05
MYBPC1	-4.00063737	2.11E-21	HLA-A	1.081881	1.20E-08
LYZ	-3.99951893	1.12E-68	MICALCL	1.081997	6.17E-05
KRTAP4-6	-3.98750494	2.06E-30	SFXN3	1.083174	4.62E-12
MUC5AC	-3.98695933	8.72E-21	MYO7A	1.083209	0.002643

CIDEA	-3.98061792	7.77E-60	GALNT2	1.084494	1.13E-14
CYP2F1	-3.97384726	2.10E-44	C1orf112	1.084648	0.00012
ACTA1	-3.96759592	2.22E-19	CALU	1.084725	9.14E-14
BPIFB2	-3.9641595	6.41E-10	CD274	1.085238	0.000416
SMYD1	-3.93740729	5.04E-30	HELLS	1.086033	1.61E-05
ATP1A2	-3.93527767	6.50E-29	XPR1	1.087095	3.76E-13
FOLR1	-3.92954595	1.12E-31	F2R	1.087348	5.42E-08
C1orf194	-3.91769078	7.47E-33	HSD17B3	1.088184	0.030518
PRB1	-3.91390573	2.31E-32	PDZD7	1.088426	0.028999
PPP1R1A	-3.90353482	2.08E-26	ULBP3	1.088562	1.84E-06
FAM216B	-3.90049229	7.26E-31	HAGHL	1.088596	0.002006
MT1A	-3.88811578	1.48E-61	PCDHGB2	1.08949	0.003164
LMOD2	-3.88745535	2.17E-22	TINAGL1	1.090179	1.95E-05
TESC	-3.86038616	8.33E-67	ELFN2	1.090486	0.029404
CKMT2	-3.84015227	1.67E-30	HIST1H2BE	1.090611	0.029928
CHRM1	-3.83834416	1.89E-32	STAT4	1.090663	0.003967
XIRP1	-3.81615124	1.18E-34	APOL2	1.090702	1.27E-07
WDR38	-3.7985106	2.64E-36	QSOX2	1.090868	1.69E-12
MYLPF	-3.79530976	3.68E-24	PODNL1	1.091434	7.61E-06
ASCL3	-3.78893564	4.38E-34	L3HYPDH	1.091559	5.17E-06
KRT78	-3.78868665	1.26E-33	BRCA1	1.091681	6.18E-07
SEC14L6	-3.7850019	2.30E-37	IL21R	1.091954	0.002217
RPL3L	-3.78253744	4.45E-51	FMNL3	1.09249	1.47E-07
KRT33A	-3.7746398	1.86E-45	FCHO1	1.092918	0.001851
HFE2	-3.76674231	1.24E-25	BRCA2	1.094254	0.001722
LDLRAD1	-3.75280733	2.69E-35	MYBL1	1.094503	0.009203
MYL2	-3.74497284	1.63E-17	HIST1H3D	1.095496	0.000112
TRDN	-3.73922045	2.57E-23	DDX11	1.095534	2.43E-07
MYOZ3	-3.73187187	2.49E-30	CLDN14	1.095745	0.037916
TCAP	-3.72940557	2.73E-20	BCL2L12	1.097196	4.42E-13
TYRP1	-3.72763605	7.83E-39	TRIB3	1.097224	5.21E-07
ASB11	-3.72210124	1.03E-29	GALNS	1.098902	6.73E-10
TMEM190	-3.72083217	4.61E-35	ZNF707	1.099009	4.70E-07
KRTAP4-9	-3.71902616	7.22E-27	RDM1	1.100684	0.032831
SH3BGRL2	-3.70252624	2.84E-93	FAAP24	1.100967	4.12E-06
CMYA5	-3.70170049	1.36E-27	TMEM229f	1.101345	5.75E-05
MYL1	-3.69965022	1.06E-16	JAML	1.101651	0.017301
KRT13	-3.69942687	2.56E-23	TRIM59	1.102193	0.000151
KLHL41	-3.69173213	1.26E-18	AKR1E2	1.102197	0.005623
IL36A	-3.67459071	7.47E-23	MEFV	1.102971	0.0034
GJB1	-3.67293785	1.73E-36	CD109	1.103113	6.31E-11
FITM1	-3.66473927	1.69E-37	SLC16A3	1.103922	2.86E-08
SFTA2	-3.65068884	1.20E-37	SEC14L2	1.105082	8.17E-06
PLEKHS1	-3.64533237	1.01E-37	TYMS	1.10552	3.60E-09
KRTAP9-3	-3.64464445	8.44E-27	TRPM2	1.106732	6.57E-05
MORN5	-3.64146979	4.84E-27	DLGAP3	1.107451	0.025263
KRT31	-3.63887508	4.55E-70	SPERT	1.107631	0.025109

RSPH1	-3.63637214	4.49E-37	ENTPD7	1.109758	3.38E-09
SMTNL1	-3.6320794	2.19E-30	MARCKSL1	1.110117	5.84E-10
MYOT	-3.62884423	1.71E-23	CHPF	1.110344	1.35E-10
ATP6VOA4	-3.62723522	4.05E-70	DSN1	1.111613	4.53E-11
NRAP	-3.6235921	4.38E-16	MAP4K2	1.113354	3.97E-09
TNNI2	-3.61283599	1.42E-24	DBF4B	1.113355	0.00046
SYPL2	-3.58986484	5.81E-32	SOX30	1.113505	0.036641
MT4	-3.56593998	5.20E-23	PPP1R14C	1.114263	1.12E-09
SRL	-3.55384867	3.69E-27	HIST1H2AC	1.115395	0.000232
C7	-3.55226767	1.69E-35	CDR2L	1.116403	4.46E-08
TF	-3.5479683	1.80E-31	GZMB	1.116644	0.000575
KIAA1324	-3.54794782	5.45E-35	HAUS8	1.116938	1.28E-05
HBA2	-3.5473265	4.60E-41	CCDC14	1.117041	2.49E-06
SPDEF	-3.54560937	2.74E-24	CCNE2	1.117448	0.000454
KRTAP4-7	-3.54149566	1.71E-25	JAG1	1.117532	4.58E-11
AADACL3	-3.53514579	5.13E-21	TAP2	1.117615	9.53E-11
NT5C1A	-3.52665346	1.37E-30	PPP1R18	1.117856	3.74E-19
WIF1	-3.52464633	8.34E-19	POU3F1	1.118175	0.000533
TMEM52	-3.52250883	2.89E-62	XKR9	1.118438	0.006492
S100A1	-3.51374896	7.92E-40	IRF7	1.118699	1.19E-06
KRT3	-3.51232439	9.09E-18	HIST1H2BG	1.119879	6.36E-05
ZMYND10	-3.51173621	3.69E-32	NKX6-1	1.120001	0.039198
CHI3L2	-3.510247	1.41E-50	ANKLE1	1.121195	0.039481
COX7A1	-3.50806787	1.17E-56	KIF11	1.121293	6.30E-13
CAPSL	-3.50585485	1.12E-27	PDIA5	1.12154	1.02E-12
NCMAP	-3.49792233	1.57E-38	TIGIT	1.123338	0.00032
KRTAP2-2	-3.4974126	5.71E-24	CENPW	1.123612	3.60E-09
MYH6	-3.49132869	1.45E-21	ANTXR2	1.124158	1.24E-05
LRTM1	-3.48602281	2.05E-27	NLRC5	1.12434	5.73E-09
FMO2	-3.48124211	3.15E-38	BTBD16	1.126456	0.043477
CACNA1S	-3.48012314	1.14E-22	KRT37	1.127109	0.027727
TNNC1	-3.47024711	1.21E-17	STK17A	1.127767	9.08E-11
C9orf24	-3.46866583	4.06E-36	POU5F1	1.128086	0.010283
LY6G6D	-3.46563693	6.13E-28	DHDH	1.128908	0.001825
TGM3	-3.45893179	9.12E-17	TM4SF19-T	1.129157	0.024359
FAM107A	-3.45367569	1.23E-71	CYP2W1	1.129669	0.04825
AGR3	-3.45331091	1.66E-22	LRP12	1.129988	3.83E-07
CHST9	-3.45052025	2.60E-35	DDIAS	1.130006	2.52E-06
FHL1	-3.4299529	5.47E-37	CENPM	1.13071	5.40E-08
CAPN14	-3.42346989	4.11E-32	KIR2DL4	1.131379	0.007888
PLN	-3.41299553	4.80E-35	HAS2	1.131743	0.000357
GSTA2	-3.41297567	5.33E-17	TFRC	1.132185	9.75E-08
KRTAP4-2	-3.41168665	1.27E-24	DCUN1D5	1.132767	1.87E-06
ACSBG1	-3.4102375	4.80E-29	TMEM150E	1.132813	0.002935
CYP4B1	-3.39999867	1.94E-33	IMPDH1	1.132859	3.09E-12
KRTAP4-12	-3.39158874	9.85E-23	SLC20A1	1.133753	1.34E-12
MUC5B	-3.39109857	8.08E-09	CYP26B1	1.135122	6.71E-05

NEB	-3.38735595	1.14E-19	PCED1B	1.13618	1.89E-08
C9orf152	-3.38203533	4.65E-40	KNSTRN	1.136322	5.39E-13
TCEAL2	-3.3773949	1.91E-37	FBLIM1	1.136579	1.15E-09
KLHL33	-3.36341721	1.85E-28	PCDHGB1	1.139869	0.020587
RPTN	-3.36108707	5.89E-19	TNFSF10	1.139913	1.05E-07
TTN	-3.36073283	6.09E-20	GYLTL1B	1.140206	7.13E-08
TSPAN8	-3.36058396	1.36E-34	SLC47A2	1.140471	0.002482
PPP1R1B	-3.356867	1.25E-17	IFITM3	1.140572	1.19E-08
KRT79	-3.34681099	1.28E-17	PRAP1	1.141482	0.037112
RSPH4A	-3.34611833	7.01E-29	SMC4	1.141741	1.11E-09
PKLR	-3.33341185	5.53E-27	PAPLN	1.14175	1.02E-05
SLC25A4	-3.33167081	1.58E-72	MSI1	1.143715	0.021197
SPRR3	-3.32877112	4.43E-20	HOXB6	1.144502	0.011291
KLHL40	-3.3093758	6.69E-20	SCRN1	1.1455	1.92E-14
PI16	-3.30454808	6.89E-22	FOXI3	1.14554	0.030121
SH3BGR	-3.30427679	5.27E-51	MEI1	1.146558	0.012177
TGM7	-3.30392852	1.25E-26	FBXL6	1.146647	3.62E-11
KRTAP9-4	-3.29673913	8.50E-24	AC242988	1.148419	0.02638
ARSF	-3.29668586	1.13E-33	HEYL	1.148661	2.86E-06
CLCA4	-3.28827926	5.78E-29	SLC52A2	1.14872	2.31E-16
SCGB1A1	-3.27209908	1.66E-11	DNA2	1.148981	7.86E-05
KRTAP2-4	-3.27125353	1.16E-21	AL589743	1.149043	0.042406
DCT	-3.26117818	1.12E-16	GJB4	1.149571	2.76E-05
CLEC3B	-3.25801192	1.80E-84	SLC11A1	1.149607	0.000158
EEF1A2	-3.25034644	2.66E-24	CENPK	1.150461	2.42E-05
DUSP13	-3.24562381	3.05E-27	TSHZ3	1.152657	1.01E-07
KRT28	-3.24159315	3.16E-22	LRRC17	1.153784	0.002971
TCN1	-3.23316462	3.58E-25	FBXO41	1.153935	3.93E-05
PHKG1	-3.22574176	1.04E-33	PBK	1.154893	7.30E-08
CCDC160	-3.21982606	6.53E-30	RHBDL1	1.15677	0.001854
EXTL1	-3.21454628	8.21E-27	ABCC5	1.156824	5.39E-06
ROPN1L	-3.21283521	6.69E-26	ANGPT2	1.157694	2.43E-06
TRIM63	-3.21029692	9.52E-19	THY1	1.158282	1.07E-05
LRRC2	-3.20471491	3.09E-28	ADAMTS15	1.158486	5.35E-05
C9orf135	-3.2029828	1.75E-23	SGOL2	1.161009	1.62E-06
ACTN2	-3.19162907	3.13E-13	TBX4	1.161379	0.033253
TFF1	-3.18921773	2.83E-11	RACGAP1	1.162308	5.11E-17
ENPP3	-3.18803974	4.75E-27	FAM111B	1.163203	2.23E-07
CLDN10	-3.17092334	1.25E-14	PTTG1	1.164509	1.62E-09
GPT	-3.17045488	7.47E-51	FKBP9	1.164964	3.80E-17
KRT27	-3.17017196	4.00E-17	PI3	1.165279	0.008925
ANGPTL1	-3.1690283	3.15E-40	HMX2	1.165518	0.022882
TEKT1	-3.16851207	2.10E-22	CIT	1.165996	2.50E-07
SLC44A4	-3.16371935	3.39E-26	BAIAP2L2	1.166067	4.38E-06
MPO	-3.15916154	4.82E-25	PXN	1.166417	1.57E-12
ASB10	-3.15896071	1.06E-23	SLC7A5	1.166512	5.09E-08
ART1	-3.15720861	7.97E-24	FBXO39	1.166639	0.02138

TCHHL1	-3.1538003	2.40E-18	SEMA3A	1.168005	0.001732
KRTAP10-3	-3.14963876	1.21E-20	XRCC3	1.168333	6.22E-07
C2orf40	-3.14842851	3.28E-31	WNT6	1.168389	0.02029
KRTAP10-10	-3.14521242	2.37E-19	ATHL1	1.169912	9.51E-06
ENDOU	-3.14376087	4.82E-25	CTC-479C5	1.170021	0.047393
KRTAP4-4	-3.1345055	2.95E-20	STMN1	1.170538	6.37E-12
KRTAP7-1	-3.13328763	4.19E-21	C14orf80	1.172029	5.56E-07
SLC25A34	-3.13084379	2.72E-38	GPR19	1.172426	0.011916
UNC45B	-3.11330124	1.13E-20	IRF9	1.172748	9.65E-05
XIRP2	-3.11278779	6.52E-12	EHD2	1.172777	4.92E-14
PLEKHB1	-3.11276871	3.63E-42	KLHL35	1.1729	0.019938
SCN4A	-3.10379154	6.35E-21	GRIA3	1.173123	0.030199
PADI2	-3.10116201	6.94E-27	DIAPH3	1.173218	1.88E-06
FAM3B	-3.10033393	3.71E-19	HIST1H1B	1.173723	0.013469
RP11-766F14.	-3.09598287	2.73E-24	C1QL4	1.173752	0.025072
PKIA	-3.09528514	1.41E-36	CCM2	1.175337	2.81E-11
ACTN3	-3.09367625	3.24E-23	PRF1	1.175368	6.59E-05
HBB	-3.09323296	1.38E-26	MCM7	1.176744	1.16E-13
MYLK2	-3.09221595	1.86E-25	GLI1	1.177554	0.004594
TMC5	-3.0917351	2.19E-33	DTX3L	1.177972	2.66E-14
DEPTOR	-3.08804264	3.13E-64	IKBIP	1.178981	6.00E-12
MOGAT2	-3.0866816	2.48E-22	BFSP1	1.179504	5.04E-05
OBSCN	-3.08326562	2.02E-45	SALL4	1.179576	0.028999
KLHL38	-3.08060358	1.19E-24	PRSS23	1.181347	4.83E-07
DUSP26	-3.07203048	1.84E-18	TIMELESS	1.181382	1.02E-15
PSAPL1	-3.06638219	3.19E-22	GMNN	1.181555	7.69E-12
SAA2	-3.06579135	1.91E-28	LOX	1.181797	3.81E-05
TNNT3	-3.06537975	1.47E-16	CHST15	1.182233	1.44E-13
TNNT1	-3.06151545	1.98E-28	LPAR3	1.183645	4.14E-09
FRZB	-3.0578976	4.82E-51	RAC3	1.183859	5.22E-05
FUT6	-3.05665241	5.92E-29	ACP5	1.184154	2.02E-09
PIFO	-3.05534301	5.42E-28	KHDC1	1.184534	0.004257
CLIC5	-3.05352598	1.33E-31	SP110	1.185556	5.47E-07
FSD2	-3.05330016	1.42E-22	VSIG1	1.185771	0.010609
MGP	-3.05078211	1.20E-48	IFNG	1.185925	0.005969
NXPE2	-3.04854878	6.07E-21	AJUBA	1.186385	2.71E-11
SMTNL2	-3.04793278	5.04E-17	FANCB	1.18668	0.001941
KRTAP12-1	-3.04403513	4.08E-19	AGTRAP	1.187076	2.22E-13
TIMP4	-3.03432217	3.67E-41	GALNT18	1.188469	2.31E-13
CHRD1	-3.02855193	1.58E-27	SEMA7A	1.189266	2.81E-07
KRTAP9-9	-3.02681822	2.08E-19	PIK3CD	1.190068	2.79E-10
LMOD3	-3.02624093	1.87E-16	CENPN	1.190356	1.09E-12
PLIN5	-3.02502092	8.81E-36	STC1	1.19113	0.000269
SLC38A3	-3.02342593	1.38E-32	BCAS4	1.191968	0.000124
FABP3	-3.02054782	7.62E-32	PLK4	1.192173	4.01E-09
CGNL1	-3.01528277	1.18E-53	RGS20	1.19236	9.19E-06
TXLNB	-3.0133002	4.15E-24	MYO1G	1.193532	2.49E-05

SPAG6	-3.01275732	1.47E-18	MCM5	1.194944	2.49E-14
MYPN	-3.00452476	1.47E-17	MCM4	1.19495	2.62E-15
LRRC39	-2.99906077	9.95E-28	PDGFRB	1.194993	1.48E-06
C10orf71	-2.99869573	1.05E-15	FBXO2	1.195382	4.76E-05
AQP4	-2.99373233	8.86E-23	EDIL3	1.195951	8.84E-05
BHLHA15	-2.99318811	9.28E-28	ADRA1B	1.197292	0.03952
CRISP2	-2.99165918	8.85E-21	MOB3B	1.198148	2.77E-08
CAPN3	-2.98757279	1.91E-28	TNFSF11	1.199471	0.009061
FA2H	-2.98640052	5.78E-33	LRRC3	1.199511	6.98E-06
NDRG2	-2.9826776	8.20E-80	BEND6	1.200298	0.001601
KRTAP12-2	-2.98240332	1.31E-18	FAM72B	1.200431	0.010609
APOBEC2	-2.9805255	1.95E-14	HIST1H2AL	1.200647	0.017967
KRTAP4-8	-2.97685839	1.05E-19	ELFN1	1.20085	0.000961
HHATL	-2.97645401	3.54E-17	GPR68	1.201181	1.85E-07
CYP3A5	-2.97479243	2.96E-37	FZD6	1.20128	4.43E-13
RORC	-2.97271921	1.40E-50	SCARF2	1.202218	7.57E-05
AADAC	-2.96942548	6.37E-21	TAF7L	1.202607	0.041351
SNTN	-2.96795266	1.60E-17	NCAPD2	1.202957	8.14E-13
MYBPC2	-2.96706467	1.15E-12	PAX5	1.203075	0.017422
ACKR1	-2.96667634	3.10E-36	NDE1	1.203682	1.36E-16
PPP1R3C	-2.96063413	4.27E-34	ACAN	1.203765	0.019376
ASB15	-2.95000277	2.67E-20	TPCN2	1.205604	1.86E-05
CRYM	-2.94851982	3.73E-32	CSMD2	1.207587	0.020761
CSN2	-2.94771454	1.47E-20	ACKR3	1.207702	1.75E-06
HAO2	-2.93658534	7.44E-20	TDRD5	1.207755	0.011136
SGCA	-2.93416132	1.57E-20	FERMT1	1.207798	2.18E-08
SLN	-2.93308954	1.27E-11	GJA1	1.208988	3.47E-07
MYOM2	-2.93239165	1.37E-23	LRRN4	1.209078	0.028118
NRG2	-2.93148727	1.71E-26	PTPRN	1.20961	0.033596
FXYD1	-2.93146137	3.21E-27	SAMD9	1.210161	1.79E-06
AMOT	-2.92734458	3.56E-33	RRM2	1.210775	2.50E-12
KRTAP2-1	-2.92726763	3.42E-17	MET	1.211717	1.09E-11
IL22	-2.92607443	4.90E-20	SOX12	1.213165	2.16E-09
FAM92B	-2.92414759	6.43E-21	MSC	1.214026	1.05E-05
SLC27A6	-2.92078797	5.88E-27	FCGR2A	1.216843	2.45E-07
ATP2B2	-2.91946677	1.60E-20	EGLN3	1.217204	3.01E-05
ZBTB16	-2.91862231	2.84E-28	MSN	1.217851	5.82E-15
SYNPO2L	-2.90986035	1.46E-21	OBP2A	1.218448	0.026559
RYR1	-2.90548722	7.92E-30	PABPC1L	1.219018	3.73E-05
APOD	-2.9022766	7.24E-32	CT62	1.221845	0.021039
STOML3	-2.89657883	8.19E-17	NRM	1.222009	1.45E-17
AQP7	-2.89638914	8.59E-25	CENPO	1.223827	1.59E-08
OMG	-2.89378566	2.62E-20	SYT1	1.224755	0.006387
C5orf46	-2.89321083	7.33E-29	HOXA9	1.224845	0.01654
ETNPPL	-2.88748159	7.80E-16	CHEK1	1.225411	4.95E-10
C5orf49	-2.88545872	2.15E-18	AFAP1L2	1.226713	3.66E-12
MGAM2	-2.88230067	8.32E-17	TFAP2E	1.227743	4.23E-05

PLAC9	-2.88027232	1.11E-52	GLI2	1.227745	0.00258
KLF15	-2.87417683	1.31E-34	VOPP1	1.228419	1.23E-07
PADI1	-2.87414223	3.63E-26	PIPOX	1.229938	0.009528
VSIG2	-2.86988702	2.34E-24	RNF212	1.22996	0.01367
TPM2	-2.86941703	7.65E-37	FAM26F	1.230201	1.74E-05
NR3C2	-2.85943991	4.78E-33	EMP3	1.231302	7.64E-09
SPX	-2.85942258	1.87E-21	STK31	1.232057	0.016786
ANO5	-2.85755315	2.48E-23	CCR8	1.232545	0.002186
STAC3	-2.85553306	6.09E-19	BAALC	1.233282	0.005259
LRRC46	-2.85457634	9.76E-26	CTTN	1.233796	1.15E-06
SELENBP1	-2.85310117	1.10E-47	ERVMER34	1.234558	5.46E-06
ADCK3	-2.84873266	1.11E-47	KCNS1	1.234763	0.011351
DNAI1	-2.84832659	4.53E-16	BICD1	1.235197	5.95E-05
GDF10	-2.84489871	4.12E-28	CRYBA2	1.236345	0.025773
HRC	-2.84156398	1.98E-15	CHSY3	1.236438	0.000387
TYR	-2.83679457	2.01E-17	PRNP	1.236898	8.36E-13
PMEL	-2.83506883	2.85E-34	HTRA1	1.238106	2.19E-08
KY	-2.82962835	2.42E-22	MYL4	1.238139	0.021311
ERICH3	-2.82881632	5.87E-18	OSR2	1.238993	1.99E-08
TMEM38A	-2.82868116	1.79E-32	SLC39A4	1.239056	4.76E-08
MYF6	-2.82761727	6.81E-13	USB1	1.240815	7.92E-19
MYH11	-2.8222174	1.50E-25	ZWINT	1.241664	3.79E-15
CCER2	-2.82050812	9.61E-22	CARD11	1.242884	6.36E-05
SPINK5	-2.81460112	2.96E-24	BMP8B	1.243595	0.000239
SERPINA5	-2.81400683	6.31E-21	GINS4	1.243932	4.35E-06
ALDH1L1	-2.81247245	1.89E-26	PRIM2	1.2455	2.11E-10
TMOD1	-2.80543296	4.16E-23	PTPRD	1.245679	0.001549
KRT86	-2.80358187	3.35E-30	OAS1	1.246006	8.69E-08
KRT32	-2.80354034	2.66E-22	KIRREL	1.247626	4.09E-12
CAV3	-2.80098315	1.64E-17	L1CAM	1.247861	0.002205
TLE2	-2.79572022	1.26E-56	HTR2C	1.248583	0.030923
C1orf189	-2.79011171	1.24E-19	LILRB4	1.248844	0.000116
TRIM54	-2.78977138	1.50E-15	IQCJ-SCHIP	1.249082	0.000467
LECT1	-2.78235213	3.35E-19	C18orf54	1.249399	0.000264
ACSM6	-2.78225769	4.16E-17	STAT2	1.250471	6.69E-15
SLC5A8	-2.77798046	4.59E-20	FJX1	1.250478	1.19E-09
DUPD1	-2.77717435	2.40E-18	TBX18	1.251383	0.000206
MUSTN1	-2.77642239	1.05E-18	HIST1H2BC	1.252543	2.42E-06
MAPT	-2.76469891	1.42E-27	NAV1	1.252551	2.14E-11
CAND2	-2.76338966	8.24E-30	TMSB10	1.252607	5.59E-09
NMRK2	-2.76251263	8.09E-13	EIF2AK2	1.253851	4.41E-17
TUSC5	-2.76004126	2.07E-19	GZMA	1.254	0.000241
SBK2	-2.75112731	2.45E-17	FANCA	1.254213	6.75E-06
ADPRHL1	-2.7488446	1.97E-41	FGD6	1.254954	8.47E-13
LRRC10B	-2.74734875	2.85E-21	CD80	1.255511	0.002716
CLU	-2.74724603	1.35E-33	RNASEH2A	1.257256	2.64E-14
ASB12	-2.74459668	8.76E-20	TLL1	1.257785	0.000904

GPD1L	-2.74028524	1.42E-85	SYNGR4	1.257897	0.014899
SGCG	-2.7397801	1.10E-16	HLA-B	1.258315	8.25E-10
KRTAP10-5	-2.73673523	1.70E-16	ESPNL	1.25877	0.011008
PNPLA5	-2.72861892	4.46E-16	SLC5A12	1.259769	0.028564
DES	-2.71148836	6.27E-10	DSCAM	1.260062	0.012809
LRRC14B	-2.71060471	6.70E-20	TMEM44	1.260358	1.28E-08
GREM2	-2.70867907	3.30E-25	SEMA4F	1.260399	2.75E-07
PPARGC1A	-2.70760798	3.71E-29	NFE2L3	1.26095	5.31E-07
FAM166B	-2.70666087	7.47E-26	POU6F2	1.26269	0.030923
DNASE1L3	-2.70131153	1.41E-30	DISP2	1.262978	0.005523
MYOZ2	-2.70076771	1.45E-11	ACOT7	1.264261	8.82E-14
LMOD1	-2.69816781	3.89E-40	SKA3	1.264625	5.87E-12
ANGPTL7	-2.69666926	6.69E-21	CBX2	1.265678	3.30E-07
C10orf107	-2.69566754	1.78E-17	AMH	1.266376	0.019901
CRACR2B	-2.69372571	7.85E-35	HOXA13	1.267501	0.007197
KRTAP10-9	-2.69038518	6.77E-16	ADAMTSL2	1.269244	4.83E-05
SMPX	-2.68980718	1.59E-10	TPST1	1.269581	4.54E-11
CRYAB	-2.68972927	2.60E-30	EGFR	1.270414	1.52E-06
FAM81B	-2.68483247	3.48E-15	RTTN	1.270447	2.29E-06
FOXJ1	-2.68358164	8.73E-10	STIL	1.270924	2.80E-08
GLYATL2	-2.68292238	5.97E-13	MXRA5	1.270991	1.29E-05
NOS2	-2.6825805	9.44E-17	LETM2	1.274237	0.000577
TRPV6	-2.68032361	6.83E-20	NEMP1	1.274579	3.29E-12
VSIG8	-2.67941055	6.79E-13	RASD2	1.27572	0.000325
KRTAP26-1	-2.67778204	2.13E-15	IL4I1	1.276152	4.27E-06
PRR15L	-2.67618993	6.92E-26	KNTC1	1.278369	7.68E-08
MYRIP	-2.67576282	7.48E-20	BMPR1B	1.278485	0.000115
GALNT16	-2.67561738	5.75E-22	HOXD8	1.278654	2.63E-06
DUSP27	-2.66040689	5.94E-14	LEMD1	1.278687	0.000606
PRKAA2	-2.65932277	3.18E-23	PCSK1N	1.279526	0.009365
RRAGD	-2.64478701	6.96E-66	S1PR5	1.280868	1.89E-11
CHAD	-2.64163709	1.42E-19	EPO	1.281666	0.003137
RHCG	-2.64000337	2.94E-18	PSMC3IP	1.282373	3.70E-07
XXbac-BPG32	-2.63997992	4.55E-16	FGFR4	1.282761	0.000352
TRIM55	-2.63950179	1.54E-20	KPNA2	1.282782	7.68E-22
CEACAM7	-2.63267233	1.07E-12	C17orf53	1.283242	1.37E-08
CAPN6	-2.63262206	3.60E-17	NUSAP1	1.286684	2.24E-13
KRTAP16-1	-2.63125831	2.21E-15	NMB	1.28675	8.86E-07
MYADML2	-2.62774642	5.75E-16	GOLGA7B	1.287236	4.46E-06
ELF5	-2.62657995	1.11E-18	PYGL	1.287411	3.66E-10
DDIT4L	-2.62402357	2.16E-15	MYO3B	1.287549	0.001252
GNG7	-2.62305047	5.85E-35	HES2	1.287939	7.48E-08
ALOX12	-2.61859214	1.30E-21	ITPR3	1.289139	4.53E-14
C2orf54	-2.6184004	5.83E-28	PRC1	1.289861	3.68E-16
DRC1	-2.61423133	1.78E-15	STARD4	1.290916	8.60E-10
LAMB4	-2.60966149	1.57E-20	ZFP92	1.290916	0.007468
EMP1	-2.60482532	1.25E-59	GPC2	1.290944	0.006989

POPDC2	-2.60481308	3.81E-28	LBX2	1.291698	0.013674
KRTAP4-3	-2.60192556	1.13E-14	ZBTB32	1.291786	0.003235
PLPP7	-2.60092501	4.13E-28	ADAMTS6	1.291916	0.014007
HBA1	-2.59840336	2.78E-14	WDR54	1.292365	1.33E-10
UCP3	-2.59641689	1.99E-20	LRRC8C	1.29257	7.70E-09
KRTAP10-7	-2.59620132	7.40E-15	WNT10A	1.293046	1.21E-05
RBFox1	-2.59578987	1.17E-17	MMP17	1.293403	7.10E-07
SNX31	-2.59113551	1.32E-19	SLC28A3	1.295492	1.94E-06
KCNJ16	-2.5909593	4.11E-16	PTX4	1.295775	0.047136
SORBS1	-2.58599395	5.45E-38	CASC5	1.296307	2.66E-07
NIPSNAP3B	-2.58538751	3.10E-26	MTHFD1L	1.296742	4.36E-15
GPX3	-2.58102218	1.97E-34	METTL11B	1.297075	0.005985
TNXB	-2.57873612	6.98E-25	UBE2L6	1.298042	1.32E-10
DNAI2	-2.57752417	9.41E-15	ZNF541	1.298197	0.048434
SORBS2	-2.57319746	1.74E-32	CHRNA9	1.298855	0.011515
SBK3	-2.57012987	8.79E-17	CLEC12A	1.29897	0.000972
HP	-2.56800017	1.62E-16	NLGN4X	1.299755	0.006706
PPP1R27	-2.56458163	1.36E-11	FABP6	1.301188	0.00055
KRTAP17-1	-2.56334254	6.63E-14	GPX8	1.302219	5.11E-10
HPGD	-2.56312875	8.62E-24	ELF4	1.303655	2.48E-17
TNNI1	-2.56207602	7.66E-13	RECQL4	1.303658	4.63E-10
KLHL31	-2.56039865	5.67E-21	TRPV3	1.304353	0.000112
HSPB7	-2.55920261	1.50E-10	KISS1	1.305975	0.03379
SYNM	-2.55920091	4.83E-33	NPSR1	1.306281	0.031049
MFSD6L	-2.5525223	8.73E-23	SLC26A6	1.306761	1.84E-09
TFF3	-2.5505481	8.61E-09	C2CD4C	1.307782	0.001642
FAM180B	-2.54906048	1.19E-18	PSORS1C1	1.308123	0.000425
CACNG6	-2.54886326	1.44E-15	TMSB15A	1.309269	0.00541
PSCA	-2.54580449	1.17E-15	HOXA7	1.309556	0.005351
MYO18B	-2.54536147	3.09E-15	MRGBP	1.309766	1.02E-18
HOPX	-2.54272354	1.88E-27	NDRG1	1.311787	2.66E-08
PLCB4	-2.5404624	5.16E-24	NREP	1.311851	7.11E-10
HSD11B2	-2.53075062	1.03E-46	MAD2L1	1.312634	3.66E-11
RGN	-2.52767238	2.38E-20	CHTF18	1.312881	1.42E-10
PRB2	-2.52621931	1.91E-09	SLAMF8	1.313234	1.30E-07
AKAP14	-2.52356277	1.50E-13	FOXP3	1.313278	4.57E-07
ENPP4	-2.52290896	5.91E-34	SAMD9L	1.313959	3.27E-07
PACRG	-2.51647122	1.87E-16	PTCHD2	1.315909	0.026504
SLURP1	-2.50665318	9.71E-12	RIMS2	1.316216	0.005523
ESRRG	-2.50187664	5.34E-17	DLL3	1.317056	0.01562
FLNC	-2.50150388	1.76E-16	SPON2	1.318401	1.85E-08
SPTB	-2.50079331	1.23E-14	ARPC1B	1.319569	1.51E-17
KBTBD12	-2.50048473	5.26E-15	CXCL14	1.320547	0.00021
FOX11	-2.49989023	1.28E-12	NKX3-2	1.320669	0.01568
AGR2	-2.49507444	1.14E-16	CCNF	1.320886	1.13E-14
RBM24	-2.49145848	7.53E-17	FEN1	1.322324	6.53E-19
VGLL2	-2.49086356	2.36E-17	C19orf84	1.322997	0.009456

ARFGEF3	-2.48508119	3.65E-22	BORA	1.323127	7.78E-08
UPK3A	-2.48355738	4.35E-16	HIST1H4E	1.323496	0.000483
TMEM56	-2.4791125	1.21E-24	CDK6	1.323769	4.54E-10
FIGF	-2.47470697	2.63E-18	NCF2	1.32445	8.00E-12
GDF5	-2.47463821	1.45E-15	DSCC1	1.326285	2.72E-10
LRRC30	-2.47428647	7.63E-14	RAB31	1.326401	1.73E-15
CNTFR	-2.47357758	1.54E-19	PLXNA1	1.326502	6.87E-21
ALOX15	-2.46915885	1.37E-10	ERCC6L	1.326774	7.36E-07
NWD1	-2.46653613	5.11E-16	NOTUM	1.327527	0.001793
GYS2	-2.46619373	9.55E-15	YEATS2	1.32782	1.60E-15
CFAP77	-2.46520255	1.80E-13	MISP	1.329259	3.77E-05
KRTAP4-5	-2.46477088	3.82E-14	JPH3	1.329896	0.020987
CFD	-2.46454887	8.25E-40	CLEC7A	1.331244	1.60E-07
ABCA8	-2.46202142	1.86E-21	ARHGAP11	1.332782	4.94E-14
CAMK2B	-2.45615238	2.84E-18	C6orf10	1.333728	0.003916
VWA3B	-2.45349666	5.35E-14	IL2RA	1.334488	1.72E-06
LPL	-2.45221797	2.13E-26	SPC25	1.335207	4.21E-12
SAMD5	-2.45143325	2.56E-26	KANK4	1.336064	0.001062
CARNS1	-2.45052406	1.63E-21	OSM	1.336539	0.000566
CLDN17	-2.45039522	5.39E-11	CDCA4	1.337654	3.52E-21
FXD2	-2.45022545	4.51E-09	TNFRSF9	1.338678	0.000125
CCDC60	-2.45006497	1.58E-14	HIST1H2AJ	1.339436	0.00618
DPT	-2.44865811	1.66E-25	HLA-F	1.33982	7.19E-09
CLDN8	-2.44497384	1.46E-11	TMEM158	1.340263	8.26E-07
ITM2A	-2.44388439	1.90E-51	FAT1	1.340916	8.23E-09
PERM1	-2.44150377	2.42E-44	HIST1H2AN	1.34107	0.001293
NME5	-2.4412461	2.04E-14	ADAM23	1.341317	0.000251
TMPRSS2	-2.44107657	2.68E-17	ATP8B3	1.342043	0.001748
PPP1R9A	-2.43977165	1.30E-17	HIST1H4K	1.342061	0.002397
C4orf19	-2.43861639	9.33E-20	LAIR2	1.342546	0.002514
CRAT	-2.43637202	3.13E-38	PTGFRN	1.343753	5.93E-18
COBL	-2.43573559	2.64E-36	MYO10	1.346883	4.03E-14
UPK1A	-2.43535295	1.55E-10	NOX4	1.349714	0.000291
TBX15	-2.43412608	3.74E-25	CDC25B	1.351236	9.10E-14
ANKRD23	-2.43328875	3.14E-19	PANX2	1.353495	0.000179
C6orf118	-2.43320198	7.90E-13	LAMB1	1.353821	4.96E-14
SCNN1B	-2.430209	1.21E-24	GATA4	1.354338	0.028748
MLIP	-2.42829187	5.82E-23	FANCI	1.355261	1.23E-15
GBP6	-2.422079	3.28E-26	B4GALNT2	1.355272	0.009026
YIPF7	-2.42189017	1.43E-14	TMEM88B	1.357715	0.008492
CFAP43	-2.41863089	2.15E-13	PAGE1	1.357747	0.048151
PAX9	-2.40993868	2.07E-32	TOR4A	1.357852	5.38E-08
LDHD	-2.40993752	2.59E-43	HTRA3	1.358545	2.79E-06
RARRES1	-2.40572355	2.68E-21	SPINK1	1.361907	0.009106
PTGDS	-2.40330096	2.57E-28	OIP5	1.362627	7.90E-10
IL17D	-2.40318574	1.22E-19	GSG2	1.363825	4.27E-07
KRTAP10-1	-2.39770681	1.70E-13	IFNL1	1.364856	0.008238

CAPS	-2.38369696	3.99E-25	IER5L	1.36499	2.96E-10
SCIN	-2.38340851	5.71E-21	GALNT6	1.365336	3.12E-07
TJP3	-2.38261204	1.40E-21	ADD2	1.366171	0.015338
MLPH	-2.3824627	2.51E-21	B3GNT4	1.370624	0.000267
KCNA7	-2.37777907	8.30E-15	KIAA0101	1.372335	1.41E-12
ACER1	-2.37776054	1.32E-13	AC105009	1.373469	0.002028
SPRR2F	-2.37697844	5.56E-10	C11orf84	1.377961	2.08E-16
SGK2	-2.37664232	2.38E-13	PRAC2	1.379423	0.029603
SLC6A1	-2.37395193	3.87E-18	CGB5	1.379615	0.006211
MYH15	-2.37243056	3.98E-13	ZBP1	1.384706	8.84E-05
ADHFE1	-2.36997032	1.48E-25	OLFML2B	1.384968	3.83E-07
DNALI1	-2.36966997	2.72E-20	TACC3	1.385586	1.18E-16
PLA2G2A	-2.36639036	1.45E-08	LRFN4	1.385683	1.81E-11
OSR1	-2.36471907	3.61E-23	KRT17	1.386942	1.17E-06
HLF	-2.36442402	1.04E-24	MND1	1.388649	5.22E-09
ANK1	-2.36306437	4.44E-21	GNA12	1.389397	6.21E-23
SAA2-SAA4	-2.36162346	6.35E-16	TTK	1.391683	2.52E-13
PRR32	-2.36152184	2.37E-14	SEC61G	1.391973	3.32E-07
CTNNA3	-2.35771386	3.61E-14	MTBP	1.39225	5.50E-05
DNAH9	-2.35691262	1.41E-12	CDK1	1.392581	3.43E-16
PHYH	-2.35616911	6.97E-50	DEPDC1	1.394551	5.94E-10
CCDC170	-2.35269511	4.06E-15	MARVELD1	1.397862	3.79E-17
NPY1R	-2.34981688	1.18E-14	ASPM	1.398034	1.42E-11
ART3	-2.3476693	9.04E-15	BGN	1.398087	6.78E-08
SLC4A4	-2.34556795	8.65E-15	KRT75	1.398557	0.003118
FAM189A2	-2.34255189	2.60E-25	FAM132B	1.400055	0.000525
ACOX2	-2.3382316	8.09E-22	NKX2-2	1.400926	0.005767
TOX3	-2.33615005	4.68E-14	PLOD1	1.401171	1.01E-17
TLX1	-2.33307619	5.86E-11	CDX1	1.401807	0.005516
CA8	-2.33145175	1.00E-13	CLEC11A	1.402234	1.87E-07
SPINK8	-2.32372179	2.22E-13	HIST1H3B	1.402405	0.004463
KRTAP10-12	-2.32316717	1.21E-10	CDCA2	1.402812	5.75E-11
PRSS27	-2.32234918	2.11E-17	TMEM200f	1.403195	3.04E-08
JCHAIN	-2.32109892	1.09E-13	CCNA2	1.404933	1.87E-16
BMP3	-2.32084343	4.66E-10	ARSJ	1.406195	1.52E-08
KIT	-2.3167807	7.52E-31	TYMP	1.406384	4.46E-10
CAMK2A	-2.31458586	4.28E-19	CKS2	1.407779	5.27E-13
NOSTRIN	-2.31307654	1.25E-21	PSRC1	1.41009	3.72E-12
KCNJ11	-2.31089445	8.45E-20	ROS1	1.410242	0.007924
B3GNT6	-2.30871113	2.00E-14	STAG3	1.410835	0.009771
STAC2	-2.30870144	8.87E-09	HIST1H1E	1.412526	0.000234
TMEM132C	-2.30812517	3.77E-14	PHF24	1.417848	0.000865
CACNG1	-2.30342817	4.22E-10	C12orf75	1.418437	6.05E-10
CAP2	-2.30194551	3.92E-33	CCNB1	1.418997	2.34E-16
TMEM182	-2.3017993	1.48E-29	STON2	1.419348	2.29E-13
ERBB4	-2.29925007	5.60E-14	POLQ	1.419754	7.69E-06
MLANA	-2.29861164	1.36E-14	TAP1	1.420738	6.60E-11

ARMC3	-2.2945741	8.15E-12	KLK14	1.420944	0.014098
CDHR3	-2.29284705	1.33E-14	SLC52A1	1.420979	7.96E-06
TEKT2	-2.291845	1.94E-13	ADAM19	1.422315	2.33E-07
KRTAP10-2	-2.29148577	3.71E-12	MCM10	1.423246	3.54E-10
ACACB	-2.29089341	7.36E-27	PRELID3A	1.424674	8.42E-05
ANKRD2	-2.28864371	7.85E-14	SORCS2	1.425734	6.60E-07
SEC14L5	-2.28697602	6.53E-15	EFNB1	1.426887	1.21E-17
GPR12	-2.28689979	4.30E-13	SLC17A9	1.429061	0.000115
ANK2	-2.28656264	2.26E-20	WDHD1	1.430856	8.63E-14
C2orf88	-2.28551772	4.22E-19	AC009060.	1.430964	0.001818
CILP	-2.28447716	1.60E-13	TMC7	1.432766	2.47E-05
PDE4DIP	-2.28276324	1.35E-29	CHST7	1.433897	3.45E-07
KRT40	-2.28052756	7.49E-13	SCN9A	1.434223	0.005981
GRB14	-2.27969804	9.38E-18	XCL1	1.434428	2.11E-05
KRTAP19-5	-2.27714602	1.29E-10	PPFIA1	1.436079	2.24E-07
TGFBR3	-2.27384061	3.89E-37	GBP1	1.437757	9.12E-07
MYH7B	-2.27001119	1.95E-15	NECAB2	1.438097	0.009826
MT3	-2.26568318	1.61E-12	UCHL1	1.440274	0.000996
CFAP52	-2.26367834	7.06E-12	PCDH7	1.440291	4.08E-07
IL19	-2.2635436	1.50E-12	SPIB	1.44101	0.019095
SEMA6C	-2.26132176	6.16E-24	GPR153	1.44135	5.05E-12
SMIM5	-2.26001326	9.40E-30	RAG1	1.441624	0.000806
CEACAM1	-2.25953769	7.58E-29	FLRT2	1.442582	5.86E-06
SLC36A2	-2.25726388	4.11E-12	TMEM92	1.443398	3.42E-07
FGF10	-2.25721674	1.48E-14	CACNA1B	1.443471	0.006348
GNA14	-2.25488428	3.13E-20	DCBLD2	1.445209	1.19E-09
CCL14	-2.25465498	1.22E-14	HK3	1.44541	2.81E-05
CCDC17	-2.25223335	2.20E-15	BEST2	1.446589	0.016325
DKK4	-2.25064574	2.20E-16	MKI67	1.446634	6.60E-16
BPIFB3	-2.25032113	9.53E-11	AC243945.	1.446841	0.003758
PDLIM3	-2.24836285	7.16E-14	MIOX	1.447	0.017689
JPH2	-2.24804969	1.59E-19	NAGS	1.448574	2.14E-08
NBEA	-2.2468451	5.97E-16	EXT1	1.44888	5.81E-22
RNF150	-2.23844798	2.94E-17	OCIAD2	1.44901	4.54E-15
GCNT3	-2.23817088	9.54E-18	CA2	1.451077	7.19E-06
CTTNBP2	-2.23802133	1.90E-20	CTLA4	1.451713	3.48E-07
TRIM72	-2.23745197	3.04E-12	HMX1	1.452777	0.012495
SLC26A9	-2.23657368	1.26E-15	CDH2	1.453884	0.001554
SCARA5	-2.23509298	8.90E-23	GINS1	1.455577	6.18E-15
MYZAP	-2.23480827	9.12E-31	UBE2T	1.45661	7.26E-15
HSPB2	-2.23454553	2.53E-19	KIFC1	1.456802	1.33E-18
C6	-2.23407522	4.50E-13	RCN3	1.457013	6.73E-07
CFAP73	-2.23111618	3.36E-13	SLC16A1	1.457722	1.13E-14
METTL7A	-2.23007216	5.43E-36	CKS1B	1.457949	1.25E-15
MYOM3	-2.22902252	1.84E-18	P4HA2	1.458696	4.14E-15
ERN2	-2.22843476	9.53E-11	STAT1	1.461126	4.64E-11
ADSSL1	-2.22780073	2.05E-29	AEBP1	1.461399	2.90E-07

MMRN1	-2.22692116	1.96E-19	CHN1	1.464946	3.20E-08
MT1M	-2.22469489	5.56E-21	TNFRSF12A	1.465021	2.79E-13
ARPP21	-2.22367463	4.59E-12	TNFRSF4	1.46562	3.18E-06
SCEL	-2.22105765	5.34E-17	SKA1	1.465903	2.44E-12
MURC	-2.21761053	1.94E-11	GNG8	1.466582	0.001353
PCP4	-2.21675533	1.10E-11	LGALS1	1.468547	1.24E-09
ASPA	-2.21586443	2.98E-13	COLGALT1	1.469998	3.97E-36
AGFG2	-2.21092092	3.39E-56	KDELC1	1.470414	1.89E-12
ALDH1A1	-2.21070988	8.98E-13	P4HA1	1.470756	2.45E-15
CLDN3	-2.20423181	4.58E-06	FCGR3A	1.470839	5.71E-07
KRTAP4-11	-2.20414333	3.37E-11	CENPE	1.471315	5.95E-10
SPINK7	-2.20293682	3.54E-07	CDH3	1.471991	7.42E-13
RCAN2	-2.20241934	9.02E-29	SOST	1.473453	0.005281
GAMT	-2.19986104	1.60E-29	ARSI	1.474175	9.53E-08
EFHB	-2.19905855	5.31E-11	SOCS1	1.474319	2.43E-11
CMA1	-2.19432544	6.11E-16	CPNE7	1.475445	0.000168
ACTG2	-2.19301234	5.55E-16	SDK2	1.476545	5.83E-08
LRRN4CL	-2.19294368	4.48E-24	GIN52	1.477741	2.05E-12
SERPINB11	-2.19164521	1.31E-09	ITGB6	1.478729	3.35E-08
PEG3	-2.18951177	4.34E-13	IFITM1	1.48288	2.18E-09
DTNA	-2.18947847	3.71E-17	CDH24	1.484448	9.25E-13
MUC15	-2.18896937	9.39E-20	CDT1	1.485013	6.66E-15
ALPK3	-2.18710445	1.50E-17	HMGB3	1.485332	5.54E-16
SCN1B	-2.18461406	5.95E-20	FSD1	1.485418	0.00652
MYLK4	-2.18416376	1.35E-16	CTSC	1.485529	2.76E-13
PGM5	-2.1840551	3.22E-20	AMDHD1	1.485648	0.010071
ENPP5	-2.1808156	2.27E-17	TRAM2	1.489425	1.69E-16
GADD45G	-2.17959246	2.55E-26	C11orf87	1.489506	0.015672
KRT82	-2.17737646	2.00E-10	BUB1B	1.490216	7.62E-16
PPARG	-2.17288654	1.79E-24	HOXC13	1.490669	1.45E-10
CRTAC1	-2.16983621	1.57E-14	RTN4R	1.490872	2.30E-09
CLDN11	-2.16890398	2.15E-16	C10orf55	1.491991	5.81E-06
CDHR4	-2.16673104	1.09E-10	ORC1	1.492169	6.70E-14
PFKM	-2.16460581	2.60E-48	SOX1	1.492309	0.001777
LGALS12	-2.16398937	8.16E-11	HIST1H3C	1.493145	0.00263
KRTAP10-8	-2.16284694	3.34E-11	AC104650	1.493207	0.00023
AMY2B	-2.15831551	1.57E-12	GJB7	1.49335	0.001046
ITGB1BP2	-2.15828416	5.09E-17	SPRY4	1.494028	1.28E-13
SRPK3	-2.15815097	9.06E-16	HIST1H4H	1.497232	6.58E-07
COQ10A	-2.15785768	5.05E-34	TEX29	1.497281	0.00044
KLHDC7A	-2.15648919	1.14E-11	PGF	1.498608	3.67E-08
BARX2	-2.15577723	1.89E-32	TONSL	1.499892	1.97E-13
ALB	-2.15504026	4.44E-05	NEFH	1.502632	0.02093
TTC25	-2.15499151	2.98E-13	SPOCK1	1.503099	1.84E-05
MAP1LC3C	-2.15452895	2.55E-14	CENPF	1.504691	3.35E-16
TSPAN12	-2.15451808	2.96E-25	PARP14	1.506572	2.30E-16
KRTAP12-3	-2.14886389	6.93E-11	NCAPG	1.507328	1.32E-16

GLRB	-2.14755504	6.83E-16	TMEM52B	1.507362	0.004655
ACHE	-2.14643685	3.59E-15	KLK5	1.508294	0.000742
BEST3	-2.1439149	1.85E-11	C4orf48	1.509727	6.75E-07
GFRA1	-2.14279956	2.76E-18	LAMP3	1.510648	4.90E-09
CYP3A4	-2.14015073	2.79E-12	SOX11	1.512588	0.004285
SLC26A4	-2.1384504	1.50E-10	RTP4	1.512643	1.72E-08
MAOB	-2.13735966	1.09E-15	LRAT	1.514343	0.00253
TMEM211	-2.1360314	1.00E-10	HELZ2	1.517557	1.54E-13
SPATA18	-2.13451894	2.81E-30	TUBB3	1.517588	1.82E-07
FAXDC2	-2.13446989	1.37E-25	CCNE1	1.518346	2.98E-10
LIMCH1	-2.13347922	1.69E-24	TNFRSF18	1.518832	1.56E-06
FADS2	-2.12945906	1.62E-19	RAB3B	1.519001	0.003376
TFAP2B	-2.12768144	5.35E-09	ULBP1	1.519177	0.0021
KLHDC8A	-2.12722793	4.55E-11	PLA2G7	1.519415	4.64E-09
IL17F	-2.12654424	5.22E-11	RAD51	1.522389	2.53E-15
VIT	-2.12407401	3.46E-17	AC007163	1.522617	0.002756
MSMB	-2.12289859	8.87E-07	ITGB4	1.523302	3.58E-16
GMPR	-2.12086904	9.59E-27	P3H4	1.52428	2.61E-12
GPIHBP1	-2.11465523	9.32E-16	GPNMB	1.526078	6.41E-09
ASB2	-2.11428511	3.25E-26	TOP2A	1.52761	1.13E-17
AC087651.1	-2.11326792	3.09E-11	ASF1B	1.528328	2.78E-16
SYNPO2	-2.11012472	7.14E-11	FABP4	1.529572	0.023781
MIA	-2.11010728	5.68E-09	ODC1	1.530782	9.75E-07
NOS1	-2.10962548	2.08E-17	ORAOV1	1.532789	2.52E-06
AOX1	-2.1094234	6.47E-24	QRFPR	1.532842	0.017685
ATP13A4	-2.10882655	1.91E-14	MX1	1.533202	3.84E-08
AGT	-2.10880949	2.59E-15	RCOR2	1.533305	0.000121
UGT2B28	-2.09976305	3.10E-10	OR2B6	1.535184	0.005556
CDNF	-2.09919961	3.07E-20	COL17A1	1.535242	1.44E-07
ASB5	-2.08827641	3.07E-08	HIST1H2BC	1.543754	1.39E-11
PLP1	-2.08783963	1.04E-12	CEBPE	1.54491	0.001932
INMT	-2.08751236	7.69E-23	COL13A1	1.54522	5.26E-06
JSRP1	-2.08585874	1.79E-14	DLX1	1.546452	3.80E-06
C4B	-2.08440651	9.78E-15	IFIH1	1.54657	1.36E-10
C11orf88	-2.08376174	6.53E-10	RMI2	1.547115	1.46E-12
C1orf87	-2.08168823	5.47E-11	XRCC2	1.548837	1.40E-06
PTX3	-2.08008387	9.47E-13	NEIL3	1.549852	2.76E-08
PARK2	-2.07290342	2.02E-15	CT45A1	1.551029	0.040467
RSPO3	-2.07078549	1.56E-17	ADA	1.55111	5.12E-13
TMEM61	-2.06752306	3.97E-18	MMP14	1.553361	1.74E-22
ASB16	-2.06468433	1.24E-15	SYNDIG1	1.554201	0.000727
HID1	-2.06423509	2.59E-22	PAGE2B	1.556826	0.044885
ATP6V1C2	-2.06027986	3.33E-17	ARHGEF39	1.55776	6.09E-06
CSRP3	-2.06000656	2.84E-05	STX1A	1.557917	1.13E-08
CASC1	-2.05869897	5.08E-10	ATAD2	1.558489	3.12E-17
ANKRD66	-2.0549059	3.30E-10	1-Dec	1.561781	0.002488
CYP4F12	-2.05452902	2.49E-15	FOXF2	1.565235	2.86E-12

KRT23	-2.05282351	1.62E-14	BRDT	1.567041	0.016499
DGAT2	-2.05268551	1.59E-25	RASL11B	1.567045	1.02E-05
GATM	-2.04960406	2.93E-31	HIST1H1D	1.567396	0.000491
EGF	-2.04834571	8.85E-16	NCAPH	1.568297	1.75E-18
CFL2	-2.04795515	8.73E-32	IFNE	1.570123	0.000121
DYNLRB2	-2.0469244	3.84E-10	BNC1	1.571241	3.58E-13
PTN	-2.04513547	1.04E-14	OVOS2	1.57427	0.002513
RASD1	-2.04480918	2.44E-22	MMP28	1.577093	2.33E-07
KCNK5	-2.04467392	1.66E-33	GABRE	1.577651	3.58E-07
KRT7	-2.04314623	3.79E-08	CKAP2L	1.580823	1.19E-14
HBG2	-2.0426097	5.13E-09	LY6E	1.581223	8.06E-12
CRCT1	-2.04248195	8.36E-10	NUF2	1.583618	1.75E-12
KRTAP5-3	-2.0412049	4.03E-10	TPBG	1.584152	9.11E-24
ECT2L	-2.0399854	3.18E-09	LYPD8	1.58579	0.002485
ID4	-2.03992323	3.67E-31	KIF20A	1.586076	4.38E-18
KRTAP5-5	-2.03940585	1.01E-09	PSMB9	1.588183	4.98E-10
PFKFB1	-2.03496277	1.06E-12	PLOD3	1.588436	5.64E-19
CHPT1	-2.03245115	1.80E-28	PRKCDBP	1.591366	6.44E-12
JPH1	-2.03235953	3.33E-24	RAD54L	1.591731	3.41E-13
SPEF1	-2.03210814	2.14E-09	IQGAP3	1.591814	2.50E-14
CAPN9	-2.0299342	6.67E-10	RDH16	1.593222	6.23E-07
TNMD	-2.02871181	7.51E-12	SCUBE3	1.593989	0.005145
ATP13A5	-2.02605827	3.92E-07	HOXD9	1.598862	4.06E-10
NUCB2	-2.02334019	1.53E-60	BASP1	1.599024	8.42E-11
FAR2	-2.02289096	8.01E-20	DEPDC1B	1.599546	1.60E-12
TAC1	-2.01694418	3.86E-10	BMP8A	1.60085	0.000398
PPP1R12B	-2.01644766	6.33E-27	EGFL6	1.60165	7.47E-08
SHROOM3	-2.01386363	8.78E-38	PPEF1	1.602299	0.000913
SFRP1	-2.01166893	2.85E-12	NKD2	1.602795	1.04E-07
SRD5A2	-2.01017269	1.76E-09	COL16A1	1.603157	1.74E-14
HEPACAM2	-2.00851716	1.10E-09	FLRT3	1.60466	1.84E-06
CHDH	-2.00508746	1.09E-12	KIF3C	1.605338	6.48E-13
FADS6	-2.00440863	8.43E-13	P4HA3	1.606573	1.96E-05
MFAP4	-2.00131443	1.78E-16	HMMR	1.608087	3.13E-14
IP6K3	-1.99935802	5.50E-09	HIST1H2BH	1.608099	1.44E-08
CFAP45	-1.99557237	3.51E-15	WISP3	1.60832	0.00013
SLC16A6	-1.99524462	3.17E-23	WNT7B	1.609161	3.22E-15
SLC13A5	-1.99452901	2.67E-07	VCAN	1.609734	1.25E-06
CFAP65	-1.99356441	8.28E-10	C1orf186	1.610599	5.36E-06
TTC29	-1.99350036	6.41E-09	HAPLN1	1.61112	0.000835
CAB39L	-1.99267351	1.24E-39	ALPP	1.611309	0.001248
KRTAP10-11	-1.99234531	1.74E-09	TMEM132/	1.611442	9.47E-18
ENTPD8	-1.99208911	5.40E-10	PLOD2	1.611858	2.97E-12
DMD	-1.99149574	7.35E-21	PARP12	1.612475	1.07E-20
TMPRSS11A	-1.98964525	3.29E-08	KIF18A	1.613433	3.95E-11
FILIP1	-1.98735773	7.99E-16	APOBEC3B	1.614236	4.74E-10
AGBL1	-1.98684908	1.66E-07	SLC7A11	1.616381	6.82E-05

A2ML1	-1.98554048	1.60E-12	IL1B	1.620034	3.08E-06
KRT39	-1.98472092	5.26E-09	IL7R	1.620149	4.65E-09
F10	-1.98407717	7.26E-17	BUB1	1.620305	1.60E-18
ST6GALNAC1	-1.98269011	3.83E-16	ECT2	1.620836	6.11E-19
CXCR2	-1.98152154	4.20E-17	SHCBP1	1.623116	9.81E-17
ABI3BP	-1.98134926	4.06E-16	KIF23	1.624237	1.03E-19
NR4A1	-1.97881352	2.50E-19	CENPI	1.62521	1.45E-08
CYSRT1	-1.97706644	7.55E-13	UHRF1	1.625492	4.70E-16
ZNF106	-1.9757101	3.51E-37	C20orf141	1.626173	0.000865
TCTEX1D4	-1.97558246	3.81E-09	EVA1A	1.627136	3.05E-07
ANKRD1	-1.97535089	1.96E-06	NPNT	1.62829	3.69E-10
USP13	-1.97501953	6.19E-26	COL6A2	1.628837	3.69E-09
RERG	-1.97164353	6.22E-16	EIF5A2	1.629439	4.44E-11
TCEA3	-1.9712452	3.21E-25	LAMA1	1.630743	7.43E-05
VIP	-1.96353923	2.11E-09	CDH11	1.631429	1.72E-07
MUC16	-1.960149	2.68E-09	UBE2S	1.634411	9.61E-15
PAIP2B	-1.95426642	6.06E-33	HIST1H2AE	1.635601	5.10E-08
FXYD4	-1.9533544	7.55E-10	HIST1H2BJ	1.636461	1.83E-07
CYP4F8	-1.94908536	2.10E-09	PTK7	1.63717	1.15E-27
DNER	-1.94893465	7.62E-12	HHIPL2	1.639225	0.009018
CA4	-1.94720656	1.91E-10	HSD17B6	1.639547	1.71E-06
CXCL17	-1.94670546	2.90E-11	SULF2	1.639958	2.73E-14
SCN2B	-1.94641632	5.04E-12	GFI1	1.64003	1.76E-05
ACADL	-1.9463343	1.86E-10	CERCAM	1.642087	1.17E-12
TMEM178A	-1.94180199	6.59E-10	C8G	1.646266	0.005725
CLCN4	-1.93862614	3.68E-16	SPAG5	1.647525	3.28E-18
MUCL1	-1.93433227	1.12E-05	EPYC	1.647784	0.009296
ADH4	-1.93390792	5.57E-10	FKBP10	1.650533	1.63E-08
CACNB1	-1.93316825	3.75E-15	CCL11	1.653379	1.94E-05
CAPN5	-1.93310556	1.06E-30	RAC2	1.655437	1.43E-16
SPEG	-1.9329742	8.03E-19	DLX2	1.658296	2.41E-05
C1orf115	-1.93193009	4.92E-28	FADS3	1.658812	2.75E-09
CHRNA10	-1.93091201	2.80E-13	CEL	1.658816	0.009374
B3GALT1	-1.925744	2.21E-09	HOMER3	1.660804	1.33E-17
KRTAP9-8	-1.92001667	3.73E-08	NEK2	1.663869	4.07E-16
PCP4L1	-1.91996214	5.09E-12	COX6B2	1.66548	4.34E-05
SLC16A7	-1.91833314	2.27E-22	RAD51AP1	1.665577	9.07E-13
SAXO2	-1.91421735	4.01E-09	OLFML2A	1.665638	4.18E-11
PKNOX2	-1.91384381	1.96E-12	CDCA8	1.669384	3.62E-22
CORO6	-1.91170355	1.30E-11	HIST1H2BK	1.670209	4.09E-13
LRRC71	-1.9108779	6.05E-08	AUNIP	1.671549	8.11E-12
CDH20	-1.9099544	1.37E-09	KIAA1549L	1.671617	4.04E-06
EYA2	-1.90988696	3.73E-12	ARL14	1.672235	2.71E-05
ATP2A3	-1.90739463	1.64E-29	HTR1D	1.672893	0.00048
RERGL	-1.90602185	5.82E-10	CCNB2	1.674349	4.73E-22
CLCN1	-1.90584863	4.29E-11	MB21D1	1.674868	2.50E-19
KLK13	-1.90460411	7.43E-09	MX2	1.676175	6.55E-09

KCNIP2	-1.90312423	1.05E-10	P3H1	1.677374	3.30E-16
NNAT	-1.8991629	3.11E-18	RFC4	1.677756	1.39E-16
LINGO4	-1.89644233	5.94E-10	MTFR2	1.679431	9.32E-12
OGN	-1.89534174	4.65E-09	FAM133A	1.681376	0.013012
ZMYND12	-1.88963351	7.19E-10	RHEBL1	1.681819	3.51E-08
C15orf62	-1.88916577	9.80E-21	PHLDB2	1.684608	7.22E-15
MLXIPL	-1.88818598	4.07E-10	ORC6	1.685478	6.40E-12
MITF	-1.88633804	2.08E-20	NTM	1.686986	4.75E-07
GGT6	-1.88587243	2.99E-24	XAGE3	1.688584	0.044328
NEURL1	-1.88510189	6.20E-12	ADAMTS7	1.689616	6.91E-08
BOC	-1.88267419	2.76E-30	EME1	1.690931	1.47E-07
PPIL6	-1.8802616	4.02E-10	CDKN3	1.693511	5.59E-18
KCNB1	-1.87900697	1.19E-08	CPA6	1.694725	3.04E-05
EPDR1	-1.87382282	9.30E-18	GBX2	1.697319	0.000466
ACSM3	-1.87368459	1.06E-09	ANLN	1.701134	1.19E-17
KRT74	-1.87320808	2.81E-09	EXO1	1.701695	6.57E-15
WFDC6	-1.87292242	5.26E-09	PIF1	1.701888	3.29E-07
NFIX	-1.87159905	9.99E-48	PLEKHG4B	1.703244	3.50E-05
FGF7	-1.86998811	8.25E-14	LTBP1	1.704269	6.65E-12
NEU4	-1.86786619	1.65E-09	FAM83A	1.706944	1.36E-08
CTSG	-1.86669812	1.17E-12	TGFB1	1.707348	2.74E-30
LOR	-1.86659079	0.00032813	SLC38A5	1.707863	1.75E-08
TNFRSF19	-1.86648666	6.47E-25	MCM2	1.708479	2.25E-18
AARD	-1.86643115	6.39E-08	GTSE1	1.709065	1.62E-16
TEX26	-1.86449903	2.25E-08	SYNGR3	1.710155	0.000231
PRH1-PRR4	-1.86449273	3.94E-08	CXCL8	1.711569	3.96E-05
PNPLA7	-1.86435807	1.73E-12	B4GALNT1	1.712282	8.36E-07
RAPSN	-1.863841	2.15E-10	PRR11	1.712806	5.80E-19
MPZ	-1.86343404	5.13E-12	DTL	1.71405	2.98E-16
FCER1A	-1.86339274	9.31E-14	HOXA1	1.714719	1.93E-10
CNGA4	-1.86227125	1.47E-07	AGRN	1.717087	8.55E-23
RAB17	-1.86183658	5.73E-15	SPC24	1.717864	7.78E-12
DEGS2	-1.86181262	3.93E-16	HLA-G	1.719299	2.94E-06
KLK12	-1.86116663	7.04E-08	NUDT11	1.7193	2.44E-06
STMND1	-1.86050974	7.55E-08	DPPA2	1.722055	0.004679
KRT34	-1.86003466	1.17E-10	CLSPN	1.722733	5.66E-11
ARMC4	-1.85950887	3.39E-08	SCNN1D	1.723786	1.35E-05
WDR63	-1.85644829	1.49E-08	LIM2	1.725472	0.010609
LSMEM2	-1.85566439	1.30E-08	NLRP10	1.725501	0.000386
CDO1	-1.85554865	1.69E-11	KLF7	1.726263	6.15E-18
HSPB8	-1.85458492	1.49E-20	ELAVL2	1.727051	6.52E-05
GABRP	-1.85214889	6.06E-06	CDC25C	1.727353	6.63E-10
HSD11B1	-1.84998108	1.81E-13	FAM64A	1.728017	2.58E-11
TACR1	-1.84881702	1.53E-09	SUGCT	1.728937	1.56E-09
APOBEC4	-1.84709773	4.16E-08	RASGEF1A	1.729828	1.89E-06
ACPP	-1.84675119	2.44E-20	TTYH3	1.732211	3.63E-24
FAM149A	-1.8466004	1.50E-12	LPCAT1	1.732706	3.36E-19

UGT2B11	-1.84589311	6.62E-09	GLIS1	1.733357	4.99E-05
RNF157	-1.84511378	2.12E-11	CELSR3	1.734037	1.18E-05
SDPR	-1.84260593	9.30E-22	HIST1H4I	1.734105	3.99E-12
LRRC20	-1.84060597	1.91E-25	KIAA1524	1.734109	4.95E-16
BSND	-1.83769455	4.58E-08	AC109486	1.73471	0.000155
NEK10	-1.83722462	1.65E-08	THBS2	1.736221	1.99E-08
VWA2	-1.83674132	1.19E-17	MAP7D2	1.736674	0.003801
GADD45B	-1.83311425	5.15E-36	IRX4	1.736883	3.21E-09
PIP5K1B	-1.83234954	5.40E-12	OLR1	1.740014	1.56E-05
KIF19	-1.83160192	1.92E-08	C16orf59	1.743214	1.28E-12
PTGFR	-1.82541151	1.38E-11	THSD1	1.743877	3.87E-14
BEX4	-1.82505537	3.17E-22	CDCA3	1.747	1.66E-13
PPM1H	-1.82481538	1.09E-13	CDC6	1.747934	3.91E-19
SEMA3G	-1.82179096	9.51E-22	MYO1B	1.749521	7.91E-19
CYP4X1	-1.82171649	1.68E-10	MICB	1.75144	3.97E-11
GJC3	-1.81626637	4.55E-08	GREM1	1.751762	1.01E-07
IQGAP2	-1.81513496	7.23E-17	APLN	1.758362	9.90E-09
HS3ST1	-1.81327567	3.44E-20	TOX2	1.758566	8.50E-09
ANXA1	-1.81126706	6.93E-21	HIST1H2AC	1.759369	7.90E-07
CDC20B	-1.81123662	2.92E-06	TROAP	1.767527	1.47E-17
NEXN	-1.81119586	1.38E-14	COL2A1	1.767531	0.000943
WDR49	-1.8092031	6.83E-08	DDX60L	1.768117	2.26E-12
CYP2C18	-1.80527213	7.97E-12	MROH2A	1.768943	0.00761
SLCO5A1	-1.80510014	1.30E-09	SULT1E1	1.769897	0.000331
AADA2L2	-1.80462024	1.47E-07	SLC2A6	1.770501	2.66E-10
CEACAM5	-1.80376794	1.81E-07	ADGRE1	1.770521	3.10E-05
CD300LG	-1.7997137	2.84E-08	DLGAP5	1.771435	6.54E-22
KRTAP19-3	-1.79909231	9.39E-08	KRT9	1.771882	2.01E-05
CCDC114	-1.79421452	8.74E-08	NDC80	1.772133	6.88E-17
MYO5C	-1.79409108	3.15E-17	SERPINE2	1.772297	7.51E-09
KBTBD13	-1.79401174	5.03E-09	IGFBP3	1.77293	1.08E-08
UBXN10	-1.79389533	4.32E-10	LHB	1.774814	6.86E-05
PRR33	-1.79302254	3.78E-13	EXOC3L4	1.776177	0.000114
CCL23	-1.79170961	4.29E-11	RPL39L	1.776346	2.16E-08
CX3CR1	-1.79038582	2.71E-14	SPANXD	1.778431	0.0055
LYVE1	-1.79016883	2.85E-16	PROCR	1.779053	9.78E-14
IL1RN	-1.78639816	6.13E-15	SYCP2	1.780812	0.00233
SLC1A1	-1.78494891	1.93E-16	FOXC2	1.78198	2.12E-06
SCN7A	-1.78248432	1.91E-08	IFI35	1.782325	3.36E-13
TM7SF2	-1.78090041	4.16E-17	ADAMDEC1	1.782353	2.65E-06
IGSF10	-1.7797744	4.22E-10	TREM2	1.782908	3.10E-10
SCGB3A2	-1.779639	9.30E-06	LA16c-380l	1.783945	0.004112
TRIM31	-1.77930955	6.33E-08	DDX58	1.785922	5.48E-11
PLA2G16	-1.77698063	1.51E-14	SLC7A8	1.789555	1.30E-11
PDGFD	-1.77611655	1.10E-15	GNLY	1.791842	8.93E-07
SHISA4	-1.77457432	7.09E-18	VAV2	1.792684	8.45E-21
IL17RD	-1.77193778	3.22E-16	MELK	1.794781	3.20E-19

CHST4	-1.77045911	1.67E-07	KYNU	1.79891	5.01E-07
SAA4	-1.76987039	3.22E-09	WFDC12	1.801139	0.002609
MGLL	-1.76868706	1.02E-30	CCL5	1.802148	2.16E-08
PPL	-1.76808432	2.61E-17	PTGS2	1.802533	1.34E-05
ATP1B4	-1.7672798	5.35E-08	ALG1L	1.803301	9.01E-12
PPM1L	-1.76582152	5.00E-26	ROR2	1.803904	1.37E-08
TMEM233	-1.76337535	9.97E-10	LUM	1.803909	1.19E-09
SAA1	-1.76250599	6.23E-09	SNX10	1.804372	6.21E-16
SYNGR1	-1.76248444	2.83E-27	CYP4F11	1.805249	0.000179
NEURL3	-1.76157574	7.85E-12	KIF18B	1.806088	8.12E-19
KRTAP5-7	-1.75924291	8.69E-08	TRIP13	1.811154	1.15E-17
GDPD3	-1.75915363	1.49E-12	FAM178B	1.811782	0.000874
PIH1D3	-1.75812319	3.32E-08	DLX6	1.812627	7.40E-05
C1QTNF7	-1.75805752	3.44E-08	NID2	1.814797	2.50E-08
DEFB4B	-1.7558255	0.00098436	CD276	1.815591	1.46E-25
KRTAP10-4	-1.75576785	3.92E-09	FSCN1	1.8175	5.80E-25
CCL2	-1.75452325	3.45E-16	INSM1	1.817863	0.011321
MUC4	-1.75308768	3.90E-06	FAM132A	1.819545	8.29E-05
SMARCD3	-1.75127273	1.22E-22	MICAL2	1.82308	1.11E-13
AK7	-1.74952002	5.97E-09	PXDN	1.8239	7.58E-11
RTN2	-1.74900214	6.03E-25	IL12RB2	1.82417	1.83E-07
PLPPR3	-1.7485644	5.50E-07	C16orf74	1.824476	4.88E-16
DIRAS1	-1.74813916	2.76E-11	BIRC5	1.831084	2.43E-21
TMEM100	-1.74784401	1.81E-09	HERC5	1.831807	9.83E-11
NKX3-1	-1.74742406	3.54E-17	CDC45	1.833965	2.54E-18
KLHL30	-1.74616043	9.13E-09	CCNA1	1.834674	0.00012
DAW1	-1.74534568	6.02E-06	SHOX2	1.841299	1.22E-06
MYOD1	-1.74459619	1.38E-07	CILP2	1.841698	7.02E-05
DEFB1	-1.74371423	5.56E-10	HIST1H3G	1.842036	8.61E-05
CACNB4	-1.7406258	1.10E-07	SLC15A3	1.842338	1.84E-14
CLIC6	-1.74041453	1.90E-11	NETO2	1.849106	1.15E-19
CCDC33	-1.7399295	1.43E-07	PLCXD2	1.851331	0.000198
MSTN	-1.73917148	1.23E-07	COL8A1	1.852054	1.26E-07
NR4A3	-1.7368462	8.55E-14	AC055733.	1.852113	0.000259
CNN1	-1.73543581	1.09E-13	FOXL1	1.853889	4.32E-06
ZNF844	-1.73457729	1.75E-15	APBA2	1.854287	3.06E-07
SVIL	-1.73432337	7.84E-37	TK1	1.854308	9.86E-24
VTCN1	-1.73408977	2.42E-06	E2F1	1.854624	2.65E-15
LSMEM1	-1.7321271	2.99E-11	MYO7B	1.85673	0.000959
SERPINA3	-1.73128119	4.06E-07	BCAT1	1.857529	5.94E-08
RBP4	-1.73106876	9.59E-07	SMCP	1.858116	0.003066
C4A	-1.72973147	1.69E-09	F2RL2	1.859705	3.99E-09
NKX2-3	-1.72966092	6.02E-06	WDR66	1.860491	7.99E-15
SASH1	-1.7278572	3.79E-27	AKR1C2	1.861923	9.67E-05
FAM25A	-1.72764384	1.06E-06	AC004813.	1.863259	0.003318
CP	-1.72741373	3.69E-06	SNAI2	1.865701	1.74E-25
LEXM	-1.72731231	1.33E-10	XAF1	1.868663	1.59E-10

ACADSB	-1.72681377	3.23E-33	LAG3	1.869152	4.11E-07
FYCO1	-1.7263004	5.69E-33	TNFSF4	1.870046	1.82E-06
RNF180	-1.72491235	1.88E-09	ITGA3	1.872277	1.80E-16
KRT73	-1.72371748	6.09E-07	USP18	1.875583	1.47E-12
KAT2B	-1.72315212	3.62E-35	E2F7	1.876049	2.31E-12
SLC12A2	-1.72115523	1.05E-31	BATF2	1.879953	3.29E-06
FNDC4	-1.71937715	1.39E-24	ADAM8	1.880096	1.21E-12
AIF1L	-1.71917805	7.75E-18	KIF4A	1.882376	3.93E-24
SPNS2	-1.71863641	8.39E-16	FXD5	1.883848	9.30E-15
C1orf204	-1.71794574	5.10E-12	HORMAD1	1.884587	4.29E-06
TCTE1	-1.71606473	2.36E-07	OAS3	1.885674	2.31E-13
LRRTM1	-1.71581838	3.33E-07	HJURP	1.89047	1.87E-19
SVIP	-1.71579544	7.61E-16	AJAP1	1.89372	1.89E-05
GAS2L2	-1.71467754	2.19E-06	AURKB	1.896806	1.12E-19
CXCL12	-1.71064814	1.14E-13	SUN3	1.897001	0.000352
PTGES3L	-1.71028294	1.60E-11	COL4A2	1.89812	2.82E-19
GPRC5B	-1.71006718	6.29E-19	SPARC	1.904361	3.45E-12
ANKRD35	-1.70767725	3.35E-14	DDX60	1.905315	1.32E-12
CCDC78	-1.70754254	3.50E-08	CENPA	1.90786	6.85E-22
IL34	-1.70551933	3.83E-17	NXPH4	1.909027	4.64E-10
TNFRSF11A	-1.70262552	5.20E-13	CDC20	1.910568	1.41E-23
BSPRY	-1.70196579	1.07E-15	KIF14	1.914353	1.70E-12
FAM134B	-1.70067188	3.95E-15	FADD	1.915701	1.34E-11
ADCY2	-1.69958642	4.74E-09	PLK1	1.91722	1.53E-27
MFSD4	-1.69833692	4.55E-09	SLC6A2	1.9181	2.83E-06
BCAS1	-1.69573239	1.46E-11	EN2	1.923735	3.53E-05
MAP3K19	-1.69570961	3.46E-07	FZD2	1.929194	2.41E-15
DRC7	-1.69469786	4.35E-07	AURKA	1.934656	1.05E-25
EPHX2	-1.69425616	4.32E-23	TSKS	1.938027	6.31E-05
ASB14	-1.69422041	6.66E-10	RBP1	1.941045	4.48E-12
BRINP1	-1.69284701	2.87E-08	CMPK2	1.945766	2.26E-10
ICA1	-1.69211577	3.89E-15	NEFM	1.946804	0.000965
FAM174B	-1.68892682	2.67E-21	TENM3	1.949859	2.76E-10
ATP6V0E2	-1.68863324	9.71E-18	CHST11	1.95109	1.14E-21
CSTB	-1.68796284	1.97E-15	TSPAN10	1.951337	1.71E-09
CFAP61	-1.68716454	2.79E-07	SAGE1	1.955588	0.018512
LPIN1	-1.68580772	1.07E-29	LAMB3	1.95686	1.05E-16
PLEKHA6	-1.68541525	5.45E-17	MAGEA9B	1.957744	0.001218
FAM124A	-1.68469515	8.09E-09	TPX2	1.959615	1.69E-29
AMY1A	-1.68421314	9.95E-08	NT5E	1.959664	4.12E-10
DDO	-1.68420185	8.03E-12	CAV1	1.962083	9.81E-14
ARHGAP36	-1.68345951	1.42E-07	MATN3	1.966936	2.12E-06
ZBBX	-1.68308059	4.42E-07	IGFL2	1.967626	4.48E-06
WDR78	-1.68178874	2.77E-07	NTSR1	1.967711	0.001947
NHLRC4	-1.67963423	4.54E-08	CNTD2	1.977019	2.00E-05
KRTAP5-8	-1.67817092	1.28E-06	COL27A1	1.977769	3.59E-16
FGF18	-1.67699751	1.16E-08	SLC2A1	1.98296	4.15E-16

MAP6	-1.6753391	1.03E-07	GPRIN1	1.985577	1.85E-21
TLL10	-1.67439971	3.49E-06	HOXB13	1.985636	0.00048
FRMPD1	-1.67336822	6.49E-07	IL13RA2	1.988477	0.001144
ETV1	-1.67190497	2.02E-11	CXCL9	1.990401	7.11E-06
CYP2A13	-1.67135626	7.08E-07	CAMK2N2	1.993112	2.89E-06
FAM57B	-1.67098521	5.47E-07	CNTNAP2	1.994909	1.45E-05
BIN1	-1.67013287	3.15E-16	FGF3	1.995028	0.020764
AGL	-1.66921048	1.27E-34	CGB8	1.999489	8.82E-05
SLC6A4	-1.66884237	9.65E-08	UBE2C	1.999705	2.10E-26
EPM2A	-1.66629438	4.86E-16	PDCD1LG2	2.003354	2.63E-08
CFAP221	-1.66616655	3.04E-07	PKMYT1	2.003632	2.42E-21
NR4A2	-1.66586053	3.16E-15	KIF2C	2.009874	3.73E-29
TMEM139	-1.6652516	1.04E-06	FOXM1	2.010268	6.28E-24
KRT77	-1.66274392	7.56E-06	BMP1	2.010462	1.37E-29
KRTAP5-1	-1.66256731	6.38E-06	HAP1	2.012093	1.19E-06
TMEM210	-1.6608791	1.50E-07	ANO1	2.013824	1.76E-08
SIX1	-1.65942663	1.16E-19	SCG5	2.015123	5.61E-08
EIF4EBP3	-1.65818818	3.00E-25	FNDC1	2.016168	1.27E-06
NAALADL2	-1.65720112	3.01E-08	GRP	2.019887	1.52E-05
FOXC1	-1.65697096	2.22E-23	SH2D2A	2.024912	1.32E-13
ADH7	-1.65658188	1.38E-05	NLRP7	2.026761	8.76E-05
RHOU	-1.65392845	2.61E-22	APOL1	2.02971	3.34E-12
MC5R	-1.65373119	1.06E-06	LHX1	2.031357	1.09E-05
WNK2	-1.65344693	8.17E-08	CEP55	2.032212	2.08E-26
PRUNE2	-1.65311633	1.22E-07	CDCA5	2.034948	2.46E-27
FRMD3	-1.65199552	4.90E-09	EPSTI1	2.037472	1.10E-12
SOD3	-1.65034533	1.82E-19	PLEK2	2.041913	2.39E-17
CYP11A1	-1.64995246	2.15E-07	EPHB2	2.043229	2.88E-12
TMEM143	-1.64590114	5.83E-20	NRIP3	2.043899	2.14E-09
KRTAP24-1	-1.64580114	5.03E-08	CTSV	2.04678	3.39E-13
DOK5	-1.64577657	3.78E-11	NID1	2.048518	1.20E-12
HCAR1	-1.64506216	2.72E-06	COL6A1	2.055768	1.95E-13
RAET1E	-1.64395862	1.56E-12	COL4A5	2.062503	2.16E-18
LONRF2	-1.64323838	1.39E-07	WARS	2.064277	2.37E-09
BCL2L15	-1.64280168	3.37E-07	SMC1B	2.064319	0.001361
CLDN4	-1.64064574	4.08E-15	HOXC4	2.065654	1.14E-07
ADGRF1	-1.63948212	6.86E-09	STRA6	2.066683	4.89E-07
MEF2C	-1.63941067	2.08E-10	KIF26B	2.066948	2.07E-10
TUBA4B	-1.63926943	8.72E-06	AKR1C1	2.073112	8.17E-05
SCT	-1.6384219	3.80E-08	OAS2	2.073387	2.32E-15
DPP4	-1.63836005	1.75E-12	MYL7	2.077465	0.00695
SNTB1	-1.63813119	2.16E-22	ZNF469	2.07806	9.78E-09
C1orf158	-1.6377186	6.37E-07	ITGA6	2.084542	2.89E-18
ASB4	-1.63741167	4.09E-07	SIGLEC12	2.085652	2.74E-06
WISP2	-1.63740554	1.26E-07	PPP4R4	2.087442	1.22E-08
RNF186	-1.63668921	1.26E-06	ADAMTS14	2.089008	1.92E-10
ZDHC15	-1.63588234	2.13E-07	TH	2.089076	0.000378

CHST6	-1.63467256	4.91E-09	TLX3	2.089796	0.001891
XPNPEP2	-1.63384554	4.17E-08	IDO1	2.092127	9.77E-06
LRRC18	-1.63374673	7.58E-07	DCBLD1	2.09549	1.35E-18
PODN	-1.63369605	4.59E-11	SULF1	2.102849	4.15E-11
CATIP	-1.63274795	5.09E-06	HIST1H2BC	2.108668	8.28E-06
EHF	-1.63029893	3.69E-16	SLAMF9	2.114024	4.58E-06
SCNN1A	-1.6299224	9.42E-15	ZIC5	2.115874	4.41E-07
ZNF853	-1.62954137	5.29E-14	CSPG4	2.118043	7.35E-12
SPRR2A	-1.62944853	9.00E-07	GPR158	2.11873	4.40E-06
PTPRN2	-1.62859642	5.83E-13	ULBP2	2.12129	1.05E-19
SYN2	-1.62561841	1.10E-06	FIBCD1	2.129903	0.000202
MT-ND1	-1.62546248	8.94E-29	DPF1	2.13013	9.00E-08
RSPH9	-1.62267409	8.70E-08	NEFL	2.132082	2.01E-07
TMEM125	-1.62114429	3.72E-17	ICAM5	2.13664	1.12E-07
EMCN	-1.61854638	3.17E-16	AKR1C3	2.139787	5.67E-06
MMP7	-1.61748058	2.91E-07	PMEPA1	2.152553	6.56E-19
MT-ND5	-1.61697046	5.61E-24	HIST1H3H	2.153318	1.20E-10
FUT3	-1.61639083	8.45E-13	IL1A	2.154958	6.76E-08
LMCD1	-1.61554355	2.26E-20	HOXA11	2.158083	1.18E-05
NKAPL	-1.61451758	1.38E-07	UCN2	2.161571	7.68E-12
RND1	-1.61347602	1.26E-13	IGFL3	2.165608	0.000133
BTC	-1.6130767	5.29E-12	FOXD1	2.167106	1.01E-13
PRSS3	-1.61286342	1.46E-06	GPR39	2.168226	6.97E-11
GMDS	-1.61281475	1.31E-41	LRRC15	2.168439	2.27E-07
SLC25A25	-1.61067413	1.46E-27	ITGA11	2.172801	2.92E-07
MANSC1	-1.61018287	2.49E-21	NRG1	2.174851	1.38E-09
SLC19A3	-1.60917799	9.95E-07	HOXC6	2.175152	8.38E-07
INPP5J	-1.60911922	7.65E-13	DMRTA2	2.176737	0.000333
AOC3	-1.60842954	8.79E-16	MYBL2	2.178346	1.63E-29
ATOH8	-1.60658916	1.18E-09	FEZ1	2.179055	1.92E-12
EGR3	-1.60427804	1.11E-13	CYP27C1	2.185668	1.03E-13
TPM1	-1.60415828	1.13E-17	AL137860.	2.186134	2.79E-11
SIM2	-1.6039318	1.27E-08	PROC	2.187608	9.18E-08
GNMT	-1.60192914	1.52E-08	DNMT3B	2.200569	1.44E-14
CACNA2D1	-1.59913365	1.60E-12	COL5A3	2.205415	1.06E-16
CSTA	-1.59865775	1.83E-10	IFI27	2.208987	3.02E-15
LCN2	-1.59725787	1.47E-08	AMIGO2	2.210344	1.11E-13
ATP8A1	-1.59623624	7.61E-11	C6orf141	2.210464	9.68E-12
SLC25A23	-1.59579057	1.93E-29	SPOCD1	2.216383	3.62E-08
DPF3	-1.59559858	1.16E-07	NOBOX	2.222819	0.008664
FMO5	-1.59531193	1.64E-07	IFI44L	2.223266	1.03E-10
MPC1	-1.59522238	5.57E-49	COL7A1	2.223538	4.40E-21
PRR29	-1.5950918	4.18E-07	PDPN	2.226189	3.78E-19
ACSS3	-1.58857885	1.00E-06	GPR176	2.226945	3.43E-14
PRG4	-1.58837664	1.18E-06	GNGT1	2.228813	2.19E-06
ZBTB7C	-1.58795905	1.77E-11	VEGFC	2.239808	5.06E-12
C22orf15	-1.58698771	2.00E-05	SERPINH1	2.239881	3.53E-29

PGPEP1L	-1.58666685	2.05E-07	FGF19	2.240944	0.00097
FRY	-1.58603939	9.15E-10	U82695.5	2.241755	0.012002
FAM13C	-1.58478735	1.02E-08	IFIT2	2.247887	1.26E-10
AR	-1.58435173	2.07E-07	GJC1	2.254103	8.07E-12
MAATS1	-1.58336216	9.42E-06	HIST1H2AI	2.254525	6.16E-08
VSIG10L	-1.58270073	1.77E-09	HBE1	2.254566	0.003057
PBX1	-1.58080177	5.46E-17	RGS4	2.255202	5.05E-09
KCNMB1	-1.5785726	5.79E-10	SOX14	2.26215	0.037064
GPT2	-1.57838119	1.50E-27	STRA8	2.264941	0.001675
GPRASP1	-1.57827881	8.09E-09	LY6K	2.270966	3.27E-15
IL33	-1.57769374	1.70E-07	EN1	2.282471	2.22E-10
TFCP2L1	-1.57749873	7.55E-16	DFNA5	2.287064	1.35E-18
HRASLS	-1.57422981	1.17E-10	ENO2	2.287143	2.32E-13
TTYH1	-1.57393293	1.57E-06	PNCK	2.289643	1.40E-05
SPATA6	-1.57289746	1.46E-09	CXCL13	2.293665	5.08E-11
TNS1	-1.57226826	6.52E-20	FSTL3	2.302825	5.66E-15
FHIT	-1.57059224	5.13E-08	NPBWR1	2.303852	2.59E-06
CCDC129	-1.57035679	6.27E-06	COL4A1	2.308324	9.88E-23
TMEM212	-1.57031714	1.03E-06	CREG2	2.311859	2.09E-07
DACH1	-1.57011404	4.27E-07	RTP3	2.318672	0.000118
RAB9B	-1.56930742	2.50E-07	COL6A3	2.321531	1.39E-11
FAM26D	-1.56910136	2.09E-07	C1QL1	2.322617	2.76E-08
FOSB	-1.5684466	2.90E-09	NPW	2.335983	6.27E-06
ANXA9	-1.56705394	3.61E-12	KIAA1644	2.343598	1.02E-09
HSD17B13	-1.56570698	4.48E-05	IGFBP6	2.346993	6.21E-09
WNK4	-1.56512015	2.38E-07	HOXC11	2.35187	1.99E-08
MTRNR2L1	-1.56468206	0.00641945	TFPI2	2.353955	9.46E-05
FDCSP	-1.56412108	0.00860653	IFIT1	2.354627	2.39E-11
TTC9	-1.56377435	5.99E-16	STEAP1B	2.360199	1.78E-07
ECHDC3	-1.55660448	4.39E-12	TNC	2.361412	3.24E-14
RSPO1	-1.55612596	5.84E-07	HOXC8	2.362059	3.65E-07
RAI2	-1.5558139	3.60E-15	IFIT3	2.371115	2.76E-12
DPCR1	-1.55508449	3.32E-07	CCL26	2.373758	8.28E-06
PRKAR2B	-1.55397686	2.82E-13	LHX5	2.376602	1.53E-07
SPARCL1	-1.55374147	1.17E-18	CHST2	2.377215	4.54E-13
C9orf116	-1.55235741	1.04E-09	IFI44	2.387303	8.19E-18
EPB41L4A	-1.55169382	1.21E-11	CTHRC1	2.3913	7.59E-14
HS3ST6	-1.55046226	2.22E-06	CHIT1	2.403157	5.78E-05
FLG2	-1.54963393	0.00192937	HTR7	2.411767	2.32E-13
OXGR1	-1.54956308	2.37E-08	HOXC9	2.415877	9.09E-10
SOWAHA	-1.54906828	5.01E-06	KREMEN2	2.420939	1.47E-09
MUC20	-1.54786025	2.45E-07	FAP	2.421235	1.86E-13
HTR3B	-1.54720204	1.41E-06	GAGE2A	2.425005	0.006968
BEND7	-1.54691154	1.30E-07	SPANXC	2.431119	0.000307
CRABP1	-1.54548756	4.58E-07	CYP27B1	2.434025	5.60E-13
CDH19	-1.54291264	3.85E-06	PCSK9	2.438578	1.39E-11
ALDH6A1	-1.54279323	6.43E-27	SPP1	2.440537	5.14E-07

DUOXA2	-1.54187733	8.81E-07	DKK1	2.457908	4.83E-08
PCSK2	-1.54159229	5.12E-06	IGF2BP2	2.459179	1.08E-23
CCDC65	-1.53976979	4.33E-08	NGB	2.464708	3.38E-05
DDAH1	-1.53916072	3.35E-20	LAMP5	2.473411	1.54E-11
DCDC2B	-1.53869004	7.58E-06	ITGA5	2.484392	3.40E-22
TPRG1	-1.53723471	2.26E-14	TM4SF19	2.486677	2.77E-14
RPRM	-1.53576613	3.68E-07	TENM2	2.492052	1.34E-17
IL6	-1.53535964	7.70E-08	CLDN6	2.496968	0.000736
DYRK1B	-1.53499983	5.93E-22	CXorf67	2.512958	0.006411
SLC7A2	-1.53364473	1.53E-09	FOXL2	2.51664	5.10E-07
TGM1	-1.53347162	1.21E-07	DNAH17	2.522127	8.52E-11
CPEB3	-1.53098437	2.04E-13	STC2	2.525985	1.18E-13
CLDN23	-1.53087798	4.14E-19	SH2D5	2.543463	8.19E-11
FHL3	-1.52844176	1.14E-24	PLAU	2.559434	1.02E-25
CFAP161	-1.5246774	1.97E-05	PADI3	2.562991	9.26E-08
ADH1C	-1.52413556	0.00259473	ZIC2	2.566381	3.65E-11
ISM1	-1.52253983	2.15E-14	IGF2BP3	2.573792	3.94E-10
SCGN	-1.52207523	2.61E-06	WNT2	2.573918	2.02E-09
C2CD4B	-1.52186796	5.43E-09	TRIML2	2.578812	1.91E-05
MT-ND6	-1.51961797	1.00E-20	C1QTNF6	2.585646	2.52E-22
PTGER3	-1.51930598	5.87E-09	COX7B2	2.591902	0.003075
ANGPTL5	-1.51371281	1.97E-06	COL4A6	2.592181	1.06E-14
RP5-1187M17	-1.5136196	1.12E-14	TREM1	2.603156	4.39E-10
DNASE1L2	-1.51223513	6.33E-07	P3H2	2.606334	3.99E-13
CHL1	-1.51200112	8.01E-08	SPINK6	2.612302	0.000138
SLC16A11	-1.5093693	1.72E-09	FST	2.614013	7.98E-16
LRRC31	-1.50781693	4.15E-06	SLC22A1	2.622255	9.53E-06
ACAA2	-1.5057886	1.94E-21	OASL	2.627273	6.36E-13
ATP7B	-1.5052362	7.98E-09	BST2	2.634704	3.66E-17
STK33	-1.505143	8.38E-06	HKDC1	2.657407	4.21E-06
APBB1	-1.50468884	1.89E-19	WNT7A	2.657865	3.20E-13
TNFSF15	-1.50333337	2.67E-09	COL1A2	2.672268	2.32E-13
CCDC173	-1.49978014	1.18E-05	CD70	2.686096	1.85E-08
DLG2	-1.4997618	8.38E-06	ASPN	2.687292	6.02E-11
LIPE	-1.49944372	1.31E-15	ACTL8	2.687488	0.000269
DTHD1	-1.49889662	2.87E-05	PCDHGC5	2.689688	1.35E-07
DNAH6	-1.498136	2.03E-05	HOXA10	2.696673	5.29E-10
KIAA1211L	-1.49771437	9.05E-18	PDIA2	2.698415	0.000617
C3	-1.49727182	3.81E-11	IFNK	2.716141	0.00057
PCK1	-1.49704481	2.24E-05	ZFP42	2.74379	0.000531
NNT	-1.49583498	8.18E-26	NR5A1	2.749573	0.00288
KCNQ1	-1.49040778	2.16E-13	GBP5	2.757863	3.35E-09
PITX3	-1.49023361	1.38E-07	CT45A10	2.758223	0.000864
STBD1	-1.48984377	1.91E-10	ADAMTS12	2.78331	1.56E-12
SCARA3	-1.4876643	1.09E-15	DUSP9	2.78612	2.01E-11
TMPRSS11E	-1.48755777	4.00E-06	CXCL10	2.787502	3.16E-08
ACADM	-1.48692226	5.49E-39	KLHDC7B	2.796921	3.56E-09

PLCL1	-1.48598345	4.51E-09	IBSP	2.799746	1.79E-07
MPV17L	-1.48594392	4.65E-08	COL22A1	2.813253	1.47E-08
FOLH1	-1.48511505	6.42E-09	SLCO1B3	2.815026	3.24E-08
PITX1	-1.48492141	5.83E-17	MFAP2	2.821341	1.72E-30
RRAD	-1.48432748	3.10E-07	MMP3	2.829181	1.26E-09
KCNJ12	-1.48326926	3.38E-09	MAGEC1	2.830028	0.000828
LDOC1	-1.48318504	4.15E-09	WISP1	2.845526	3.97E-14
SLC8A3	-1.48235728	3.92E-06	GDPD2	2.853759	7.89E-09
LIFR	-1.48165032	2.74E-10	NELL2	2.868014	2.48E-11
IKZF2	-1.47854357	1.46E-16	ADAMTS2	2.879755	2.42E-18
ACAT1	-1.47852443	3.62E-34	RSAD2	2.890212	1.84E-14
KRT2	-1.47852214	0.00501183	HOXB9	2.891257	4.28E-07
CGN	-1.47718552	5.89E-16	FGFBP2	2.914231	0.000597
MT-CYB	-1.47662267	1.12E-22	FBN2	2.947781	2.52E-10
SNRPN	-1.47655997	5.16E-19	COL3A1	2.973184	2.80E-14
KNDC1	-1.47638933	1.17E-05	IGF2BP1	2.985145	3.23E-07
GAL	-1.47545121	0.00031136	ZNF114	2.992925	4.47E-13
SCGB1D2	-1.47497845	0.01556697	NTS	2.997536	0.001911
IDI2	-1.47449824	9.45E-07	MMP1	3.002983	1.03E-10
SMAD9	-1.47424826	1.35E-09	PLAC1	3.035506	3.13E-10
THSD4	-1.47299003	5.04E-19	LOXL2	3.036175	2.41E-24
MRAP	-1.47279557	6.27E-06	ANXA10	3.038977	3.13E-05
ITGA7	-1.46984181	2.13E-09	KHDC1L	3.047043	8.31E-10
RIBC1	-1.46968963	1.34E-06	HOXD11	3.061161	1.56E-17
NCCRP1	-1.46928553	1.81E-07	ADAM12	3.074315	2.39E-16
MAML3	-1.46909286	4.91E-17	ARTN	3.08283	1.72E-18
SLC44A3	-1.46832649	1.47E-23	COL12A1	3.090697	3.31E-24
CASQ2	-1.46786921	0.00014445	GPR50	3.101375	1.10E-05
DRD2	-1.46518655	8.01E-05	TKTL1	3.109099	0.010804
EDNRB	-1.46496015	1.55E-12	FOLR3	3.10965	5.97E-08
GULP1	-1.46437967	3.13E-09	GRIN2D	3.120544	1.23E-13
PRELP	-1.4622305	1.10E-07	SERPINE1	3.121438	3.98E-19
SNTA1	-1.45924623	1.08E-20	GTSF1	3.138109	7.99E-07
ART5	-1.45893134	1.99E-06	HOXD10	3.148779	1.63E-18
PRKAG3	-1.45832345	5.25E-06	COL5A2	3.158131	7.42E-21
RPS6KA6	-1.45561496	1.47E-05	SPDYC	3.160436	4.13E-05
ZSCAN18	-1.45544457	9.96E-12	HOXD13	3.16047	3.06E-11
MACROD1	-1.4540587	4.70E-17	COL1A1	3.167364	1.33E-16
SYBU	-1.45392928	1.13E-11	CDKN2A	3.172204	1.79E-09
FUT2	-1.45261581	2.24E-17	IFI6	3.1802	3.48E-19
NEBL	-1.45176311	2.51E-18	LAMA3	3.198223	2.22E-21
PDE6A	-1.45172459	6.92E-06	HOXC10	3.226102	7.75E-14
RBM20	-1.45169147	9.95E-07	RNASE10	3.237391	3.77E-09
VWA3A	-1.45142688	2.09E-05	PLPP4	3.249797	2.60E-12
DNAH12	-1.45109216	1.30E-05	RPE65	3.254244	1.77E-08
TEKT4	-1.45070481	0.0001049	COL5A1	3.294954	5.11E-23
GAS7	-1.45031496	1.03E-16	AIM2	3.302717	8.73E-22

MEOX2	-1.44981182	2.11E-09	FN1	3.348373	8.03E-15
NSUN7	-1.44793777	1.90E-07	IL24	3.374314	3.70E-13
RNF224	-1.44449521	6.42E-07	C4orf26	3.378161	1.67E-05
MUC22	-1.44428004	7.61E-05	POSTN	3.383569	1.72E-15
KRTAP5-11	-1.44371986	2.27E-06	CNGB1	3.401435	6.80E-12
BTG2	-1.44348688	8.09E-22	HOXB7	3.492905	4.86E-18
TGM5	-1.44335308	1.65E-09	PNMA5	3.509753	0.001061
NTRK3	-1.44329232	1.50E-05	CXCL11	3.522145	2.48E-09
VWA5A	-1.44252373	1.21E-21	PAEP	3.530659	4.22E-10
DYDC2	-1.44193111	5.35E-05	MAGEA10	3.539261	0.000106
AQP1	-1.44172367	8.88E-20	SOHLH1	3.552423	0.000373
CLIC3	-1.44148322	2.94E-08	IL11	3.583701	2.53E-17
CYP27A1	-1.44146174	9.02E-09	PTHLH	3.6495	1.13E-21
RGS22	-1.44046147	1.59E-05	PAGE2	3.665984	0.003091
DOC2B	-1.44029751	1.75E-10	AMTN	3.683435	1.20E-07
RNF225	-1.44004031	4.09E-08	MMP12	3.739761	1.89E-21
GADL1	-1.43946688	1.97E-06	MMP9	3.740885	1.52E-21
KLHL34	-1.43878173	1.81E-05	MMP10	3.791293	7.93E-12
GOT1	-1.43868537	8.21E-42	SPANXB1	3.799779	3.15E-05
NMU	-1.43834941	1.80E-09	HMGA2	3.806837	2.20E-13
PDE4B	-1.43774305	5.47E-11	CSF2	3.846054	7.80E-12
OGDHL	-1.43713674	1.91E-06	TGFBI	3.850227	1.65E-29
TCEAL7	-1.43627112	1.04E-10	COL11A1	3.860747	9.41E-13
DRC3	-1.43572478	1.77E-06	MAGEA12	3.903418	0.000142
CDH15	-1.43543689	1.08E-06	MAGEA11	3.966342	1.25E-06
SEMA3E	-1.43449962	1.71E-05	ISG15	3.996333	2.25E-21
DNAAF1	-1.43419977	5.42E-05	INHBA	4.028124	3.79E-26
ARHGAP20	-1.43208509	1.26E-06	MAGEC2	4.052403	5.85E-05
GYPC	-1.43081732	6.17E-17	PRAME	4.09101	8.37E-09
LBX1	-1.43059282	1.47E-05	LAMC2	4.109002	6.17E-31
GALNT12	-1.42989764	4.09E-15	CSAG1	4.15113	6.00E-08
LRG1	-1.42981672	1.78E-09	CTAG2	4.201983	0.000119
CRACR2A	-1.42976213	2.25E-08	GAST	4.350448	6.58E-14
SOBP	-1.42922211	3.89E-09	MAGEA1	4.457484	1.73E-05
METTL21C	-1.42832035	3.08E-06	MAGEB2	4.474905	3.60E-06
AMIGO1	-1.42792007	1.49E-11	CALB1	4.562949	2.45E-07
ELANE	-1.42746682	1.71E-05	COL10A1	4.577735	1.07E-17
S100A8	-1.4273614	2.58E-07	MMP11	4.677904	6.69E-23
CNFN	-1.42730678	8.79E-06	MAGEA3	4.815408	8.72E-08
ROR1	-1.4268658	6.73E-09	MAGEA6	5.267355	1.90E-08
PIK3C2G	-1.42488069	4.18E-07	MAGEA4	5.356454	1.27E-08
RSPH14	-1.42429076	3.98E-05	CA9	5.741866	1.01E-25
C10orf10	-1.42426945	2.79E-12	MMP13	6.400508	2.00E-18
SLCO4C1	-1.4235116	0.00014241			
PTGIS	-1.42255958	4.12E-06			
FAM110D	-1.42238072	1.70E-09			
MACC1	-1.42204343	3.90E-12			

SLC9A4	-1.42165447	0.00017568
ZBTB47	-1.42078119	3.73E-21
ZNF415	-1.42008066	3.66E-07
SLC46A2	-1.41931547	2.59E-05
EXPH5	-1.4178849	3.77E-16
TRNP1	-1.4168767	4.50E-14
2-Mar	-1.41684518	1.33E-14
ARHGEF38	-1.41664254	4.38E-05
SPRR2B	-1.41567053	0.00058803
SLC15A2	-1.41327569	1.83E-11
USP2	-1.41235554	3.74E-11
MYH1	-1.41224102	0.00506716
CYP1A1	-1.41157293	0.00228013
CFAP46	-1.41081313	5.59E-05
ETFDH	-1.40950843	2.85E-36
FLG	-1.40948893	0.00046779
FGF6	-1.40908241	2.21E-05
C1orf127	-1.40903524	3.80E-05
CSRNP1	-1.40675448	2.59E-22
FAM198A	-1.4043975	1.99E-06
IGDCC4	-1.40422082	5.69E-08
CDH22	-1.40221682	3.60E-05
TCEAL6	-1.40084794	7.83E-06
NAT8L	-1.4001559	1.92E-06
CYP2J2	-1.39972971	5.80E-19
PTP4A3	-1.39714107	2.73E-12
SLAIN1	-1.39709582	3.30E-07
C14orf180	-1.39686119	7.83E-06
CLYBL	-1.39675718	3.17E-09
IL17B	-1.39597662	5.38E-05
BPIFB6	-1.39545459	0.00049442
CADPS2	-1.39465894	3.67E-13
C10orf90	-1.3942129	1.50E-05
EFHD1	-1.39421264	1.13E-07
TNFSF13	-1.39377139	5.81E-18
ABLIM2	-1.39353691	9.63E-12
CCDC81	-1.39311671	0.00013368
TMEM150C	-1.39271292	2.40E-09
PIK3R1	-1.39269967	1.82E-18
FHL5	-1.39149373	8.03E-07
MOGAT1	-1.39102384	2.87E-05
C14orf159	-1.38907531	1.26E-28
QPCT	-1.38860974	3.32E-13
OCLN	-1.38810793	3.84E-11
TSPAN1	-1.38645954	5.17E-06
NPPC	-1.38645229	0.00191538
BHMT2	-1.38625453	4.95E-06

IGFBP5	-1.38483202	1.56E-09
LRRIQ1	-1.38343032	6.84E-05
MEIS1	-1.38298485	1.58E-13
C1orf105	-1.38241702	6.59E-05
CA13	-1.38163768	5.26E-11
ZFP36	-1.38142662	4.04E-17
RBP7	-1.38084747	2.40E-09
FOXA1	-1.38015294	1.71E-05
FMO1	-1.37948847	2.68E-09
TMEM220	-1.37897396	2.12E-09
KLHDC9	-1.37863574	1.46E-08
DMPK	-1.37828464	1.06E-12
CD200R1	-1.37803102	2.48E-06
SPTSSB	-1.37772702	1.18E-06
WBSCR17	-1.37527333	1.31E-06
TSPAN19	-1.37417395	1.25E-05
CCDC64B	-1.3724445	5.79E-11
CEACAM6	-1.37038171	1.33E-06
MAGI1	-1.36802055	2.29E-14
SNED1	-1.36767785	9.42E-08
DNAH3	-1.3662339	9.49E-05
TBX3	-1.36538407	5.13E-23
ELF3	-1.36521853	5.92E-09
SOX17	-1.36507824	9.52E-09
LGR6	-1.36381828	9.60E-07
BNIP1	-1.36322048	1.42E-09
MYOG	-1.36276679	0.00127449
AK1	-1.36248831	2.03E-17
MTURN	-1.36218738	4.60E-19
LCN6	-1.36100446	5.35E-05
ROPN1B	-1.3605518	0.00016773
PLPP3	-1.36003625	9.49E-17
TEX101	-1.3598697	1.09E-06
TCEAL5	-1.35767451	7.33E-05
CCDC69	-1.35557737	5.84E-17
SBSN	-1.35529508	1.89E-05
MGST1	-1.35522391	0.00025546
SLC30A2	-1.35489302	6.41E-05
UBL3	-1.35437387	2.79E-40
FEM1A	-1.35412325	1.68E-07
WWC1	-1.35355824	2.91E-21
FZD4	-1.35036638	5.33E-15
MKRN2OS	-1.35022096	8.37E-09
SATB1	-1.34940318	1.24E-12
ME3	-1.3491139	1.15E-10
NFIB	-1.3490393	5.43E-16
AKAP6	-1.34832521	2.52E-06

RBPMS	-1.34692492	2.32E-16
MESP1	-1.34683448	1.98E-05
CHADL	-1.34553877	2.18E-10
EFHC2	-1.34537657	8.09E-06
NCALD	-1.34469925	3.97E-09
DNAH10	-1.34446152	0.00056965
ZNF677	-1.33974854	3.10E-05
PSORS1C2	-1.33936304	0.00045892
REN	-1.338773	2.28E-05
KCNQ4	-1.33803646	6.14E-07
GNE	-1.33799017	2.37E-14
CLCNKA	-1.33747763	4.91E-05
MMP27	-1.33623806	0.00011803
SLC9A3	-1.332887	1.10E-05
MYO5B	-1.33286705	3.40E-15
CADM2	-1.33231025	8.56E-05
PLLP	-1.33201169	3.36E-11
TMEM47	-1.33130491	1.56E-13
ADGRA1	-1.33001653	0.00016787
SMIM10L2A	-1.32970783	1.08E-06
FN3K	-1.32926712	3.28E-11
SELP	-1.32791121	2.90E-08
MYH14	-1.32700564	8.61E-09
CD36	-1.32599669	2.50E-06
MGAT4A	-1.32341406	5.16E-13
ADGRG2	-1.32279536	0.00027353
RIMS4	-1.32253054	0.00019854
ALDH1A3	-1.32210986	8.13E-09
RARB	-1.32208432	8.51E-08
CD164L2	-1.32110031	6.63E-09
SELE	-1.32061513	1.22E-06
CLUL1	-1.3196746	0.00016689
SCNN1G	-1.31873567	8.70E-07
SFTPA2	-1.31820368	0.0012182
MT-CO1	-1.31817028	7.52E-22
CD1C	-1.31643474	2.08E-12
ZNF662	-1.31581691	1.86E-06
PGM1	-1.31547164	3.32E-28
TMEM231	-1.31411586	3.13E-07
SULT2B1	-1.31405563	4.59E-07
MDH1B	-1.31334656	0.00016327
GPRC6A	-1.31321081	2.25E-05
RIC3	-1.31298197	4.44E-05
SERPINB13	-1.31244035	2.54E-06
CBX7	-1.31225977	1.55E-16
ARHGEF10L	-1.31126332	2.70E-31
KRTAP4-1	-1.31104954	8.19E-05

CYP4F22	-1.31027755	0.0001222
RBM47	-1.30982937	4.73E-24
TMPRSS11D	-1.30964328	9.00E-06
HPSE2	-1.30932263	8.01E-05
EPHX3	-1.30916837	0.00015947
SLIT3	-1.30909801	7.87E-10
TMEM63A	-1.30845421	4.21E-19
TMEM45B	-1.30817864	2.20E-06
KCNAB1	-1.30763841	1.92E-05
SLPI	-1.30751033	2.32E-07
HRCT1	-1.30738386	3.30E-06
FAM110B	-1.30514371	1.28E-08
GKAP1	-1.3046831	1.37E-07
DUSP5	-1.30397602	1.91E-14
MT-ND3	-1.30380884	3.87E-18
ALDH9A1	-1.30262031	5.13E-36
EPS8L1	-1.30206311	1.86E-10
TEC	-1.29931586	4.18E-08
RGS7BP	-1.29920129	4.91E-05
FCGBP	-1.2985629	2.39E-06
CH25H	-1.29845195	8.70E-09
MEIS2	-1.29741327	9.57E-10
TMC4	-1.2961156	1.96E-08
HRASLS5	-1.29394191	0.00029082
GALNT5	-1.29389906	3.63E-07
CXCL2	-1.2930171	3.43E-07
CAPN13	-1.29242013	0.00135733
ZNF626	-1.29239671	9.86E-05
MAN1C1	-1.29233845	2.19E-07
FAIM2	-1.29139826	0.00017361
LTK	-1.29125205	3.14E-05
TRIL	-1.2912333	3.34E-07
PDZRN3	-1.29090634	5.23E-11
C1orf210	-1.28805854	5.46E-20
OTOP2	-1.28779525	2.04E-05
ZNF471	-1.28703209	3.33E-05
NDNF	-1.28565533	5.77E-06
PITX2	-1.28545454	3.39E-08
PLA2G4C	-1.28529989	2.20E-09
MYL6B	-1.28503004	9.90E-18
SPNS3	-1.2840709	3.78E-05
C3orf18	-1.28373785	2.41E-09
PAQR8	-1.28183798	1.84E-12
VWA7	-1.2817939	3.38E-07
PDE8B	-1.27982215	9.79E-07
MT-ND4L	-1.27932715	2.29E-14
FOS	-1.27664903	1.29E-09

TMEM200C	-1.27627773	0.00020983
TNS2	-1.27548079	2.47E-19
PRPH2	-1.27451094	3.78E-05
CES3	-1.27310528	9.74E-06
ZNF429	-1.27310119	3.50E-06
ADAMTS8	-1.27296932	0.00014665
CRY2	-1.27058249	1.36E-29
KLB	-1.26893687	0.00069099
UGT1A7	-1.26858583	0.00864667
PLIN2	-1.2682865	1.15E-11
EGR1	-1.26666578	9.47E-12
ECM1	-1.26583739	7.35E-09
ZBED3	-1.26583219	3.45E-08
MT-ATP8	-1.2655354	2.07E-12
SPAG8	-1.26464145	0.00039307
LNX1	-1.2634078	2.02E-14
SPRY1	-1.26139654	1.73E-20
ITPR1	-1.26101529	1.60E-11
KLF4	-1.26088132	3.54E-12
ACYP2	-1.2606507	1.91E-14
HNMT	-1.26046128	3.07E-13
ATP1A3	-1.25986283	2.47E-05
LXN	-1.25973868	2.83E-12
GLP1R	-1.25841074	0.00051891
PTPRT	-1.25838217	0.00063548
ERICH5	-1.25726839	0.00017558
PLEKHA7	-1.25680594	5.40E-15
DGCR6	-1.25660186	4.93E-09
ADCY5	-1.25632271	3.48E-05
NTF3	-1.2557599	2.35E-05
TC2N	-1.25568342	1.18E-14
MAMDC2	-1.25531579	4.67E-07
ADAMTSL3	-1.25523345	0.00014448
PALMD	-1.25500201	1.18E-19
LRRC43	-1.25379833	0.00033822
ZNF385D	-1.25338689	0.00022883
ARG1	-1.25198331	0.00830368
NPDC1	-1.25170227	3.22E-11
ETNK2	-1.25131664	1.90E-09
MAPK8IP1	-1.25013803	4.70E-11
ANG	-1.24742755	6.20E-13
ALDH3B1	-1.24651562	4.27E-09
MAMSTR	-1.24581182	9.86E-10
CLEC10A	-1.24580782	1.43E-08
LBP	-1.24534005	0.00160949
DUSP1	-1.24501569	6.08E-11
FAM63A	-1.2449568	2.79E-27

SERPINA12	-1.24319167	0.00203448
BCKDHB	-1.24291905	1.07E-16
CLEC4G	-1.24246111	9.24E-05
CISH	-1.24170739	2.81E-16
ACOT1	-1.24133815	1.27E-08
NME9	-1.24018767	0.00035444
ECSCR	-1.24007634	1.46E-08
KLF2	-1.23826706	3.35E-14
S100A9	-1.23681623	2.57E-06
CX3CL1	-1.23677247	4.04E-07
LCE1B	-1.23648952	0.00316287
DAGLA	-1.23642221	5.16E-07
S100A14	-1.235711	3.01E-10
HADH	-1.23541575	8.93E-31
KRTAP5-10	-1.23417118	0.00265411
SMPD3	-1.2339309	8.90E-06
SLC13A4	-1.2327304	2.55E-05
SIX2	-1.22838388	1.52E-06
TMEM8B	-1.2251	3.62E-12
PHYHD1	-1.22428529	5.39E-05
CD207	-1.22406566	7.53E-06
CCDC110	-1.22196745	0.00015064
RAB11FIP1	-1.22195091	3.52E-10
KIAA1456	-1.22173483	0.00024301
SYNC	-1.22107425	2.17E-08
SPRR1A	-1.21904108	0.00022729
ACSL1	-1.2188414	3.51E-18
C16orf45	-1.21853825	6.11E-12
AHSP	-1.21763224	0.00075244
LRIG1	-1.21747401	4.28E-13
MPP7	-1.2172345	3.47E-14
RNF208	-1.21712474	1.36E-10
RIIAD1	-1.21686822	8.81E-05
KRTAP5-4	-1.2140029	0.00183132
DBNDD1	-1.21362314	5.05E-10
GDF15	-1.21174639	0.00040793
SLC27A2	-1.21130459	1.87E-05
CYSLTR1	-1.20851497	2.19E-05
FAM171A1	-1.20772381	3.93E-08
TSPYL5	-1.20719273	7.79E-06
ADRA2A	-1.20614572	6.83E-06
GAS2	-1.20581232	0.00049969
SEZ6L	-1.20569929	0.00069099
TCP11L2	-1.20560193	2.60E-11
PECR	-1.20526371	6.02E-09
EYA1	-1.2037436	7.17E-05
PDE4C	-1.20348946	0.00050065

ZNF43	-1.20333001	4.73E-05
BLNK	-1.20003462	7.71E-12
PGPEP1	-1.19971059	1.21E-11
HYDIN	-1.19964177	0.00024895
RNASE4	-1.19793886	0.00020818
PCDH1	-1.19741129	1.60E-14
PRRT3	-1.19694898	3.68E-06
MT-ND2	-1.19686005	3.90E-15
ALDH2	-1.19564718	4.03E-16
STMN2	-1.19509752	0.00104658
BMP5	-1.19498506	0.00020983
STK39	-1.19492914	5.48E-27
EPHB6	-1.19440928	8.29E-08
ACSM1	-1.19422565	0.00168487
DIO2	-1.19267675	1.18E-07
SPHKAP	-1.19263789	9.20E-05
ASPG	-1.19197277	7.48E-06
SLC26A2	-1.19059505	8.73E-14
RGMA	-1.19031319	1.76E-08
EIF4E3	-1.18993703	6.69E-13
TMPRSS3	-1.18822859	0.00018805
PDCD4	-1.18814388	1.67E-22
CFAP100	-1.18711294	0.00103273
SORT1	-1.18547691	2.92E-16
GRHL3	-1.18536403	8.51E-08
TECRL	-1.18527723	0.00030216
TPPP	-1.18408458	8.48E-09
SLITRK5	-1.18365575	0.00022643
KLF9	-1.18219767	2.93E-14
S1PR1	-1.18114292	1.88E-12
CD24	-1.18070025	2.68E-08
SLC9A2	-1.17997445	0.00032774
LRRK2	-1.17774061	8.36E-06
TRIM2	-1.1776889	4.70E-09
APOC3	-1.17726072	0.02166289
ZNF835	-1.17722241	0.00102372
KRTAP9-2	-1.17677301	2.75E-05
CYP2E1	-1.17654987	0.00016057
RXRG	-1.17608	0.00050103
ACADS	-1.17470645	2.06E-18
RASL10B	-1.17426589	7.70E-05
SLC51B	-1.17312261	0.00068519
N4BP3	-1.17248678	7.95E-16
SYT8	-1.1724106	0.00042463
FAM196B	-1.17229366	0.00452527
SFRP5	-1.17139873	0.00114836
SLC22A31	-1.17079623	0.00176201

VAT1L	-1.17007427	0.00150065
TMEM232	-1.16873988	0.00151153
LYPD2	-1.16709873	0.00287623
CIPC	-1.16697661	6.65E-28
PHKA1	-1.16620034	1.21E-15
EVPL	-1.16511068	6.25E-10
ANGPT1	-1.16393801	5.34E-05
C15orf48	-1.16379502	1.28E-07
MT-ATP6	-1.16366191	3.04E-15
ALDH1A2	-1.1636495	0.00117577
CHCHD10	-1.16328093	6.49E-10
EVA1C	-1.16325136	2.95E-11
ALPK2	-1.16204198	1.32E-05
SLC37A1	-1.16143858	3.30E-13
SLC16A4	-1.16103338	2.97E-05
HMCN2	-1.15994153	0.00038955
SPRR2E	-1.15892026	0.00150982
PPP1R36	-1.1585393	0.00143282
PRKCQ	-1.15700669	3.25E-08
RNF125	-1.15617729	1.80E-05
PRR15	-1.15586086	5.81E-05
C1orf168	-1.15513196	0.00028161
CYP7B1	-1.15475494	1.15E-09
FAAH2	-1.1547283	1.59E-11
NCOA7	-1.15417743	1.50E-16
OGFRL1	-1.15401911	2.25E-20
TMPRSS5	-1.1537463	0.00075969
ZNF331	-1.15233535	4.22E-09
SMIM6	-1.15195	0.00177627
TMEM170B	-1.1519189	0.00013976
PCCA	-1.1516545	3.46E-13
RHBG	-1.15090161	0.00033645
LMO1	-1.1499472	5.06E-05
SVEP1	-1.14942142	2.89E-07
SESN1	-1.14868031	4.30E-20
IQCD	-1.14855463	8.63E-05
KLK11	-1.14812842	2.35E-06
LRRC38	-1.14717798	0.00056683
SETMAR	-1.14624511	7.41E-14
ALDH3A1	-1.14578628	0.00163585
LMO7	-1.14575757	1.45E-10
CTNND2	-1.14537314	0.0034529
CCDC113	-1.14488747	2.30E-06
FAM179A	-1.14462264	0.00106472
CD302	-1.14458905	7.20E-06
CLTCL1	-1.14326846	7.43E-09
SMOC2	-1.14213122	8.00E-07

B3GALT5	-1.1416363	0.00195764
CD1E	-1.14019191	1.12E-06
KCNK15	-1.1401597	0.00033828
EPS8L3	-1.14006636	0.00221123
PNMT	-1.13998365	0.00079449
SUSD4	-1.13960807	5.00E-06
PARM1	-1.13898953	9.86E-05
SAMD13	-1.13770069	0.00074802
RMND5B	-1.13652819	3.79E-24
LYG2	-1.13515383	0.00396777
3-Mar	-1.13319013	1.95E-06
KRTAP10-6	-1.13250784	0.00011916
ELOVL4	-1.13210312	6.59E-06
MUM1L1	-1.1319804	8.94E-05
DDAH2	-1.13184169	7.27E-21
SLC16A9	-1.13083413	1.84E-06
P2RX6	-1.13047349	0.00022063
ABHD5	-1.13026077	4.63E-21
ABO	-1.13003722	0.00011974
EDA2R	-1.12770968	0.00012711
NXPH3	-1.12724839	0.00033645
TLR5	-1.12589397	3.47E-11
CPXM2	-1.12429652	7.57E-08
PINK1	-1.12366001	8.13E-19
ATL1	-1.12321942	1.30E-07
USP54	-1.12304053	9.14E-16
NFIA	-1.12303953	1.60E-18
C15orf52	-1.12273242	4.69E-10
JADE1	-1.12248554	4.68E-11
ADRA1A	-1.12215279	0.00099082
SMDT1	-1.12092985	3.58E-22
ASAP3	-1.12088595	1.33E-17
ANKRD53	-1.12082878	0.00045528
ABCC9	-1.12051377	6.82E-06
ZDHHC2	-1.12043194	5.39E-07
PIK3AP1	-1.11960389	9.31E-07
SLC25A20	-1.11736952	2.04E-23
ATP10B	-1.11643901	1.13E-05
BAMBI	-1.11632247	3.94E-06
LHFPL1	-1.11570335	0.00212778
IL13	-1.11458418	0.00312373
ANKRD6	-1.11426215	2.57E-06
SERPINB1	-1.11418144	6.26E-09
CACNA2D3	-1.11386049	3.94E-07
KIAA2012	-1.11367486	0.00022476
OTOP3	-1.11275471	0.0038403
C15orf59	-1.1126002	2.95E-05

CGREF1	-1.11245249	3.23E-05
MT1X	-1.11223689	1.55E-09
NTN4	-1.1115693	5.63E-12
IDH2	-1.11123663	4.33E-19
ZCWPW2	-1.11057788	0.00150065
BMX	-1.10934395	0.00013608
F8	-1.10910509	5.67E-06
SMIM1	-1.10698223	2.12E-05
KCNT1	-1.10549961	0.00109792
MCF2L	-1.10487473	7.20E-06
ADORA1	-1.10471016	5.85E-05
IRX6	-1.10369235	0.0052918
PER2	-1.10306771	1.53E-14
ARHGAP6	-1.10220857	0.00064845
ACSM5	-1.10187814	0.00165362
GSTA1	-1.10120904	0.04772378
OSCP1	-1.10102915	5.33E-09
TSPAN6	-1.1003961	6.53E-19
PLAC8	-1.10020933	0.00183189
CLDN7	-1.09978426	7.20E-07
ZNF135	-1.09968485	0.00135463
TMEM178B	-1.09921396	0.00274693
TPPP2	-1.09864095	0.00014431
SCRG1	-1.0973966	0.0034529
CXXC4	-1.09716873	0.0026614
ZNF185	-1.09574765	3.50E-08
JAM2	-1.09517934	2.77E-08
CPED1	-1.09481703	9.76E-06
GUCY2C	-1.0944244	3.57E-05
ARX	-1.09442187	0.00132055
CADM3	-1.09376105	1.79E-05
KLK3	-1.09266101	0.00577248
STX19	-1.09144565	7.96E-08
PLCL2	-1.09113547	1.14E-07
ZNF737	-1.09083216	0.00061229
LRRC23	-1.09006341	8.22E-09
CCL19	-1.08921301	0.00096513
MICU3	-1.08910195	0.00135463
C16orf71	-1.08793679	0.00379891
LGALS1	-1.08788117	5.24E-07
SPINK14	-1.08756124	0.00099082
PDK2	-1.08734018	2.88E-15
SIAE	-1.08669015	5.90E-14
DYDC1	-1.08573623	0.00054387
CROCC2	-1.08536734	0.00196654
ABHD1	-1.08494539	0.00147404
SMIM10	-1.0843763	1.06E-06

IL5RA	-1.08385442	0.0049494
S100B	-1.0836309	1.43E-07
DOPEY2	-1.08312525	8.68E-18
CPEB4	-1.08266823	1.02E-12
LRFN2	-1.08222184	0.00147404
AQP3	-1.08076661	3.80E-05
MT-CO3	-1.0801015	1.04E-14
SPAG16	-1.07981574	2.22E-07
EYA4	-1.07945162	0.00030106
B3GNT7	-1.07801882	1.32E-06
NFIC	-1.07709084	2.42E-21
APOA1	-1.07680497	0.00905969
DIRAS3	-1.07485296	5.49E-05
TREH	-1.07468563	0.00228374
RAP1GAP	-1.07430362	5.68E-08
MAPKAPK3	-1.0736383	2.97E-22
A2M	-1.07321146	3.56E-09
IL11RA	-1.07191266	2.19E-09
C2orf50	-1.07181218	0.0034529
RNF123	-1.07173032	3.17E-16
EFCAB12	-1.07170299	0.00160742
GATS	-1.07064399	1.59E-07
UBE2QL1	-1.07036926	1.34E-05
CUTC	-1.07007691	3.08E-19
NEK5	-1.06934073	0.0074468
ARHGEF26	-1.0680855	8.87E-05
LY6G6C	-1.0679597	0.00177739
CRYL1	-1.06791412	2.28E-17
FAM46B	-1.06756362	5.52E-06
SUCLG2	-1.06728174	5.25E-37
OLAH	-1.06700287	0.0059822
PCDHB4	-1.06696892	0.00045654
PLEKHG7	-1.06630374	0.00429256
LMO3	-1.06571968	0.00370359
SLC46A3	-1.06536716	1.15E-08
PCOLCE2	-1.06361482	0.00059621
CCDC89	-1.06228443	0.0034579
CCNG1	-1.06224688	4.77E-22
PLS1	-1.0616588	5.21E-08
SMAGP	-1.06162378	3.07E-16
ASB8	-1.06112388	3.14E-24
CCDC85A	-1.06088551	0.00429256
PDE1A	-1.06063659	0.0009085
MT-ND4	-1.06047998	6.69E-13
GLUL	-1.058759	7.74E-11
PLCH1	-1.05874134	0.00170193
SLC47A1	-1.05855926	2.67E-05

SHMT1	-1.05849079	2.64E-18
COL14A1	-1.05847128	8.42E-06
TFF2	-1.05813708	0.01447155
ZNF704	-1.05786105	1.52E-06
ZNF880	-1.05760208	7.04E-06
CYSTM1	-1.05607329	5.31E-13
LRRN1	-1.05596514	0.00092769
PLEKHG6	-1.0558679	1.56E-06
C1orf64	-1.05565938	0.00990163
REEP6	-1.05498513	1.59E-08
PRADC1	-1.05477928	1.13E-17
ECHDC2	-1.05455699	1.03E-10
ALOX15B	-1.05363704	0.0017464
SECISBP2L	-1.05297832	4.62E-17
TNFAIP8L3	-1.05164775	7.29E-10
SLC2A10	-1.05098982	4.58E-07
LRRC4C	-1.05068911	0.00570474
MLYCD	-1.04915762	2.10E-05
SH3BP5	-1.04862847	4.32E-07
ITGA9	-1.04770396	1.01E-06
MTFR1L	-1.04749158	3.62E-22
RBBP8NL	-1.0468558	1.41E-07
SPRY2	-1.04676418	4.16E-11
ENKUR	-1.04661207	0.00221811
C11orf96	-1.04654254	1.17E-05
CLDN5	-1.04596223	1.13E-06
PTPN20	-1.04580131	0.00061229
RPH3AL	-1.04491478	3.38E-06
SLC19A2	-1.04426448	7.08E-14
ZFP2	-1.04413233	0.00437101
FBLN5	-1.04400359	3.76E-08
STXBP6	-1.04383171	0.00058301
FAM46C	-1.04376099	3.97E-05
UGP2	-1.04328473	8.80E-26
PLA1A	-1.04293257	1.98E-05
KALRN	-1.0414521	4.06E-05
SLC25A12	-1.0402696	6.88E-23
WFIKKN2	-1.04013761	0.00309391
NDUFS1	-1.03995726	1.19E-24
EPB41L3	-1.03886355	6.96E-09
SSPN	-1.03866801	3.34E-08
PHYHIP	-1.03823076	0.00093715
SGSM1	-1.0380596	0.00726821
TMEM217	-1.03796815	0.00023837
ACO2	-1.03738909	3.68E-24
ISOC1	-1.03728306	7.81E-23
SYTL5	-1.03661242	0.00110206

FAM183A	-1.03580244	7.40E-06
CTB-102L5.4	-1.035309	0.00031698
ADRB1	-1.03501273	0.00123808
GYG2	-1.03481494	0.00011221
KIF1C	-1.03461555	1.47E-18
TUB	-1.03458672	5.14E-06
SLC16A14	-1.03411283	2.11E-06
SLC39A8	-1.03404666	9.93E-09
SLC27A1	-1.03394395	5.36E-11
SSBP2	-1.03384324	1.08E-07
RORA	-1.03372308	2.61E-08
CTB-55O6.8	-1.03294529	5.51E-07
HAAO	-1.03285856	4.01E-07
VIPR2	-1.03277983	0.00266811
DOK7	-1.03203493	9.24E-05
CATSPERD	-1.03057075	0.00190279
ZNF750	-1.02984236	5.08E-07
GIPC2	-1.02962742	0.00036678
ITIH5	-1.02931055	1.93E-05
AGTR1	-1.02866962	0.00326221
PLCXD3	-1.0263305	0.00099082
BBOF1	-1.0250654	3.85E-05
SBK1	-1.02498363	0.00033595
TRAK1	-1.02463887	3.42E-23
HADHB	-1.02452167	3.86E-30
GCOM1	-1.02441762	0.00436745
ABLIM1	-1.02438948	4.96E-11
ANKRD37	-1.02405873	2.10E-07
CCL17	-1.02318561	2.18E-05
APOLD1	-1.02302102	5.51E-10
SBSPON	-1.02284944	0.0010505
GRAMD3	-1.0227852	4.96E-12
ACAD8	-1.0221343	1.25E-10
ADGRB3	-1.0214675	0.00686131
EFCAB6	-1.02132035	0.00577099
SPRR2G	-1.02121261	0.0125549
TMEM40	-1.02113551	5.50E-07
CLMN	-1.02084885	3.16E-05
SLC5A1	-1.02021887	0.00063749
PMP2	-1.01941226	0.00405426
CABLES1	-1.01940136	1.23E-06
CCDC151	-1.01880342	0.00785604
EFCAB1	-1.01871422	0.00322111
HOGA1	-1.01865287	0.00125333
GPRASP2	-1.01863757	1.78E-08
PPP1R32	-1.01863739	0.00105332
TMPRSS11F	-1.01685589	0.00016615

RGS16	-1.01662106	3.41E-06
C1QTNF9	-1.0153652	0.0034529
IL26	-1.0138387	0.01114591
FTCDNL1	-1.01323102	8.56E-05
EFNA5	-1.01313521	3.98E-12
SNAI3	-1.01242843	2.56E-05
UBE2D4	-1.01239272	8.48E-13
CA14	-1.0121841	0.00146404
TMEM71	-1.01204078	0.00043199
RNF222	-1.01189984	0.00057603
MEDAG	-1.01169031	2.56E-05
RGS11	-1.01015755	0.00146404
ACTA2	-1.00970369	1.46E-06
RELN	-1.00964651	0.00277707
POU2F3	-1.00960286	0.00012301
PIH1D2	-1.00944401	0.00090303
CACNA2D2	-1.00876844	0.00236902
FES	-1.00845708	2.94E-09
SHISA9	-1.00842781	0.00099082
SPATA4	-1.00839363	0.00183733
LCA5	-1.00817554	9.13E-05
RASL12	-1.00795193	9.26E-08
GPRC5C	-1.0078318	3.22E-08
TACC2	-1.00773608	2.73E-16
LVRN	-1.00758008	0.00722344
VWCE	-1.00757513	0.00471942
GATA3	-1.00685444	1.63E-05
PHGDH	-1.00559826	2.33E-06
FOXO4	-1.00535056	1.84E-17
SLC2A5	-1.00508476	2.50E-05
ABCD2	-1.00449056	0.0040546
KCNRG	-1.00412378	0.00620824
BEND5	-1.00398252	0.00051716
ELN	-1.00377863	0.00028412
GPR162	-1.00370111	0.00115569
RNF223	-1.0036346	8.71E-06
CYB5A	-1.00311405	3.47E-09
TSGA10	-1.00245452	0.00182166
CYTL1	-1.00209993	2.43E-05
TPT1	-1.00150615	6.22E-20

uniCoxKM

Gene	HR	z	Pr(> z)	Gene	HR	z	Pr(> z)
CLDN8	1.047281	2.397029	0.016529	COX6A2	1.001143	0.66476	0.506204
PLAU	1.001842	2.256498	0.024039	FST	1.001086	0.660395	0.509001
CDKN2A	0.986783	-2.01753	0.04364	APOBEC3B	0.995491	-0.6582	0.510409
GPD1L	1.038865	1.850151	0.064292	FXYD1	1.032662	0.641313	0.521319
DMBT1	0.959193	-1.84535	0.064986	ACADSB	1.038946	0.640896	0.52159
ABL2	1.070589	1.75148	0.079863	TFF3	0.996074	-0.63665	0.524352
DKK1	1.006665	1.718727	0.085664	MAGEA12	1.006599	0.633447	0.526442
GAS7	0.93733	-1.70906	0.08744	IFI6	0.999907	-0.61625	0.53773
KIF23	1.043155	1.659753	0.096964	CRISP2	0.771022	-0.60367	0.546063
UBE2C	1.005047	1.654164	0.098094	OASL	0.997663	-0.59729	0.550314
RSAD2	0.99141	-1.60848	0.10773	TF	0.979162	-0.59603	0.551153
TK1	1.003235	1.604113	0.108689	CA3	1.006206	0.595839	0.551283
CXCL13	0.993302	-1.55363	0.120273	TNNC1	1.000412	0.587372	0.556954
AZGP1	0.984635	-1.54441	0.122488	ENO3	1.001933	0.585905	0.557939
PPP1R3C	1.012814	1.536197	0.12449	PYGM	1.002243	0.583883	0.559299
KIF14	1.083652	1.505951	0.13208	ISG15	0.999913	-0.58012	0.561836
FMO2	0.974259	-1.4942	0.135122	COL4A1	0.998871	-0.56529	0.571879
CLDN10	0.941266	-1.4668	0.142432	CSRP3	1.000467	0.553077	0.580211
NEFL	0.991902	-1.46015	0.144248	MFAP4	0.996564	-0.55115	0.581531
HOMER3	0.988748	-1.44423	0.148674	ACTA1	1.000054	0.550016	0.582308
PLP1	1.208812	1.444154	0.148696	MYH6	1.014986	0.547467	0.584058
TRIP13	1.016043	1.417554	0.156321	MMP1	0.99992	-0.53936	0.589638
ADH1B	1.181706	1.395684	0.16281	PKIA	1.006749	0.532804	0.59417
PEG3	0.775589	-1.38685	0.165489	FSTL3	0.997944	-0.52462	0.599845
CFD	1.008284	1.359777	0.1739	GNLY	0.996181	-0.50443	0.613963
CRISP3	0.985181	-1.35908	0.174121	TJP3	0.984531	-0.49398	0.621318
ADAM12	0.984897	-1.35479	0.175486	TTN	1.005121	0.485908	0.627033
WIF1	1.021973	1.335054	0.181859	LAMC2	1.000157	0.482505	0.629448
LTBP1	0.994888	-1.32844	0.184032	CXCL11	1.000572	0.478781	0.632095
ATP1A2	1.011104	1.319351	0.187052	PLA2G7	0.990356	-0.47043	0.63805
EEF1A2	1.001468	1.312435	0.189373	HLA-F	1.001462	0.45314	0.650448
MYH2	1.000522	1.269945	0.204104	PXDN	0.996799	-0.44821	0.654001
MYBPC1	1.001702	1.266737	0.205249	HSD17B6	1.041084	0.435923	0.662892
PROM1	0.907146	-1.25252	0.210379	CHRDL1	1.016671	0.433982	0.664302
CYP3A5	1.208253	1.243827	0.213563	VEGFC	1.002886	0.433268	0.66482
AMPD1	1.021823	1.234901	0.216867	PDPN	0.998803	-0.42555	0.670434
ITGA5	1.004261	1.233659	0.21733	MYRIP	0.687632	-0.42377	0.671736
RNASE4	0.503472	-1.23227	0.217849	ABCA8	0.937236	-0.41934	0.674971
PLA2G2A	0.995782	-1.21203	0.225501	COL4A2	0.999166	-0.41783	0.676071
STATH	0.982101	-1.18543	0.235847	HSPB2	1.014984	0.416549	0.677008
FOXM1	1.0085	1.172978	0.240805	EPHX2	0.989001	-0.41404	0.678843
CKMT2	1.009456	1.167709	0.242924	MEOX2	0.956438	-0.40918	0.682409
LTF	0.998655	-1.16407	0.244396	CILP	0.985815	-0.40043	0.688839
CKM	1.000209	1.147205	0.251297	MMP3	0.9997	-0.39698	0.691383
ALOX12	0.986002	-1.12764	0.259471	DPT	0.996459	-0.38814	0.69791

MMP9	0.99921	-1.12312	0.261386	EYA2	1.004247	0.383245	0.701538
TMPRSS2	0.96319	-1.10436	0.269438	TFF1	1.002939	0.381086	0.70314
PPARG	1.079683	1.103486	0.269816	CRYAB	1.000477	0.380139	0.703842
TPX2	1.004306	1.088685	0.276293	TLE2	0.985808	-0.37349	0.708786
ATP2A1	1.002604	1.08544	0.277727	SELENBP1	0.992549	-0.36951	0.711749
TNNI2	1.000538	1.075254	0.282261	TNNC2	1.000294	0.354346	0.72308
THY1	0.994311	-1.06228	0.28811	SLC7A8	0.999288	-0.333	0.739135
MMP12	0.998091	-1.02223	0.306672	ARPC1B	1.000812	0.328847	0.742272
SPP1	0.999654	-1.02033	0.307572	TCAP	1.000264	0.303434	0.761559
MMP10	0.999573	-1.00261	0.316049	SCG5	1.008664	0.284608	0.775944
MYOM1	1.011185	0.990349	0.322004	MYL2	1.000162	0.28358	0.776733
ITGB4	1.000913	0.986858	0.323712	HBB	0.99904	-0.2756	0.782856
SERPINH1	1.001672	0.98534	0.324457	SLITRK5	0.755929	-0.27298	0.784867
IGFBP3	1.000684	0.976726	0.328705	PTHLH	1.000299	0.268547	0.788278
LAMB3	1.000407	0.974202	0.329956	PRELP	0.996343	-0.26538	0.790717
HLF	0.954474	-0.95973	0.337191	NR3C2	1.044184	0.263838	0.791905
PIP	0.992295	-0.95534	0.339406	ANG	0.986138	-0.24867	0.803612
MMP13	0.999508	-0.95056	0.341827	CDH3	0.999656	-0.23918	0.810963
COBL	1.075785	0.933834	0.35039	MMP11	1.000375	0.227959	0.819678
PLN	1.018024	0.933073	0.350782	RBP1	0.99945	-0.22054	0.82545
TMOD1	1.013042	0.881463	0.378067	AIM2	1.001563	0.210577	0.833217
SLN	1.000724	0.879163	0.379313	CXCL10	0.999938	-0.20659	0.836331
GULP1	1.117663	0.875237	0.381445	FUT6	1.00538	0.18951	0.849693
KIF2C	1.009992	0.845653	0.397746	MAL	0.99988	-0.17058	0.864554
CYP27B1	1.016674	0.845332	0.397926	FAP	1.002902	0.153567	0.877951
CXCL9	0.999173	-0.83895	0.401497	COL11A1	0.999286	-0.14401	0.885493
IFIT3	0.998721	-0.83468	0.403899	BNC1	1.000745	0.142184	0.886935
ALDH1A1	1.001329	0.827215	0.408115	TLR5	0.99198	-0.1385	0.889841
ACOX2	0.752132	-0.8206	0.411877	SERPINE1	1.000059	0.130473	0.896193
ACP5	0.997193	-0.80794	0.419126	ADIPOQ	1.014448	0.125152	0.900403
MB	1.000375	0.8011	0.423074	TGFBR3	1.007928	0.124989	0.900532
NEB	1.003027	0.7968	0.425567	NELL2	1.000591	0.118213	0.905899
LGALS3BP	1.000563	0.7758	0.437867	BST2	1.00004	0.117479	0.906481
MYL1	1.000368	0.774727	0.438501	MYH7	0.999885	-0.09656	0.923077
COL4A6	1.010808	0.759039	0.447829	COL7A1	1.000221	0.089536	0.928656
RGS20	0.978965	-0.75831	0.448265	PBX1	0.996048	-0.08156	0.934999
SYNGR1	0.965545	-0.75637	0.44943	MYLPF	0.999873	-0.07634	0.939151
PSMB9	1.002037	0.720482	0.471228	FN1	1.000021	0.071862	0.942712
LIFR	0.956552	-0.70373	0.481599	SCNN1B	1.000834	0.047313	0.962264
COX7A1	1.003706	0.701878	0.482755	PTK7	0.999738	-0.0423	0.966256
ACTN2	1.000984	0.699066	0.484511	KRT4	0.999997	-0.02535	0.979779
APOD	1.002899	0.689299	0.490635	RRAGD	1.000609	0.022121	0.982351
PCDH7	0.991738	-0.67673	0.498579	PPP1R1A	0.999672	-0.01362	0.989135
TSPAN8	0.944661	-0.66499	0.506057	MYOC	1.00014	0.000832	0.999336