

Additional file 6: Table S4. Differential expression of RNAs control versus *M.tb* infected AMs in all 28 donor AMs at 2h, 24h and 72h (Suppl. Tables S4A, B, and C), using separate non-infected control AMs for each time point. baseMean: log2 RPMs in control cells at each time point; log2FoldChange: RPM ratios of infected/control. lfcSE: log fold-change standard error, stat: test statistic from DESeq2; pvalue: unadjusted p values. padj: FDR-adjusted p value.

Gene	S4A: 2h					
	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
CSF2	78.61617599	3.377558739	0.308459944	10.94974827	6.66E-28	1.30E-23
IL1B	4561.340615	1.281010646	0.153130296	8.365494475	5.99E-17	3.91E-13
IL6	1754.819037	1.766649188	0.210162717	8.406101778	4.24E-17	3.91E-13
NFKB1Z	10891.28273	0.865357358	0.10727297	8.066872382	7.21E-16	3.53E-12
CCL3L3	554.2828804	1.21567708	0.153330598	7.928470208	2.22E-15	7.49E-12
IER3	6173.41637	0.796628111	0.100531	7.9242036	2.30E-15	7.49E-12
NFKBIA	13099.77254	0.64427635	0.081623541	7.89326638	2.94E-15	8.24E-12
CCL4	2174.05987	1.000850512	0.127588905	7.844338146	4.35E-15	1.07E-11
PDE4B	435.3264346	0.492166183	0.063434937	7.758598131	8.59E-15	1.87E-11
SERPINB2	1158.791876	1.094106826	0.148989668	7.34350804	2.08E-13	4.07E-10
CCL20	5657.404964	1.37738543	0.189266971	7.277473829	3.40E-13	6.06E-10
CXCL1	293.5867136	1.690508385	0.23375014	7.232117107	4.76E-13	7.76E-10
IL10	22.55436007	1.577335561	0.219243116	7.194458767	6.27E-13	9.45E-10
TNFAIP8	571.8161196	0.615477644	0.086047654	7.152753359	8.51E-13	1.19E-09
F3	194.8818206	1.014514315	0.142365133	7.126143135	1.03E-12	1.35E-09
OR2B11	34.6220274	2.1849835	0.322617045	6.772684613	1.26E-11	1.55E-08
OR5B21	220.0761845	0.676761855	0.1083418	6.246544315	4.20E-10	4.83E-07
SOD2	20257.21645	0.345262748	0.056938651	6.063767619	1.33E-09	1.45E-06
CXCL3	10829.49481	0.658200014	0.110076971	5.979452474	2.24E-09	2.31E-06
TM4SF19	300.8473395	-0.383283467	0.064325892	-5.95846332	2.55E-09	2.49E-06
NLRP3	99.18160534	1.20980837	0.212117121	5.700060255	1.20E-08	1.07E-05
TNFAIP6	2211.433212	0.735287611	0.128969	5.70127406	1.19E-08	1.07E-05
IFNG	45.53170261	2.104536181	0.370249148	5.684108101	1.31E-08	1.12E-05
CXCL2	6680.827698	1.038297782	0.184862224	5.616603316	1.95E-08	1.59E-05
CCL3	3259.076378	0.781638751	0.141903382	5.508246115	3.62E-08	2.84E-05
REG	1782.578432	1.039826355	0.19095602	5.445370893	5.17E-08	3.89E-05
LINC00346	34.59202536	1.39651881	0.2617739	5.334828299	9.56E-08	6.94E-05
GOS2	348.7209299	0.507174313	0.096322613	5.265371201	1.40E-07	9.78E-05
KANK1	61.27531895	0.782343146	0.148876721	5.254972971	1.48E-07	1.00E-04
PTX3	177.8767351	1.079788713	0.209980067	5.142339121	2.71E-07	0.000177121
SPRY2	54.02424806	-0.693740819	0.135486925	-5.12035254	3.05E-07	0.000192649
NBN	669.883533	0.275081652	0.054010898	5.093076836	3.52E-07	0.000215596
AGPAT9	293.6508332	-0.416272788	0.081858303	-5.08528486	3.67E-07	0.000217831
ARL4C	40.35486559	-0.702707291	0.140786154	-4.99130966	6.00E-07	0.000335548
NINJ1	744.8114449	0.48311793	0.096723777	4.99482076	5.89E-07	0.000335548
ZFX	932.3222701	0.345148756	0.069228779	4.985625361	6.18E-07	0.000335967
LYPD3	51.41533624	0.814078085	0.166209296	4.897909475	9.69E-07	0.00051266
ADORA2A	15.29732884	1.414681982	0.29324733	4.82419391	1.41E-06	0.00072442
CCL15	18.06098791	1.671640377	0.349566206	4.782042289	1.74E-06	0.000871309
NFKB2	1024.184741	0.361816224	0.075780392	4.774536178	1.80E-06	0.000881832
AMPD3	77.79196104	0.6586112	0.139929028	4.706751752	2.52E-06	0.001202182
GPR84	127.1423227	0.862070236	0.186342449	4.62626868	3.72E-06	0.00173595
JUN	177.3666207	0.633162995	0.139386356	4.542503399	5.56E-06	0.002531677
CXCL5	3228.808804	0.509871764	0.113426279	4.495181978	6.95E-06	0.00309369
TNIP3	141.7185127	0.626646907	0.141886976	4.416521693	1.00E-05	0.004364913
LIF	134.431019	0.740554649	0.168128479	4.404694874	1.06E-05	0.004509747
BIRC3	214.6478081	0.418423922	0.095474825	4.382557613	1.17E-05	0.004785356
ZNF267	2984.265591	0.193882486	0.044224976	4.384004312	1.17E-05	0.004785356
RASGRP3	41.90781682	0.80968604	0.186573927	4.339759862	1.43E-05	0.005700591
KBTD7	379.9258208	0.450743159	0.106120603	4.24746133	2.16E-05	0.008467943
DOLK	383.7466123	0.361777903	0.086605426	4.177312191	2.95E-05	0.011326425
CCL22	352.2815844	0.451345075	0.109202588	4.133098712	3.58E-05	0.013478562
LINC00515	723.6119851	0.495586769	0.120731247	4.104875756	4.05E-05	0.014947085
CCR7	115.8091965	0.592005762	0.14853992	3.985499406	6.73E-05	0.024420126
TNF	11775.1251	0.300547417	0.076012312	3.953930732	7.69E-05	0.027372645
IL1A	2331.071554	0.495326282	0.125422711	3.949255103	7.84E-05	0.027414371
PTGS2	5050.844177	0.309261181	0.078746274	3.927311934	8.59E-05	0.029512111
NARF	355.9792843	-0.215836774	0.056236717	-3.8380045	0.000124038	0.041880005
TNFAIP3	1883.219639	0.727427951	0.19023876	3.823763102	0.00013143	0.043623689
MARCKS	107.9410563	0.699532428	0.183303321	3.816256163	0.000135492	0.044222779
SLC2A6	312.7695863	0.297786305	0.078309852	3.802667166	0.000143147	0.045954756
PLCXD1	137.7320976	-0.354190488	0.093421477	-3.79131758	0.00014985	0.047330908

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S4B: 24h						
Gene	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
INHBA	4383.210884	2.305522311	0.140710317	16.38488465	2.45E-60	4.72E-56
CCL3	5420.860212	1.549634818	0.098486329	15.73451705	8.77E-56	8.45E-52
DCUN1D3	444.2160304	1.889492315	0.124646074	15.15885942	6.62E-52	4.25E-48
SERPINB7	41.94863524	6.893715809	0.472819075	14.58002898	3.76E-48	1.81E-44
IL1B	15588.33476	2.288415746	0.157562824	14.52383048	8.56E-48	3.30E-44
SERPINB2	10295.23192	3.146243555	0.217442547	14.46930968	1.89E-47	6.08E-44
SCARF1	264.1116703	1.453547521	0.101956717	14.25651553	4.08E-46	1.12E-42
CXCL3	1451.493281	1.622249558	0.117504581	13.80584093	2.35E-43	5.66E-40
PPBP	616.6665382	2.87816522	0.214310493	13.42988476	4.04E-41	8.65E-38
CISH	549.5478519	2.078644205	0.156076173	13.31813921	1.82E-40	3.50E-37
CCL20	5070.755564	2.064866118	0.160444555	12.86965534	6.67E-38	1.17E-34
EMP1	1796.72616	1.143433374	0.089992707	12.70584488	5.49E-37	8.81E-34
ETS2	2133.574722	1.532595271	0.121474627	12.61658762	1.71E-36	2.54E-33
SPRED1	967.6293434	1.521603749	0.121749361	12.49783768	7.67E-36	1.06E-32
CCL3L3	260.3487733	2.138993191	0.172295668	12.41466615	2.18E-35	2.79E-32
DPP4	137.3578149	2.985202916	0.241450083	12.36364418	4.11E-35	4.95E-32
TLR2	1209.477317	1.517797548	0.12364074	12.27586912	1.22E-34	1.38E-31
CXCL1	568.4383038	2.876177896	0.23562222	12.20673456	2.86E-34	3.06E-31
IL6	96.03517463	3.734194443	0.306670189	12.17658115	4.14E-34	4.20E-31
TMEM173	154.1522994	1.555625732	0.128810792	12.07682763	1.40E-33	1.35E-30
MPEG1	291.6887392	-1.242023373	0.10340441	-12.01131923	3.10E-33	2.84E-30
MS4A4A	2213.279997	-0.807965147	0.068364581	-11.81847587	3.13E-32	2.74E-29
TFPI2	366.847363	1.767377375	0.150077879	11.7764016	5.17E-32	4.33E-29
CD274	1512.259315	1.039206836	0.088285311	11.77100497	5.51E-32	4.42E-29
IL3RA	402.4177024	1.858620529	0.15798544	11.76450517	5.95E-32	4.58E-29
IDO1	1335.405852	3.862043365	0.331016914	11.66720855	1.87E-31	1.39E-28
IL2RA	76.77759614	3.34058494	0.286580762	11.65669642	2.12E-31	1.51E-28
TNFAIP6	9552.540813	1.429510538	0.125118617	11.42524252	3.13E-30	2.15E-27
SERPINE1	2570.914449	1.294873066	0.113584942	11.40004159	4.18E-30	2.78E-27
IL7R	5906.277628	1.403965146	0.123248522	11.39133457	4.62E-30	2.97E-27
CCL4	9491.79488	1.25884123	0.111040491	11.33677646	8.63E-30	5.36E-27
CXCL5	28416.86762	1.573049155	0.139418183	11.28295551	1.59E-29	9.59E-27
CSF1	18649.64658	1.255211145	0.111990398	11.20820326	3.72E-29	2.17E-26
CKB	222.5548241	1.65846753	0.148858566	11.14123004	7.90E-29	4.48E-26
TNF	695.6472635	1.422489838	0.127754976	11.13451612	8.52E-29	4.69E-26
ECSCR	41.34211868	2.43428834	0.22367212	10.88328909	1.38E-27	7.41E-25
FAM198B	246.2650758	-1.44300179	0.132995059	-10.85004063	1.99E-27	1.04E-24
NUPR1	3950.990398	-1.410508719	0.131100354	-10.75900008	5.38E-27	2.73E-24
HSD11B1	456.9548496	1.674841493	0.156441209	10.70588436	9.55E-27	4.72E-24
EEPD1	149.8600465	-1.209777846	0.113110718	-10.69551915	1.07E-26	5.14E-24
PTGS2	882.4982746	1.714135245	0.16040048	10.68659674	1.18E-26	5.53E-24
CSF2	40.2425273	4.801327111	0.449657032	10.67775386	1.29E-26	5.93E-24

ADORA2A	51.04020773	2.303186601	0.215980508	10.66386323	1.50E-26	6.73E-24
SCD	4969.07607	-0.650348234	0.061831633	-10.51805047	7.13E-26	3.12E-23
FAM124A	62.08833886	2.300946865	0.219471631	10.48402863	1.02E-25	4.38E-23
APOL4	179.3351866	1.971371481	0.189908651	10.38063021	3.04E-25	1.27E-22
ABI3BP	23.50386505	4.468801653	0.430883614	10.37124994	3.35E-25	1.37E-22
KLHDC8B	296.6513651	-1.05775744	0.102589576	-10.31057425	6.31E-25	2.53E-22
CCL5	481.818689	1.611667319	0.157058885	10.26154818	1.05E-24	4.13E-22
SLC2A3	1113.228612	1.126078782	0.109891345	10.24720174	1.22E-24	4.69E-22
CD40	2377.879133	0.920809926	0.089984309	10.23300545	1.41E-24	5.28E-22
ITGB3	661.3370218	1.528264981	0.149360245	10.23207336	1.42E-24	5.28E-22
CYP27B1	297.2631181	2.255516207	0.220586297	10.22509666	1.53E-24	5.46E-22
SLC7A2	35.4190351	3.373782648	0.32991313	10.22627577	1.51E-24	5.46E-22
HCAR2	237.9792568	1.404968918	0.137844548	10.19241559	2.14E-24	7.51E-22
PVALB	80.99773061	-1.539612374	0.151448906	-10.16588642	2.82E-24	9.69E-22
YPEL3	214.2203861	-0.86238677	0.085195132	-10.12248878	4.39E-24	1.48E-21
IER3	2658.14964	1.030096079	0.102327009	10.06670758	7.75E-24	2.58E-21
HCAR3	258.2970321	1.315036505	0.131125935	10.02880555	1.14E-23	3.72E-21
FABP3	1344.004403	-0.605600943	0.060925666	-9.939997034	2.79E-23	8.95E-21
CFP	406.8055419	-1.126690019	0.113554683	-9.922004032	3.34E-23	1.04E-20
SOCS3	142.1813865	1.42096971	0.143221334	9.921494705	3.36E-23	1.04E-20
EDN1	440.0068244	1.63594468	0.165092516	9.909260096	3.79E-23	1.16E-20
STON1	36.58323936	3.229256886	0.326252657	9.898024787	4.25E-23	1.28E-20
VWA8	1566.48698	0.99255747	0.10030772	9.895125448	4.37E-23	1.30E-20
RHCG	72.02146111	1.774821915	0.179438231	9.890990946	4.55E-23	1.31E-20
TRIB2	89.32916368	1.259785084	0.12735012	9.892296012	4.50E-23	1.31E-20
SGPP2	56.20202721	2.007397521	0.203190593	9.87938216	5.11E-23	1.45E-20
OCSTAMP	96.82827258	2.061680435	0.20900044	9.864478916	5.93E-23	1.66E-20
BMF	185.4140474	-0.958176809	0.097175129	-9.860309152	6.19E-23	1.70E-20
NFAT5	965.1782704	0.608037275	0.062119858	9.788130418	1.27E-22	3.44E-20
CCL2	1725.676214	1.505114582	0.154357898	9.750810321	1.83E-22	4.90E-20
RSPO3	186.0699737	2.107955624	0.216350603	9.743238968	1.97E-22	5.20E-20
VSIG4	316.6768179	-0.771935025	0.079298263	-9.734576722	2.15E-22	5.59E-20
CCL24	5936.662623	1.96069994	0.201503898	9.730332563	2.24E-22	5.75E-20
FAM134B	602.7622563	-0.593736298	0.061213683	-9.699404921	3.03E-22	7.69E-20
IL36G	21.79811789	3.68646998	0.380428505	9.690309556	3.32E-22	8.29E-20
APBB2	396.3324651	1.07199517	0.111102645	9.648691733	4.98E-22	1.23E-19
TGFA	103.1491956	1.682377581	0.174468635	9.642865498	5.27E-22	1.29E-19
IL8	73445.91326	1.373652784	0.142506773	9.639210481	5.46E-22	1.32E-19
ARHGDIB	7362.648567	-0.612168131	0.063829364	-9.590697718	8.75E-22	2.08E-19
ALDH2	4415.862918	-0.925731527	0.096624204	-9.580741591	9.64E-22	2.26E-19
UGDH	355.1393097	0.601222407	0.062857336	9.564872559	1.12E-21	2.61E-19
MRPS6	3506.715262	0.930377904	0.097903934	9.5029675	2.04E-21	4.68E-19
MXI1	227.4106578	-0.768157256	0.08118069	-9.462314946	3.01E-21	6.83E-19
MRC1	6152.855244	1.131985242	0.119784724	9.450163619	3.38E-21	7.58E-19
CYP3A5	62.78415224	2.647865513	0.280505624	9.439616486	3.74E-21	8.29E-19
PIM1	3406.275997	0.869892052	0.092575589	9.396559741	5.64E-21	1.23E-18
LAMB3	98.568742	1.023441797	0.109982135	9.305527598	1.33E-20	2.89E-18

EREG	517.1627249	1.638413775	0.176293303	9.293681282	1.49E-20	3.19E-18
IL1A	1681.836055	1.87851716	0.202199666	9.290406833	1.54E-20	3.25E-18
KCNN4	1436.957974	0.82983376	0.089454793	9.276571203	1.75E-20	3.67E-18
DUSP5	699.5476242	1.408019153	0.15231009	9.244424635	2.37E-20	4.90E-18
C10orf128	586.1789223	0.968693433	0.105076773	9.218911162	3.00E-20	6.15E-18
KDM6B	1179.749715	0.730404598	0.080188398	9.108606906	8.34E-20	1.69E-17
BHLHE40	2838.693937	0.824664891	0.09057045	9.105231216	8.61E-20	1.73E-17
PIM3	2224.574305	0.489375083	0.053769752	9.101308167	8.93E-20	1.77E-17
USF2	1528.3062	-0.532153879	0.058646877	-9.073865527	1.15E-19	2.26E-17
APOC1	6841.869399	-0.726707882	0.080112702	-9.071069481	1.18E-19	2.29E-17
ABTB2	69.30293268	1.010481359	0.111438477	9.067616392	1.22E-19	2.34E-17
PPARD	1342.650688	1.015641111	0.112122031	9.058354572	1.32E-19	2.53E-17
MOB3B	432.1815419	1.310743511	0.145832239	8.988022929	2.52E-19	4.75E-17
MIR155HG	161.0476688	1.276116376	0.143001431	8.923801436	4.51E-19	8.43E-17
RUNX1	152.5779312	1.319402054	0.14790289	8.92073204	4.63E-19	8.58E-17
MMP9	7830.13448	0.865835307	0.097383481	8.890987413	6.06E-19	1.11E-16
GPNMB	30408.40748	-0.602630699	0.067846523	-8.882263588	6.55E-19	1.18E-16
HBEGF	5126.974826	1.007873756	0.113458757	8.883172867	6.50E-19	1.18E-16
CA12	103.1450885	1.452171208	0.164220668	8.842804194	9.33E-19	1.63E-16
FAM129B	3422.847187	0.714873021	0.080835638	8.843537768	9.27E-19	1.63E-16
STAC	641.7424579	1.028394608	0.116274439	8.844545838	9.19E-19	1.63E-16
IL1RN	30576.76402	0.973223129	0.110072167	8.841682308	9.43E-19	1.64E-16
TNFRSF21	404.6832251	-0.965864525	0.109262023	-8.83989235	9.58E-19	1.65E-16
APOC2	1711.42036	-0.443753017	0.050213646	-8.837299304	9.81E-19	1.67E-16
CXCL2	765.1642031	1.5154421	0.172389104	8.790822987	1.48E-18	2.51E-16
VDR	948.9860568	1.127177201	0.128387697	8.779479855	1.64E-18	2.75E-16
TREM2	655.7098908	-0.914983729	0.10435021	-8.768393785	1.81E-18	3.01E-16
MSC	1006.985327	0.683525889	0.078312593	8.72817336	2.59E-18	4.26E-16
MMP1	403.1166381	1.353100235	0.155702346	8.690300883	3.61E-18	5.90E-16
BAALC	43.24587492	1.513036823	0.174168025	8.687225027	3.71E-18	6.01E-16
TM4SF1	383.2404289	1.469368765	0.169990037	8.643852237	5.43E-18	8.73E-16
TSLP	27.40605291	2.444979819	0.284257905	8.601272923	7.88E-18	1.26E-15
BTBD2	340.9104111	-0.557055607	0.065026553	-8.566586765	1.07E-17	1.68E-15
LIF	51.74317231	1.641818177	0.191787429	8.560614138	1.12E-17	1.76E-15
FLT1	27.61470657	1.5365463	0.179618032	8.554521424	1.18E-17	1.84E-15
DNASE2	1613.78923	-0.780171522	0.091479179	-8.528405386	1.48E-17	2.29E-15
KIAA1462	115.1270937	1.220980041	0.143222135	8.525079151	1.53E-17	2.33E-15
ISG20	63.99541402	2.004901284	0.235213627	8.523746321	1.54E-17	2.34E-15
ELOVL7	486.0316433	0.875799656	0.103345118	8.474514082	2.36E-17	3.55E-15
LSMD1	186.1069456	-0.738754438	0.087221496	-8.46986663	2.46E-17	3.67E-15
CD226	185.2410131	1.258571588	0.148641094	8.467184649	2.51E-17	3.70E-15
FUCA1	704.2317209	-1.192004755	0.14077677	-8.46733985	2.51E-17	3.70E-15
NNMT	86.43607432	2.321711819	0.274690251	8.452108544	2.86E-17	4.18E-15
IGSF6	2420.41175	0.869280613	0.102964162	8.442555091	3.10E-17	4.50E-15
PTPRF	134.835711	1.857741136	0.220126991	8.439406391	3.19E-17	4.59E-15
ADCK3	191.091426	-0.727215231	0.086214103	-8.43499161	3.31E-17	4.73E-15
AMDHD2	344.8693566	-0.571806487	0.068043833	-8.403502016	4.33E-17	6.14E-15

RAB42	391.6695282	-0.76050639	0.090872363	-8.368951447	5.81E-17	8.18E-15
GBP1P1	40.63224392	3.504945295	0.420293872	8.3392729	7.47E-17	1.03E-14
IFI44L	142.3235524	2.264205989	0.27153463	8.338553319	7.52E-17	1.03E-14
ZNF589	374.1434581	-0.564570771	0.067701235	-8.339150196	7.48E-17	1.03E-14
GLIPR2	2013.608808	0.900225408	0.108107046	8.327166824	8.28E-17	1.13E-14
CASS4	187.3488037	1.216694658	0.146140465	8.325515174	8.40E-17	1.14E-14
LDLRAP1	369.4280499	0.628240849	0.075748137	8.293812515	1.10E-16	1.48E-14
ANKRD22	142.3760432	2.300348566	0.277712956	8.283187783	1.20E-16	1.60E-14
PTX3	64.66898195	1.428395986	0.17253883	8.278692895	1.25E-16	1.65E-14
ABTB1	549.6440272	-0.640199691	0.077362957	-8.275274359	1.28E-16	1.69E-14
SLC7A11	4405.675767	0.878707082	0.106324707	8.264373397	1.40E-16	1.84E-14
F3	158.873557	1.138511988	0.137948389	8.253173496	1.54E-16	2.01E-14
DPEP2	452.3537472	-0.719250878	0.08716624	-8.251484513	1.56E-16	2.02E-14
HLX	341.015413	0.844944349	0.102414802	8.25021709	1.58E-16	2.03E-14
KCNA3	454.9022324	0.916856373	0.111226224	8.243167293	1.68E-16	2.14E-14
PARP12	876.2908751	0.396919438	0.048393418	8.201930314	2.37E-16	2.98E-14
SAMSN1	395.7386876	0.766038511	0.093395048	8.202131949	2.36E-16	2.98E-14
NEURL3	33.12430547	1.790193145	0.218539856	8.191609415	2.58E-16	3.22E-14
SLC5A3	1238.335323	1.293208597	0.158266332	8.171090987	3.06E-16	3.80E-14
C19orf59	3569.118224	1.08688508	0.133122305	8.16456026	3.23E-16	3.98E-14
APOL6	754.0408314	0.731547887	0.089671512	8.158085799	3.40E-16	4.18E-14
SLAMF6	66.58798935	-1.099014283	0.134817913	-8.151841703	3.58E-16	4.37E-14
TRIM25	1296.470512	0.689930155	0.084703491	8.145238749	3.79E-16	4.59E-14
GPR84	240.7160625	0.961413744	0.118345339	8.123798972	4.52E-16	5.44E-14
CDKN1A	5998.363369	0.746722517	0.092332709	8.087302165	6.10E-16	7.30E-14
TNIP3	1723.128296	0.671065081	0.083098754	8.075513121	6.72E-16	7.99E-14
PLAU	1321.776097	0.788972513	0.097810106	8.066370101	7.24E-16	8.56E-14
SORL1	111.4978758	-1.609952852	0.19970977	-8.061462655	7.54E-16	8.86E-14
BTN2A1	817.3406476	0.514529172	0.064165594	8.018770491	1.07E-15	1.25E-13
SMAD7	806.9068596	0.610762381	0.076319291	8.002726104	1.22E-15	1.41E-13
MB21D2	166.1704759	0.772640157	0.096820021	7.980169279	1.46E-15	1.69E-13
CCL1	10.01244276	3.960066835	0.497651172	7.957515337	1.76E-15	2.01E-13
CHST7	1051.658933	-0.543001741	0.068292106	-7.951164092	1.85E-15	2.11E-13
CYP27A1	23302.04811	-0.346861195	0.044034143	-7.877096461	3.35E-15	3.80E-13
DAPK1	4273.411614	-0.449232214	0.057095353	-7.868104735	3.60E-15	4.06E-13
APOL1	1033.40213	1.149635015	0.146301391	7.857991012	3.90E-15	4.37E-13
CXCR4	503.6992894	-1.182535255	0.150559021	-7.854296933	4.02E-15	4.45E-13
EGR2	6430.274089	0.856909916	0.10909453	7.854746827	4.01E-15	4.45E-13
PKIA	148.0856301	0.784779994	0.100081086	7.841441669	4.45E-15	4.88E-13
RALGDS	849.7774338	0.585879086	0.074714751	7.841545097	4.45E-15	4.88E-13
HMOX1	4725.324884	-0.411035858	0.052428488	-7.839933404	4.51E-15	4.91E-13
BHLHE41	2918.623049	-0.724718497	0.092463083	-7.837922725	4.58E-15	4.94E-13
STARD8	271.9404132	0.655727371	0.083663937	7.837634665	4.59E-15	4.94E-13
CSF3	8.192933408	3.800688902	0.486128024	7.818288007	5.35E-15	5.73E-13
CYP3A7	14.53148398	2.743879302	0.351414576	7.808097591	5.81E-15	6.18E-13
TSC22D1	1781.016296	0.59197167	0.075850213	7.804482671	5.97E-15	6.32E-13
CD36	1400.985254	-0.513474059	0.06592173	-7.789147211	6.75E-15	7.10E-13

UBD	655.4178825	2.354054524	0.302553806	7.780614492	7.22E-15	7.56E-13
NFKBIZ	1244.027095	0.515985508	0.066327364	7.779376086	7.29E-15	7.59E-13
CSRNP1	136.9476971	0.915586937	0.118033562	7.757005069	8.70E-15	9.01E-13
SLC28A3	224.550812	0.983089407	0.126752852	7.755954944	8.77E-15	9.03E-13
CCR7	102.9616604	1.000337997	0.129232889	7.740583745	9.90E-15	1.01E-12
TMEM45B	59.25551738	1.586326775	0.20565773	7.713431322	1.22E-14	1.25E-12
AMPD3	824.9104126	0.536457066	0.069755783	7.690503052	1.47E-14	1.49E-12
SLAMF1	16.19907967	2.719368805	0.35407478	7.680210387	1.59E-14	1.60E-12
PIK3IP1	62.58763328	-1.075555797	0.140081494	-7.67807202	1.62E-14	1.62E-12
PLSCR1	1964.594083	0.525031121	0.068473818	7.66761856	1.75E-14	1.75E-12
NT5E	51.45348143	1.225110899	0.160115363	7.651426301	1.99E-14	1.97E-12
WNT5A	57.16615254	1.561503195	0.204685481	7.628793135	2.37E-14	2.34E-12
VNN2	99.28632709	-0.710027981	0.093106804	-7.625951614	2.42E-14	2.38E-12
LDLR	285.8708468	0.857430436	0.112629848	7.612817104	2.68E-14	2.62E-12
CYB5R3	90.0290541	0.974141559	0.128056981	7.607094519	2.80E-14	2.73E-12
SLC22A1	33.52470948	1.854861456	0.244292872	7.592777632	3.13E-14	3.03E-12
BCL6	1233.692227	0.59749604	0.078705923	7.591500329	3.16E-14	3.05E-12
TTYH2	302.8376628	-1.141926239	0.150502673	-7.587415019	3.26E-14	3.13E-12
CCL17	27.36880212	2.26670547	0.298816333	7.585614372	3.31E-14	3.16E-12
MATK	741.944356	0.66654044	0.088103135	7.565456534	3.87E-14	3.67E-12
TMEM86A	305.0255181	-0.669600011	0.088622753	-7.555621915	4.17E-14	3.94E-12
FERMT2	45.70415138	1.730873417	0.229329971	7.547523809	4.44E-14	4.17E-12
EAF1	1169.94604	0.510176751	0.067711794	7.534533095	4.90E-14	4.58E-12
ENPP4	2106.23619	0.821542394	0.109057262	7.533128736	4.95E-14	4.60E-12
SERINC5	1576.556457	-0.367732449	0.048818277	-7.532679818	4.97E-14	4.60E-12
ARRDC4	1200.461809	0.793980163	0.105444024	7.529873483	5.08E-14	4.68E-12
N4BP1	533.0340521	0.754950807	0.100605072	7.504102805	6.19E-14	5.67E-12
EHD1	2277.130177	0.455642537	0.060766725	7.498224377	6.47E-14	5.91E-12
ADO	716.9003051	0.536866296	0.07176016	7.48139765	7.35E-14	6.68E-12
STAT1	5168.896609	1.084570044	0.145357293	7.461407807	8.56E-14	7.74E-12
PNPLA6	4102.736664	0.755968027	0.101473811	7.449883095	9.34E-14	8.41E-12
CA13	82.13158125	0.80259779	0.107825083	7.44351657	9.80E-14	8.79E-12
ITGA2	49.79368186	1.462619043	0.197310158	7.41279139	1.24E-13	1.10E-11
CTNS	625.3175282	0.753328512	0.101643691	7.411463563	1.25E-13	1.11E-11
NBN	1386.834673	0.536662008	0.072423953	7.41000717	1.26E-13	1.12E-11
NFAM1	378.5780554	-0.973861466	0.13150151	-7.405705563	1.30E-13	1.15E-11
LIMK2	316.899309	0.689876362	0.093210819	7.401247752	1.35E-13	1.18E-11
ATP6V1B2	8375.346568	0.425226388	0.057521577	7.392467491	1.44E-13	1.26E-11
RNASET2	1407.391052	-0.521434352	0.070712791	-7.37397496	1.66E-13	1.44E-11
CCL22	3558.304694	0.811858233	0.11010845	7.373260049	1.67E-13	1.44E-11
LYRM1	104.9937362	1.060670326	0.144143994	7.358408058	1.86E-13	1.60E-11
MLLT4	410.7442541	0.789742107	0.107539185	7.343761295	2.08E-13	1.78E-11
IRAK2	195.3092025	0.647755673	0.088296576	7.336135778	2.20E-13	1.87E-11
GOS2	988.3754435	1.356846837	0.185189769	7.326791544	2.36E-13	2.00E-11
METTL7A	39.1718659	-1.23490815	0.168714584	-7.319510378	2.49E-13	2.10E-11
CXCL10	1262.698126	2.83285329	0.388002908	7.301113552	2.85E-13	2.40E-11
OPN3	4116.363433	-0.493806557	0.067874207	-7.275319716	3.46E-13	2.89E-11

LRRC8C	545.1125858	0.75055238	0.103249839	7.269283801	3.61E-13	3.01E-11
MOB3C	800.2237475	0.50192176	0.069092459	7.264494117	3.74E-13	3.11E-11
RIPK2	1437.766902	0.838609073	0.115528995	7.258862376	3.90E-13	3.23E-11
DYRK4	54.09130687	-0.995584939	0.137369503	-7.2474961	4.25E-13	3.50E-11
NLRC5	283.3207475	0.935278548	0.129136528	7.242556111	4.40E-13	3.61E-11
APBA1	66.5378528	-0.933832642	0.129527424	-7.209536149	5.61E-13	4.58E-11
TGM2	11146.04339	0.739864602	0.102870314	7.192207069	6.38E-13	5.18E-11
SMOX	119.1290431	1.313181081	0.183002028	7.175773389	7.19E-13	5.82E-11
ID2	301.5841191	0.831627752	0.115970775	7.171011449	7.44E-13	6.00E-11
FXYD6	228.3546024	-0.909652717	0.127108402	-7.156511299	8.28E-13	6.64E-11
IFI35	1066.109675	0.78855813	0.110276109	7.150761281	8.63E-13	6.90E-11
PI3	37.70799402	2.477698974	0.34682262	7.14399475	9.07E-13	7.22E-11
SLC46A1	30.81370308	-1.354715221	0.190196053	-7.12273045	1.06E-12	8.39E-11
ANKLE2	1638.422242	0.258791868	0.036382657	7.113055762	1.14E-12	8.96E-11
DIRAS2	18.17361524	2.64416135	0.371932224	7.109255883	1.17E-12	9.14E-11
DYRK3	145.4273563	0.720029122	0.101274306	7.109691996	1.16E-12	9.14E-11
SCIMP	2365.258652	0.65484942	0.092164074	7.1052569	1.20E-12	9.37E-11
PLEKHA7	31.18176927	1.7774044	0.250387463	7.098615792	1.26E-12	9.79E-11
HSD17B4	2874.084744	-0.335771033	0.047488575	-7.070564514	1.54E-12	1.19E-10
PQLC3	783.7105593	-0.550937308	0.078071474	-7.056832394	1.70E-12	1.31E-10
SEMA4D	877.7415556	0.700937753	0.099364113	7.054234453	1.74E-12	1.33E-10
SDC4	1863.734841	0.560921829	0.079596432	7.047072522	1.83E-12	1.40E-10
SLC7A8	1136.236365	0.677242049	0.096356972	7.028469613	2.09E-12	1.59E-10
SAMD1	232.0517837	-0.578882139	0.08244844	-7.021141186	2.20E-12	1.67E-10
MPP1	3277.166127	-0.436225096	0.062163266	-7.01740951	2.26E-12	1.71E-10
SLC27A1	159.8329987	-0.855174168	0.122053699	-7.006540356	2.44E-12	1.84E-10
RPLPOP2	69.02091108	0.957621205	0.136706254	7.004955338	2.47E-12	1.85E-10
GCH1	320.5811373	1.004647465	0.1435391	6.999120543	2.58E-12	1.92E-10
TAP2	1292.833098	0.657454832	0.094000345	6.994174697	2.67E-12	1.98E-10
ERMP1	441.7384846	-0.48884703	0.069923374	-6.991181964	2.73E-12	2.02E-10
SPP1	1074.256079	0.615807709	0.088281452	6.975505013	3.05E-12	2.25E-10
RHBDD2	1465.352774	0.833627753	0.119582331	6.971161604	3.14E-12	2.31E-10
DNAJB5	238.3648114	0.761266227	0.109691737	6.940050792	3.92E-12	2.87E-10
CYTIP	893.3669648	-0.399444516	0.057563238	-6.939229407	3.94E-12	2.88E-10
MPND	132.9398583	-0.585560775	0.084496253	-6.930020624	4.21E-12	3.06E-10
SLC41A2	506.4520012	0.73214493	0.105831727	6.918009867	4.58E-12	3.32E-10
PSTPIP2	815.1099124	1.187456497	0.171780307	6.912646277	4.76E-12	3.43E-10
SCARB1	524.7780493	-0.960011118	0.138977196	-6.907688071	4.93E-12	3.54E-10
CLMN	150.4916957	-0.698867818	0.101332757	-6.896761102	5.32E-12	3.81E-10
FAM129A	3132.574396	0.549243528	0.079656191	6.8951769	5.38E-12	3.84E-10
CPNE8	214.2599879	0.556684618	0.080760623	6.893020336	5.46E-12	3.87E-10
SOCS2	8.728950617	3.178367354	0.461112476	6.892824461	5.47E-12	3.87E-10
SERPINF1	69.39349812	-1.058944978	0.153836261	-6.883584997	5.84E-12	4.12E-10
FNIP2	2696.750497	0.551682063	0.080153206	6.882844618	5.87E-12	4.13E-10
MICAL1	1107.367579	-0.494637702	0.071937246	-6.875961084	6.16E-12	4.31E-10
RHOA	772.9906028	0.583911645	0.085215783	6.852153703	7.27E-12	5.08E-10
SLC19A3	337.6956912	1.025533017	0.149692336	6.850938702	7.34E-12	5.10E-10

CRYL1	242.8708629	-0.493342347	0.072070691	-6.845256256	7.63E-12	5.29E-10
IL15RA	467.0655212	0.817493477	0.119459905	6.84324569	7.74E-12	5.35E-10
GPR68	242.8144155	0.907878518	0.132879137	6.832363153	8.35E-12	5.75E-10
ANO5	634.4207868	-0.49115306	0.071915534	-6.829582369	8.52E-12	5.84E-10
TP53BP2	1477.404074	0.346151692	0.050752488	6.820388619	9.08E-12	6.20E-10
MPHOSPH	594.5728062	0.497371583	0.072932457	6.81961917	9.13E-12	6.21E-10
KRT23	144.367949	1.080436932	0.158626786	6.811188427	9.68E-12	6.57E-10
MMP12	243.3681758	1.599323537	0.234941318	6.807331929	9.94E-12	6.72E-10
KANK1	78.23864976	0.841461222	0.123625041	6.806559709	1.00E-11	6.73E-10
DUSP6	1618.851732	0.480850009	0.070687915	6.802435899	1.03E-11	6.91E-10
TAP1	2676.9272	0.92791735	0.136422085	6.801811822	1.03E-11	6.91E-10
PXN	259.1366425	0.74809912	0.110124206	6.793230578	1.10E-11	7.31E-10
FAM105A	171.2814605	-0.684245363	0.100984	-6.775779923	1.24E-11	8.22E-10
VOPP1	1842.130357	-0.502539907	0.074176035	-6.774963211	1.24E-11	8.24E-10
EMR3	112.8847923	1.219945399	0.180265598	6.767488703	1.31E-11	8.65E-10
CD97	3787.976755	0.54269329	0.080331178	6.755699426	1.42E-11	9.35E-10
GBP1	3684.740953	1.09129027	0.161589813	6.753459576	1.44E-11	9.46E-10
IL23A	15.83024036	2.528776364	0.375359782	6.736940095	1.62E-11	1.06E-09
DUSP2	219.9843208	0.554743511	0.082386018	6.733466726	1.66E-11	1.08E-09
HTRA4	199.5667877	-0.613217361	0.091158382	-6.72694433	1.73E-11	1.12E-09
ITGA5	3902.80036	0.510383949	0.076035679	6.712427046	1.91E-11	1.24E-09
CTPS2	103.929474	-0.672527381	0.100214869	-6.710854247	1.93E-11	1.25E-09
ACP5	13996.76343	-0.488058084	0.072800635	-6.704036044	2.03E-11	1.30E-09
SLAMF8	5377.814632	0.507484291	0.075915189	6.684884777	2.31E-11	1.48E-09
PDCD4	1020.439082	-0.4896687	0.073283885	-6.681805998	2.36E-11	1.51E-09
SAMD9L	364.4766358	0.840191063	0.126130899	6.661262769	2.71E-11	1.73E-09
YRDC	219.3869652	0.51476668	0.077364705	6.653766488	2.86E-11	1.81E-09
FBXO6	168.2185518	0.821917729	0.123577796	6.651014602	2.91E-11	1.84E-09
ADAMTSL4	761.9307313	0.825494874	0.124275927	6.642435875	3.09E-11	1.94E-09
HAPLN3	72.47387495	1.840712883	0.277126829	6.642131662	3.09E-11	1.94E-09
CERK	516.3637558	-0.586537709	0.088391145	-6.635706669	3.23E-11	2.02E-09
PTPN7	182.6455356	0.746186137	0.112491459	6.63326927	3.28E-11	2.05E-09
LMNB1	67.8836423	1.23961294	0.186971974	6.629939824	3.36E-11	2.09E-09
TJP1	212.4942891	0.451934659	0.068266857	6.620118117	3.59E-11	2.22E-09
KLF13	1185.178543	-0.427905539	0.064780009	-6.605518391	3.96E-11	2.45E-09
NR3C2	32.96190053	-0.816971261	0.124138633	-6.581120177	4.67E-11	2.87E-09
IL32	1009.453207	0.775883092	0.118051069	6.572435952	4.95E-11	3.04E-09
MTF1	1109.075961	0.58467738	0.089137728	6.559258258	5.41E-11	3.30E-09
NLRP3	94.70526072	0.74653189	0.113817553	6.55902248	5.42E-11	3.30E-09
IMPA2	98.4881385	-0.826238504	0.126185282	-6.547819927	5.84E-11	3.54E-09
MFSD2A	345.2465704	0.873659696	0.133426824	6.547856497	5.84E-11	3.54E-09
ANGEL1	469.6439437	-0.5648584	0.086275242	-6.54716681	5.86E-11	3.54E-09
ATP6VOD2	490.8998773	-0.531454065	0.08141797	-6.527478662	6.69E-11	4.03E-09
B3GNT5	804.7518749	0.579884081	0.089110535	6.507469433	7.64E-11	4.59E-09
TSFM	304.3834327	0.664266698	0.102167271	6.50175629	7.94E-11	4.75E-09
ZDHHC3	407.6594637	0.315136447	0.04866646	6.475433977	9.45E-11	5.64E-09
CTSF	58.35824335	-0.958572592	0.148133971	-6.470984232	9.74E-11	5.79E-09

PSME4	1433.952691	0.637853944	0.098668146	6.464638982	1.02E-10	6.02E-09
PCMTD2	185.2341658	-0.538075444	0.083361222	-6.454745169	1.08E-10	6.41E-09
C15orf52	33.7504192	-1.005351342	0.155810227	-6.452409191	1.10E-10	6.49E-09
SIPA1L1	163.4565388	0.72766712	0.112902862	6.445072379	1.16E-10	6.79E-09
PDLIM4	94.75079859	0.81532209	0.126813266	6.429312293	1.28E-10	7.51E-09
USP32	1300.671153	0.382029848	0.059528388	6.417607799	1.38E-10	8.08E-09
SLC4A11	66.96429417	-0.582538665	0.09099067	-6.402180203	1.53E-10	8.92E-09
NEDD4L	216.1290598	0.559620668	0.087567598	6.390727661	1.65E-10	9.58E-09
METTL9	439.6719515	0.707417915	0.111106354	6.367033819	1.93E-10	1.11E-08
HSD17B14	114.8814947	-0.56888449	0.089439903	-6.360522186	2.01E-10	1.16E-08
CEP170	1095.699715	0.520324502	0.081818344	6.35950907	2.02E-10	1.16E-08
BTD	187.8202984	-0.571911699	0.090078533	-6.349034337	2.17E-10	1.24E-08
ASAH1	8939.08205	-0.375586584	0.059231455	-6.340998831	2.28E-10	1.31E-08
ACSF2	222.8337915	-0.597770996	0.094311221	-6.338280716	2.32E-10	1.32E-08
ITGA1	72.76062137	1.069818479	0.168930117	6.332905552	2.41E-10	1.37E-08
CCDC71L	410.4747232	0.865657338	0.13691866	6.322420471	2.57E-10	1.46E-08
KLHL24	204.2891115	-0.510764486	0.080987176	-6.306732849	2.85E-10	1.61E-08
NDP	34.67706067	1.958219641	0.310535708	6.305940312	2.86E-10	1.61E-08
CHST3	85.89771149	0.687877145	0.109110144	6.304428899	2.89E-10	1.62E-08
ME1	639.4307693	-0.728043337	0.115519874	-6.302321064	2.93E-10	1.64E-08
NFIA	88.79914361	-0.749886516	0.119182705	-6.291907177	3.14E-10	1.75E-08
LCP2	1428.484459	0.505960197	0.080673872	6.271673685	3.57E-10	1.99E-08
RGCC	4769.565172	0.499723444	0.079764452	6.26498939	3.73E-10	2.07E-08
ACACB	86.99577344	-0.560713031	0.089563139	-6.260533467	3.84E-10	2.12E-08
TNFRSF11E	4.931680335	3.791262035	0.605812679	6.258142436	3.90E-10	2.15E-08
PLEKHN1	22.42064868	1.145170199	0.183188925	6.251306947	4.07E-10	2.24E-08
KIAA0513	1146.07506	-0.410815014	0.065877303	-6.236062989	4.49E-10	2.46E-08
ARHGAP1C	824.5895915	0.478362718	0.076722593	6.234965474	4.52E-10	2.47E-08
CLEC7A	164.6860348	0.6318478	0.101347647	6.234459494	4.53E-10	2.47E-08
PLTP	501.0534685	-0.752749516	0.120763412	-6.233258113	4.57E-10	2.49E-08
NR4A2	78.58223153	0.602257461	0.096647084	6.231511978	4.62E-10	2.51E-08
SUCNR1	134.4749944	0.838628108	0.134934061	6.215095745	5.13E-10	2.78E-08
SAV1	704.8982411	0.649145771	0.104609541	6.205416481	5.46E-10	2.94E-08
CH25H	64.60340734	2.064510867	0.332770806	6.204002359	5.50E-10	2.96E-08
TEC	132.4568504	0.552981697	0.089137964	6.203660848	5.52E-10	2.96E-08
CKAP4	331.4210594	0.523601882	0.084423492	6.202087444	5.57E-10	2.98E-08
SGK110	19.81876487	1.263914132	0.203856496	6.200018919	5.65E-10	3.01E-08
RASSF5	1203.826244	0.435132738	0.070203873	6.198130054	5.71E-10	3.04E-08
RHOH	32.16830838	1.184418531	0.191187111	6.195075218	5.83E-10	3.08E-08
SBNO2	743.0019975	0.468495905	0.075620561	6.195350831	5.82E-10	3.08E-08
LYN	2014.726634	0.340849371	0.05503424	6.19340558	5.89E-10	3.11E-08
FABP4	12133.92014	-0.741713022	0.119984649	-6.181732626	6.34E-10	3.34E-08
SUMO3	1170.344746	-0.249204945	0.040381096	-6.171326901	6.77E-10	3.55E-08
MAP7	710.1697558	0.545885664	0.088561352	6.163926521	7.10E-10	3.72E-08
INSR	132.6103925	-0.476946537	0.07758993	-6.147015927	7.90E-10	4.12E-08
ALAS1	2537.386398	0.527146519	0.085977055	6.131246546	8.72E-10	4.54E-08
SASH3	333.8810468	-0.663205276	0.108204007	-6.129211797	8.83E-10	4.59E-08

RCN1	954.0992289	0.377524358	0.061608976	6.127749312	8.91E-10	4.62E-08
LAP3	4477.401672	0.661641863	0.107985348	6.127144795	8.95E-10	4.62E-08
WDR91	247.9575145	-0.546112178	0.089262805	-6.118026182	9.47E-10	4.88E-08
SEMA4A	425.3147935	-0.530954744	0.08684865	-6.113563576	9.74E-10	5.01E-08
ASAP2	36.66956201	1.470150423	0.240655143	6.108950774	1.00E-09	5.14E-08
TTC39B	850.2495784	0.636589042	0.104490177	6.092333864	1.11E-09	5.69E-08
IRF7	721.3731824	0.64423775	0.105871976	6.085064007	1.16E-09	5.93E-08
KBTBD8	128.5221541	0.606887871	0.099772163	6.082737433	1.18E-09	6.01E-08
SIRPB2	56.6148566	-0.936459961	0.154324409	-6.068126025	1.29E-09	6.56E-08
EIF1B	4105.995221	0.558876052	0.092192219	6.062074007	1.34E-09	6.80E-08
CBX6	98.96186532	0.639450986	0.105581079	6.05649223	1.39E-09	7.02E-08
HS3ST3A1	37.55724168	1.151467527	0.190376273	6.048377296	1.46E-09	7.34E-08
PDK4	987.2668638	-0.595184908	0.098402149	-6.048495003	1.46E-09	7.34E-08
SDS	30.44329127	-1.503746344	0.248725451	-6.045808089	1.49E-09	7.44E-08
IFIT3	138.9877153	1.444978932	0.239164633	6.041775135	1.52E-09	7.61E-08
VAT1	18214.39702	-0.39903987	0.066131458	-6.034040103	1.60E-09	7.96E-08
EIF4EBP1	475.0347666	-0.473243896	0.078440152	-6.033184302	1.61E-09	7.98E-08
PTGFRN	77.61756738	-0.993596721	0.164760542	-6.030550195	1.63E-09	8.09E-08
ZC3H12A	565.4799209	0.491138677	0.081462874	6.028987863	1.65E-09	8.15E-08
SLC27A3	702.6120821	0.633983274	0.105342569	6.018300879	1.76E-09	8.68E-08
CAMK1	155.685841	0.635284487	0.105690251	6.010814415	1.85E-09	9.07E-08
CCDC69	503.4811382	-0.647235588	0.107796219	-6.004251281	1.92E-09	9.42E-08
CD80	703.8998354	0.552799266	0.09230069	5.989113066	2.11E-09	1.03E-07
ADAMTSL1	8.040782643	2.609912632	0.435959589	5.98659302	2.14E-09	1.05E-07
MTHFD2	4181.957525	0.339322694	0.05677005	5.977142743	2.27E-09	1.10E-07
AQP3	1200.819704	0.575414155	0.096291954	5.975724152	2.29E-09	1.11E-07
HIP1	532.3029625	0.712734585	0.119303291	5.974140178	2.31E-09	1.12E-07
MAP3K5	492.1963158	0.564827845	0.094781255	5.95927795	2.53E-09	1.22E-07
TMEM171	13.77930664	2.072354475	0.347921179	5.956390695	2.58E-09	1.24E-07
FAM40B	95.79990112	0.75843075	0.127513487	5.94784733	2.72E-09	1.31E-07
METTL21B	145.2546008	0.728440474	0.122666133	5.938399275	2.88E-09	1.38E-07
NCF4	1196.540062	-0.351987327	0.059287846	-5.936922192	2.90E-09	1.39E-07
PLXND1	1509.891903	-0.436850761	0.07358318	-5.936829026	2.91E-09	1.39E-07
GCHFR	111.3707821	-0.765346254	0.128929146	-5.936177176	2.92E-09	1.39E-07
MERTK	13.20209715	-1.802154918	0.303889592	-5.930294968	3.02E-09	1.43E-07
PIK3AP1	5194.732343	0.338748819	0.05713556	5.928861428	3.05E-09	1.44E-07
FYB	635.0122973	-0.661312455	0.111929539	-5.908292494	3.46E-09	1.63E-07
TMEM170	166.5142858	-0.488737907	0.082721102	-5.908261571	3.46E-09	1.63E-07
SLCO2B1	2467.023782	0.622443831	0.105384123	5.906428901	3.50E-09	1.64E-07
CD47	1741.300853	0.42558707	0.072224617	5.892548651	3.80E-09	1.78E-07
JAKMIP2	787.7240298	0.47914997	0.081309824	5.892891482	3.79E-09	1.78E-07
EML4	2026.709319	0.58590863	0.099517252	5.887508122	3.92E-09	1.83E-07
YES1	55.4523088	0.830488963	0.141134888	5.884363367	4.00E-09	1.86E-07
SLIT3	62.36436815	-0.961838429	0.163648444	-5.877467608	4.17E-09	1.93E-07
TSPAN4	212.1603511	-0.712745522	0.121313091	-5.875256475	4.22E-09	1.96E-07
LTV1	276.0914399	0.331962241	0.056577542	5.86738534	4.43E-09	2.05E-07
TNFSF15	88.44038134	1.263277104	0.215414036	5.864414067	4.51E-09	2.08E-07

BRI3BP	81.66300415	-0.600590925	0.102491074	-5.859933973	4.63E-09	2.12E-07
STON2	194.4719178	0.728051863	0.124241644	5.85996644	4.63E-09	2.12E-07
SLC25A25	237.4825861	0.447736597	0.076438665	5.857462277	4.70E-09	2.15E-07
GEM	229.7454645	0.596096274	0.101815843	5.854651481	4.78E-09	2.18E-07
PDE1B	373.6837601	0.642713487	0.109863228	5.85012381	4.91E-09	2.24E-07
ENTPD7	183.5291227	0.547147453	0.09370901	5.838792389	5.26E-09	2.39E-07
NEK6	135.0684334	0.753976634	0.129244586	5.833719305	5.42E-09	2.46E-07
GALNT2	1105.189462	0.334026396	0.057395225	5.81975928	5.89E-09	2.67E-07
GSTK1	1100.566853	-0.406391334	0.069858337	-5.817363447	5.98E-09	2.70E-07
SLC48A1	114.4860538	-0.817628291	0.140573657	-5.816369211	6.01E-09	2.71E-07
CD93	28.12781885	1.125895345	0.193649361	5.814092733	6.10E-09	2.74E-07
PPT1	5885.720174	-0.232274869	0.039988022	-5.808611142	6.30E-09	2.82E-07
EBI3	21.63758476	1.739378183	0.299699106	5.803748317	6.48E-09	2.90E-07
DCAF7	753.8559339	0.354206608	0.061082635	5.798810179	6.68E-09	2.98E-07
PPP1R15B	1262.475436	0.373075786	0.064353703	5.79726988	6.74E-09	3.00E-07
BNIP3L	1055.703886	-0.484789517	0.083705874	-5.79158298	6.97E-09	3.10E-07
PPFIBP1	123.5055521	0.624715265	0.107941938	5.787512028	7.14E-09	3.16E-07
ARL5B	250.625536	0.490859093	0.084844454	5.785399838	7.23E-09	3.19E-07
RBPJ	1143.795165	0.410942508	0.071028331	5.785614006	7.22E-09	3.19E-07
ALDH1A2	383.4328011	0.892938701	0.154803392	5.768211482	8.01E-09	3.52E-07
CD9	9661.791192	-0.425153612	0.073748054	-5.764946834	8.17E-09	3.58E-07
MICAL2	210.5735555	1.027250288	0.178615073	5.751195968	8.86E-09	3.88E-07
DOT1L	498.9049204	0.455102679	0.079137911	5.750754243	8.88E-09	3.88E-07
PBXIP1	179.3315481	-0.598430186	0.104294169	-5.737906487	9.59E-09	4.18E-07
SPATS2L	246.5279954	0.469300982	0.081874522	5.73195383	9.93E-09	4.32E-07
GUCY1B3	14.67200552	1.292418264	0.225675418	5.726889854	1.02E-08	4.44E-07
RBMS1	1233.467556	0.59470634	0.103875965	5.725158271	1.03E-08	4.47E-07
CUEDC1	261.6716346	-0.335934451	0.058689745	-5.72390374	1.04E-08	4.50E-07
FBXO10	141.7011098	-0.521151609	0.091104209	-5.720390012	1.06E-08	4.58E-07
SBSN	4.822356375	2.736595206	0.478464548	5.719535993	1.07E-08	4.59E-07
OSBPL1A	502.6643853	-0.431350211	0.075432211	-5.718382182	1.08E-08	4.61E-07
ATP2C1	981.4978093	0.454714721	0.079586141	5.713491248	1.11E-08	4.74E-07
IFI44	293.1977069	0.920225975	0.161109039	5.711820884	1.12E-08	4.77E-07
C7orf41	50.06598937	-0.655692035	0.114849628	-5.709135062	1.14E-08	4.83E-07
NPAS2	72.25399026	0.897480151	0.157193254	5.709406279	1.13E-08	4.83E-07
NRIP3	584.911305	0.451306408	0.079149841	5.701924382	1.18E-08	5.03E-07
STEAP3	899.1482994	-0.498408518	0.087460626	-5.698661655	1.21E-08	5.11E-07
CD101	295.4131788	-0.620575615	0.10905169	-5.690655626	1.27E-08	5.35E-07
BMP2	9.808725736	2.437510115	0.428575519	5.687469319	1.29E-08	5.44E-07
GIMAP8	181.7903536	0.821672124	0.144507717	5.686008615	1.30E-08	5.47E-07
SPOCD1	1394.305359	0.471916328	0.083007391	5.685232654	1.31E-08	5.48E-07
ANXA11	4008.358647	0.389335455	0.068507947	5.683069956	1.32E-08	5.54E-07
PHLDA2	449.0764474	0.542637546	0.095536666	5.679887822	1.35E-08	5.63E-07
DBNDD2	1430.928321	-0.319988398	0.056342332	-5.67936024	1.35E-08	5.64E-07
KLF9	488.3005999	0.34487031	0.060755732	5.676341924	1.38E-08	5.73E-07
SLC37A2	611.888622	-0.421378652	0.074273853	-5.673310804	1.40E-08	5.82E-07
DUSP4	46.82833946	0.95129257	0.167936435	5.664599044	1.47E-08	6.11E-07

RPGR	126.8063105	0.524476258	0.092607297	5.663444154	1.48E-08	6.13E-07
HEG1	494.5825755	0.47542592	0.084256333	5.642613465	1.67E-08	6.91E-07
NTAN1	783.6012603	-0.28514888	0.050591445	-5.636306342	1.74E-08	7.15E-07
MPP7	28.90421226	-0.970638502	0.172294632	-5.633596887	1.76E-08	7.25E-07
RAPGEF3	40.15430517	-0.999258873	0.177396246	-5.632920055	1.77E-08	7.25E-07
WBP1	270.1767489	-0.386441065	0.068605058	-5.632836363	1.77E-08	7.25E-07
GBP5	1000.368692	1.660166837	0.294759643	5.632273198	1.78E-08	7.26E-07
RRAD	163.0125154	0.966498598	0.171641874	5.630902143	1.79E-08	7.30E-07
IQGAP2	2028.815398	0.354414494	0.062974537	5.627901577	1.82E-08	7.41E-07
USP12	1121.331903	0.359998058	0.063987995	5.626025018	1.84E-08	7.48E-07
TNFRSF4	114.4549642	0.971531805	0.172948526	5.617462193	1.94E-08	7.84E-07
SMPDL3A	40.09868041	-0.991401911	0.176521216	-5.616332883	1.95E-08	7.88E-07
PNPLA3	120.1211707	-0.597221117	0.106416744	-5.61209727	2.00E-08	8.06E-07
KREMEN1	30.74954315	1.391647902	0.248426898	5.601840672	2.12E-08	8.53E-07
IMPDH1	468.0700583	-0.476812592	0.085254752	-5.592797816	2.23E-08	8.97E-07
TNFAIP8	1064.599739	0.466222404	0.08342047	5.588824934	2.29E-08	9.16E-07
LTA4H	5397.793789	-0.525706495	0.094077555	-5.588011902	2.30E-08	9.18E-07
HDAC5	282.273404	-0.39911553	0.071522206	-5.580302296	2.40E-08	9.58E-07
AICDA	29.62689358	-1.252791733	0.224536934	-5.579446155	2.41E-08	9.60E-07
FABP5	4614.615079	-0.405373263	0.072758106	-5.571520263	2.53E-08	1.00E-06
JUNB	3376.545444	0.373363793	0.067014564	5.571382869	2.53E-08	1.00E-06
CYFIP1	1684.416591	-0.273725195	0.049233902	-5.559689199	2.70E-08	1.07E-06
PGAP1	53.88604662	0.997780719	0.179663746	5.553600786	2.80E-08	1.10E-06
LG MN	1588.503697	-0.455469481	0.082051515	-5.551018534	2.84E-08	1.12E-06
HS3ST3B1	55.85761899	1.057182568	0.190487319	5.549884224	2.86E-08	1.12E-06
MST4	38.38670955	1.196598177	0.215605671	5.54993832	2.86E-08	1.12E-06
SIK3	744.9755172	0.441013549	0.079606214	5.539938712	3.03E-08	1.18E-06
BTG1	1954.688656	0.470442698	0.084992765	5.535091136	3.11E-08	1.22E-06
PARP1	967.4342465	-0.307278548	0.055527124	-5.533845948	3.13E-08	1.22E-06
PDSS1	175.8593555	0.570532552	0.10332204	5.521886265	3.35E-08	1.31E-06
FCN1	42.51372094	-0.898750715	0.162945893	-5.515638955	3.48E-08	1.35E-06
ELMO2	587.0225193	0.40832425	0.074047391	5.514363744	3.50E-08	1.36E-06
MDGA1	12.67023441	1.394440969	0.252991244	5.511815134	3.55E-08	1.37E-06
CXCL9	597.6961654	1.770043691	0.321781234	5.500767299	3.78E-08	1.46E-06
PDK2	117.0524076	-0.896802677	0.163118401	-5.497863332	3.84E-08	1.48E-06
PLK3	579.6857793	0.590900783	0.107521891	5.495632352	3.89E-08	1.50E-06
FKBP9	136.3580694	-0.480965496	0.087789168	-5.478642829	4.29E-08	1.64E-06
SNX8	1307.604316	0.299737802	0.054712123	5.478453168	4.29E-08	1.64E-06
WSB1	879.7851647	0.284550813	0.051973004	5.47497334	4.38E-08	1.67E-06
OR6N1	61.95414116	-0.940852021	0.171946966	-5.471757024	4.46E-08	1.70E-06
PMP22	589.9259846	0.555970965	0.101613736	5.471415454	4.46E-08	1.70E-06
CIITA	1200.784206	0.553846757	0.101233485	5.470983826	4.48E-08	1.70E-06
CYP2U1	27.06739532	-1.013630424	0.185410285	-5.466958983	4.58E-08	1.73E-06
GATSL3	17.8751491	-0.985629154	0.18027923	-5.467236305	4.57E-08	1.73E-06
HES2	47.85058451	-1.074212264	0.196604553	-5.4638219	4.66E-08	1.76E-06
PLA2G16	2768.53468	-0.309366506	0.056626386	-5.46329243	4.67E-08	1.76E-06
PARP9	277.8720816	0.868576819	0.159131544	5.458231581	4.81E-08	1.81E-06

NIPSNAP1	57.3297248	-0.728581021	0.133531757	-5.456237793	4.86E-08	1.83E-06
AFMID	13.61298987	-1.467593263	0.269833518	-5.438884211	5.36E-08	2.00E-06
JAK3	86.2108141	0.962842178	0.177036198	5.438674061	5.37E-08	2.00E-06
PCYOX1	215.9030429	-0.476639518	0.087630535	-5.439194433	5.35E-08	2.00E-06
SORD	98.413807	-0.54171588	0.099588396	-5.439548189	5.34E-08	2.00E-06
AUH	91.90883189	-0.755065314	0.138853189	-5.437868012	5.39E-08	2.01E-06
OTUD7B	69.67942755	0.731174718	0.134474742	5.437264346	5.41E-08	2.01E-06
MFAF5	68.59914337	-0.628030654	0.115520663	-5.436522227	5.43E-08	2.01E-06
PDGFB	53.9438127	0.752897989	0.138709284	5.42788463	5.70E-08	2.11E-06
CCDC28A	272.2106726	-0.381308333	0.070254573	-5.427523327	5.71E-08	2.11E-06
FMO5	75.02751769	-0.597265014	0.110119376	-5.423795855	5.83E-08	2.15E-06
PPAP2B	1839.090467	0.459334585	0.084687145	5.42389975	5.83E-08	2.15E-06
RASGRP1	204.8939852	0.816842393	0.150658778	5.421804194	5.90E-08	2.17E-06
SERPINB9	138.728803	1.114632248	0.205690115	5.418987927	5.99E-08	2.20E-06
ANKRD12	2735.091531	0.39667685	0.073280693	5.413115416	6.19E-08	2.26E-06
EPB41L3	3372.274746	-0.21829404	0.040341962	-5.411091283	6.26E-08	2.29E-06
ALDH1B1	15.40143628	-0.887265279	0.164069631	-5.407858085	6.38E-08	2.32E-06
LDHB	1043.524569	-0.422163999	0.078119584	-5.40407381	6.51E-08	2.37E-06
OR6K3	88.24812287	-0.972291784	0.179990233	-5.401914132	6.59E-08	2.39E-06
MT2A	11714.87947	0.47990035	0.088896369	5.39842465	6.72E-08	2.43E-06
SHPK	163.6939667	0.511558885	0.094805874	5.395856444	6.82E-08	2.47E-06
TMCC3	321.190089	0.46882115	0.086906005	5.394577152	6.87E-08	2.48E-06
PCNX	889.9316832	0.339024226	0.062960635	5.384701465	7.26E-08	2.61E-06
DCP1A	764.5606532	0.400331852	0.074464481	5.376145084	7.61E-08	2.74E-06
KCNAB1	84.05604413	-1.227296328	0.228392214	-5.373634713	7.72E-08	2.77E-06
OSM	261.3695544	0.723007805	0.134867486	5.360875546	8.28E-08	2.97E-06
FARP1	538.3137037	-0.534776531	0.099769015	-5.360146466	8.32E-08	2.97E-06
ANKRD29	96.5653672	0.704298854	0.131435077	5.358530395	8.39E-08	2.99E-06
CCDC102B	39.76604747	1.240076683	0.23162573	5.353795032	8.61E-08	3.07E-06
MAP1LC3A	195.9289794	-0.559715339	0.10461067	-5.350461273	8.77E-08	3.12E-06
ATP2B1	1134.70532	0.375029399	0.070174634	5.344230214	9.08E-08	3.22E-06
ITGAX	4767.707299	0.402925689	0.075449956	5.34030382	9.28E-08	3.29E-06
FCGR2C	33.51677458	1.310180614	0.245651365	5.333496167	9.63E-08	3.41E-06
ADORA2B	739.0799193	-0.411051404	0.077132521	-5.329158135	9.87E-08	3.48E-06
FGF10	15.23365506	1.839127517	0.3452903	5.326322575	1.00E-07	3.53E-06
ABI3	107.1722171	-0.707989081	0.133071881	-5.320350741	1.04E-07	3.64E-06
PTAFR	567.5754725	0.511651699	0.096172754	5.320131532	1.04E-07	3.64E-06
TOR3A	675.0337073	-0.554910425	0.104312178	-5.319708933	1.04E-07	3.64E-06
LINC00515	103.3176476	0.948716627	0.178414304	5.317491949	1.05E-07	3.68E-06
IRF9	560.8163594	0.5034835	0.094743923	5.314150853	1.07E-07	3.74E-06
BTG2	1357.418909	0.354329863	0.066725793	5.310238293	1.09E-07	3.81E-06
MEGF9	466.2441769	-0.394245378	0.074299517	-5.306163384	1.12E-07	3.89E-06
UGP2	1568.905552	0.320163504	0.060343131	5.305715761	1.12E-07	3.90E-06
ESPL1	41.95525051	0.847802024	0.160019529	5.298115987	1.17E-07	4.05E-06
MXD4	299.1886773	-0.346727458	0.065547243	-5.289733625	1.22E-07	4.24E-06
LOC100121	33.09872068	-1.240392716	0.234606382	-5.287122654	1.24E-07	4.29E-06
ITPR1	596.5043368	-0.489863229	0.092716628	-5.283445273	1.27E-07	4.37E-06

LRR6	42.70240988	-0.896896489	0.169956375	-5.277215937	1.31E-07	4.51E-06
RNF213	1654.445856	0.45570448	0.086372004	5.276066966	1.32E-07	4.53E-06
CLDN12	305.3590903	0.443142196	0.084093586	5.269631349	1.37E-07	4.69E-06
SLC25A22	127.5500043	0.599118986	0.113707913	5.268929567	1.37E-07	4.70E-06
IRF4	42.81451045	0.885494956	0.168169873	5.265479116	1.40E-07	4.78E-06
ATF3	2144.421326	0.46365134	0.088089352	5.263420952	1.41E-07	4.82E-06
IGF1	54.90148528	1.126344319	0.214077607	5.261383168	1.43E-07	4.87E-06
SPRR3	33.73225328	-0.911526325	0.17329853	-5.259861828	1.44E-07	4.90E-06
TCP11L2	92.79051515	-0.550065145	0.104616691	-5.257909968	1.46E-07	4.94E-06
IL6R	976.3601357	0.583454082	0.111038373	5.254526576	1.48E-07	5.02E-06
HDDC2	616.7412978	-0.339854957	0.064738161	-5.2496851	1.52E-07	5.15E-06
VPS9D1	108.1104749	0.601804713	0.114842521	5.240260359	1.60E-07	5.41E-06
MET	178.7984272	0.957317854	0.182860608	5.235232799	1.65E-07	5.55E-06
RBM8A	1945.295223	0.379462603	0.072499474	5.234004913	1.66E-07	5.58E-06
MUCL1	24.52409706	1.182507813	0.226006207	5.232191747	1.68E-07	5.62E-06
IL2RG	2867.771354	0.421389627	0.080598225	5.228274254	1.71E-07	5.73E-06
FAM210B	205.615992	-0.407856858	0.078063968	-5.224649345	1.74E-07	5.84E-06
ENDOG	127.2907468	-0.344474612	0.065965093	-5.222074229	1.77E-07	5.91E-06
AQP9	5892.742647	0.366292894	0.070153364	5.221316148	1.78E-07	5.92E-06
MMP10	969.4653755	0.664154779	0.127256838	5.219010537	1.80E-07	5.99E-06
CALM1	2893.957653	0.212773909	0.040844262	5.209395327	1.89E-07	6.29E-06
CLEC4A	617.9034663	0.715311567	0.137425267	5.205094964	1.94E-07	6.43E-06
ACSL5	4300.81584	0.472811325	0.090848374	5.204400546	1.95E-07	6.44E-06
ZBTB4	831.5343372	-0.41690328	0.080132892	-5.20264863	1.96E-07	6.49E-06
LXN	61.86722594	-0.588216554	0.113092295	-5.201208049	1.98E-07	6.53E-06
PIK3R6	14.84090163	1.27448452	0.245043487	5.201054454	1.98E-07	6.53E-06
CLCF1	196.7157869	0.632912183	0.121749639	5.198472767	2.01E-07	6.61E-06
KDM2B	163.89388	-0.553105663	0.106431757	-5.196810392	2.03E-07	6.65E-06
GPD2	2364.431467	0.30641277	0.058965749	5.196453424	2.03E-07	6.66E-06
P2RY6	12.49661922	1.295762895	0.249492086	5.193603187	2.06E-07	6.75E-06
CD84	1989.313741	-0.609710212	0.117477616	-5.190011793	2.10E-07	6.85E-06
COQ2	297.1743655	-0.304956196	0.058756681	-5.19015353	2.10E-07	6.85E-06
DOCK4	1088.522447	0.40520807	0.078089726	5.189006157	2.11E-07	6.88E-06
PSME2	1305.767258	0.568092221	0.109617631	5.182489509	2.19E-07	7.11E-06
CD4	996.7947728	-0.404675822	0.078172576	-5.176698033	2.26E-07	7.33E-06
RUSC2	390.0150607	0.435625857	0.084174978	5.175241703	2.28E-07	7.37E-06
GPR132	40.71177139	0.902794615	0.174458826	5.174829141	2.28E-07	7.37E-06
NOTCH2	2520.000583	-0.189116125	0.036646771	-5.160512586	2.46E-07	7.95E-06
PFKFB2	139.6631412	-0.472774103	0.091642126	-5.158916806	2.48E-07	8.00E-06
PRSS21	191.064096	-0.459063333	0.088989236	-5.158638875	2.49E-07	8.00E-06
CD300LF	774.9405068	0.342572614	0.066414365	5.158110215	2.49E-07	8.01E-06
ADCY3	1540.081265	-0.250372523	0.048556658	-5.156296399	2.52E-07	8.07E-06
BRCA2	99.69799786	0.538020259	0.104388104	5.154038037	2.55E-07	8.16E-06
LTBP3	149.5834937	-0.537487274	0.104360904	-5.150274214	2.60E-07	8.31E-06
KIAA1147	566.6646842	0.57888615	0.112411842	5.14969009	2.61E-07	8.32E-06
NUP107	387.1373386	0.341021925	0.06623052	5.149014786	2.62E-07	8.33E-06
TMEM236	27.313469	1.1181004	0.2171384	5.149252271	2.62E-07	8.33E-06

ZNF697	254.5015984	0.444560639	0.086433468	5.14338544	2.70E-07	8.56E-06
IFI16	2482.584338	0.325219722	0.063260555	5.140955873	2.73E-07	8.65E-06
MXD1	421.091343	0.617836727	0.120174585	5.141159641	2.73E-07	8.65E-06
CFB	1232.569729	0.655815182	0.127627447	5.1385121	2.77E-07	8.75E-06
ALOX5	1171.242556	-0.52157412	0.101519035	-5.137697762	2.78E-07	8.77E-06
C15orf38	101.3446469	-0.564215551	0.109835191	-5.136928778	2.79E-07	8.79E-06
SERPINE2	478.9458248	0.974395307	0.1896987	5.136541818	2.80E-07	8.80E-06
EPB41L1	1654.927268	-0.388838086	0.075715536	-5.135512592	2.81E-07	8.83E-06
PML	245.2435382	0.614227428	0.119656102	5.133272918	2.85E-07	8.92E-06
ELK3	263.1307276	-0.382060954	0.07448396	-5.129439322	2.91E-07	9.09E-06
NFKBID	215.2114218	0.443586554	0.086736032	5.114213148	3.15E-07	9.84E-06
CAMK1D	165.1231175	-0.360385509	0.070526089	-5.109960176	3.22E-07	1.00E-05
CNNM3	387.635786	-0.447981986	0.087706251	-5.107754361	3.26E-07	1.01E-05
STX11	1826.245144	0.294338763	0.057677838	5.103151815	3.34E-07	1.04E-05
CASP4	2897.767741	0.435191748	0.085493794	5.090331415	3.57E-07	1.11E-05
GADD45G	351.6952299	0.483568925	0.095074238	5.086224544	3.65E-07	1.13E-05
MARCO	4083.971195	-0.331830235	0.065256218	-5.085036231	3.68E-07	1.14E-05
H2AFY2	46.3910342	-0.72064182	0.141795612	-5.082257539	3.73E-07	1.15E-05
SH2B2	225.2413388	0.400536874	0.07884149	5.080280395	3.77E-07	1.16E-05
TRIM65	210.8887499	-0.380722884	0.074943352	-5.080142193	3.77E-07	1.16E-05
DHRX	544.6111666	-0.234512573	0.046227891	-5.072967167	3.92E-07	1.20E-05
ULK1	111.2108179	-0.535041145	0.105674871	-5.063087743	4.13E-07	1.27E-05
RAI14	41.77960666	0.885618728	0.175113046	5.057411462	4.25E-07	1.30E-05
PANX1	179.9890684	0.496644622	0.098277134	5.053511456	4.34E-07	1.33E-05
NMT2	171.4437237	-0.489219552	0.096869011	-5.050320507	4.41E-07	1.34E-05
ZDHC7	548.8111359	-0.312012881	0.061777716	-5.050573309	4.40E-07	1.34E-05
FCAR	335.551716	0.739080093	0.14646131	5.046248008	4.51E-07	1.37E-05
RAP2B	563.0247364	-0.42236995	0.083726527	-5.044637146	4.54E-07	1.38E-05
ZAK	476.530189	0.464464794	0.092094461	5.043352112	4.57E-07	1.39E-05
GTF3A	1722.838164	-0.278791761	0.055291241	-5.042240982	4.60E-07	1.39E-05
MRPS26	271.0666018	-0.407401274	0.080880689	-5.037064822	4.73E-07	1.43E-05
ACOX3	154.738774	0.422001565	0.083802864	5.035646069	4.76E-07	1.44E-05
CYBRD1	32.40006941	-0.743479146	0.14775285	-5.031910682	4.86E-07	1.46E-05
TARP	76.84692531	0.885672077	0.176069062	5.030253845	4.90E-07	1.47E-05
CD48	125.9295998	-0.647795872	0.128876285	-5.026493982	5.00E-07	1.50E-05
IFI30	77076.11511	-0.2549052	0.050709197	-5.026804128	4.99E-07	1.50E-05
TSPAN15	207.8787835	-0.42464202	0.084481499	-5.026449861	5.00E-07	1.50E-05
AKAP12	41.84021847	1.105392719	0.219997908	5.024560146	5.05E-07	1.51E-05
KCTD17	314.5016128	-0.47517837	0.094584839	-5.023832335	5.07E-07	1.51E-05
RAC2	7212.780328	0.36654479	0.072981495	5.022434634	5.10E-07	1.52E-05
CECR1	2980.020053	-0.295677483	0.058896779	-5.020265772	5.16E-07	1.54E-05
FCGR3A	3174.608382	-0.397640219	0.079352764	-5.011044327	5.41E-07	1.61E-05
AOC3	481.4724227	-0.514612764	0.102704862	-5.01059789	5.43E-07	1.61E-05
HELZ2	78.30910201	0.921235118	0.183870636	5.010235131	5.44E-07	1.61E-05
GFPT1	281.7911202	0.342278752	0.068329796	5.009216625	5.47E-07	1.62E-05
ACSL1	4133.283368	-0.485349717	0.097039929	-5.001546497	5.69E-07	1.68E-05
ADA	119.3660912	-0.834595258	0.167458317	-4.983898507	6.23E-07	1.84E-05

SLC7A5	350.8088739	0.38440025	0.077229061	4.977404144	6.44E-07	1.90E-05
HEXB	3329.189183	-0.339740357	0.068344807	-4.970975449	6.66E-07	1.96E-05
PNP	1197.557229	0.405731679	0.081663254	4.968350611	6.75E-07	1.98E-05
ADD3	79.98967939	-0.458089115	0.092445004	-4.955260886	7.22E-07	2.12E-05
KCNK13	36.05918329	0.708620777	0.143098352	4.951984182	7.35E-07	2.15E-05
CABLES1	205.4604406	-0.584442834	0.118098154	-4.948788905	7.47E-07	2.18E-05
RFTN1	287.209683	0.35540323	0.07182432	4.948229638	7.49E-07	2.19E-05
PSMB9	1403.814993	0.728954379	0.147358812	4.946798693	7.54E-07	2.20E-05
MLLT6	1085.979488	0.291734226	0.059094333	4.936754726	7.94E-07	2.31E-05
IRF5	2241.903136	0.307269094	0.062270621	4.934415091	8.04E-07	2.34E-05
NLRP12	22.55840237	-0.898678633	0.182428918	-4.926185184	8.39E-07	2.43E-05
TSPAN33	59.51910694	-0.579047534	0.117628444	-4.922682913	8.54E-07	2.47E-05
MBNL2	800.7498483	-0.400551364	0.08152021	-4.913522234	8.95E-07	2.59E-05
DPH3	651.2895312	0.248395706	0.050562982	4.912599966	8.99E-07	2.60E-05
LOC64383	156.6024116	0.393513157	0.080117176	4.911720246	9.03E-07	2.60E-05
CSF3R	155.6499593	-0.555323042	0.113076024	-4.911059146	9.06E-07	2.61E-05
TEX30	186.1223676	0.514177735	0.104727369	4.909678743	9.12E-07	2.62E-05
CD44	595.3180082	0.468115679	0.095351259	4.909381196	9.14E-07	2.62E-05
FXR2	1004.375592	0.239784814	0.048845417	4.909054509	9.15E-07	2.62E-05
CSF2RB	2669.151328	0.391143688	0.079721425	4.906381033	9.28E-07	2.66E-05
CXADR	105.613092	-0.972529153	0.198346728	-4.903177206	9.43E-07	2.70E-05
TPCN1	43.33202687	-1.033943415	0.211052943	-4.898976526	9.63E-07	2.75E-05
ATP2A2	1756.578916	0.502631253	0.102608221	4.898547607	9.65E-07	2.75E-05
TNIP1	6284.699141	0.36906947	0.075428269	4.89298609	9.93E-07	2.83E-05
AFF4	1044.136453	0.289075847	0.059125457	4.88919426	1.01E-06	2.87E-05
RAP2C	778.8758177	0.432765825	0.088521951	4.888796703	1.01E-06	2.87E-05
TIMP2	5291.759892	-0.441016882	0.090204804	-4.889062048	1.01E-06	2.87E-05
KLHDC2	286.366289	-0.338603471	0.069289756	-4.886775345	1.03E-06	2.90E-05
FAM162A	354.6295597	-0.254773967	0.052146552	-4.885729845	1.03E-06	2.91E-05
NME3	164.7748754	-0.536475179	0.10993785	-4.87980416	1.06E-06	3.00E-05
SLC50A1	671.4420881	0.300130059	0.061520794	4.878514074	1.07E-06	3.01E-05
TRAPPC6A	73.2817117	-0.577546766	0.118393618	-4.878191718	1.07E-06	3.01E-05
DNAJB9	398.1817454	0.450154877	0.092359619	4.873936064	1.09E-06	3.07E-05
SORT1	2968.227292	0.508711796	0.104405126	4.872479137	1.10E-06	3.09E-05
MSRB2	228.1041061	-0.483135099	0.099186861	-4.870958632	1.11E-06	3.11E-05
PVR	1023.195105	0.464544957	0.095403263	4.869277431	1.12E-06	3.13E-05
PARP14	1692.57793	0.41960048	0.086267214	4.863962321	1.15E-06	3.21E-05
GFPT2	46.93570779	1.073308595	0.22083849	4.860151845	1.17E-06	3.27E-05
ADAMTS1	44.64490709	-0.958115674	0.197519493	-4.850739836	1.23E-06	3.42E-05
DDX60	331.1640984	0.582690451	0.12014975	4.849701749	1.24E-06	3.44E-05
ZNF652	109.6457945	-0.622591621	0.128476511	-4.84595678	1.26E-06	3.50E-05
MX1	1934.447958	0.794123067	0.163982849	4.842720273	1.28E-06	3.55E-05
A2M	476.2690543	-0.462283459	0.095499401	-4.84069488	1.29E-06	3.58E-05
C7orf57	6.628351815	2.17305441	0.448923645	4.840588005	1.29E-06	3.58E-05
EYA3	685.9706968	0.492576413	0.101883926	4.834682274	1.33E-06	3.68E-05
NSUN3	335.7069125	0.288795486	0.059889346	4.822151307	1.42E-06	3.91E-05
HPS5	1232.650397	0.255172693	0.052925907	4.821319277	1.43E-06	3.93E-05

C5orf15	1029.356603	0.385348344	0.079962524	4.819111784	1.44E-06	3.96E-05
SCCPDH	1427.133405	-0.381762479	0.079222782	-4.818847141	1.44E-06	3.96E-05
#N/A	1131.204124	0.472785516	0.098213818	4.813839086	1.48E-06	4.06E-05
TGFBI	2216.808555	-0.526782305	0.109490718	-4.811205123	1.50E-06	4.11E-05
POLR3D	275.1218008	0.378732468	0.078727987	4.81064591	1.50E-06	4.11E-05
FAM110A	108.5369112	-0.43316353	0.090050088	-4.810251073	1.51E-06	4.11E-05
LNPEP	53.0883327	0.86649185	0.180271578	4.806591596	1.54E-06	4.18E-05
CLSTN3	74.82286959	0.529248483	0.110141764	4.805157131	1.55E-06	4.20E-05
RPS6KA3	1718.14273	0.382586907	0.079619078	4.805216494	1.55E-06	4.20E-05
IFI27	1792.601199	0.492947975	0.102732125	4.798381961	1.60E-06	4.34E-05
TK2	272.4907558	-0.337727207	0.070411966	-4.79644618	1.62E-06	4.38E-05
OAS2	631.7737248	0.881944802	0.183986735	4.793523838	1.64E-06	4.43E-05
NOV	12.51545495	-1.409971635	0.29447817	-4.788034499	1.68E-06	4.55E-05
ATL1	98.34285566	0.528915358	0.110526849	4.785401579	1.71E-06	4.60E-05
PHLDA3	390.5677799	-0.46389134	0.097055985	-4.779626342	1.76E-06	4.73E-05
NDRG1	1314.47178	0.387723344	0.081137678	4.778585637	1.77E-06	4.75E-05
ITGAM	568.4355328	0.543595689	0.113786202	4.777342755	1.78E-06	4.76E-05
NPC1	2717.269325	0.387795994	0.081171986	4.777460935	1.78E-06	4.76E-05
PGM5	101.571914	-0.708262604	0.148252795	-4.777397971	1.78E-06	4.76E-05
HAMP	17.68375148	-1.211596259	0.253639375	-4.776846097	1.78E-06	4.76E-05
FAM214A	125.1634609	-0.414703681	0.086834008	-4.775821031	1.79E-06	4.78E-05
TMTC3	194.5040885	0.433344044	0.090771095	4.774031234	1.81E-06	4.82E-05
BRD3	337.9185263	-0.33951315	0.071174405	-4.770157928	1.84E-06	4.91E-05
CERS6	897.3877508	0.244913382	0.051357485	4.768796252	1.85E-06	4.93E-05
CXCL11	149.7027114	2.209001708	0.4633564	4.767392247	1.87E-06	4.96E-05
OXER1	52.53258244	-0.753714503	0.158144452	-4.765987626	1.88E-06	4.99E-05
GNA15	1671.940942	0.391814954	0.082232432	4.764725336	1.89E-06	5.01E-05
STAU1	243.80211	0.487542523	0.102332579	4.764294276	1.90E-06	5.02E-05
TCEB2	3250.961023	-0.347874374	0.073025582	-4.763733002	1.90E-06	5.02E-05
MFNG	367.5225441	-0.374469402	0.078673197	-4.759809147	1.94E-06	5.11E-05
BATF3	95.41726773	0.738083735	0.155093447	4.758961431	1.95E-06	5.13E-05
ICK	142.2306772	-0.318028269	0.066830615	-4.758721255	1.95E-06	5.13E-05
SFPQ	1345.479006	0.272111985	0.057215786	4.755889976	1.98E-06	5.19E-05
ELL	173.9854743	0.432622729	0.091018664	4.753121051	2.00E-06	5.25E-05
VAMP5	146.2152356	1.029684799	0.216628288	4.753233332	2.00E-06	5.25E-05
SERTAD1	478.6481213	0.381172429	0.080213551	4.751970499	2.01E-06	5.26E-05
TMEM223	94.08480905	-0.497049235	0.104590286	-4.752346075	2.01E-06	5.26E-05
ZNF552	59.70831547	-0.622984407	0.131100622	-4.751956156	2.01E-06	5.26E-05
BTN2A2	335.5581369	0.485110336	0.102094306	4.751590519	2.02E-06	5.26E-05
SPTSSA	354.3493038	-0.28085427	0.059140959	-4.748896138	2.05E-06	5.32E-05
RPL23	6896.028424	-0.250079446	0.052751602	-4.74069863	2.13E-06	5.54E-05
CDC37	1552.448952	0.339695052	0.071704062	4.737459002	2.16E-06	5.62E-05
LIMK1	5259.325024	0.254181749	0.053663204	4.73661145	2.17E-06	5.64E-05
RAP2A	1921.810986	0.34618031	0.073174563	4.73088318	2.24E-06	5.79E-05
C1orf233	53.51675429	-0.842737298	0.178214702	-4.728775387	2.26E-06	5.84E-05
DDX21	496.9603015	0.408266969	0.086339644	4.728615406	2.26E-06	5.84E-05
EPB41	279.2172158	-0.392373334	0.083012045	-4.726703644	2.28E-06	5.89E-05

SOWAHD	170.8361787	-0.449306318	0.095103362	-4.724399945	2.31E-06	5.94E-05
ARAP3	88.12429198	0.620810896	0.131421671	4.723809174	2.31E-06	5.95E-05
FLVCR2	2071.076343	0.617071647	0.130664447	4.722567333	2.33E-06	5.98E-05
HADH	168.406961	-0.516643667	0.109501124	-4.718158583	2.38E-06	6.11E-05
PCED1B-AS	167.5749752	-0.394796243	0.083688882	-4.717427632	2.39E-06	6.12E-05
BZW1	3858.040014	0.262113392	0.05557661	4.71625368	2.40E-06	6.15E-05
DUSP1	3386.56126	0.4180785	0.088658852	4.71558669	2.41E-06	6.16E-05
LPP	372.1820126	0.424745206	0.090082521	4.715067936	2.42E-06	6.17E-05
ERGIC2	1125.247885	0.293073444	0.062199833	4.711804378	2.46E-06	6.25E-05
GTF2IRD2E	80.91413138	-0.437516725	0.092854072	-4.711874403	2.45E-06	6.25E-05
S100A8	143.3934268	-0.889732616	0.188845577	-4.711429463	2.46E-06	6.25E-05
FRAT1	99.19170236	-0.606583648	0.128777027	-4.710340525	2.47E-06	6.28E-05
ECH1	1204.489599	-0.37296686	0.079197738	-4.709312055	2.49E-06	6.29E-05
METTL1	464.7654202	0.457680916	0.097183154	4.709467635	2.48E-06	6.29E-05
SPHK1	1090.807783	0.357811489	0.076028973	4.706251765	2.52E-06	6.38E-05
RBP4	3057.319981	-0.362910177	0.077121965	-4.705665581	2.53E-06	6.39E-05
MRI1	122.6604284	-0.511955994	0.108854877	-4.70310573	2.56E-06	6.46E-05
BBS2	668.9773197	-0.39753921	0.084544898	-4.702107622	2.57E-06	6.48E-05
CTSK	23.8890295	-0.857130066	0.182426614	-4.698492438	2.62E-06	6.59E-05
SLC35B4	268.8925482	0.516369764	0.109968955	4.695595818	2.66E-06	6.68E-05
LOC28597:	24.85057112	1.434648652	0.305555105	4.695220698	2.66E-06	6.68E-05
SLC35E3	614.6724203	-0.336780257	0.071738808	-4.694533771	2.67E-06	6.69E-05
RNF141	111.416284	-0.458174375	0.097817525	-4.683970239	2.81E-06	7.04E-05
IVNS1ABP	1535.089382	0.406868849	0.086869759	4.683664997	2.82E-06	7.04E-05
PLA1A	34.73254377	0.972788532	0.207722747	4.68311029	2.83E-06	7.05E-05
STAT2	1274.770242	0.467582839	0.099906451	4.68020669	2.87E-06	7.14E-05
MYO1G	160.1808302	0.538952768	0.115233504	4.677049206	2.91E-06	7.24E-05
IGFBP3	19.17631277	1.375556804	0.294187448	4.675783464	2.93E-06	7.28E-05
PINK1	462.1317752	-0.390819453	0.083594721	-4.675169065	2.94E-06	7.29E-05
OTUD4	634.9188233	0.344208878	0.073630385	4.674821092	2.94E-06	7.30E-05
B3GNT2	235.5970275	-0.289590297	0.062013616	-4.669785693	3.02E-06	7.47E-05
SGMS1	1225.959535	0.292852514	0.06275191	4.666830261	3.06E-06	7.56E-05
SLC39A14	48.46953894	0.865046119	0.185407977	4.665635926	3.08E-06	7.60E-05
DCAF4	97.38862924	-0.463683436	0.099448548	-4.662546051	3.12E-06	7.70E-05
ZNF763	33.66395726	-0.606839939	0.130180712	-4.661519583	3.14E-06	7.73E-05
LOXHD1	7.073772321	2.020308116	0.43366435	4.658690792	3.18E-06	7.83E-05
CTNNBIP1	110.9451617	-0.520895204	0.11191068	-4.654562045	3.25E-06	7.97E-05
XYLT2	187.1249365	-0.44960957	0.096591952	-4.654731193	3.24E-06	7.97E-05
DNM2	1477.598997	0.325988795	0.070083039	4.65146492	3.30E-06	8.08E-05
ADAM19	21.88408528	1.104673148	0.237532722	4.650614611	3.31E-06	8.10E-05
MDM4	363.5208388	0.348345192	0.074941689	4.648216457	3.35E-06	8.19E-05
THYN1	81.40438903	-0.505428672	0.108775005	-4.646551587	3.38E-06	8.24E-05
SLC24A4	27.78064021	-1.027594146	0.221175983	-4.64604761	3.38E-06	8.25E-05
STOX2	16.49843946	-1.121873846	0.241711006	-4.641385037	3.46E-06	8.43E-05
IFITM1	377.5448165	0.758343633	0.163426464	4.640274382	3.48E-06	8.46E-05
CBX7	66.60411163	-0.838476902	0.180757335	-4.638688124	3.51E-06	8.52E-05
DTX3L	1009.305957	0.396070532	0.085430731	4.636159912	3.55E-06	8.61E-05

PIP5K1C	1143.230444	0.353421941	0.076258428	4.63452959	3.58E-06	8.67E-05
TUBB6	2003.660607	0.321167116	0.069370856	4.629712466	3.66E-06	8.86E-05
PTPN22	468.8537879	-0.383903863	0.083029182	-4.623722085	3.77E-06	9.11E-05
FAM168A	275.753335	-0.453003345	0.097993419	-4.622793569	3.79E-06	9.14E-05
FOSL1	145.5620925	0.473535256	0.10265225	4.613004179	3.97E-06	9.57E-05
PLEK	3241.240683	0.460186422	0.099972985	4.603107745	4.16E-06	0.000100239
GDF15	597.1930823	0.594277615	0.129140206	4.601801657	4.19E-06	0.000100744
MB21D1	424.3960701	0.474445439	0.103218399	4.596520047	4.30E-06	0.000103202
MNDA	766.6641386	0.534884145	0.116390023	4.595618505	4.31E-06	0.00010352
RASAL1	18.10169786	-1.020405057	0.222109827	-4.594146374	4.35E-06	0.000104124
RNPEPL1	1834.790934	-0.324407063	0.070628935	-4.593118408	4.37E-06	0.000104508
EPSTI1	415.3518199	0.86832185	0.189076482	4.592437108	4.38E-06	0.00010472
HARS	300.1110359	0.297472282	0.064814115	4.589621926	4.44E-06	0.000106011
SPIN4	290.5769648	0.599779331	0.130799882	4.58547303	4.53E-06	0.000108004
CTSD	53732.99392	-0.292306192	0.063791081	-4.582242338	4.60E-06	0.000109551
TP53INP1	31.46138814	-0.74782928	0.163213916	-4.581896564	4.61E-06	0.000109597
GALNT12	1189.392322	-0.306691781	0.066993271	-4.577949021	4.70E-06	0.000111547
MYO1E	1131.723483	0.283839745	0.06201006	4.577317711	4.71E-06	0.000111747
CXCR7	17.00324674	-1.386304579	0.303241237	-4.571622887	4.84E-06	0.000114686
WARS	10213.07273	0.604723804	0.132374158	4.568291977	4.92E-06	0.000116381
TET2	325.005386	0.329953858	0.07225484	4.566529487	4.96E-06	0.000117219
ANPEP	8882.763053	0.359083235	0.078649636	4.565605802	4.98E-06	0.000117592
LOC10012!	3322.862722	0.485927989	0.106445502	4.565040145	4.99E-06	0.000117765
ISG15	774.2453415	0.742990387	0.162822814	4.563183556	5.04E-06	0.000118667
C21orf91	181.3144083	0.46527941	0.101995951	4.561743915	5.07E-06	0.000119337
ABHD12	1690.992386	-0.335130568	0.073513633	-4.558754005	5.15E-06	0.000120901
RAB39A	158.4191835	0.424172065	0.09313321	4.554466306	5.25E-06	0.000123243
CMSS1	134.4961629	-0.414763678	0.091098502	-4.552914352	5.29E-06	0.000124005
GRAMD1A	1907.888088	0.455302641	0.100016811	4.552261127	5.31E-06	0.00012424
TSPAN13	102.860968	-0.696088146	0.152957964	-4.550846045	5.34E-06	0.000124927
CLCN4	127.463055	-0.568473104	0.125085254	-4.544685202	5.50E-06	0.000128481
GRN	12358.46678	-0.446175468	0.098187415	-4.544120752	5.52E-06	0.000128669
TANC2	383.9950374	-0.40413954	0.088985807	-4.541617981	5.58E-06	0.000130049
C17orf96	23.75433384	0.973056459	0.21428814	4.540878746	5.60E-06	0.000130349
PLEKHM3	1290.616251	0.24451204	0.053887545	4.537449941	5.69E-06	0.000132325
MYO5A	1735.792087	-0.257362122	0.056726248	-4.536914257	5.71E-06	0.000132343
TNFSF10	93.01260559	1.329133519	0.292953425	4.537013067	5.71E-06	0.000132343
ZYG11B	213.555178	-0.347910119	0.076714083	-4.535153181	5.76E-06	0.000133291
CLEC2D	147.5314436	0.825075859	0.182341637	4.524890054	6.04E-06	0.000139758
DESI1	809.175795	0.484326471	0.107104534	4.521997829	6.13E-06	0.000141512
ABCC5	112.6521512	-0.431946199	0.095648205	-4.515988536	6.30E-06	0.000145411
RNF130	6080.357408	-0.378387058	0.083800111	-4.515352685	6.32E-06	0.000145674
NDUFV2	800.1824546	0.601709124	0.133300697	4.51392332	6.36E-06	0.000146484
CASP1	946.327503	0.536443266	0.118905371	4.511514157	6.44E-06	0.000147805
STIP1	4252.333154	0.241764916	0.053587331	4.511605858	6.43E-06	0.000147805
MS4A6E	17.68525588	-0.963836669	0.21374789	-4.509221919	6.51E-06	0.000149233
FKBP5	1214.323911	0.473313595	0.104994893	4.507967796	6.55E-06	0.000149904

UXS1	1842.050131	0.273561906	0.06068681	4.507765449	6.55E-06	0.000149904
ME3	38.04566864	-0.636176953	0.141146959	-4.507195593	6.57E-06	0.000150129
S1PR1	9.30155066	-1.550574319	0.344404565	-4.502188642	6.73E-06	0.000153528
BCS1L	99.145986	-0.384732583	0.085516521	-4.498926997	6.83E-06	0.000155718
CLDN1	40.87231792	0.805909538	0.179190892	4.497491635	6.88E-06	0.000156587
SECTM1	301.3366837	0.899924944	0.200153362	4.496176999	6.92E-06	0.000157186
XAF1	143.3650222	0.878568126	0.195398079	4.496298689	6.91E-06	0.000157186
NAMPT	8044.64053	0.361722152	0.080492952	4.493836324	7.00E-06	0.000158738
GSDMD	1027.88199	0.411637323	0.091653496	4.49123426	7.08E-06	0.000160478
TNS1	153.6528039	-0.730662804	0.162694411	-4.491013552	7.09E-06	0.000160478
CLEC1A	31.72050067	0.935482714	0.208351364	4.489928438	7.12E-06	0.000161109
HIST1H1D	192.5716761	-0.386444434	0.086113403	-4.487622361	7.20E-06	0.000162671
CD22	81.35018381	-0.539608649	0.120261449	-4.486962791	7.22E-06	0.000162984
AIF1	869.0312957	-0.493826301	0.110125356	-4.484219805	7.32E-06	0.000164902
ZNF276	144.4160793	0.39843854	0.088962305	4.47873444	7.51E-06	0.000168998
SERPINF2	37.46665712	-0.577224878	0.12902735	-4.473662953	7.69E-06	0.000172857
SAMD8	198.0236792	0.391287616	0.087564137	4.46858302	7.87E-06	0.000176806
GPX1	8796.179202	-0.363652417	0.081446716	-4.464911969	8.01E-06	0.000179655
WIP1	231.0091751	-0.326167591	0.07308683	-4.462740998	8.09E-06	0.000181275
SLC30A7	938.8878328	0.483188969	0.108441977	4.455737378	8.36E-06	0.000187078
IRF1	1319.116199	0.662942035	0.148836996	4.454148174	8.42E-06	0.00018825
TSTD3	9.086655264	-1.094486931	0.245938428	-4.450247721	8.58E-06	0.00019148
DYNLT1	875.411469	0.450536789	0.10128272	4.448308565	8.65E-06	0.000192993
MMP14	8255.932036	0.221300297	0.049758768	4.447463375	8.69E-06	0.000193529
IL1RAP	79.25260858	0.884063573	0.198813108	4.446706663	8.72E-06	0.000193988
KLF11	633.7455927	-0.256706835	0.05774732	-4.445346281	8.78E-06	0.000194994
CPT1B	170.5105202	0.411524747	0.092581822	4.444984336	8.79E-06	0.000195098
DOCK10	579.6929988	0.317548799	0.071459544	4.443756284	8.84E-06	0.000195989
DNAJC18	36.61502749	0.746467152	0.168067383	4.441475438	8.93E-06	0.000197851
LPCAT1	617.0198323	-0.310192186	0.069954907	-4.434173381	9.24E-06	0.000204441
LRG1	32.15614857	0.851001484	0.192038093	4.431420207	9.36E-06	0.000206832
TOR1B	788.8507747	0.397928526	0.089880275	4.427317633	9.54E-06	0.000210563
MCL1	3511.618081	0.270579399	0.061123321	4.426778396	9.57E-06	0.000210848
CLU10S	96.34426902	1.19773288	0.271106498	4.41794235	9.96E-06	0.000219401
ARFGAP3	1045.63191	0.327554703	0.074149468	4.41749229	9.99E-06	0.000219607
HMGB2	337.5102778	-0.382428882	0.086602402	-4.415915422	1.01E-05	0.000220962
C10orf54	141.2365568	-0.484674133	0.109784143	-4.414791795	1.01E-05	0.00022186
KIF3C	25.92559011	-0.727752239	0.164910499	-4.413013376	1.02E-05	0.000223429
SLC18B1	26.2885797	-0.599551461	0.135867215	-4.412775097	1.02E-05	0.000223429
AMICA1	40.17970967	-0.925493158	0.210044378	-4.406179139	1.05E-05	0.000230077
LRRC45	83.36242162	-0.499218386	0.113324456	-4.405213187	1.06E-05	0.000230842
FAM216A	7.185021212	-1.0971275	0.249081907	-4.404685651	1.06E-05	0.000231143
PWWP2B	88.70477462	-0.494421572	0.112266545	-4.403997375	1.06E-05	0.000231615
HADHA	2483.003464	-0.189444464	0.043048737	-4.400697349	1.08E-05	0.000234901
TNFRSF10A	204.0741069	0.364149531	0.082770061	4.399531967	1.08E-05	0.000235899
LGR4	12.6341925	-0.901062256	0.20490487	-4.397466283	1.10E-05	0.000237886
RASSF8	257.5504622	-0.269050255	0.061227014	-4.394306294	1.11E-05	0.000241101

VWA7	30.41994525	-0.604033735	0.137474053	-4.393801764	1.11E-05	0.000241389
CAMP	93.06657405	-0.576299988	0.131177287	-4.393290937	1.12E-05	0.000241686
SLAMF7	5431.856251	0.592460402	0.134863576	4.393034934	1.12E-05	0.000241699
PKD2	330.1275487	-0.401863089	0.091501025	-4.391897148	1.12E-05	0.000242695
PNPLA1	81.23318981	0.866249765	0.197250185	4.391629679	1.13E-05	0.000242722
OSGIN2	973.5311731	0.323407062	0.073749806	4.38519202	1.16E-05	0.000249733
KIAA0247	2029.976356	0.235463687	0.053748009	4.38088202	1.18E-05	0.00025444
FCRLA	16.84028029	1.232499734	0.281371992	4.380321318	1.19E-05	0.000254811
SPARC	2264.546515	-0.461967543	0.105571843	-4.375859415	1.21E-05	0.00025979
STAT3	1772.353987	0.302029478	0.069049437	4.374104845	1.22E-05	0.000261597
MAPRE3	30.74918206	1.029611699	0.235531064	4.371447585	1.23E-05	0.000264507
HIVEP2	104.2676799	0.603462309	0.138142296	4.368410872	1.25E-05	0.000267913
MFSD3	75.12722744	-0.521335279	0.119357908	-4.367831894	1.25E-05	0.000268326
CCRL2	2645.468964	0.37246908	0.085354072	4.363811492	1.28E-05	0.000273004
TMEM217	14.41863269	1.06597794	0.244312552	4.363173044	1.28E-05	0.000273499
ACBD4	52.10906905	-0.500268008	0.114665209	-4.362857835	1.28E-05	0.000273591
PKD2L1	17.41570401	-1.274447117	0.292195948	-4.361618031	1.29E-05	0.000274842
H2AFZ	3002.593197	-0.218960585	0.050209968	-4.360898723	1.30E-05	0.000275443
LOC10050!	52.88216066	-0.564668679	0.129521362	-4.359656758	1.30E-05	0.000276705
MTSS1	62.95068121	0.556355081	0.127676016	4.35755357	1.32E-05	0.000279069
TMEM167	768.697298	0.210093493	0.048231592	4.355931162	1.33E-05	0.000280835
PTPRE	2970.997911	0.387967587	0.089076026	4.355465851	1.33E-05	0.000281123
HTR7	3.691382812	2.099950323	0.482358501	4.353505367	1.34E-05	0.000283339
CRIP1	372.6910359	-0.401530052	0.092265867	-4.351880757	1.35E-05	0.000285134
CTSL1	37553.32514	0.266657695	0.06131002	4.34933307	1.37E-05	0.000288151
DDX60L	2150.373112	0.440937692	0.101451544	4.346288615	1.38E-05	0.000291857
EIF1AY	168.2860919	0.384812195	0.088554554	4.345481722	1.39E-05	0.000292612
SOWAHC	540.9053893	0.398595152	0.09181463	4.341303261	1.42E-05	0.000297908
CRTAP	833.4674057	-0.402215328	0.092724286	-4.337756018	1.44E-05	0.000301767
PIP5K1A	204.995635	0.300539648	0.069282652	4.337877369	1.44E-05	0.000301767
TRIB1	717.0514742	0.433132283	0.099850733	4.337797736	1.44E-05	0.000301767
C3orf52	21.72206545	0.752616848	0.173521843	4.337303221	1.44E-05	0.000302061
INPP5D	236.634875	-0.42859103	0.098823112	-4.336951366	1.44E-05	0.000302216
STRN3	495.2042534	0.301262096	0.069467886	4.336710276	1.45E-05	0.000302219
TFCP2L1	173.5493367	-0.366063173	0.084418058	-4.336313581	1.45E-05	0.000302437
FDXR	32.90533927	-0.513010288	0.118459794	-4.330670105	1.49E-05	0.000309958
ARHGAP9	274.1416435	0.401764776	0.092817944	4.328524843	1.50E-05	0.000312316
IL24	9.851646527	1.977969344	0.456946313	4.328669005	1.50E-05	0.000312316
SERPINB6	1099.864157	-0.20546339	0.047488403	-4.326601334	1.51E-05	0.000314715
SEMA4B	196.6569697	0.38723405	0.089544826	4.324471515	1.53E-05	0.000317428
HSPA5	6765.582214	0.2990253	0.069152977	4.324113163	1.53E-05	0.000317602
FAM102B	420.8265638	-0.335643873	0.077638113	-4.323184315	1.54E-05	0.0003186
FAM26F	73.37588688	1.405575916	0.325334351	4.320404262	1.56E-05	0.000322294
IL27	34.39352108	1.010674595	0.23398891	4.319326908	1.57E-05	0.000323524
MSI2	40.75860992	-0.50991444	0.118071991	-4.318674002	1.57E-05	0.000324134
ANTXR2	190.3979487	0.463495502	0.107425887	4.314560641	1.60E-05	0.000329875
SLC11A2	1178.009261	0.412635336	0.095705379	4.311516649	1.62E-05	0.000334092

TBC1D8	317.4634065	-0.475229786	0.110264598	-4.309903586	1.63E-05	0.000336179
ASTL	62.843944	0.726212658	0.168544016	4.308741861	1.64E-05	0.000337229
LRMP	39.98255133	-0.887460292	0.205963459	-4.30882398	1.64E-05	0.000337229
FEM1C	151.2279987	0.319532769	0.074199435	4.306404364	1.66E-05	0.000340447
SEMA6B	2366.822054	-0.577585396	0.134225655	-4.303092415	1.68E-05	0.000345211
CD300A	317.027019	0.415136185	0.09651746	4.301151163	1.70E-05	0.000347879
KIF16B	399.9112615	-0.305378384	0.071015977	-4.300136357	1.71E-05	0.000349105
PSAP	77407.70055	-0.266411072	0.061997964	-4.297093898	1.73E-05	0.000353528
STOM	4206.911811	0.289611195	0.067400414	4.296875628	1.73E-05	0.000353528
ZFAND5	4379.023501	0.324797973	0.075604301	4.296025084	1.74E-05	0.000354511
SQRDL	2092.955301	0.282167874	0.065703561	4.294559869	1.75E-05	0.000356483
NUS1	1772.467491	0.391180808	0.091100317	4.293956617	1.76E-05	0.000357076
LOC40139	794.4169302	0.31137221	0.072557011	4.291414538	1.78E-05	0.000360808
GPR85	76.08422728	0.667730636	0.155638395	4.290269364	1.78E-05	0.000362291
GNGT2	30.83306178	-0.99115656	0.231106071	-4.288751729	1.80E-05	0.000364391
HIF1A	2210.59553	-0.249928317	0.058298878	-4.28701761	1.81E-05	0.00036686
ADM	1454.872909	0.547160902	0.127663584	4.285959132	1.82E-05	0.000368224
SSPN	22.1569046	-1.106469501	0.258322021	-4.283295313	1.84E-05	0.000372271
NRP1	4303.183349	0.278455966	0.065023253	4.282405978	1.85E-05	0.000373371
ACP6	95.34546798	-0.580804226	0.135712397	-4.279669654	1.87E-05	0.000377595
RPS6KA2	475.2754318	-0.382154459	0.089308177	-4.279053394	1.88E-05	0.000378246
TTC4	1052.940885	0.328973943	0.076930514	4.276247845	1.90E-05	0.000382642
VCAN	71.80134858	0.987159889	0.230972583	4.273926706	1.92E-05	0.000386245
PLBD2	1610.248573	-0.348519496	0.081557228	-4.273312166	1.93E-05	0.000386908
SCN1B	29.90494398	1.035588528	0.242401595	4.272201794	1.94E-05	0.000388435
ITGB8	4079.486615	0.488569759	0.114418387	4.270028376	1.95E-05	0.000391832
CTBS	504.3465843	-0.234115462	0.054868389	-4.266855013	1.98E-05	0.000397032
FAM19A4	13.61623197	-0.857519224	0.200996884	-4.266330926	1.99E-05	0.000397552
NTPCR	126.6402398	-0.276756818	0.064901956	-4.264229232	2.01E-05	0.000400896
MCOLN1	2246.847273	0.267684773	0.062852229	4.258954358	2.05E-05	0.000410047
CORO6	10.24172468	-1.211844727	0.284727674	-4.25615364	2.08E-05	0.000414785
ACOT13	1538.957492	-0.318331213	0.074818099	-4.25473535	2.09E-05	0.000416991
TOMM34	379.6180255	0.285477588	0.067182785	4.249266974	2.14E-05	0.00042686
CUTA	442.0547365	-0.239742128	0.056431042	-4.248408708	2.15E-05	0.000428056
GPRC5B	28.97182991	0.885270345	0.208630962	4.243235697	2.20E-05	0.000437596
TTYH3	1141.320896	-0.29510912	0.069562061	-4.242386079	2.21E-05	0.000438804
MICA	255.9578088	0.3203199	0.075562752	4.239124341	2.24E-05	0.00044477
HMGN4	188.2577324	-0.336505322	0.079494287	-4.233075519	2.31E-05	0.000456438
LOC28307	169.3099999	-0.45034682	0.106440488	-4.230972898	2.33E-05	0.000459781
TRIM56	139.7162745	0.350881032	0.082929367	4.231082986	2.33E-05	0.000459781
CD99	3059.361282	-0.143894742	0.034018725	-4.229868718	2.34E-05	0.00046157
CES1	23342.11392	-0.252480692	0.059733852	-4.226760602	2.37E-05	0.000467032
LPCAT2	1163.494105	-0.210721465	0.049853717	-4.226795466	2.37E-05	0.000467032
CPE	466.0978349	-0.396758878	0.093957296	-4.222757516	2.41E-05	0.000474922
DST	767.788455	-0.195182524	0.046224224	-4.222515965	2.42E-05	0.000474947
ELMSAN1	261.3562136	-0.246837325	0.058485396	-4.22049508	2.44E-05	0.000478551
RTN4R	27.56986658	-0.930570053	0.220495798	-4.220352775	2.44E-05	0.000478551

FPR1	115.4887873	-0.793472162	0.188173879	-4.216696632	2.48E-05	0.000485667
SNTA1	52.09768379	-0.4972319	0.117923442	-4.216565361	2.48E-05	0.000485667
NTHL1	19.73768206	-0.800408738	0.19003015	-4.212009193	2.53E-05	0.000495066
BLVRB	1737.825008	-0.281602144	0.066906651	-4.208881166	2.57E-05	0.00050146
APBB1P	174.3315688	-0.4356293	0.103723968	-4.199890427	2.67E-05	0.000521264
C2orf71	10.25972748	1.523796105	0.362994487	4.197849163	2.69E-05	0.000525451
NPL	1413.056031	-0.313608129	0.074722025	-4.196997187	2.70E-05	0.000526897
MACF1	983.4592382	0.228512881	0.054471325	4.195104123	2.73E-05	0.000530781
SETD7	473.2457986	-0.246454894	0.058770207	-4.193534526	2.75E-05	0.000533929
CDA	52.7870993	-0.601148142	0.143393181	-4.192306344	2.76E-05	0.000536288
NBEAL2	193.0017536	-0.533910619	0.127381108	-4.191442728	2.77E-05	0.000537791
RHOC	3597.640899	0.295221403	0.070445201	4.190795095	2.78E-05	0.000538786
MTMR9	263.7503533	0.291876618	0.069656202	4.190245922	2.79E-05	0.000539549
MRAS	1309.333959	0.287924833	0.068716967	4.190010798	2.79E-05	0.000539566
NDUFAF3	1190.529021	-0.186272958	0.044467132	-4.18900321	2.80E-05	0.000541424
OR6K6	43.89441193	-0.888096378	0.212060783	-4.187933121	2.82E-05	0.000543437
ALDH7A1	29.86174732	-0.752116725	0.179644257	-4.186700641	2.83E-05	0.000545848
ZNF207	1421.773558	0.273958525	0.065452846	4.185586137	2.84E-05	0.000547985
NT5C3L	316.7547073	-0.255618328	0.061143157	-4.180653103	2.91E-05	0.000559451
CALHM2	150.4620612	-0.490473891	0.117377597	-4.178598834	2.93E-05	0.000563964
EPHX1	2292.184946	-0.33207185	0.079474262	-4.178357158	2.94E-05	0.000564001
HECW2	6.351545872	1.489425763	0.356591199	4.176843865	2.96E-05	0.000567199
IFIH1	456.613956	0.606394393	0.145204384	4.176143831	2.96E-05	0.00056838
FMNL3	3174.249917	0.279723138	0.067000295	4.174953806	2.98E-05	0.000570792
IRF2BPL	797.1642331	0.291977736	0.070003977	4.170873564	3.03E-05	0.000580533
STARD10	268.6752807	-0.291538954	0.069995491	-4.165110499	3.11E-05	0.000594803
NCK1	468.7182594	-0.379240079	0.091134293	-4.161332323	3.16E-05	0.000604132
SAC3D1	16.96040343	-0.942080615	0.226410096	-4.160947902	3.17E-05	0.000604551
MPZL2	47.13010966	-0.930669979	0.223747809	-4.15945964	3.19E-05	0.000607901
HIST1H4E	585.5568304	-0.356555392	0.085771582	-4.157034095	3.22E-05	0.000613782
DUSP23	644.9963291	-0.347587721	0.08362546	-4.156482023	3.23E-05	0.000614659
PDE6G	116.520702	-0.553178619	0.13316765	-4.154001507	3.27E-05	0.000620751
ATPAF1	147.804691	-0.272657775	0.065731181	-4.148073603	3.35E-05	0.000636413
CTNBL1	965.2875882	0.388991407	0.093790997	4.147427986	3.36E-05	0.000636955
SLC46A2	37.60240993	-0.885310375	0.213458562	-4.147457783	3.36E-05	0.000636955
TNFSF13	293.5258559	0.791787935	0.191045806	4.144492628	3.41E-05	0.000644535
FAM50B	19.14101433	-0.73168579	0.176564995	-4.144002546	3.41E-05	0.00064528
FNDC3A	1205.353513	0.344952305	0.083283107	4.141924055	3.44E-05	0.000650519
MARCKS	531.3187144	0.50734949	0.122621445	4.137526582	3.51E-05	0.000662459
NCR3LG1	63.03768361	0.483878985	0.117004003	4.135576326	3.54E-05	0.000667457
SLC43A3	4973.351608	0.372757854	0.090161624	4.134329391	3.56E-05	0.000670435
PSMA3	204.3672659	0.453451624	0.109783764	4.130406989	3.62E-05	0.000681312
GOLT1B	840.8014681	0.276162544	0.066888798	4.128681502	3.65E-05	0.000685774
H2AFY	2330.626323	-0.375606092	0.090980154	-4.12843982	3.65E-05	0.000685826
OAS3	1015.577093	0.616340314	0.149495691	4.122796516	3.74E-05	0.000702168
CXCL6	12.21635332	2.106798884	0.511199286	4.121286825	3.77E-05	0.000706099
H2AFV	1353.017307	-0.27588512	0.066950732	-4.120718473	3.78E-05	0.000707155

B3GNT1	18.63958512	-0.726738285	0.176443539	-4.118814933	3.81E-05	0.000712329
CD163	2239.654622	-0.255068045	0.06197495	-4.115663615	3.86E-05	0.000721432
PPP2R3A	257.1783535	0.288507396	0.070124201	4.114234355	3.88E-05	0.000725213
LAMP3	82.48546006	0.721123731	0.175400139	4.1113065	3.93E-05	0.000733761
ALCAM	2597.735879	0.26683379	0.064912715	4.11065522	3.95E-05	0.000735123
GBP4	714.1789824	0.786818636	0.19147972	4.109148663	3.97E-05	0.000739219
NAB2	269.7528134	0.465085322	0.113279173	4.105656054	4.03E-05	0.000749754
NUDT6	34.46777325	-0.717360648	0.174752654	-4.105005744	4.04E-05	0.000751141
CHST14	54.98078971	-0.61068766	0.148861771	-4.102380722	4.09E-05	0.000758985
PEPD	2798.683946	-0.2992452	0.072961176	-4.101430574	4.11E-05	0.000761375
RAB43	495.081231	0.285700821	0.069698606	4.099089443	4.15E-05	0.000768378
MYO1B	13.348382	1.306498392	0.319072306	4.094678128	4.23E-05	0.000782402
SPRY2	185.2202282	0.469450568	0.114740257	4.091419869	4.29E-05	0.000792717
RNF125	26.72786278	-0.770725351	0.188420336	-4.090457372	4.31E-05	0.00079525
ARHGEF16	11.68702428	-0.970556736	0.237361001	-4.088947776	4.33E-05	0.000798911
GPBP1	699.9604591	0.18263424	0.044664232	4.089049113	4.33E-05	0.000798911
YWHAZ	334.7568555	0.306372601	0.074954534	4.087445854	4.36E-05	0.00080333
BAK1	729.8834563	0.356531934	0.087236608	4.086953214	4.37E-05	0.000804268
CMPK2	464.1374418	0.779939833	0.190866902	4.086302147	4.38E-05	0.000805758
TMEM194	130.2291701	0.956953509	0.234259047	4.085022629	4.41E-05	0.000809439
IRF8	1651.031709	0.310302053	0.076097597	4.07768529	4.55E-05	0.000834608
FSCN1	248.2402893	0.39500576	0.096915163	4.075789045	4.59E-05	0.000840639
RASSF2	42.9167357	-0.781124168	0.191832998	-4.071896787	4.66E-05	0.000854001
ST14	779.2351456	-0.289444816	0.071179077	-4.066431148	4.77E-05	0.000873439
CKAP2	51.94066209	-0.476899713	0.117377635	-4.062952142	4.85E-05	0.000884884
THBD	1595.542256	0.595721698	0.146622545	4.062961095	4.85E-05	0.000884884
FTO	654.140407	-0.229050034	0.056383843	-4.062334532	4.86E-05	0.000885603
MECR	39.50214188	-0.488492735	0.120256209	-4.062099896	4.86E-05	0.000885603
SLC29A1	351.5845776	-0.46841071	0.115307548	-4.06227275	4.86E-05	0.000885603
O3FAR1	148.5069262	-0.612149739	0.150722981	-4.061422713	4.88E-05	0.000887338
SNTB1	986.276622	-0.365732853	0.090093189	-4.059495009	4.92E-05	0.000893851
CCDC28B	18.74379599	-0.874061549	0.215428454	-4.057317085	4.96E-05	0.000901374
CAMKK2	152.4097277	-0.477100849	0.117667557	-4.05465077	5.02E-05	0.000910858
STARD4	57.38179792	0.497684252	0.12287495	4.050331271	5.11E-05	0.000926964
CASC4	521.9261623	-0.286211957	0.070677513	-4.049547639	5.13E-05	0.000928429
DUSP7	558.8602546	0.398628096	0.098438308	4.049522024	5.13E-05	0.000928429
AKR1C3	1230.809764	-0.452963417	0.111869169	-4.049046068	5.14E-05	0.000929446
SLC25A19	625.7810515	-0.254937421	0.063021488	-4.045245992	5.23E-05	0.000943767
PER1	319.6684856	0.372211122	0.092034459	4.044258267	5.25E-05	0.000946867
NUP188	1660.701471	0.366135769	0.090545452	4.043668221	5.26E-05	0.000948366
TCEAL4	401.9577282	-0.331166001	0.081910657	-4.043014829	5.28E-05	0.000950125
SPAG9	1947.208075	0.211243891	0.05228506	4.040234246	5.34E-05	0.000960563
CNIH4	1033.082467	0.217742609	0.053896558	4.040009555	5.34E-05	0.000960587
UBE2L6	949.7464022	0.50421486	0.124857573	4.038320197	5.38E-05	0.000966628
DEPDC1B	10.76139636	1.078660595	0.267187128	4.037097912	5.41E-05	0.000970771
MANF	1282.386287	0.357176787	0.08853221	4.034427555	5.47E-05	0.000980963
RPL30	7025.292765	-0.202828829	0.05028432	-4.0336397	5.49E-05	0.000982432

TMEM150	1994.700158	0.348723206	0.086451114	4.03376187	5.49E-05	0.000982432
LDLRAD4	17.20209468	-1.018344547	0.252531868	-4.032538757	5.52E-05	0.000986132
IFIT2	634.8932803	0.66758958	0.165616274	4.030941918	5.56E-05	0.000991936
IFIT5	207.6108774	0.597458354	0.148258639	4.029838378	5.58E-05	0.000995681
GDPD1	9.807915337	-1.024926916	0.254352774	-4.029548806	5.59E-05	0.000995986
ANKZF1	101.6915201	-0.323216962	0.080262784	-4.026984197	5.65E-05	0.001005235
SRCAP	798.5924641	0.225899435	0.056097035	4.026940719	5.65E-05	0.001005235
PLAGL1	214.4899393	0.434091137	0.107807895	4.026524576	5.66E-05	0.001006086
HAGHL	51.05557083	-0.471447557	0.117129042	-4.025027006	5.70E-05	0.001011576
GPA33	42.59990477	-0.711952506	0.176926501	-4.024001505	5.72E-05	0.001015058
FAM53B	203.498413	-0.404392113	0.100537462	-4.022302769	5.76E-05	0.001020483
FDX1	3604.601859	-0.248242847	0.061719754	-4.022097156	5.77E-05	0.001020483
IFIT1	146.6493269	0.98254252	0.244265286	4.022440256	5.76E-05	0.001020483
WIPI2	1075.096092	-0.243163918	0.060460813	-4.021843316	5.77E-05	0.001020647
CHCHD10	431.9885781	-0.294745415	0.073298445	-4.021168742	5.79E-05	0.001022636
ETV7	11.27622318	1.952644971	0.486082436	4.017106621	5.89E-05	0.001039465
ZNF792	38.91008005	-0.490190349	0.122036707	-4.016745135	5.90E-05	0.001040108
KLHDC3	652.5416986	-0.355921665	0.088756979	-4.010069634	6.07E-05	0.001068978
IDUA	134.9005344	-0.415905409	0.103726668	-4.009628546	6.08E-05	0.001069999
IQGAP3	72.44187793	-0.454481477	0.113365535	-4.008991609	6.10E-05	0.00107191
MFSD1	2058.834027	-0.276553378	0.069005807	-4.007682687	6.13E-05	0.001076884
NLRP2	127.5640112	0.696700149	0.173857371	4.007308665	6.14E-05	0.001077608
MRPL43	536.2321474	-0.231109874	0.057681567	-4.006650391	6.16E-05	0.001079631
ARHGAP5	293.9473142	0.322773474	0.080563929	4.006426691	6.16E-05	0.001079671
IFITM3	411.8585409	0.670076468	0.167290073	4.005476569	6.19E-05	0.001083036
DAXX	1040.058692	0.331992161	0.082892359	4.005099659	6.20E-05	0.00108378
SIGLEC7	43.61106184	-0.585923797	0.14648942	-3.999768697	6.34E-05	0.001107479
BAZ1A	420.6924476	0.346267155	0.086630075	3.997077864	6.41E-05	0.001119124
FICD	359.471088	0.313812238	0.078558847	3.994613591	6.48E-05	0.001129804
AIFM3	27.85822408	-0.697992811	0.174823536	-3.992556302	6.54E-05	0.001138624
LY86	919.0040534	-0.398087691	0.099921261	-3.98401388	6.78E-05	0.001179297
HLA-DOA	586.2919111	0.474026869	0.119039014	3.982113516	6.83E-05	0.001187696
HLTF	144.8883437	-0.481897744	0.121023596	-3.981849486	6.84E-05	0.001187944
FAM102A	40.41973581	-0.487112991	0.122504013	-3.976302335	7.00E-05	0.001214888
PLA2G4A	166.6003537	0.429393875	0.10806428	3.973504225	7.08E-05	0.001227776
ZCCHC24	78.68407365	-0.602921601	0.1517409	-3.973362497	7.09E-05	0.001227776
ZNF385A	914.3926461	-0.333802755	0.084040564	-3.971924239	7.13E-05	0.001234104
SNRPA	626.8182749	0.296408008	0.074682055	3.968932164	7.22E-05	0.001248579
TLR8	325.5808942	-0.543913242	0.137094094	-3.967444738	7.26E-05	0.001255268
ADCY1	7.78367136	-1.545018894	0.389576728	-3.965891144	7.31E-05	0.001260659
SLC46A3	322.8124918	-0.538303827	0.135737045	-3.965784181	7.32E-05	0.001260659
USP30	211.0159926	-0.391094625	0.098617272	-3.965782245	7.32E-05	0.001260659
CDK2AP1	461.3663737	-0.355313333	0.089609942	-3.96511061	7.34E-05	0.001263084
CD69	58.0982609	0.818001084	0.206416343	3.962869769	7.41E-05	0.001273864
PSMA2	1164.243037	0.367516553	0.092760112	3.962010663	7.43E-05	0.001277317
ACAA1	594.4269968	-0.353455218	0.089288836	-3.958560052	7.54E-05	0.001294541
QSOX1	3119.056606	0.25924315	0.065492126	3.958386514	7.55E-05	0.001294541

TRIM36	121.286506	0.380207375	0.096079797	3.957204182	7.58E-05	0.001299806
E2F7	2.87938941	2.145914426	0.542393542	3.956379015	7.61E-05	0.001303142
HIVEP3	128.1528945	0.454045193	0.114855353	3.953191383	7.71E-05	0.001319459
TMTC1	119.8627126	0.474899747	0.120163501	3.952113109	7.75E-05	0.001324244
RARG	89.80370301	0.507564902	0.128463872	3.951032259	7.78E-05	0.001329061
OLFML2B	19.36570263	-0.88207027	0.223320422	-3.949796726	7.82E-05	0.001334757
NTN1	5.03784693	1.888378931	0.478283295	3.948243544	7.87E-05	0.001342255
PROCR	220.955792	0.403357592	0.102168835	3.94795138	7.88E-05	0.001342706
GAB1	155.8318622	-0.276716657	0.070101294	-3.947382992	7.90E-05	0.001344707
TERF2IP	693.9212588	0.186320878	0.047228504	3.945093771	7.98E-05	0.001356421
MAOB	7.420048451	1.922223658	0.487815191	3.940475191	8.13E-05	0.001381586
ARL6IP4	380.0583446	-0.33067894	0.083941082	-3.93941718	8.17E-05	0.001385249
UACA	298.6546993	-0.274506044	0.06967906	-3.93957731	8.16E-05	0.001385249
ABCA7	15.07906674	-0.971143426	0.24657395	-3.938548353	8.20E-05	0.001389051
COQ10B	685.5143187	0.293797182	0.074613662	3.937578916	8.23E-05	0.001393448
CTNNAL1	44.56289796	0.679396075	0.172701613	3.933930111	8.36E-05	0.001413541
CCDC106	95.38699874	-0.607942482	0.154566272	-3.933215664	8.38E-05	0.001415265
SEMA7A	124.8388581	0.391025768	0.099413658	3.933320372	8.38E-05	0.001415265
APMAP	637.0410486	-0.301419809	0.076652232	-3.932303094	8.41E-05	0.001418165
DDX58	869.6807848	0.506009778	0.128677867	3.93237618	8.41E-05	0.001418165
PTPN12	3705.261445	0.400005167	0.101805437	3.929114003	8.53E-05	0.001435846
C5orf4	6.747829316	-1.193236849	0.30396041	-3.925632447	8.65E-05	0.001454547
SLCO4A1	14.03449825	0.965853031	0.246040826	3.925580343	8.65E-05	0.001454547
TMEM106	564.4767052	0.480797352	0.122493012	3.925100244	8.67E-05	0.001456181
SNHG5	583.3094074	-0.363159229	0.092538926	-3.924394239	8.69E-05	0.001459185
ADAR	4006.941164	0.260876508	0.066483729	3.923915086	8.71E-05	0.00146082
NLN	569.1408838	-0.331771559	0.084557689	-3.923611954	8.72E-05	0.001461388
TNFRSF12A	385.5799564	0.338294816	0.086236792	3.922859477	8.75E-05	0.001464688
AVIL	22.10070736	0.872186422	0.222347019	3.92263601	8.76E-05	0.001464775
FBXW5	1020.016241	-0.223198492	0.056913965	-3.921682354	8.79E-05	0.00146931
GUSB	516.179774	-0.361455562	0.092193288	-3.920627746	8.83E-05	0.001474477
FLJ39639	9.956720502	-1.179147051	0.300930596	-3.91833554	8.92E-05	0.001487277
ATN1	1420.822144	0.270464509	0.069089188	3.914715417	9.05E-05	0.001508463
NDEL1	314.0384189	0.391718932	0.100100223	3.913267329	9.11E-05	0.00151623
PELO	602.7016354	0.349186898	0.089288162	3.910786035	9.20E-05	0.001529249
RNF113A	151.3736819	-0.283295497	0.072439093	-3.910809537	9.20E-05	0.001529249
CD52	8775.943444	-0.337745035	0.086464707	-3.906160658	9.38E-05	0.00155746
RBP1	52.1155459	-0.80110272	0.205206797	-3.903880054	9.47E-05	0.001570863
HN1	775.9675373	-0.315340187	0.080801422	-3.902656402	9.51E-05	0.001576366
SMURF1	462.1464674	0.292461861	0.074939921	3.902617667	9.52E-05	0.001576366
ZDHHC24	323.141759	-0.250224274	0.064145206	-3.900903756	9.58E-05	0.001586205
TMEM88	16.10019146	0.89083921	0.228435902	3.899733804	9.63E-05	0.001592521
ISCU	1586.99441	-0.177249491	0.045570169	-3.889594816	0.000100412	0.001659119
C1orf53	9.857473497	-1.121834579	0.288456718	-3.889091528	0.00010062	0.001659716
RAB4B	404.8393384	0.352431189	0.090619104	3.889148915	0.000100596	0.001659716
LAMB2	70.05531207	-0.473309931	0.121750737	-3.88753238	0.000101268	0.001668981
PRPF3	67.15816177	0.57433472	0.147750398	3.887195758	0.000101409	0.001669868

BAZ2B	203.9339681	0.315329934	0.081137358	3.886371732	0.000101754	0.001674113
ZNFX1	1023.135651	0.376397014	0.096899061	3.884423763	0.000102573	0.001686151
CDR2	157.1743972	-0.353033932	0.090896815	-3.883897705	0.000102795	0.001688365
C19orf24	646.5217059	-0.202729093	0.052212783	-3.882748306	0.000103282	0.001693481
MLX	2853.765393	0.218826766	0.056357121	3.882859233	0.000103235	0.001693481
ATP13A2	454.5927613	-0.493563004	0.127129352	-3.882368597	0.000103444	0.001694686
DEFB1	106.3747105	-0.469980483	0.12118567	-3.878185298	0.000105239	0.001721159
IGFBP2	793.4410343	-0.444651395	0.114652696	-3.878246322	0.000105212	0.001721159
ARL4C	28.91858618	-0.959915347	0.247579206	-3.877205043	0.000105663	0.001726641
UBASH3B	1492.977266	-0.407547225	0.105125683	-3.876761736	0.000105856	0.001728322
GLS	3425.169499	0.255947587	0.066060746	3.874427735	0.000106876	0.00174318
LRP12	151.2452675	0.756134765	0.195168557	3.874265275	0.000106947	0.00174318
ACTN1	4644.555846	0.391188316	0.101014621	3.872591018	0.000107684	0.001753718
IGFN1	6.764172492	1.727211864	0.446611993	3.867365614	0.000110017	0.001790199
C14orf1	254.4481005	-0.373791002	0.09668848	-3.865931094	0.000110666	0.001799236
PBX3	469.5137785	-0.310649591	0.080429325	-3.862392129	0.000112282	0.00182397
PNRC2	3183.886708	0.182750283	0.047356818	3.859006799	0.000113849	0.001847861
PCYOX1L	67.29328866	-0.432130296	0.112036149	-3.85706131	0.000114758	0.001861056
PFKP	461.3624438	0.366650532	0.095066018	3.856799102	0.000114882	0.001861486
CCR1	233.2798935	0.473358028	0.122758838	3.85599958	0.000115258	0.001866012
GABARAPL	849.6193203	0.263126758	0.068265682	3.85445145	0.000115989	0.001876282
LOC54147	217.8099076	0.629964398	0.163649607	3.849470898	0.000118373	0.001913237
VGLL4	167.1853063	-0.345049075	0.089738391	-3.845055267	0.000120525	0.001946387
RPL21	8167.009117	-0.210468272	0.054750313	-3.844147413	0.000120972	0.00195197
TRIM62	56.70704925	-0.412936469	0.107484392	-3.841827283	0.000122122	0.001968868
PLK1S1	59.28208319	-0.55058547	0.143345659	-3.840963693	0.000122552	0.001974157
RNF168	262.1901252	-0.391548987	0.101974235	-3.839685444	0.000123192	0.001982805
ST3GAL5	62.84892214	0.415793322	0.108303644	3.839144329	0.000123464	0.001985521
CENPN	197.7185344	0.387565575	0.101014426	3.836734897	0.000124681	0.002003422
HSPA13	719.727465	0.345375496	0.090070812	3.834488538	0.000125826	0.002020134
GPX4	8236.659091	-0.249000464	0.065061492	-3.827155777	0.000129632	0.002079517
DNMT3A	106.2938893	0.484740039	0.126782851	3.823388068	0.00013163	0.002109809
GALC	461.9807995	-0.357714484	0.09367349	-3.818737647	0.000134136	0.002148188
NIN	250.3454908	-0.337882979	0.08862349	-3.81256684	0.000137531	0.002197075
RWDD3	119.6092136	-0.322549714	0.084600273	-3.812632057	0.000137495	0.002197075
USP15	440.854851	0.332530774	0.08721039	3.812972	0.000137306	0.002197075
CPPED1	218.1942385	-0.305780159	0.080233666	-3.811120389	0.000138338	0.002208142
LINC00032	8.812176678	1.208438687	0.317115578	3.810720037	0.000138563	0.00220989
AK4	326.0961391	0.397120817	0.104267289	3.808680741	0.00013971	0.00222635
TRAF3IP2	652.9157663	0.305083701	0.080131259	3.807299469	0.000140493	0.002236967
LPAR1	884.3477387	0.384315241	0.100991247	3.805431194	0.000141557	0.00225206
S100A4	3933.416464	-0.360772562	0.094876283	-3.802557906	0.00014321	0.002276468
PSAT1	113.2909884	-0.507270269	0.133481029	-3.800317352	0.000144511	0.002295257
OTUD1	890.6646572	0.260362317	0.068524488	3.799551442	0.000144958	0.002300465
SEC24D	803.9923273	0.195422488	0.05146862	3.796924975	0.000146502	0.002323053
GALM	76.17230564	-0.548098132	0.144374856	-3.796354474	0.000146839	0.002324577
TNFRSF1B	1267.414128	0.330863385	0.087150616	3.796454919	0.00014678	0.002324577

C2orf66	7.253831915	1.585388807	0.417717311	3.79536295	0.000147428	0.002331971
XIRP1	6.711631799	2.319885819	0.611299325	3.795007983	0.000147639	0.002333394
IBTK	379.7547546	0.321609124	0.084766071	3.794078484	0.000148193	0.002340232
BAIAP2L1	19.46506506	0.845081513	0.223200778	3.786194302	0.000152972	0.002409779
C10orf11	241.687843	-0.370347113	0.097810645	-3.786368166	0.000152865	0.002409779
DPH1	122.3149935	-0.407413556	0.107596227	-3.786504115	0.000152782	0.002409779
ATP13A3	4122.438823	0.357415303	0.094405409	3.785962118	0.000153115	0.00241006
NCOA3	830.1000307	0.213423674	0.056384753	3.785130958	0.000153628	0.002416155
INPP1	145.8354897	0.389441151	0.10290644	3.784419622	0.000154068	0.0024211
FAM173A	187.1833028	-0.364761403	0.096470553	-3.781064686	0.000156159	0.002451965
APRT	1475.865972	-0.318515456	0.084312319	-3.777804496	0.000158217	0.002480434
TAB2	1114.419032	0.295691939	0.078271257	3.777784481	0.00015823	0.002480434
SAR1A	1145.038148	0.178084844	0.047163185	3.775929118	0.000159412	0.002496941
EXOSC5	138.7180704	-0.341341604	0.090445132	-3.774018516	0.000160639	0.002514109
S100A9	227.8850875	-0.453515858	0.120365574	-3.767820347	0.000164679	0.00257525
C16orf13	98.49081988	-0.469731335	0.124719034	-3.766316322	0.000165674	0.002588705
NOTCH2NL	883.4311712	-0.2636959	0.070061917	-3.763755149	0.000167381	0.002613256
POPDC3	22.45589174	1.235288778	0.328376217	3.761809512	0.000168689	0.002631541
PLAUR	21274.85991	0.236633393	0.062978623	3.757360566	0.000171715	0.002676587
CD55	95.67764884	0.378517197	0.100813056	3.754644616	0.000173588	0.002703588
CCNDBP1	1412.913289	-0.198125628	0.052786567	-3.753334213	0.000174498	0.002715572
BCOR	257.9306016	0.358486115	0.095538195	3.752280614	0.000175233	0.002724812
ATP2B4	282.7301759	-0.360315135	0.096062634	-3.750835474	0.000176246	0.002738356
RPS23	7013.323956	-0.267917453	0.071459741	-3.749208262	0.000177394	0.002753963
SDHA	395.0150954	-0.228995693	0.061098356	-3.747984538	0.000178261	0.002765202
MCTP1	406.7193304	0.298140965	0.079569801	3.746911033	0.000179026	0.002774824
FAM126B	309.6792717	0.397357563	0.106057445	3.746625846	0.000179229	0.002775746
SLC2A4RG	133.9468862	-0.287486985	0.076738978	-3.74629675	0.000179464	0.002777156
GABARAPL	1628.281693	-0.157518557	0.042049574	-3.746020278	0.000179662	0.002777985
TRAPPC5	523.8536174	-0.274690577	0.073420464	-3.741335317	0.000183045	0.002828025
PDE4A	694.9150123	0.328728369	0.087901307	3.739743815	0.000184208	0.002843709
ZNF134	40.30767055	-0.41615279	0.111425081	-3.734821505	0.000187848	0.002897587
TMEM14A	230.1871084	-0.344173508	0.092161903	-3.734444448	0.00018813	0.00289961
ZNF808	319.5268057	0.256590281	0.068724166	3.733625265	0.000188743	0.002906737
TWSG1	964.800701	0.236453751	0.06336987	3.731327722	0.000190473	0.002931036
CD72	45.05880612	-0.682961722	0.183110211	-3.729785018	0.000191643	0.002946686
ADAP1	505.8290598	0.504034832	0.13515283	3.729369411	0.00019196	0.002949197
C16orf88	71.07398418	-0.43911948	0.117844304	-3.72626819	0.000194336	0.002980948
MAPK6	1111.63873	0.422080572	0.113265699	3.726464188	0.000194185	0.002980948
SHISA4	106.2464295	-0.350932016	0.094192901	-3.725673718	0.000194794	0.002985605
USP18	88.04965744	0.793747549	0.213152685	3.723844941	0.000196211	0.003004936
SNRK	142.967135	0.326355744	0.08764608	3.723563498	0.00019643	0.003005754
TUBE1	296.6022718	0.383381092	0.102966004	3.723375468	0.000196577	0.003005754
HMGXB3	382.0557326	0.260578568	0.070033224	3.720784999	0.000198604	0.003034349
SLMO2	1008.506761	0.220518729	0.05930449	3.718415415	0.000200476	0.003058098
TDG	580.7224405	0.297397747	0.079975543	3.718608677	0.000200323	0.003058098
CTDSP1	1076.687082	-0.177005658	0.047665664	-3.713483482	0.000204426	0.003113413

TSPYL2	242.3759574	0.290014039	0.078095867	3.713564478	0.00020436	0.003113413
IL1R2	5.972537666	-1.39193332	0.374854239	-3.713265515	0.000204602	0.003113636
BPHL	79.9347476	-0.413017993	0.11128789	-3.711257293	0.000206232	0.003135969
TSC22D3	535.3453512	-0.285029064	0.07681748	-3.710471438	0.000206874	0.003143239
STAB1	13.0473349	-1.065933926	0.287432872	-3.708462153	0.000208522	0.003165785
CCNG2	175.1023826	-0.342783502	0.092598086	-3.7018422	0.00021404	0.003247
MILR1	728.9177876	-0.239431366	0.064704111	-3.700404249	0.000215256	0.003262886
JPH4	7.957128951	-1.084377602	0.29305909	-3.700201216	0.000215429	0.00326293
CDKN2C	27.79942808	-0.469342513	0.126880606	-3.699087897	0.000216376	0.0032747
ZNF420	107.148534	-0.302136411	0.081694165	-3.698384201	0.000216976	0.003281213
UTP6	800.6401333	0.18943173	0.051250543	3.696189707	0.000218859	0.003307095
ICAM1	1840.561485	0.683407651	0.184915582	3.695781852	0.000219211	0.003309813
SLC16A1	276.5121557	-0.25199391	0.06819758	-3.695056471	0.000219838	0.003315011
TRERF1	70.26219936	-0.642396119	0.173856205	-3.694985282	0.0002199	0.003315011
EBF1	3.238862711	2.166816381	0.586460763	3.694733762	0.000220117	0.0033157
GCA	305.2948882	0.443130853	0.119964638	3.693845617	0.000220888	0.003324709
RPL38	4585.089232	-0.217200988	0.058810432	-3.693239114	0.000221416	0.00333005
MGST2	504.6560886	-0.358992471	0.097211782	-3.692890547	0.000221719	0.003332018
C6orf106	2468.519444	0.243676468	0.066003469	3.691873669	0.000222608	0.003340651
MTA3	111.7911258	-0.338518633	0.091693835	-3.691836355	0.000222641	0.003340651
SRXN1	2698.591394	0.279231342	0.075640366	3.691565173	0.000222878	0.003341613
GALNT11	261.9860425	-0.314007363	0.0850705	-3.691142808	0.000223249	0.003344565
C17orf58	161.2116346	0.423704681	0.114845598	3.689341949	0.000224835	0.00336571
ADAM28	12.67019477	-1.245064284	0.337641909	-3.687528861	0.000226442	0.003387143
SIGLEC10	92.14084003	-0.432167196	0.117206086	-3.687241926	0.000226698	0.003388332
CXorf38	129.4011083	0.321565704	0.087227573	3.686514393	0.000227347	0.003395395
NUDT9	342.0558484	-0.215547807	0.058507746	-3.684090081	0.000229521	0.003425215
FBXL15	266.9463612	-0.353213093	0.095950497	-3.681201268	0.000232138	0.003461582
ABCB1	21.97836403	0.604671826	0.164308123	3.680109136	0.000233134	0.003473753
SEMA3A	5.106222189	1.259409659	0.342384567	3.678348211	0.000234749	0.003495116
KIAA0226L	102.3240656	0.559489375	0.152161938	3.676933817	0.000236054	0.003511831
GP1BA	69.16793599	0.751936684	0.204646951	3.674311694	0.000238491	0.003545352
SNX21	72.12524356	-0.462080614	0.125860489	-3.67137152	0.000241252	0.00358363
CXCR2	11.79522699	-1.178954031	0.321437866	-3.667750931	0.000244693	0.003631943
AR	20.46835547	1.172974002	0.319962621	3.665971977	0.000246401	0.003654473
PPP1R18	2226.524645	0.248551075	0.067810984	3.665351265	0.000246999	0.00366053
PITPNB	1150.874093	0.194152107	0.0529825	3.664457247	0.000247864	0.003670516
CEP350	631.2521559	0.232196171	0.063409275	3.661864479	0.000250386	0.003705025
C1orf122	644.881362	0.435066619	0.118836957	3.661038034	0.000251195	0.003714146
SERPINH1	670.657678	0.239105925	0.06534947	3.658880873	0.000253319	0.003742672
GOLGA2	334.4250307	0.415886379	0.113720116	3.657104791	0.00025508	0.00376292
SESN1	172.592292	-0.354742808	0.096996773	-3.657264035	0.000254922	0.00376292
AIM2	64.74641057	0.812478004	0.222305476	3.654781775	0.000257401	0.00379425
PEBP1	587.8072992	-0.246501102	0.067463202	-3.653860096	0.000258327	0.003804992
FBRS	605.4665111	0.311941495	0.085439128	3.651037903	0.000261183	0.003844114
PDE4DIP	2554.186611	0.200436624	0.054950052	3.647614801	0.000264686	0.003892704
RAPGEF2	170.1918866	0.48803977	0.133824647	3.646860134	0.000265464	0.003901171

TMEM160	214.3260155	-0.339519509	0.093129224	-3.645681724	0.000266684	0.003916106
QPCTL	287.4520862	-0.21603033	0.059272266	-3.644711851	0.000267692	0.00392791
CPQ	433.5092055	-0.225599541	0.061902827	-3.644414203	0.000268002	0.003929465
DPP7	627.5206442	-0.31423691	0.086248026	-3.643409873	0.00026905	0.003941837
LCN2	49.68068213	1.211477207	0.332572426	3.642747002	0.000269744	0.003949002
GFRA2	12.88703292	1.091229845	0.299679379	3.64132444	0.000271239	0.003967875
BTRC	170.2280174	0.233196156	0.064070688	3.639669888	0.000272988	0.003990427
VSIG10	25.0812842	-0.556047304	0.152862101	-3.637574651	0.000275217	0.004019969
BMP6	20.13476112	0.725842534	0.199652056	3.635537478	0.000277402	0.004048803
ZNF530	9.24536979	-0.945773162	0.260431517	-3.631561855	0.000281711	0.004108589
GBP3	545.0684044	0.470072223	0.12946123	3.630988401	0.000282338	0.004114615
XBP1	818.1058031	0.283480924	0.078110859	3.629212723	0.000284287	0.004139888
ZNF616	78.9095605	-0.309436581	0.085270477	-3.628882952	0.00028465	0.004142048
RPL26	4551.342325	-0.25113368	0.069220535	-3.628022792	0.0002856	0.004152733
EIF4EBP3	282.9141934	-0.241559518	0.066625805	-3.62561502	0.000288275	0.00418846
EPT1	323.6962861	0.402558267	0.111047723	3.6250925	0.000288858	0.004193775
LOC72875:	26.28806165	-0.66671026	0.183972227	-3.623972335	0.000290113	0.004208818
CYCS	1881.258296	0.24254413	0.066959254	3.622264511	0.000292035	0.004231447
ZNF582-AS	17.82568441	-0.641531239	0.177111095	-3.622196796	0.000292112	0.004231447
SNAP29	571.951799	-0.141620148	0.039102807	-3.621738698	0.00029263	0.004235764
LOC37444:	150.6881627	0.513828309	0.142039149	3.617511883	0.000297449	0.004302287
STX8	287.7585823	-0.243994646	0.067465613	-3.616577934	0.000298523	0.004314593
PCED1A	188.6671142	-0.351819543	0.097307645	-3.615538585	0.000299724	0.004328695
HS3ST2	13.52111147	-1.077447415	0.298176744	-3.613452214	0.000302147	0.004360423
AFF2	10.96779674	0.836739138	0.231596134	3.612923594	0.000302764	0.004366055
FUZ	58.99520627	-0.399133498	0.110570924	-3.609750945	0.000306491	0.004416498
RGS16	69.92693479	0.527669122	0.146189867	3.609478091	0.000306814	0.004417842
SOBP	13.94607725	1.011712712	0.280321139	3.609120296	0.000307237	0.004420635
ARHGAP4	107.3613238	-0.331740366	0.091993383	-3.606132904	0.000310794	0.004468476
RCSD1	159.409471	0.410595222	0.113921731	3.604187007	0.000313132	0.004496374
UST	85.25047101	0.470525494	0.130551781	3.604129259	0.000313201	0.004496374
NNT	414.847014	-0.241716415	0.067088045	-3.602973018	0.000314598	0.004513067
ERCC1	137.2383933	0.417558069	0.115911251	3.602394653	0.000315299	0.004519758
SAMD4B	436.4064145	0.287957793	0.079945876	3.601909262	0.000315889	0.00452484
PIGK	318.9341369	-0.233367228	0.064820359	-3.600214964	0.000317954	0.004551044
TRHDE	63.46393227	-0.598998297	0.166415228	-3.599419986	0.000318928	0.00456159
ZNF568	41.77903942	-0.498884448	0.138623965	-3.598832626	0.000319649	0.004568512
DHRS4-AS1	13.5064427	-0.736261908	0.204718672	-3.596457027	0.000322581	0.004607
BTBD9	312.303307	0.219320353	0.060985675	3.596260163	0.000322825	0.004607071
TAGAP	270.0383544	0.436227506	0.121335405	3.595220274	0.000324117	0.004622089
MAPK7	150.4307575	0.28351125	0.078866757	3.594813105	0.000324625	0.004623485
TRAPPC2L	1018.892199	-0.249309211	0.069353573	-3.594756551	0.000324695	0.004623485
FHL3	198.7427048	0.342950927	0.095493073	3.591369659	0.000328945	0.004680538
MLKL	356.0474471	0.415151611	0.115617452	3.590734818	0.000329747	0.004688491
NGFRAP1	55.74870584	-0.948702688	0.264268223	-3.589923439	0.000330775	0.004699641
PAPD7	125.5461685	0.347903709	0.096933123	3.589110698	0.000331808	0.004710841
PKI55	58.84784823	-0.596816527	0.166456575	-3.585418754	0.000336538	0.004774475

DEF6	80.47289833	-0.477023954	0.133066499	-3.584853872	0.000337267	0.004781299
ANAPC13	513.1264451	-0.172633744	0.048174912	-3.58347811	0.000339049	0.004803031
MICB	240.3972092	0.244857324	0.068338009	3.583032736	0.000339628	0.00480722
SLC39A8	2716.957365	0.412865814	0.115233371	3.58286675	0.000339844	0.00480722
FAM3B	119.645385	-0.405119908	0.113107266	-3.581731933	0.000341324	0.004818756
MBOAT7	1049.668817	0.262643909	0.073330091	3.581666196	0.00034141	0.004818756
OSBPL5	113.985986	-0.392975183	0.109707924	-3.582012753	0.000340957	0.004818756
ABHD15	232.8479478	-0.278677239	0.077843705	-3.579958595	0.000343649	0.004843259
NDRG2	46.53750121	0.579561115	0.161884398	3.580092469	0.000343473	0.004843259
INPP5B	361.9102205	0.294529186	0.082304885	3.578514017	0.000345553	0.004866543
AGRN	258.8782375	0.373701352	0.104519297	3.575429251	0.000349654	0.004920693
DPF3	9.205968373	1.260649307	0.352699558	3.574286612	0.000351184	0.004938622
H3F3B	10852.16809	0.207683019	0.058136451	3.57233739	0.000353809	0.004971909
RND3	1022.428136	0.352118683	0.098590606	3.571523678	0.00035491	0.00498375
MED13	1218.192885	0.251590739	0.070460831	3.570646773	0.000356101	0.004993731
TMEM63B	550.4009537	0.413417018	0.115783035	3.570618249	0.00035614	0.004993731
MBLAC2	21.08528021	-0.683411173	0.191468521	-3.569313473	0.000357918	0.005015016
CHCHD6	19.10906903	-0.606788705	0.17002876	-3.568741578	0.0003587	0.005022322
UBE2J1	1695.319355	0.209433239	0.058742099	3.565300583	0.000363439	0.005084985
DERL1	949.2669101	0.283960832	0.079733435	3.561377128	0.000368915	0.005157846
LOC10013:	133.7481702	0.33877508	0.095136728	3.560928433	0.000369546	0.005162922
PI4KB	754.8242816	0.254170458	0.071415405	3.559042471	0.000372209	0.005196366
ZNF443	21.82641086	-0.644126628	0.181005724	-3.558598119	0.00037284	0.005201395
SYNJ1	125.2676578	0.32391496	0.09103003	3.55833083	0.000373219	0.005202922
NDUFA3	371.3738752	-0.242568153	0.068189829	-3.55724829	0.00037476	0.005220625
FST	6.203164856	1.877638695	0.52828007	3.554248589	0.000379061	0.005276723
GTPBP1	382.8274683	0.256618235	0.072217873	3.553389553	0.000380301	0.005290163
C9orf89	399.4847809	0.355292642	0.100006686	3.552688886	0.000381315	0.005300446
PELI2	48.99284568	-0.495351427	0.139499162	-3.550927614	0.000383876	0.005328592
TMEM209	376.244413	0.293109206	0.082544678	3.550915848	0.000383893	0.005328592
UBP1	580.5065531	0.167707615	0.047318459	3.544232426	0.000393758	0.005461584
RAB11FIP1	1744.309432	-0.185495272	0.052386973	-3.540866368	0.000398816	0.005527755
LOC10012:	21.73651585	-0.50186002	0.141744871	-3.5405868	0.000399238	0.005529637
EIF2AK2	805.6721609	0.466684102	0.131879825	3.538707328	0.000402091	0.005565153
TBC1D10B	600.5603181	0.256866749	0.072601699	3.53802668	0.000403129	0.005575513
SLC30A1	2341.362374	0.231764557	0.065639038	3.530895101	0.000414156	0.005723909
SIGLEC11	141.3540603	-0.321485365	0.09107796	-3.529782249	0.000415902	0.005743917
SNX18	214.2381469	-0.293130468	0.083052235	-3.529471149	0.000416391	0.005746555
DLGAP4	28.7150321	0.627192461	0.177879879	3.525932589	0.000421994	0.005815316
SYNGR2	2935.447942	-0.252495704	0.071610042	-3.525981807	0.000421916	0.005815316
TOP1MT	282.0805586	-0.26364224	0.074776129	-3.525754031	0.000422279	0.005815316
PPAPDC1B	407.0990365	0.386085426	0.109550726	3.524261693	0.000424665	0.005843992
AK8	137.1606661	0.311149661	0.088295211	3.523969852	0.000425133	0.005846256
MANBA	1079.745061	-0.25201845	0.071528551	-3.523326637	0.000426166	0.005856284
TFAP4	39.45082959	-0.817319028	0.232038968	-3.522335209	0.000427763	0.005874041
C5orf20	20.63098219	-1.144777608	0.325024213	-3.522130233	0.000428094	0.005874398
ZC3H12C	230.1178655	0.416854271	0.118457011	3.519034174	0.000433121	0.005939151

IL36B	938.2701184	0.389178334	0.110605971	3.518601503	0.000433828	0.005940389
PLCD1	137.3558387	-0.383505508	0.108991375	-3.518677582	0.000433703	0.005940389
CD151	4408.941562	-0.233520159	0.066380029	-3.517927967	0.00043493	0.005951257
VWA5A	964.8523123	-0.273394968	0.077771409	-3.515366038	0.000439148	0.006004706
CCDC124	1444.942183	-0.177563392	0.050529785	-3.514034153	0.000441356	0.006030614
PTGES2	198.8877188	-0.29005179	0.082589556	-3.511966951	0.000444803	0.006073409
UBE2V1	51.68378813	-0.422060733	0.120211084	-3.510996807	0.00044643	0.0060913
OSBPL8	2337.839784	0.20972593	0.059750998	3.509998759	0.000448109	0.006109882
SVIL	1017.124667	0.349196886	0.099636076	3.504723377	0.000457082	0.006227822
SLC9A1	800.7964461	-0.29588591	0.084465471	-3.503039849	0.000459981	0.006262888
EEF2K	247.6674758	-0.32555705	0.092961843	-3.502050307	0.000461692	0.006281756
TFRC	16849.4935	0.355268334	0.101452229	3.501828773	0.000462076	0.006282544
EIF2AK4	436.961958	-0.258584198	0.073854016	-3.501288219	0.000463015	0.006290863
GPX3	610.8584754	-0.473446155	0.13528918	-3.499512331	0.00046611	0.006328454
CCDC23	147.3384587	-0.375731744	0.107408695	-3.498150176	0.000468497	0.006356386
OMA1	152.6457922	-0.313112204	0.089528251	-3.49735642	0.000469894	0.006370844
LFNG	468.4741739	-0.33519451	0.095929392	-3.49417943	0.000475521	0.006438084
TOP1	1234.677283	0.290360044	0.083095776	3.494281611	0.000475339	0.006438084
CNPY3	2229.348239	-0.227618198	0.065199749	-3.491090103	0.000481054	0.006508417
CPVL	323.0382594	-0.423739796	0.121428279	-3.489630244	0.000483689	0.006539479
MVD	98.20330081	0.358906353	0.102861152	3.489231302	0.000484412	0.006544655
KIAA1598	1669.043727	-0.245464644	0.070380673	-3.48767119	0.000487247	0.006573872
PCGF3	364.0054297	0.250093683	0.071708042	3.487665775	0.000487257	0.006573872
MMP19	2255.759208	0.276474174	0.079291857	3.486791532	0.000488852	0.006590782
TDO2	2.836733052	1.857951204	0.533024246	3.485678592	0.00049089	0.006613633
SMARCA2	420.867824	-0.242282452	0.069534555	-3.484346056	0.000493341	0.006642006
PRRC2C	1683.580076	0.295775797	0.084946756	3.481896318	0.000497876	0.006698385
GPAM	61.83475248	-0.372037446	0.106860423	-3.481526971	0.000498564	0.006702949
ZNF318	339.7478077	0.30110715	0.086491822	3.481336671	0.000498918	0.006703036
CTSL2	77.57956769	-0.463189956	0.133075386	-3.480658382	0.000500183	0.006710673
DUSP22	434.71406	0.265170168	0.076183331	3.480684871	0.000500134	0.006710673
GPAT2	56.32152201	-0.41098279	0.11811805	-3.479424104	0.000502493	0.006736969
TNFRSF10E	1115.904928	-0.231903532	0.066664068	-3.478688557	0.000503874	0.006750788
CMBL	10.58784065	-1.614460888	0.46429539	-3.477227907	0.000506627	0.006778361
LOC28299	56.41797957	-0.624061034	0.17947108	-3.47722337	0.000506636	0.006778361
SLIRP	1102.866829	-0.233949906	0.067317197	-3.475336389	0.000510213	0.006821489
NCKAP5L	261.0596703	-0.313409858	0.090186235	-3.475140714	0.000510585	0.006821733
SPTBN1	77.92832676	-0.597480893	0.171977357	-3.474183482	0.000512411	0.006841373
CD109	865.3374144	-0.296986931	0.08551107	-3.473081706	0.000514519	0.006864763
DKK2	4.123682356	1.829877243	0.527023116	3.472100535	0.000516403	0.006880372
ENDOD1	139.9400518	0.504060059	0.145169252	3.472223303	0.000516167	0.006880372
SP4	53.94086266	0.436081472	0.125673752	3.469948687	0.000520558	0.006930938
DHX57	108.6313571	-0.301682093	0.08695517	-3.469397983	0.000521626	0.006935576
DNAJC6	218.2452391	0.32344989	0.093228253	3.469440649	0.000521543	0.006935576
TAPT1	264.6322865	0.326519668	0.094144908	3.468266903	0.000523827	0.006960032
SLC30A5	389.2150041	0.498087567	0.143622329	3.468037106	0.000524275	0.006961185
TBC1D10C	74.95493976	0.3921807	0.113113804	3.46713386	0.00052604	0.00697981

SH3GLB2	631.331006	-0.296093435	0.085431458	-3.465859537	0.000528539	0.007008148
KCNJ5	22.93738991	-0.859560988	0.248081269	-3.464836299	0.000530554	0.007030027
ZNF823	54.29291309	-0.375002913	0.108261732	-3.463854735	0.000532494	0.007050879
LITAF	1927.633128	0.342928779	0.09900827	3.463637718	0.000532924	0.007051723
APOBEC3G	280.0709926	0.348639577	0.10069384	3.462372446	0.000535436	0.007080098
ARID3B	171.5104505	0.363004446	0.104857233	3.461892267	0.000536392	0.007087877
CPEB4	746.4111715	0.168180852	0.048584208	3.461636166	0.000536902	0.007089762
RASGRP2	42.0430812	-0.575841477	0.16645008	-3.459544616	0.00054109	0.007140159
RCN2	211.4709247	-0.3064801	0.088594796	-3.459346516	0.000541488	0.007140523
ZC3HAV1	980.8201347	0.347756855	0.100537432	3.458978886	0.000542227	0.007145385
GALK1	148.185795	-0.297539483	0.086031608	-3.458490312	0.000543212	0.007153465
ASTE1	68.17337966	-0.379506273	0.109801741	-3.456286484	0.000547673	0.007202366
TRIP11	351.8619859	0.203648994	0.058920502	3.456334985	0.000547574	0.007202366
GRAMD1B	110.0649143	-0.358714359	0.103861711	-3.453768995	0.000552811	0.007260021
PMAIP1	80.0099125	0.558114243	0.161588321	3.453926866	0.000552487	0.007260021
FUT10	129.2711344	-0.353441579	0.102348833	-3.453303469	0.000553766	0.007267608
RPLP2	19380.64828	-0.194693878	0.056389101	-3.452686329	0.000555034	0.007279295
ZNF331	125.8190748	-0.333601717	0.096655835	-3.451438989	0.000557606	0.00730805
DDX28	360.8926211	-0.220161309	0.063795198	-3.451063986	0.000558381	0.007313237
LINC00656	75.60276598	0.489033105	0.141739676	3.450220278	0.000560129	0.007326172
UBE2Z	2361.288724	0.159425055	0.046206175	3.45029761	0.000559969	0.007326172
CCL15	1686.993546	0.523864574	0.151870208	3.449422905	0.000561786	0.007342857
HNMT	1768.022906	-0.196236701	0.056902619	-3.448640942	0.000563415	0.007359159
METTL7B	23.96773466	0.814008113	0.236136256	3.447196656	0.000566436	0.007393603
CPNE9	4.788781711	-1.290491857	0.374476278	-3.446124449	0.000568688	0.007417976
GOSR1	337.5562033	0.254728513	0.074004215	3.442081139	0.000577257	0.007524651
AIDA	1077.427596	0.289564903	0.084139948	3.441467572	0.000578568	0.007531546
MTHFD1	977.4288178	0.315986569	0.091813528	3.4416123	0.000578258	0.007531546
FOLR3	93.62163537	-0.801861495	0.233127418	-3.439584675	0.000582608	0.007579012
LOC10012!	60.04809307	0.400029857	0.116323182	3.438952137	0.00058397	0.007591616
INO80D	273.3521078	0.346378474	0.100777174	3.437072691	0.000588038	0.007639336
DGKQ	164.3723033	-0.289406322	0.084238876	-3.435543495	0.000591367	0.007677404
SNHG6	371.1513531	-0.250661544	0.072970022	-3.435130459	0.000592269	0.007683938
SRSF5	3201.577779	0.211334448	0.06158121	3.431800822	0.000599588	0.007773659
CCL8	35.43976865	2.032422444	0.592998748	3.4273638	0.000609472	0.007891187
PPP3CC	337.691481	0.522323439	0.15239299	3.427476815	0.000609218	0.007891187
NR1H3	2557.082657	-0.280715673	0.081910685	-3.427094685	0.000610076	0.007893707
MPPE1	172.0515192	-0.25004111	0.072973652	-3.426457384	0.00061151	0.007906944
PTGS1	192.5074858	-0.430421366	0.12565619	-3.425389267	0.000613919	0.007932774
NIPAL4	5.117776535	2.00347632	0.585014648	3.424660095	0.000615569	0.007948762
DPYD	509.1179153	0.240266344	0.07017556	3.423789467	0.000617544	0.007968929
ZNF835	48.73882518	-0.495142564	0.144731982	-3.421099865	0.000623684	0.008042772
PSME1	1166.326708	0.313520603	0.091651409	3.42079414	0.000624386	0.008046432
HERC6	89.72414734	0.490813554	0.143527215	3.419654974	0.000627006	0.008074799
TBC1D22B	315.3780297	0.226640438	0.066298377	3.418491524	0.000629693	0.008103982
TMEM141	186.5726863	-0.403279275	0.118003075	-3.417531924	0.000631917	0.008127176
MCM6	230.9919642	-0.314893733	0.092151899	-3.417116047	0.000632883	0.008134172

GATSL2	16.54835072	-0.696437076	0.203821724	-3.416893271	0.000633401	0.008135403
RBP7	31.54452711	-0.565567306	0.165549908	-3.416294894	0.000634795	0.00814787
GMPPB	102.200575	0.508726579	0.148920434	3.416096542	0.000635257	0.008148379
STK17A	582.531855	0.321071858	0.09401268	3.415197381	0.000637358	0.008169887
TMSB4X	30661.40921	-0.337167055	0.098877074	-3.409961913	0.00064972	0.008322803
CAT	1144.748218	-0.370466962	0.108688888	-3.408508159	0.000653191	0.008359797
RPL7A	3019.423207	-0.213887979	0.062753384	-3.408389587	0.000653475	0.008359797
TSTD1	55.46951193	-0.47771581	0.140361413	-3.403469652	0.000665358	0.008506163
MIB2	43.37592828	-0.373472706	0.109850298	-3.399833349	0.000674269	0.008614372
SDSL	334.5095205	-0.403790623	0.118786996	-3.399283049	0.000675628	0.008626004
TIMM17A	784.3911011	0.198477037	0.058414654	3.397726801	0.000679482	0.008669475
KIAA1430	340.3898444	-0.198633092	0.05847721	-3.396760776	0.000681886	0.008694379
ALOX5AP	3927.796007	0.341268604	0.100534486	3.394542702	0.000687433	0.008755826
SLC25A40	413.8316106	0.298064768	0.087808905	3.394470837	0.000687614	0.008755826
PICALM	338.1257584	0.249566982	0.073542604	3.393502129	0.00069005	0.008781049
GBP2	4049.654246	0.408855464	0.120512574	3.392637385	0.000692232	0.008802999
PAG1	677.2987972	0.30684687	0.090525226	3.389628316	0.000699874	0.008894315
SLC29A3	1566.924721	-0.367703771	0.108502361	-3.388901111	0.000701733	0.008912057
KARS	386.2879539	0.228048721	0.067305421	3.388266738	0.000703358	0.008926812
NCF1B	935.9486988	-0.359490631	0.106116689	-3.387691732	0.000704834	0.008939657
BAZ2A	783.7540206	0.363208702	0.107245516	3.386702929	0.000707379	0.008964426
FAM214B	299.2437112	0.274720751	0.081122642	3.386486739	0.000707937	0.008964426
FOXO3	570.3510639	-0.205933449	0.060812064	-3.386391359	0.000708183	0.008964426
ATP1B1	2585.646759	0.240228503	0.070977925	3.384552347	0.000712944	0.009018768
PLCG1	51.23855036	-0.434279631	0.128413975	-3.381872041	0.000719937	0.009101247
C15orf26	14.06582436	0.847646419	0.250758684	3.380327278	0.000723996	0.009146557
TSPYL5	205.8432988	0.312203925	0.092365572	3.380089753	0.000724622	0.009148467
CERS5	381.6686331	0.299141065	0.088532964	3.378866493	0.000727853	0.009183251
TCEB1	2239.918162	0.175514365	0.051958642	3.377962913	0.000730249	0.009207449
MAP4K1	58.57332637	-0.486017512	0.14390222	-3.377414971	0.000731706	0.009219779
COLEC12	632.1226494	-0.372355958	0.110257816	-3.377138884	0.000732441	0.009223007
ITIH5	389.3786523	-0.239520061	0.070940526	-3.376350239	0.000734543	0.009237412
LOC388791	207.3709471	0.324289358	0.09604396	3.376468001	0.000734229	0.009237412
RAPH1	308.0706747	0.407989325	0.120937409	3.373557692	0.000742035	0.009325535
DLC1	235.7738689	0.375793369	0.111443553	3.372051221	0.000746106	0.009370582
SIRPB1	133.9674745	-0.453158441	0.134405346	-3.37158048	0.000747382	0.009380496
ATP8B2	24.55480825	0.802716181	0.238178032	3.370236016	0.000751038	0.00942025
SYT11	190.870704	-0.315074956	0.093530899	-3.368672396	0.000755311	0.009467684
NUDT14	223.7953166	-0.270942422	0.08046539	-3.367192044	0.000759378	0.009512467
KLF7	85.35723609	-0.480060498	0.142765212	-3.362587373	0.000772157	0.009659983
LMTK2	127.9881281	0.303603168	0.090284831	3.362726204	0.000771769	0.009659983
ARRB1	666.8400843	-0.349997136	0.10409196	-3.362383951	0.000772726	0.00966083
NELF	169.8687075	-0.387647838	0.115351536	-3.360578043	0.000777796	0.009717904
ING4	106.3536678	-0.291586838	0.086779238	-3.360099097	0.000779145	0.009728458
LY6G5B	85.02401385	0.277852	0.082756516	3.357463719	0.000786611	0.009815312
NDUFB1	1044.366511	-0.26868445	0.080044794	-3.356676154	0.000788855	0.009830576
SH3BP4	107.5655442	-0.4249107	0.126584674	-3.356731007	0.000788698	0.009830576

ACE	256.3904411	0.500811159	0.149275336	3.354949123	0.000793796	0.009879374
GMPPA	342.5621268	0.325773787	0.097099924	3.355036472	0.000793545	0.009879374
MTMR1	509.3399227	-0.297604944	0.088737541	-3.353765942	0.000797198	0.009915307
TLK2	1001.822829	0.200830561	0.059891328	3.353249446	0.000798687	0.009927421
NHLRC3	219.7113343	0.377887988	0.112703833	3.352929349	0.000799611	0.009932501
GHDC	130.87084	-0.439806375	0.131256684	-3.350735069	0.000805974	0.010005083
SURF4	1223.262281	0.312439319	0.093287708	3.349201361	0.000810449	0.010054157
TMEM39A	417.114373	0.393942738	0.117649238	3.348451259	0.000812646	0.010074925
PBRM1	911.8577047	0.262525102	0.078410032	3.348106062	0.000813659	0.010080995
HK3	1982.332241	-0.252359463	0.075418681	-3.346113438	0.000819529	0.010147197
VNN1	200.3679754	-0.339793417	0.101578007	-3.345147519	0.000822388	0.010176063
IDH2	285.4663492	-0.287632957	0.086006864	-3.344302335	0.000824898	0.010200567
PLS3	55.82884928	-0.435388968	0.130292233	-3.341634108	0.000832868	0.010292514
MALT1	91.77545239	0.308582165	0.092364425	3.34092012	0.000835012	0.010312404
REV3L	102.0821751	-0.294170049	0.088072811	-3.340077906	0.000837549	0.010337103
ANKRD13A	793.5771634	0.163992322	0.049131089	3.337852381	0.000844286	0.010409845
NCOA2	237.3221536	-0.325869399	0.097634874	-3.337633231	0.000844952	0.010409845
ZNF737	111.9609588	-0.338455859	0.101407063	-3.337596498	0.000845064	0.010409845
PXMP2	30.46169359	-0.480178323	0.143900135	-3.336885841	0.000847227	0.010429829
MEIS3P1	98.35149969	-0.399550891	0.119771305	-3.335948374	0.000850089	0.010458381
DEXI	45.02637887	-0.6092954	0.1826919	-3.335098047	0.000852693	0.01048372
GORAB	327.7692871	0.275441162	0.082604916	3.334440292	0.000854712	0.010501844
YPEL4	166.6826819	-0.352861416	0.105833623	-3.334114496	0.000855714	0.010507451
TOM1L2	272.1546792	-0.264328836	0.079297364	-3.333387411	0.000857954	0.010528242
C21orf33	315.7585405	-0.202225206	0.060701763	-3.331455256	0.000863932	0.010594851
ZNF133	5.775779581	-1.104740383	0.331666444	-3.330877765	0.000865726	0.010610101
SLC39A12	4.974167761	1.310169241	0.393459674	3.329869174	0.000868868	0.010641838
CHID1	376.1111665	-0.228470155	0.068619017	-3.32954572	0.000869878	0.010647437
KSR1	12.90423274	0.893490389	0.268388341	3.329095385	0.000871286	0.010657897
KANSL1-AS	80.19380619	-0.494621111	0.148841454	-3.323140815	0.0008901	0.01088113
GATM	10.61778985	-0.629783318	0.189559639	-3.322349224	0.000892629	0.01090513
MGST3	7005.972264	-0.30579806	0.092086911	-3.320754902	0.000897743	0.010954416
PLEKHG2	78.27076449	0.375559442	0.113095202	3.320737167	0.0008978	0.010954416
CD3EAP	44.44467525	-0.42916275	0.129305314	-3.318987719	0.000903444	0.011016299
DTNB	173.327269	-0.291208171	0.087819859	-3.315971737	0.000913251	0.011128834
VEGFA	138.9032805	-0.41399463	0.124937632	-3.313610344	0.000920998	0.011216144
ATHL1	26.08283135	-0.511540058	0.154389434	-3.313310014	0.000921987	0.011221103
GAA	1152.060313	-0.340105172	0.102691947	-3.311897198	0.000926656	0.011270803
SUMF2	669.5144392	-0.214946142	0.064963769	-3.30870802	0.000937275	0.011392773
TLE2	17.72853996	-0.933070244	0.282256388	-3.305754214	0.000947211	0.011506289
RNF26	342.259516	-0.218492973	0.066132389	-3.303872355	0.000953592	0.011576504
CRABP2	161.7837415	-0.453213249	0.137186609	-3.303625995	0.000954431	0.011579384
LY6G5C	42.03992991	-0.436857574	0.132270977	-3.30274701	0.000957427	0.011608429
USP21	78.0403175	-0.355375315	0.107663109	-3.300808592	0.000964066	0.011681573
LATS2	192.8107139	0.290875077	0.088191522	3.298220398	0.000972997	0.01178238
TRAFD1	1140.832196	0.287380121	0.087136909	3.298029787	0.000973658	0.011782975
PTP4A1	827.0716972	0.429534794	0.130247109	3.29784513	0.000974299	0.011783325

DYRK1B	59.72912183	-0.400362649	0.121426048	-3.297172697	0.000976634	0.011804163
ARHGAP35	402.4794967	-0.25692239	0.077966837	-3.295277854	0.000983244	0.011876602
FAM213B	104.808607	-0.513179003	0.155917516	-3.291349284	0.00099708	0.012036183
ARMC7	125.2883152	-0.315527331	0.095880221	-3.29084902	0.000998855	0.012050057
APOA1	2.594212309	1.919922688	0.584047301	3.287272599	0.001011629	0.012196518
ARF1	9575.302341	0.135347373	0.041189068	3.286002314	0.001016202	0.012243992
SLC35E4	41.14026921	-0.447090752	0.136077472	-3.285560391	0.001017797	0.012255551
CD46	35.14742484	-0.618325163	0.188244598	-3.284690074	0.001020946	0.012284754
PCNA	309.7277278	-0.217625365	0.06625753	-3.284537861	0.001021498	0.012284754
C10orf137	239.667041	0.253258594	0.077111216	3.28432888	0.001022256	0.012286198
SOD2	83599.84538	0.211735144	0.064479228	3.28377292	0.001024274	0.012302784
MEF2A	263.2359685	0.348171814	0.1060661	3.282592779	0.001028571	0.012346701
ALDH4A1	27.99719955	-0.468021954	0.142601414	-3.282028849	0.001030631	0.012363717
RC3H2	433.0410094	0.202211803	0.06163294	3.280904709	0.001034747	0.012405373
LYZ	66510.70773	-0.268415821	0.081850103	-3.279358381	0.001040434	0.012465799
NINJ2	79.3040586	-0.485029515	0.147929712	-3.278783598	0.001042556	0.012483452
MBD2	4514.775245	-0.178176243	0.054390578	-3.275865972	0.001053385	0.012598615
PRKACB	216.5091034	-0.402621628	0.122906367	-3.275840277	0.001053481	0.012598615
CCDC109B	131.2508129	0.357604741	0.10920093	3.27474079	0.00105759	0.012639902
EVL	4098.455129	0.274726801	0.083913047	3.273946192	0.001060568	0.01266764
DPY30	616.1183923	-0.226248189	0.06913888	-3.272372781	0.001066489	0.012730464
AKIRIN2	432.6968603	0.302689564	0.092548075	3.270619771	0.001073121	0.012801701
SSH3	69.97032207	-0.374778994	0.114684506	-3.267913047	0.001083436	0.012916762
CYB5D1	21.19121876	0.606577354	0.18567077	3.266951248	0.001087124	0.012952709
MICALL2	81.42849829	0.361411579	0.110738801	3.263639979	0.001099908	0.013096931
ABCB6	70.76193747	-0.293652302	0.090038354	-3.261413471	0.001108583	0.013192065
ALAD	162.7117648	-0.341535369	0.10479877	-3.258963512	0.0011182	0.013298303
IFNG	13.80402886	1.888333406	0.579547956	3.258286716	0.001120871	0.013321838
TOR1A	1121.01333	0.360720828	0.110769628	3.256495801	0.001127966	0.013397899
FAM156B	214.0581031	0.367671663	0.112914707	3.25618931	0.001129184	0.013404107
TMEFF1	108.3284297	0.373629296	0.114753065	3.255941749	0.001130169	0.013407539
HYOU1	1429.611939	0.279859213	0.08597344	3.255182225	0.001133196	0.013426913
SEC24C	1090.999911	0.158375482	0.04865315	3.255194817	0.001133146	0.013426913
NDUFB9	2105.55523	-0.2533674	0.077848407	-3.254625368	0.00113542	0.013431968
PRDM1	290.9041478	0.297694764	0.091464455	3.254759055	0.001134886	0.013431968
RPL11	18041.15814	-0.230732869	0.070895437	-3.254551784	0.001135715	0.013431968
NAGLU	302.8619134	-0.280412742	0.086185726	-3.253586833	0.001139579	0.013469403
RUFY1	1106.958166	-0.197360931	0.060693702	-3.251753039	0.001146956	0.01354829
CCDC107	237.3940598	-0.239772039	0.073750638	-3.251118183	0.001149521	0.01357026
FAM149B1	176.3018636	-0.29065746	0.089425463	-3.250276277	0.001152929	0.013602167
CACNB3	116.3460823	0.315045811	0.096964534	3.249082904	0.001157777	0.013651002
ST18	8.902132586	-1.006744812	0.310083041	-3.246694206	0.001167538	0.013757663
S100A16	228.1807966	0.343324296	0.105751525	3.246518627	0.001168258	0.013757738
LILRB5	47.11978674	-0.924636153	0.28494448	-3.244969518	0.001174632	0.013824349
MAGEH1	56.46385402	-0.441862104	0.136213409	-3.243895778	0.001179069	0.013868095
CASD1	71.84358654	-0.485764622	0.149843038	-3.241823105	0.001187677	0.013960823
TUG1	585.5882175	0.198037392	0.061130997	3.239557708	0.001197152	0.014063621

CHP1	1621.784412	-0.210120781	0.064876844	-3.2387639	0.001200489	0.014094224
CLDN16	4.980159806	1.840994779	0.568618142	3.237664514	0.001205124	0.014131422
NACC2	229.2884012	-0.364973654	0.112725673	-3.237715466	0.001204909	0.014131422
TNNI2	88.9421797	-0.437968236	0.135289152	-3.237275335	0.001206769	0.014133505
WDR43	230.6948551	-0.24305171	0.075077251	-3.237354948	0.001206433	0.014133505
RNF19B	1213.736568	0.495355764	0.153061269	3.236323382	0.001210801	0.014172113
LIG4	135.4371755	0.255022272	0.078822408	3.235403207	0.001214711	0.014209238
LOC100501	38.20366442	-0.56402779	0.174349419	-3.235042562	0.001216246	0.014210994
TULP4	235.5148666	-0.329931779	0.101987509	-3.235021438	0.001216336	0.014210994
DGCR6L	205.8928824	-0.315769103	0.097671355	-3.232975557	0.00122508	0.014295821
SERINC3	1704.42886	-0.153961345	0.047621705	-3.233007824	0.001224942	0.014295821
PARP4	1454.651202	-0.217217325	0.067245926	-3.230193057	0.001237067	0.014426952
FAM160A2	119.9867137	0.308581545	0.095543797	3.229739176	0.001239032	0.014441131
AKNA	100.3559541	-0.381348172	0.11810606	-3.228862036	0.001242838	0.014476738
PSKH1	136.7629123	-0.287513692	0.089092977	-3.227119609	0.001250432	0.014556386
GUSBP4	18.34382452	-0.57464919	0.178170345	-3.225279666	0.001258497	0.014641423
IFT172	59.78941314	-0.442184689	0.137128461	-3.224601849	0.00126148	0.014666142
MMAA	187.0383035	0.318465436	0.098765781	3.224451153	0.001262144	0.014666142
GGT8P	15.18871256	-0.696362148	0.216043506	-3.223249613	0.001267451	0.014718928
DLG5	65.72778097	-0.450260888	0.139715487	-3.222698489	0.001269891	0.014738391
CSTF3	179.0411711	0.289306267	0.089801618	3.221615296	0.001274702	0.014785311
CD38	174.320835	0.773899488	0.24028138	3.22080508	0.001278311	0.01481825
EIF4A1	20017.80098	0.133388327	0.041430603	3.219560333	0.001283873	0.014867417
RGL1	70.20257877	0.399786898	0.124182933	3.219338504	0.001284867	0.014867417
ZNF586	299.5243504	0.278609947	0.086541844	3.219366888	0.00128474	0.014867417
WFS1	174.5271927	0.52965216	0.164569602	3.21840821	0.001289042	0.014906775
HFE	183.7481037	-0.353684813	0.109985498	-3.215740429	0.001301085	0.01503701
ATP6VOE2	19.98522684	-0.615048355	0.191278831	-3.215454378	0.001302382	0.01504298
PLEKHO1	323.0316708	0.271348307	0.084423168	3.214145033	0.001308336	0.015102694
ACOT2	446.8990816	-0.350137284	0.109017221	-3.211761221	0.00131924	0.015219445
DGKG	12.40660522	-0.793101354	0.247116671	-3.209420684	0.001330027	0.015334714
SMG1	596.6541596	0.230991923	0.071990242	3.208656013	0.001333569	0.015366356
KCNC4	30.32816104	-0.526401695	0.164084524	-3.208112996	0.00133609	0.015379816
TMEM9	149.0763655	-0.400839214	0.124947525	-3.208060445	0.001336334	0.015379816
JAK2	306.9884825	0.434955078	0.135596935	3.20770582	0.001337983	0.015389598
RPL18A	4249.833393	-0.186310399	0.058132186	-3.204943984	0.001350888	0.01552876
NOB1	237.6752075	-0.265709456	0.082931347	-3.203968891	0.001355471	0.015572158
MARVELD1	530.3430836	-0.383837984	0.119808671	-3.203757961	0.001356465	0.015574283
CCND2	83.25178231	0.474891603	0.148277722	3.202717156	0.001361376	0.015618307
NADKD1	239.2378474	-0.276965145	0.086481286	-3.202602068	0.00136192	0.015618307
TBCA	1043.939967	0.182804642	0.057085004	3.202323381	0.001363239	0.015624126
TTLL1	36.34828072	-0.416639717	0.130119103	-3.201987312	0.00136483	0.015633066
SIGLEC15	14.96988585	0.891085935	0.278360422	3.201194792	0.00136859	0.015666816
SNORA70C	511.2399656	0.346816081	0.108403333	3.199311969	0.00137756	0.015760139
PER2	109.6199375	0.313913994	0.098209482	3.196371549	0.001391678	0.015912204
COMMD3	494.0887721	-0.18356112	0.05744477	-3.195436621	0.001396194	0.015954379
ASB13	62.96571697	-0.520482349	0.162906151	-3.194982796	0.001398392	0.015970015

SMURF2	138.2471918	-0.308757088	0.09665755	-3.194340109	0.001401509	0.015996133
SRSF8	243.1366415	-0.210117522	0.065794207	-3.193556593	0.001405318	0.016030109
LOC10013:	22.45715299	0.584220447	0.183004972	3.192374728	0.001411081	0.016086328
GRIPAP1	371.1988856	0.265096985	0.083091739	3.190413236	0.001420695	0.016186344
TACC3	115.5348003	-0.393973991	0.123500733	-3.190053878	0.001422463	0.01618734
ZNF143	126.2782203	0.44661627	0.139997252	3.190178842	0.001421848	0.01618734
NAAA	208.676425	-0.349937435	0.109704074	-3.189830817	0.001423561	0.016190276
TIFAB	30.04981761	-0.842803001	0.264411335	-3.187469256	0.001435237	0.016313439
SLC45A3	41.48750569	-0.546690213	0.171544291	-3.186874997	0.001438189	0.016337354
KLF3	937.2793325	-0.244370059	0.076687308	-3.186577594	0.001439669	0.016344523
ARNTL2	314.9004911	0.590413528	0.185308762	3.186106916	0.001442013	0.016361497
USO1	490.2996564	0.253850319	0.079694144	3.185307036	0.001446005	0.016397135
ST6GAL1	62.71476142	-0.578250285	0.181604002	-3.184127444	0.001451911	0.016454419
DBP	22.81268378	-0.713042552	0.223960729	-3.183783851	0.001453635	0.016464277
RARA	217.7554428	0.4421948	0.138897285	3.183610116	0.001454508	0.016464481
RTN2	64.55183837	0.39351432	0.12363885	3.182772401	0.001458722	0.016502492
FAM195A	188.6762274	-0.342223969	0.107549656	-3.182008954	0.001462573	0.016531694
PPP1R10	748.6211947	0.292322115	0.09186971	3.181920502	0.00146302	0.016531694
TBC1D19	20.93394275	0.561502434	0.176482304	3.1816359	0.001464458	0.016538246
PPM1K	198.8411627	0.30714495	0.096582161	3.18014163	0.001472031	0.016614029
LOC72843:	127.2093727	0.374297706	0.117782596	3.17786937	0.001483616	0.016734978
SLC11A1	3293.287406	0.3742808	0.11781578	3.176830804	0.001488939	0.016785192
SCP2	925.0726234	-0.240682977	0.075814727	-3.174620399	0.001500326	0.016903677
ASPSCR1	288.6968706	-0.244005642	0.076913726	-3.172458984	0.001511539	0.017000182
HNRNPF	296.7881797	0.310284843	0.097801678	3.172592226	0.001510846	0.017000182
RPL13	1065.163719	-0.302833586	0.095449805	-3.172699881	0.001510286	0.017000182
CCDC125	268.7442445	-0.270974087	0.085424695	-3.172081409	0.001513506	0.01701237
WAPAL	603.2359367	0.211613532	0.066813628	3.167221078	0.001539033	0.017289215
CLIP2	7.87181572	-1.082522877	0.341939657	-3.165830152	0.001546411	0.017361974
TCHP	267.0096355	-0.217421723	0.068692872	-3.165127868	0.001550148	0.017393799
NEFH	39.24505824	-0.549167909	0.173558265	-3.164170304	0.001555258	0.017440974
HPS1	840.8705153	-0.245688212	0.077712755	-3.161491466	0.001569634	0.017591956
CYLD	1055.888499	0.236395853	0.074890899	3.156536459	0.001596549	0.017883208
STAT4	10.4601501	0.967646333	0.306797676	3.154021067	0.001610375	0.018027587
ELF4	904.4796918	0.176240441	0.05589096	3.153290672	0.00161441	0.018055805
GLI3	29.15971942	0.53754156	0.170475797	3.153184019	0.001615	0.018055805
MAPK10	2.885995317	1.730922367	0.548966539	3.153056232	0.001615707	0.018055805
HOMER2	42.21452115	-0.494743921	0.156925448	-3.15273225	0.001617501	0.018065376
CDK19	333.054131	-0.254434521	0.080726339	-3.151815449	0.001622588	0.018111691
LOC10013:	85.41463729	-0.390235288	0.12382055	-3.15161973	0.001623676	0.01811334
C1RL	813.8832309	0.357790969	0.113534988	3.151371891	0.001625054	0.018118227
CBWD2	265.3102563	0.205586706	0.065255307	3.150497878	0.001629924	0.018162015
ARC	79.96075244	0.494350024	0.156998973	3.148746863	0.001639722	0.018260623
ARID5A	50.29851951	0.356637193	0.113304142	3.14760948	0.001646115	0.018321226
CASZ1	34.21729753	0.403494381	0.12819947	3.147395077	0.001647322	0.018324081
ACSL4	2578.839449	0.230397534	0.073254329	3.145172961	0.001659887	0.018453189
CASP9	696.067015	0.173220452	0.055079897	3.144894236	0.001661469	0.018460126

CYP1B1	3094.613444	0.276024053	0.087802779	3.143682433	0.001668364	0.018526051
POC1B	185.9692895	0.270514664	0.08607423	3.142806678	0.001673363	0.018570861
MICALL1	909.3412014	0.276251022	0.087925391	3.141879943	0.001678669	0.018619014
ERI1	289.0977873	0.281886736	0.089736666	3.141265964	0.001682192	0.018647359
SLC12A6	737.172949	0.291564912	0.092885047	3.138986532	0.001695332	0.018782216
FGD5	957.6930055	-0.310174839	0.098935869	-3.135110062	0.001717896	0.019010335
NPC2	5657.418389	-0.183180226	0.058428457	-3.135120036	0.001717838	0.019010335
ACSF3	154.9589982	-0.291259166	0.092937803	-3.133914916	0.001724909	0.019076975
USP13	292.1195935	-0.261196048	0.083372148	-3.132893356	0.001730923	0.019132511
VPS26B	241.7132774	-0.21397636	0.068310394	-3.132412905	0.001733759	0.019152863
C8B	86.36068617	-0.398331303	0.127250563	-3.130291085	0.001746332	0.019280702
SURF1	118.6806704	-0.255300313	0.081565915	-3.129987727	0.001748136	0.01928957
HLA-E	14075.23027	0.34242147	0.109409149	3.129733424	0.00174965	0.019295225
REXO1	429.2692347	0.240097866	0.076760544	3.127881238	0.001760713	0.019383942
SENP2	259.1421168	0.243803476	0.077938385	3.128156635	0.001759064	0.019383942
ZC3H12D	22.59830356	-0.574147429	0.183556836	-3.127900017	0.001760601	0.019383942
CTSZ	11575.13261	0.204804418	0.065484854	3.127508181	0.001762949	0.019386403
NEFM	354.2001701	0.352688588	0.112765497	3.127628566	0.001762227	0.019386403
GAPT	16.60652006	-0.75174621	0.240401694	-3.127042058	0.001765747	0.019395026
VAV2	191.8750927	-0.251800971	0.0805203	-3.127173775	0.001764956	0.019395026
MZT2B	173.4203979	-0.316542815	0.101233918	-3.126845431	0.001766928	0.019396943
ERMAP	60.83959832	-0.330834908	0.105825611	-3.12622724	0.001770647	0.019426697
SLC12A2	59.91094051	-0.414120289	0.132488265	-3.125712968	0.001773746	0.019449623
AREG	41.39128596	0.538542322	0.172358428	3.12454882	0.00178078	0.019504869
RPS18	1006.955326	-0.245671086	0.078626221	-3.124543987	0.001780809	0.019504869
C19orf66	271.9238901	0.22879923	0.073291902	3.121753218	0.001797776	0.019679515
CHRNA1	6.552004839	-1.306290166	0.418559691	-3.120917267	0.001802887	0.019713063
PALD1	3.89626829	-1.401945696	0.449197049	-3.121003797	0.001802357	0.019713063
TWIST1	2.987145649	1.985831269	0.636418047	3.120325197	0.001806515	0.019741528
NUDT4	352.2872495	0.223390656	0.071602725	3.119862507	0.001809355	0.019755147
SMARCD3	3.023573151	-1.747069228	0.559996118	-3.119788107	0.001809812	0.019755147
METRNL	824.8604462	0.27179439	0.087133122	3.119300504	0.00181281	0.019776666
PIK3CG	924.6306855	0.428391549	0.137380384	3.118287615	0.001819052	0.019833534
ATP8A1	27.86099335	-0.5805083	0.186193159	-3.117774591	0.001822221	0.019856851
TMEM66	5602.111485	-0.206370415	0.06623955	-3.115516553	0.00183623	0.0199982
EFTUD1	575.6755289	0.171433714	0.055048505	3.114230149	0.001844256	0.020074254
FAM108A1	817.5217994	-0.202374113	0.064995875	-3.113645489	0.001847914	0.02009137
ZNF804A	108.7010672	0.286631796	0.092055587	3.113681692	0.001847687	0.02009137
TBXAS1	755.0997653	-0.222429271	0.071445656	-3.11326514	0.001850297	0.020105936
APP	662.0191151	0.177421328	0.056996245	3.112859966	0.001852839	0.020122209
CCL13	14.43430413	1.123010082	0.36101608	3.110692691	0.001866491	0.020259048
PIP4K2C	592.6329649	0.16216814	0.052148009	3.109766679	0.001872352	0.020311222
SAPCD1	10.91140983	-0.973576343	0.313123329	-3.109242439	0.001875677	0.020335847
FPR3	3399.805888	-0.293257078	0.094323886	-3.109043628	0.00187694	0.020338091
EYA4	9.4070752	0.85752965	0.275856278	3.108610238	0.001879695	0.02035474
LONRF1	196.5560622	0.370904878	0.119320732	3.108469671	0.001880589	0.02035474
KCNJ10	3.087738338	-1.582593214	0.509191649	-3.108050213	0.001883261	0.020372207

TBKBP1	163.2272454	0.329264637	0.106003973	3.106153741	0.001895381	0.020491817
PLBD1	2609.671952	-0.280497096	0.090311571	-3.105882137	0.001897123	0.020499145
AKIRIN1	1273.588759	0.219747283	0.070758779	3.105583317	0.001899041	0.020508367
GNL1	426.551696	0.25162295	0.081039215	3.10495296	0.001903093	0.020540609
PLEKHG6	11.5703773	-0.776802442	0.250230905	-3.104342533	0.001907024	0.020571515
LAMC2	17.77500962	0.87069708	0.280557516	3.103453057	0.001912766	0.020621906
DCSTAMP	5038.136037	0.275073136	0.088649723	3.102921556	0.001916204	0.020647422
HUWE1	1015.117063	0.259140314	0.083552102	3.101541513	0.001925159	0.020732313
PLEKHB1	29.2898176	-0.58675975	0.189290186	-3.099789599	0.001936582	0.020843676
GPR161	20.08741693	0.69311412	0.22363151	3.099358049	0.001939405	0.020861047
MINK1	1395.250409	-0.315023518	0.101646327	-3.099212026	0.001940361	0.020861047
RPS6KA4	332.7935289	-0.270438795	0.087289091	-3.098196954	0.00194702	0.020910396
SOAT1	11085.38648	0.208439399	0.067277983	3.098181427	0.001947122	0.020910396
AP2M1	6673.188112	-0.210550684	0.068039435	-3.094538972	0.00197119	0.021157077
PXMP4	73.94162772	-0.311438706	0.100750563	-3.091185769	0.001993589	0.021373667
RASAL2	812.0722322	0.197513414	0.06389427	3.091253932	0.001993131	0.021373667
LY75	479.848243	-0.368503716	0.119241267	-3.090404235	0.001998843	0.021418075
PTPMT1	1109.534726	0.174908088	0.056612184	3.089583853	0.002004371	0.021465378
ACSS3	20.03584532	-0.646951388	0.209410085	-3.089399386	0.002005616	0.021466779
SPATA7	38.53022866	-0.435841251	0.141100407	-3.088873088	0.002009172	0.021492902
C4orf34	506.9944257	-0.166578085	0.053940577	-3.088177689	0.00201388	0.021531307
CLMP	5.009332083	-1.417419408	0.459083437	-3.087498465	0.002018488	0.021568604
FLJ42393	44.34049112	0.641062967	0.207753948	3.085683677	0.002030847	0.02168864
APEH	471.5746994	-0.216431551	0.070160731	-3.084796133	0.002036917	0.021729373
CISD2	823.1955259	-0.275632625	0.089347385	-3.084954586	0.002035832	0.021729373
RPL36A	1377.450449	-0.254509254	0.082536904	-3.083581307	0.002045252	0.021806213
GTF2E2	185.0046943	0.244258599	0.079243716	3.082371859	0.002053581	0.021858727
HTATIP2	423.2305573	-0.262211596	0.085066619	-3.082426447	0.002053205	0.021858727
IL19	3.365531194	2.488887688	0.807415456	3.082536592	0.002052445	0.021858727
ARHGAP22	74.89018538	-0.378539335	0.122831662	-3.081773282	0.002057715	0.021890633
HELB	67.96721974	0.398368163	0.129274297	3.081572852	0.002059101	0.021893287
EGFL8	9.340713984	-0.946325126	0.307226613	-3.080218594	0.002068487	0.021968839
PAK1	422.0328051	-0.229960795	0.074656366	-3.080257006	0.00206822	0.021968839
MAML3	11.02062994	-1.074723416	0.349084026	-3.078695488	0.002079091	0.022069291
GRAMD3	25.4833716	0.47158948	0.153229125	3.077675202	0.002086222	0.02213279
SLC16A10	168.2797115	-0.297180964	0.096578713	-3.077085565	0.002090353	0.022164413
TBC1D9B	1416.638201	-0.148631924	0.048326512	-3.075577319	0.002100954	0.02226457
EIF2S1	456.76123	0.195609352	0.063626118	3.074356215	0.002109574	0.022322474
LOC100500	151.151749	-0.43415409	0.141214966	-3.074419826	0.002109124	0.022322474
ZCCHC10	237.5351343	0.193087416	0.062806731	3.074310884	0.002109894	0.022322474
CASP6	182.4324393	-0.236900073	0.077099172	-3.072666886	0.002121552	0.022421182
SLC47A1	569.1100576	-0.272721233	0.088754642	-3.072754596	0.002120928	0.022421182
LOC645511	45.62358063	-0.38965677	0.126860338	-3.071541331	0.002129567	0.022493549
COX5B	1612.494609	-0.225077358	0.07329213	-3.07096216	0.002133702	0.022524877
MME	42.87388687	-0.302242402	0.098450951	-3.069979524	0.002140734	0.022586742
CCL23	1004.895712	-0.445969314	0.145310333	-3.069081919	0.002147177	0.022642317
THBS1	765.8219943	-0.393853967	0.128347047	-3.068664039	0.002150182	0.022661606

ZNF629	47.12864361	-0.425035639	0.138540506	-3.067952125	0.002155311	0.022703242
VAC14	3085.377442	0.178225669	0.058127846	3.066097966	0.002168722	0.022832026
GPAA1	800.5195624	-0.225564779	0.073574974	-3.065781295	0.002171021	0.022843737
PYCARD	519.2212747	-0.27419807	0.089467291	-3.064785636	0.002178261	0.022907407
C18orf8	315.9922495	0.325404033	0.106216741	3.06358519	0.002187019	0.022986968
TBX20	64.06222741	0.455143121	0.148587572	3.063130473	0.002190345	0.023009375
NR1H4	2.854739323	2.651393149	0.866047853	3.061485735	0.002202415	0.023123556
CLDND1	761.5473505	0.420927695	0.137508777	3.061096936	0.002205277	0.023140993
DGKE	23.56356499	0.534843911	0.17488472	3.058265524	0.002226222	0.023322674
GSPT2	59.20275904	-0.317225125	0.103718808	-3.058511088	0.002224398	0.023322674
TUBB2A	698.0383134	-0.178293439	0.058295871	-3.058423104	0.002225052	0.023322674
GSG2	62.19313463	-0.519505028	0.169924381	-3.057271855	0.002233616	0.023387416
TMC1	3.955715668	1.513909575	0.49539983	3.055934791	0.0022436	0.023479199
LILRB4	3873.173105	-0.238580116	0.078125533	-3.053804635	0.002259592	0.023633711
DOCK8	1714.751316	0.17779245	0.058245543	3.052464449	0.002269706	0.023726619
ANP32A	855.6965923	-0.187398561	0.061409607	-3.051616346	0.002276128	0.023780849
FBL	366.539739	-0.260521414	0.085388693	-3.051005998	0.00228076	0.023816328
FNDC3B	6113.521759	0.218286438	0.07155426	3.050642098	0.002283526	0.023832292
NPLOC4	1347.650338	0.23605242	0.077409338	3.049404961	0.002292952	0.023917708
ABHD14B	296.130847	-0.289165156	0.094932244	-3.046016241	0.002318953	0.024175839
NLK	433.9387372	0.273529533	0.089842355	3.044549893	0.002330288	0.024280867
CHI3L2	31.00963403	0.625963817	0.205621599	3.044251288	0.002332602	0.024291845
GAS7	304.3498875	-0.288545425	0.094841423	-3.042398718	0.002347008	0.024415471
POU2F2	10.72724171	0.90152687	0.296306242	3.042551057	0.00234582	0.024415471
TPD52L1	5.858716072	-1.532187984	0.503978958	-3.040182449	0.002364349	0.024582592
NCKAP5	2.981786799	2.063969621	0.679470994	3.037612552	0.002384603	0.024768924
REXO2	163.7604825	-0.250178653	0.082361106	-3.037582472	0.002384841	0.024768924
INTS6	234.8225466	0.471896304	0.155367049	3.037299779	0.002387079	0.024778809
PPIL1	50.15808595	0.524063986	0.172555129	3.037081477	0.002388809	0.024783409
TFEB	282.528706	-0.301232907	0.099260336	-3.034776203	0.002407142	0.024960174
NDUFA2	592.6237171	-0.217209739	0.071579048	-3.034543569	0.002409	0.024965996
RAD51AP1	40.93108865	-0.429914444	0.141723298	-3.033477562	0.002417527	0.025040899
SLC25A45	74.01542934	-0.330256678	0.108892578	-3.032866745	0.002422425	0.025078156
IER5	2197.947276	0.266030832	0.087721292	3.032682547	0.002423904	0.025079991
CLN6	939.8599853	-0.259057227	0.085428378	-3.032449325	0.002425778	0.025085906
PCCB	169.8231304	-0.265964735	0.087716143	-3.032107045	0.002428531	0.025100897
GPR64	203.940869	0.299689331	0.09885124	3.03172051	0.002431642	0.025107347
MRPL55	128.7693463	-0.259760299	0.085681236	-3.031705776	0.002431761	0.025107347
CDC42SE1	2021.83736	0.213173467	0.070356169	3.029918606	0.002446197	0.025242861
CHST15	100.9556961	0.450088102	0.148558026	3.02971245	0.002447867	0.025246574
PRPF4B	953.0307048	0.145690862	0.048100006	3.028915694	0.002454332	0.025299707
SH3PXD2B	432.7799164	0.403485067	0.133230732	3.028468442	0.002457967	0.025323637
TPRG1L	587.7414409	-0.149834579	0.049479809	-3.028196393	0.002460181	0.0253329
PPP6R3	729.0337582	0.168180275	0.055542893	3.027935101	0.00246231	0.02534127
LYL1	156.4526506	-0.26312586	0.086926296	-3.026999569	0.002469943	0.025406259
PI4K2B	121.5057643	0.387661954	0.128140346	3.025291923	0.002483933	0.025533107
VGLL3	55.98785717	0.958211253	0.316746141	3.025171041	0.002484926	0.025533107

SMAGP	6.221301757	1.453709167	0.48072206	3.024011771	0.002494467	0.025617488
CREBZF	230.6289806	-0.25043929	0.082846228	-3.022941369	0.002503307	0.025694576
EPDR1	143.3476503	-0.331861407	0.10988037	-3.020206508	0.002526024	0.025913939
TTLL11	33.83236967	-0.500681167	0.165949153	-3.017075753	0.002552226	0.026169157
ICMT	486.4869484	-0.217932939	0.072271625	-3.015470302	0.002565811	0.026256975
KIAA2013	992.8889922	-0.187772971	0.062262565	-3.015824556	0.002562815	0.026256975
PSMB8	465.4085519	0.466176314	0.154597718	3.015415237	0.002566277	0.026256975
SSX1	636.2912718	-0.222305038	0.073714999	-3.015736847	0.002563556	0.026256975
CCL7	113.0336391	0.608202768	0.201747755	3.01466932	0.002572596	0.026307659
EBPL	43.93377328	-0.647243263	0.214796691	-3.013283209	0.002584376	0.026386111
KIAA0922	306.3018266	-0.275953539	0.091575298	-3.013405856	0.002583332	0.026386111
NRAS	1176.159717	0.225621482	0.074870968	3.013470888	0.002582778	0.026386111
CHD6	69.49935227	-0.431457228	0.143281949	-3.011246223	0.002601778	0.02654971
DAPK2	4.412871538	-1.299592182	0.43167213	-3.010600155	0.002607319	0.026592174
SLC35E2B	198.7950651	-0.245696674	0.081622264	-3.010167346	0.002611038	0.026616008
ZNF438	275.6023062	0.216236851	0.071867791	3.008814501	0.002622692	0.026720668
DSTN	1896.015343	-0.139507171	0.046393707	-3.007027882	0.002638156	0.02686401
SLX4	103.1478028	0.343653333	0.114375703	3.004600831	0.002659296	0.027064974
C21orf7	55.06604539	0.46852731	0.155990412	3.003564789	0.002668367	0.027142959
JHDM1D	249.2179829	0.269305505	0.08971102	3.001922214	0.002682807	0.027275442
C6orf48	340.0468033	-0.228935206	0.076278253	-3.001316852	0.002688147	0.027315316
DDR1	23.75111146	0.621247263	0.207062406	3.000289985	0.002697227	0.027393132
MGC12916	115.9252924	0.648168494	0.216074607	2.999743948	0.002702067	0.027427826
KBTBD3	30.44907088	-0.517117453	0.172417677	-2.999213666	0.002706774	0.027455211
RNF7	1051.53765	-0.196505976	0.065521231	-2.999119095	0.002707614	0.027455211
NDUFB2	581.2045666	-0.204204222	0.068100108	-2.998588829	0.002712331	0.027488566
DDB2	159.1206336	-0.24221602	0.080788514	-2.998149201	0.002716247	0.027513779
DBF4	194.0563568	0.319497297	0.106693385	2.994537073	0.002748617	0.027827034
IDI1	328.4468166	0.325992758	0.108888771	2.993814281	0.002755136	0.027878387
TNIK	1091.698781	-0.202297107	0.06757951	-2.993468073	0.002758264	0.027895385
DDX59	250.4106587	0.22061921	0.073716707	2.992797962	0.002764327	0.027942036
CCDC50	856.8138044	0.270212702	0.090300001	2.99238869	0.002768036	0.027964855
SPG7	314.2680601	-0.229646137	0.076779186	-2.990994686	0.002780703	0.028078108
MS4A6A	57.26983782	-0.392295372	0.131203583	-2.989974534	0.002790007	0.028157295
KBTBD7	75.0471175	-0.374450292	0.125254525	-2.989515076	0.002794207	0.028184913
C7orf50	446.5505107	-0.332284485	0.11116983	-2.988980784	0.002799097	0.028204712
PHTF2	362.0818703	0.333775322	0.111665212	2.989071661	0.002798265	0.028204712
SLC22A5	138.3639163	-0.2668003	0.089283478	-2.988238205	0.002805908	0.028258556
PAQR4	30.28971149	-0.482695304	0.161554161	-2.987823409	0.002809718	0.028282151
DIS3L	237.3739267	-0.405334529	0.135692167	-2.987162334	0.002815802	0.028313796
NR1D1	81.077635	0.336301997	0.112578688	2.987261662	0.002814887	0.028313796
PCYT1A	839.2314562	0.212182462	0.071056261	2.986119154	0.002825425	0.028395745
ABCA6	27.85413398	0.710724281	0.238134989	2.984543704	0.002840016	0.028527504
GLB1	1150.104089	-0.23266316	0.077969999	-2.984008771	0.002844986	0.028562534
RARRES3	305.3214643	0.643544169	0.215826132	2.981771315	0.00286586	0.028757112
RPL29	5028.573228	-0.189969767	0.063762228	-2.979346439	0.00288864	0.028970606
KCNAB2	2013.026761	-0.317497002	0.106572563	-2.979162675	0.002890373	0.028972905

RIN3	1239.696864	-0.249159244	0.083643508	-2.97882346	0.002893574	0.028989914
MAPK3	158.8252194	-0.31603667	0.106153785	-2.977158742	0.002909333	0.029132648
PPP1R15A	3099.007601	0.300114559	0.100860776	2.975532923	0.0029248	0.029272305
ARHGAP18	1218.786813	0.17043297	0.057288526	2.974993121	0.002929951	0.029308639
CNKSR3	10.32313137	1.083687015	0.364581418	2.972414287	0.002954677	0.029540636
RIT1	1125.417444	0.169128128	0.05693393	2.97060344	0.002972153	0.029699947
C2CD2	127.194172	-0.278054601	0.093692287	-2.967742709	0.002999953	0.029962209
TMEM107	145.5870817	-0.24655759	0.08309534	-2.967165047	0.003005596	0.030003009
CLSTN1	477.2471168	-0.21101185	0.07115121	-2.96568182	0.003020128	0.030116863
CMTM8	6.714459169	-1.212738475	0.408910853	-2.965777177	0.003019191	0.030116863
TMEM199	369.5900243	0.158218169	0.053362153	2.964988475	0.003026943	0.030169207
SZRD1	3201.704917	0.189326204	0.063865842	2.964436048	0.003032383	0.030207799
LOC73010:	25.90885715	-0.51840984	0.174906678	-2.963922508	0.003037448	0.030242618
AKR1A1	1685.565885	-0.19935958	0.067286527	-2.962845428	0.003048096	0.030332963
FOXRED2	14.04042813	-0.821883275	0.277587844	-2.960804275	0.003068369	0.030503194
TALDO1	20205.19952	-0.21723262	0.07336839	-2.960847595	0.003067937	0.030503194
PHLDB1	29.6254062	0.481664854	0.162699695	2.960453341	0.003071866	0.030522217
CSRNP2	49.65997717	0.419952191	0.14193317	2.958802308	0.003088372	0.030670395
LOC64563:	211.5083755	0.280029241	0.094684081	2.957511333	0.003101333	0.030783251
SLC9A7	905.2620286	-0.201684339	0.068250969	-2.955039926	0.003126286	0.031014945
FN3K	27.45962077	-0.55254136	0.187026043	-2.95435518	0.003133232	0.031067855
RARRES1	91.4570736	-0.428790458	0.145192157	-2.953261853	0.003144351	0.031162073
TMEM14E	157.7994188	0.319930331	0.108398675	2.951422907	0.003163135	0.031332112
AGAP3	1949.253637	-0.245751079	0.083302372	-2.950109012	0.003176618	0.0314495
TRPC6	29.25365688	-0.530848753	0.179982178	-2.949451774	0.003183383	0.031500281
LOC10013:	25.29966385	-0.530049133	0.179742212	-2.948940751	0.003188651	0.031536217
TRIM14	1643.110055	0.278331175	0.094398981	2.948455276	0.003193663	0.031569585
SERTAD2	288.0650211	0.309449053	0.104960421	2.948245151	0.003195835	0.031574852
ACOT11	43.46463614	0.420492971	0.142652605	2.94767117	0.003201774	0.031617317
EIF4EBP2	2543.831924	-0.220700568	0.074892632	-2.946892943	0.003209843	0.03168045
EIF5	1500.413639	0.22920018	0.077780995	2.946737559	0.003211456	0.03168045
UNC119	239.3630384	-0.191105387	0.06488071	-2.945488545	0.003224451	0.03179236
CD300E	162.0316724	0.446366653	0.15159852	2.944399801	0.003235817	0.031888108
HDAC9	18.53517548	0.623880585	0.212011011	2.942680101	0.003253845	0.032049371
DUSP14	104.0662058	-0.312446716	0.106206075	-2.941891178	0.003262145	0.032114713
BDH2	51.15241256	-0.409141638	0.139084826	-2.94166984	0.003264478	0.03212126
DNAJC9	128.7003022	-0.279523866	0.095059836	-2.940504401	0.003276783	0.032225886
RBM47	4356.007935	0.235630406	0.080144669	2.940063395	0.003281451	0.032255324
UPB1	4.335791028	1.631296637	0.554885753	2.939878395	0.003283411	0.03225813
SSH2	1083.614817	-0.240612205	0.08185339	-2.939550877	0.003286883	0.032275784
TMEM206	624.2095061	0.216687088	0.073747628	2.938224494	0.003300979	0.032397688
SH3BGR1	3024.015281	-0.266282266	0.090659236	-2.937177484	0.003312145	0.032490724
ZADH2	71.15916437	-0.381513258	0.129928394	-2.936334756	0.003321157	0.032562551
AOAH	8.251252446	-0.876620361	0.298730367	-2.934486939	0.003340996	0.032740403
RPS12	5842.00042	-0.171716992	0.058522834	-2.934187924	0.003344217	0.032755301
RTP4	150.7413594	0.469877869	0.160241818	2.932304913	0.003364562	0.032937834
SMARCA1	6.210520644	1.063182406	0.362691492	2.931368476	0.003374722	0.033020518

FTL	156066.0227	-0.241311735	0.082339719	-2.930684452	0.003382161	0.033076508
ANGPTL4	14.52407821	0.93203588	0.318120279	2.929822276	0.003391559	0.033151588
DDA1	1459.399735	0.155959909	0.053241766	2.92927753	0.003397509	0.033192907
CREBRF	1000.274103	-0.244516594	0.083570583	-2.925869208	0.003434953	0.033541717
TTC33	173.8714764	0.208799971	0.071417967	2.923633624	0.003459717	0.033766417
ZMYND8	148.2075102	0.228595998	0.078199542	2.923239601	0.003464098	0.033792061
ANXA9	7.164247718	-1.157427766	0.396021686	-2.922637341	0.003470805	0.03384035
GUCY1B2	9.054118041	-0.908812457	0.310993117	-2.922291227	0.003474665	0.033843727
VPS37B	673.8082618	0.243301954	0.083252861	2.922445568	0.003472943	0.033843727
ATG4A	181.406607	0.276614557	0.094717412	2.920419269	0.003495608	0.033996788
EAPP	249.6403025	-0.266689121	0.091309571	-2.920713754	0.003492305	0.033996788
FES	66.73670627	-0.399549556	0.136812669	-2.920413423	0.003495673	0.033996788
IL18BP	137.3543223	0.547199822	0.187403829	2.919896695	0.003501474	0.034018863
MPST	134.5803486	-0.31891621	0.10921606	-2.920048677	0.003499767	0.034018863
ANKRD33E	4.223258813	1.481672966	0.507563108	2.919189638	0.003509427	0.034078938
TOP2A	7.420910679	-1.052891775	0.361071828	-2.91601752	0.003545306	0.034410007
GLIPR1	571.5422627	-0.434112039	0.148947185	-2.914536712	0.003562169	0.034556269
GAL	41.75257963	-0.491447698	0.168649362	-2.9140205	0.003568065	0.034596042
MMP2	45.64819958	-0.419212099	0.143869695	-2.913831846	0.003570222	0.034599542
FAM78A	549.4762746	-0.297334532	0.102066295	-2.913151029	0.003578015	0.034657636
ATP8B1	28.79335888	-0.705277759	0.242144829	-2.912627792	0.003584015	0.03469831
CDIPT	813.1228902	-0.23298521	0.080010105	-2.91194732	0.003591832	0.034756523
CCND3	908.933466	0.264446093	0.090878315	2.909892133	0.003615535	0.034944251
SHMT1	24.24400592	-0.584384456	0.200840457	-2.90969492	0.003617817	0.034944251
TCEAL1	16.2355268	-0.475169206	0.163295802	-2.909867861	0.003615816	0.034944251
ZNF93	50.71306362	-0.315587211	0.108462743	-2.909637003	0.003618488	0.034944251
ABL2	1740.059641	0.395204237	0.135880083	2.908478034	0.003631927	0.03503891
SLTM	1069.330872	0.175335689	0.060283281	2.908529279	0.003631332	0.03503891
FOXO1	130.118046	-0.237831298	0.081779403	-2.908205357	0.003635095	0.035051926
FUK	99.40496509	-0.306340232	0.105366901	-2.907366831	0.003644855	0.035128452
DNAJC7	1062.478172	0.196781413	0.067710226	2.906228865	0.003658138	0.035238841
PYURF	695.0097168	-0.145520979	0.050083566	-2.905563476	0.003665925	0.035296206
BAHCC1	14.25703261	-0.627863564	0.216195055	-2.904153215	0.003682479	0.035437882
PDGFA	31.03201191	0.495860874	0.170770945	2.903660647	0.003688277	0.035475958
MAT2A	1813.792215	0.20862858	0.071860033	2.90326309	0.003692963	0.035503302
LRP5L	16.62040062	-0.592473817	0.20413841	-2.902314254	0.003704168	0.035575519
VEGFB	582.4634727	-0.292851614	0.100899362	-2.902412941	0.003703001	0.035575519
GNB5	40.79374393	-0.569090224	0.196114558	-2.901825487	0.003709951	0.035613316
ARFIP2	176.259028	0.232997411	0.080310775	2.901197395	0.003717396	0.035660038
PORCN	74.50477862	-0.296250881	0.102122138	-2.900946705	0.003720371	0.035660038
RAB31	4494.181159	0.256780737	0.088514685	2.900995882	0.003719788	0.035660038
AOC2	65.80138508	0.398465597	0.137465772	2.898653187	0.003747692	0.035899913
HSP90B1	11063.09856	0.194251269	0.067017089	2.898533374	0.003749124	0.035899913
MSANTD3	844.9108578	0.274873083	0.09488729	2.896837738	0.003769447	0.036076582
FCGR2B	5.831613147	1.457611814	0.503265035	2.896310519	0.003775786	0.036109814
USP7	1241.731081	0.140018488	0.048344965	2.896237257	0.003776667	0.036109814
SUCO	259.6422967	0.248582322	0.085900929	2.893825765	0.003805793	0.03637024

RPS6	4068.761649	-0.164134751	0.056724324	-2.893551463	0.003809119	0.036383976
S1PR4	98.4008006	-0.328664514	0.113601208	-2.893142782	0.003814079	0.0364133
FUBP1	759.2835703	0.234338273	0.081012112	2.892632565	0.003820279	0.036454433
C6orf1	427.1660222	-0.245945647	0.085036072	-2.892250807	0.003824925	0.036480693
FAM109B	82.06722236	-0.315369317	0.109144245	-2.889472713	0.003858885	0.036786382
MICALCL	37.61067952	0.642241201	0.222641489	2.884642951	0.003918578	0.037336956
MAP3K6	47.9235477	-0.423407014	0.146876086	-2.88274985	0.003942204	0.037514392
PVRL2	404.5227705	0.298702424	0.103619927	2.882673552	0.003943159	0.037514392
SNX20	146.2686531	-0.298047682	0.103391768	-2.882702261	0.003942799	0.037514392
UBE2Q1	568.5382866	0.157703317	0.054710085	2.882527341	0.003944989	0.037514392
ZBTB7A	1091.953245	0.217830643	0.075610343	2.880963547	0.003964615	0.037682423
SNX9	108.6155686	0.277242716	0.096251432	2.880400961	0.003971697	0.037731123
ANAPC15	144.7649533	-0.329817388	0.114565946	-2.878843146	0.003991368	0.037898591
SNRPG	189.5637206	0.204086126	0.070895394	2.878693706	0.00399326	0.037898591
AIFM2	89.80846513	0.317698657	0.110404602	2.877585286	0.004007316	0.038013267
FAM190B	550.8987502	0.201007595	0.0698674	2.876986911	0.004014922	0.038066681
ABHD6	462.9903045	-0.225286455	0.078328661	-2.876168844	0.004025343	0.038146711
SS18	744.6535977	0.267887921	0.093205287	2.874170879	0.004050897	0.038370003
APOE	29349.31247	-0.244075853	0.084925412	-2.874002565	0.004053057	0.038371593
IQCC	11.43856742	-0.712721749	0.24826634	-2.870794924	0.004094411	0.038744064
NUDCD1	132.4652644	0.24221985	0.084394308	2.870096997	0.004103459	0.038810624
UHRF1BP1	405.7884458	0.205437348	0.07159513	2.869431875	0.004112099	0.038873258
CPNE2	390.9179583	-0.241252558	0.084111162	-2.86825852	0.004127381	0.038960377
TLR5	34.69423839	-0.679570011	0.23690842	-2.868492429	0.004124331	0.038960377
YIPF6	594.5703486	0.220447824	0.076856234	2.868314166	0.004126655	0.038960377
LOC10028:	316.1616998	-0.182409435	0.063603216	-2.867927849	0.004131697	0.038982019
REEP6	8.294948073	-0.965448541	0.336678888	-2.867564835	0.00413644	0.039007666
CUL1	845.3402552	0.190227132	0.066362442	2.866487819	0.004150541	0.039121492
NOXA1	12.40484156	-0.704269309	0.245766298	-2.865605724	0.004162123	0.03921147
CCDC88C	15.56367945	-0.661851303	0.230987848	-2.865307882	0.00416604	0.03921169
LSM6	161.6608534	-0.296778668	0.103577023	-2.865294443	0.004166217	0.03921169
SAFB	720.5416976	0.106598876	0.037205813	2.865113491	0.004168598	0.039214947
MLLT11	11.95601532	0.614738584	0.214821073	2.861630733	0.004214676	0.039629066
NUDT7	7.999292517	-0.784928477	0.274385014	-2.860682752	0.004227298	0.039728356
MAZ	2349.280647	-0.231344003	0.080884424	-2.860179889	0.004234008	0.039733264
MED11	138.6185754	-0.305995423	0.106981988	-2.860251779	0.004233048	0.039733264
ST3GAL2	866.5874216	0.302264139	0.105670084	2.860451397	0.004230384	0.039733264
FBXL4	127.7875281	-0.274000147	0.095854318	-2.858506032	0.00425641	0.03992405
PSIP1	48.40553329	-0.381156798	0.133384805	-2.857572855	0.004268946	0.04002215
CDKL1	65.70073792	0.302190916	0.105812075	2.855920899	0.00429122	0.040211406
ZC3H3	132.9343898	0.315093194	0.110347425	2.855464852	0.004297388	0.040249624
CDK17	418.3786155	0.243612603	0.085336721	2.854721862	0.004307453	0.04030471
CYBASC3	590.8537679	-0.266058691	0.093195067	-2.854858077	0.004305606	0.04030471
ANKRD6	44.16818574	-0.309886516	0.108562573	-2.854450735	0.004311132	0.040319546
C17orf100	21.39964062	-0.68632583	0.240462683	-2.854188527	0.004314692	0.040333262
FAM127C	61.2288777	-0.368538653	0.129156687	-2.853422932	0.004325102	0.040410965
HK2	3088.559117	0.135500192	0.047520634	2.851396968	0.004352759	0.040649663

OR6N2	24.30796551	-0.775253335	0.271950908	-2.850710595	0.004362165	0.04071777
UBE2M	1124.162068	0.228755851	0.080253196	2.850426693	0.004366061	0.040734401
EZH2	140.8992504	0.494513846	0.173542582	2.849524533	0.004378463	0.0408234
HSP90AA1	13222.76596	0.220138438	0.077257155	2.849424611	0.004379838	0.0408234
ST5	15.42628931	-0.642566574	0.225525185	-2.849200964	0.004382919	0.040832355
COMMD9	417.4400664	-0.252435936	0.088609229	-2.848867322	0.004387517	0.040855442
PNPLA7	6.070827235	-1.017950935	0.357531378	-2.847165304	0.004411045	0.041054683
IFFO1	244.6129658	-0.263515102	0.092580761	-2.846326803	0.004422678	0.041143078
STAP2	51.99119473	-0.489878288	0.172119521	-2.846151823	0.004425109	0.041145827
PTGER3	48.87887079	0.556949043	0.195768248	2.844940624	0.00444197	0.041282681
EIF2C1	200.3097459	-0.288196628	0.101316513	-2.844517827	0.00444787	0.041317578
RPS11	12986.6518	-0.191945308	0.067525053	-2.842579139	0.004475012	0.041549677
UBE2N	1091.712731	0.203590064	0.071655851	2.841220383	0.004494124	0.041707033
SEC61G	2076.383301	0.203203705	0.071535249	2.840609462	0.004502742	0.041766886
PDGFRL	3.304313232	2.036556126	0.717184915	2.839652764	0.004516266	0.04187218
CSF2RA	1846.807072	0.183395064	0.064595554	2.839128266	0.004523697	0.041920897
EIF2C3	393.2681021	0.22291403	0.078519592	2.838960621	0.004526074	0.041922762
UBE3C	346.0712414	0.276807937	0.097546212	2.837710768	0.004543834	0.042067034
MFGE8	234.5326966	-0.352682981	0.12431204	-2.837078216	0.004552846	0.042130224
PON2	34.29357336	-0.717067626	0.252787391	-2.836643172	0.004559053	0.042167413
NUMB	4181.315769	0.182428514	0.064330086	2.835819532	0.004570827	0.04225602
CD14	3176.708984	-0.373402726	0.131686133	-2.835550853	0.004574673	0.042271296
MCM4	201.9058716	0.337106475	0.118895923	2.835307263	0.004578163	0.042283264
HAUS3	2.861678863	1.358144457	0.479039425	2.835141297	0.004580542	0.042284967
SWAP70	1174.003799	-0.232154648	0.081899962	-2.834612421	0.004588131	0.042334739
CENPF	16.64893644	-0.585907783	0.206809896	-2.833074218	0.004610268	0.042518633
ITFG3	315.1053785	-0.202626638	0.07158329	-2.830641586	0.004645475	0.042822829
NECAP1	928.6753381	0.222822024	0.078724232	2.830412161	0.004648807	0.042833058
TCFL5	19.28929331	-0.756463815	0.267282961	-2.83019843	0.004651914	0.042841195
ETFB	231.5930338	-0.29367209	0.103770972	-2.830002315	0.004654767	0.042846983
CLN3	566.4023545	-0.172531825	0.060984931	-2.829089461	0.004668065	0.042948871
DOCK3	101.9854877	0.375545593	0.132801928	2.82786251	0.004685993	0.043072679
MCM5	261.8117686	-0.306195785	0.108274989	-2.827945644	0.004684776	0.043072679
TMEM176	1117.828834	-0.382827788	0.135453886	-2.826259183	0.004709514	0.043268239
SYPL1	707.8416372	-0.13084548	0.046301482	-2.825945862	0.004714123	0.04328994
PTGIR	7.079697021	1.000425	0.354056346	2.825609572	0.004719074	0.043314764
GPR34	57.02716858	-0.596931539	0.211296577	-2.825088543	0.004726755	0.043364603
DOCK5	363.1501367	0.279588345	0.099012602	2.823765242	0.004746314	0.0435049
SACM1L	1101.566364	0.147645219	0.052286961	2.823748336	0.004746564	0.0435049
PDCD6IP	3044.745128	-0.246329934	0.087242916	-2.823494978	0.004750317	0.043518596
ZNF513	83.83449874	0.325854177	0.115438694	2.822746576	0.004761419	0.043599573
FERMT1	1.502823436	2.219751561	0.786590095	2.821992771	0.004772625	0.043681425
SLC22A23	4.584284651	0.961793145	0.34086951	2.821587493	0.00477866	0.04371589
SLC25A29	134.1675909	-0.381680695	0.135296866	-2.821060863	0.004786512	0.04376694
S100A3	4.48457931	1.291828596	0.457952655	2.820878059	0.00478924	0.043771113
AMMECR1	183.7684237	0.244049857	0.086523228	2.820628212	0.004792972	0.043784443
HMGCR	311.4087169	0.184765634	0.065518256	2.820063371	0.004801417	0.043831735

RAB11FIP3	100.2323873	-0.265454826	0.094133661	-2.819977702	0.004802699	0.043831735
PDZD7	26.99736513	-0.630026229	0.223455084	-2.81947592	0.004810214	0.043877347
WHAMM	341.4538952	0.244187912	0.086611729	2.819340015	0.004812251	0.043877347
WLS	388.6549857	-0.248981864	0.088369189	-2.817518932	0.004839626	0.044106072
RRM2B	122.7930714	-0.233935729	0.08306727	-2.816220272	0.004859234	0.044263829
ZER1	250.02074	-0.217994755	0.077418607	-2.8157928	0.004865704	0.044301818
LGALS8	888.1381081	0.184770348	0.065640973	2.814863016	0.004879803	0.044409203
ZDHC5	903.0267723	0.226220808	0.080373338	2.814625026	0.004883418	0.044421118
ADH5	1563.98276	-0.194535966	0.069127786	-2.814150119	0.004890638	0.044465804
AKAP11	312.8273846	-0.174652545	0.062066059	-2.813978326	0.004893253	0.044468588
ANLN	11.83502886	-0.757108101	0.269105845	-2.813421242	0.004901739	0.044488082
GPR157	300.9206328	-0.219844645	0.078142457	-2.813382802	0.004902325	0.044488082
XRN1	168.2596343	0.484948279	0.172368947	2.813431812	0.004901578	0.044488082
CBX8	27.79868036	-0.403222176	0.143334473	-2.8131556	0.004905791	0.04449857
COMMD7	20.11411896	-0.550004329	0.195523093	-2.812989099	0.004908332	0.044500666
ZNF326	94.61619168	0.276179468	0.098243638	2.811168976	0.004936185	0.044732149
TLE6	6.220834938	-1.640364259	0.583558636	-2.810967325	0.00493928	0.04473915
PDCD6	919.1316586	-0.154636841	0.055015181	-2.810803081	0.004941802	0.044740958
GLRX5	586.583274	-0.161631154	0.057507097	-2.810629704	0.004944466	0.044744046
NMI	279.7039791	0.305585837	0.108771954	2.809417549	0.004963123	0.044870731
PVRL4	8.003138622	-0.897379186	0.319414125	-2.809453669	0.004962566	0.044870731
LRP3	14.98467468	-0.515512448	0.183517863	-2.80905869	0.004968659	0.044899709
SLC25A32	650.0826929	0.331452808	0.1180057	2.808786413	0.004972863	0.04491663
TNPO2	116.3959605	0.254355548	0.090574387	2.808250271	0.00498115	0.0449704
FGD2	232.0141237	0.321560773	0.114542736	2.807343227	0.004995199	0.045076112
USP25	848.8947223	0.190892013	0.068056152	2.804919295	0.005032918	0.045395224
MAPKAPK5	61.56236204	-0.306108718	0.109221961	-2.802629759	0.005068782	0.045697313
ELL2	2899.50955	0.243281648	0.086851093	2.801135129	0.005092319	0.045888035
AIG1	98.99376576	-0.376793969	0.134551261	-2.800374863	0.005104329	0.045931812
ANKRD1	4.396790313	1.598341219	0.570748278	2.800431085	0.00510344	0.045931812
SEC61B	2257.283482	0.259419187	0.092631532	2.800549468	0.005101569	0.045931812
APBA3	354.9945636	0.204263381	0.072959113	2.799696599	0.005115066	0.046006937
AAMDC	82.381955	-0.305992434	0.109316174	-2.799150612	0.005123723	0.0460633
HLA-DQA1	7063.402962	0.368894831	0.131817466	2.798527698	0.005133617	0.046130717
PTPRC	546.6343534	0.22561596	0.080628429	2.798218481	0.005138534	0.046135419
SIRPD	19.64793153	-0.626074448	0.223742358	-2.798193656	0.005138929	0.046135419
AACS	99.77379703	0.260993714	0.093291677	2.797609854	0.005148226	0.046197353
FBXW7	237.8891233	0.176187092	0.063007659	2.796280537	0.005169451	0.046366218
C11orf96	26.43162105	0.891064547	0.318771557	2.79530757	0.005185036	0.046484366
COA1	298.216718	-0.225778344	0.080779424	-2.794998189	0.005190001	0.046507233
FAM104A	356.7846086	0.156634745	0.056044939	2.794806239	0.005193083	0.04651322
TTC19	181.3519808	-0.174096283	0.062311041	-2.793987724	0.005206246	0.046609445
C7orf43	784.2630911	0.281848882	0.100887358	2.793698706	0.0052109	0.04662945
DDX10	549.9213854	0.165563161	0.059282395	2.792788002	0.005225593	0.046739215
AVPI1	923.3217256	-0.206837111	0.074069933	-2.792457133	0.00523094	0.04676533
IL1R1	38.59793554	0.539536759	0.193294929	2.791261837	0.005250298	0.046916624
MYEOV2	1733.661433	-0.207833115	0.074463181	-2.791085657	0.005253157	0.046920408

EIF4E	1461.090631	0.231101515	0.082853447	2.789280644	0.005282527	0.047160871
EHMT2	201.1780008	-0.254829025	0.091383598	-2.788564142	0.005294226	0.047243429
RPL27	5839.699349	-0.192726267	0.069138236	-2.787549679	0.005310831	0.047369663
EMR2	1066.012872	0.233604292	0.0838464	2.786098047	0.005334673	0.047560304
NMB	347.090275	-0.379422173	0.136254547	-2.784656966	0.005358438	0.047750076
PTBP1	2647.563281	0.293269958	0.105450938	2.78110335	0.005417449	0.048253614
ACYP2	223.8866005	0.344908837	0.124053657	2.780319782	0.005430539	0.048320693
GSTP1	4929.658299	-0.226833151	0.081588721	-2.780202329	0.005432504	0.048320693
PRKCB	131.2645428	0.399633426	0.143739613	2.780259515	0.005431547	0.048320693
XIAP	510.3295503	0.177471835	0.063837818	2.780042321	0.005435181	0.048322199
NCF1C	683.019909	-0.267670858	0.096363256	-2.777727421	0.005474052	0.048645333
TMEM245	618.7473063	-0.208958246	0.075286055	-2.77552393	0.005511284	0.048953621
SRRT	334.2692665	0.273241026	0.098452091	2.775370474	0.005513886	0.048954158
CACFD1	27.62637796	-0.40103893	0.144552905	-2.774340164	0.005531381	0.049086864
IFT122	169.226172	-0.210029703	0.075716753	-2.773886804	0.005539095	0.049132689
SNURF	99.23488897	-0.365681929	0.131980585	-2.77072518	0.005593161	0.049589435
RAD9A	89.09334453	0.2435239	0.087968031	2.768322731	0.005634563	0.049933527
CGNL1	1.89049144	2.378515951	0.859270678	2.768063676	0.005639044	0.04995026
SLC25A33	174.5825788	0.217825861	0.078698607	2.767849024	0.005642759	0.049958105
VBP1	762.3100344	0.188968659	0.068276105	2.767712934	0.005645116	0.049958105

for AMs
oint.

Additional file 6: Table S4. Differential expression of RNAs control versus *M.tb* infected AMs in all 28 donor AMs at 2h, 24h and 72h (Suppl. Tables S4A, B, and C), using separate non-infected control AMs for each time point.

S4C: 72h						
Gene	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj
RSAD2	2766.166392	4.912946254	0.278596558	17.6346265	1.34E-69	2.49E-65
INHBA	1589.223749	4.704128144	0.298514944	15.75843434	6.01E-56	3.73E-52
TNFAIP6	6758.379874	5.024082354	0.31833882	15.78218562	4.13E-56	3.73E-52
CCL20	741.8013063	5.442185696	0.350716164	15.51735063	2.65E-54	9.87E-51
GCH1	222.5524284	3.149521133	0.202884759	15.52369509	2.40E-54	9.87E-51
CCL4	2974.633871	3.50536249	0.226630075	15.46733149	5.76E-54	1.79E-50
AMICA1	301.6239116	-2.201229689	0.154924876	-14.20836824	8.13E-46	2.16E-42
DUSP5	476.0351968	1.894539217	0.133440894	14.19759083	9.48E-46	2.21E-42
ISG20	122.6101873	4.931518474	0.348843835	14.13675113	2.25E-45	4.67E-42
HSD11B1	418.4518623	3.264902195	0.232085399	14.06767596	6.00E-45	1.12E-41
SLC46A1	214.4879827	-2.208056161	0.15705516	-14.05911251	6.77E-45	1.15E-41
PARP14	2221.977369	1.09076621	0.078136802	13.95969871	2.75E-44	4.26E-41
GBP1	3987.926154	2.269253112	0.164831025	13.76714794	4.02E-43	5.76E-40
ISG15	2322.407963	3.042976714	0.222291986	13.6890977	1.18E-42	1.57E-39
GBP4	829.6809044	1.593093439	0.118418958	13.45302698	2.96E-41	3.67E-38
DDX60	541.9428301	1.420289236	0.105611976	13.4481835	3.16E-41	3.67E-38
MX1	5014.427796	2.317716106	0.178746178	12.96652123	1.89E-38	2.08E-35
MT2A	9296.041803	2.57891486	0.198986085	12.96027743	2.06E-38	2.13E-35
IFI6	17405.81014	2.13935216	0.165889432	12.89625345	4.73E-38	4.63E-35
DENND5A	1840.833712	0.90270097	0.070175393	12.86349712	7.22E-38	6.73E-35
LAP3	6161.425629	1.386212939	0.108939729	12.72458584	4.32E-37	3.83E-34
DDX58	1316.752241	1.676124395	0.132996934	12.60272956	2.04E-36	1.66E-33
EIF2AK2	1660.364012	1.423201061	0.112929968	12.60251008	2.05E-36	1.66E-33
CCL15	447.0541085	3.561820127	0.283849539	12.54826813	4.06E-36	3.15E-33
IRF7	1201.154915	2.144264023	0.171147333	12.52876095	5.20E-36	3.87E-33
CXCL10	870.2579647	5.585627367	0.447468287	12.48273349	9.27E-36	6.65E-33
DHX58	275.3946294	1.574567754	0.129377125	12.17037208	4.47E-34	3.09E-31
PLSCR1	2242.680524	1.211268365	0.100193533	12.08928689	1.20E-33	8.01E-31
TAP1	2681.04615	1.7444439	0.144647287	12.0599835	1.72E-33	1.10E-30
CFB	1057.334343	2.129105382	0.178067886	11.9567061	5.99E-33	3.72E-30
PCED1B-AS1	250.6489094	-1.722730348	0.144205036	-11.94639519	6.78E-33	4.08E-30
IL7R	1092.261596	2.337986614	0.195863055	11.9368434	7.61E-33	4.43E-30
USP18	300.4633859	2.522472499	0.212719279	11.85822231	1.95E-32	1.10E-29
OAS3	1927.81696	2.192065824	0.185080395	11.84385751	2.32E-32	1.27E-29
APMAP	1007.919348	-0.76067966	0.064340367	-11.82274358	2.98E-32	1.59E-29
IFITM3	1329.295818	2.404214647	0.204214841	11.77296733	5.38E-32	2.78E-29
PARP9	439.2009568	1.622455721	0.137843289	11.77029168	5.55E-32	2.80E-29
IFITM1	1202.969255	2.409818839	0.205110503	11.74888074	7.16E-32	3.51E-29
CCL3	2341.89353	2.386573624	0.204115495	11.69227073	1.40E-31	6.67E-29
ATF3	1732.626154	1.183190005	0.101266107	11.68396849	1.54E-31	7.17E-29
TAP2	1042.801022	1.282061881	0.110455508	11.60704348	3.80E-31	1.72E-28
IFIT1	737.6343114	2.990994854	0.258123489	11.58745712	4.77E-31	2.12E-28
HERC6	197.838323	1.938677731	0.16956914	11.43296316	2.86E-30	1.24E-27
CYP27B1	238.3203023	2.945249934	0.258100488	11.41125286	3.67E-30	1.56E-27

CCL5	1058.348222	2.931077686	0.257452285	11.38493559	4.97E-30	2.06E-27
CD274	1261.138089	1.874900762	0.165263726	11.34490189	7.86E-30	3.18E-27
PVALB	324.2809752	-1.744078735	0.153965048	-11.32775755	9.56E-30	3.79E-27
CXCL11	58.5470209	6.26355157	0.558115236	11.22268515	3.16E-29	1.22E-26
APOC2	2469.901298	-0.947206379	0.084511323	-11.20804103	3.72E-29	1.39E-26
HCAR3	118.1955462	1.952025123	0.174160356	11.20820586	3.72E-29	1.39E-26
SLC27A1	409.9289624	-0.959618396	0.085879494	-11.17401084	5.47E-29	2.00E-26
NUB1	1168.309329	0.989962293	0.088709551	11.15959085	6.43E-29	2.30E-26
TBXAS1	1061.145358	-0.729772197	0.065415415	-11.15596686	6.70E-29	2.35E-26
MMP2	289.6741024	-1.291387165	0.115915986	-11.14071675	7.95E-29	2.74E-26
TNF	404.1194724	1.769861229	0.159050901	11.12764036	9.20E-29	3.12E-26
IL8	10902.81257	3.545304826	0.318915345	11.11675834	1.04E-28	3.46E-26
SP110	124.3002386	1.145559185	0.10310926	11.11014844	1.12E-28	3.66E-26
IDO1	1430.348017	5.278127417	0.476004459	11.0883991	1.43E-28	4.51E-26
SLA	1837.70283	-1.164793013	0.105042199	-11.08881022	1.42E-28	4.51E-26
IFIT3	339.5508923	2.182106406	0.197046327	11.07407806	1.68E-28	5.20E-26
SORL1	449.2567445	-1.394893211	0.126205392	-11.05256435	2.13E-28	6.51E-26
HERC5	772.4780296	1.802035743	0.164637438	10.94547971	6.98E-28	2.10E-25
SERPINE1	1289.02002	2.147360197	0.196457918	10.93038256	8.25E-28	2.44E-25
CFP	1022.458724	-2.019951444	0.185098675	-10.91283577	1.00E-27	2.87E-25
EDN1	376.4675399	3.722651047	0.341106019	10.91347218	9.94E-28	2.87E-25
CHMP5	2554.279105	0.832240721	0.076350989	10.90019564	1.15E-27	3.25E-25
FAM129A	1785.228785	0.945454443	0.086786811	10.89398755	1.23E-27	3.42E-25
KIAA1462	115.3218534	3.306321166	0.304133075	10.87129759	1.58E-27	4.33E-25
MT1E	652.8391469	2.592876053	0.238733219	10.86097722	1.77E-27	4.78E-25
IL15RA	550.736194	1.599772569	0.148674208	10.76025621	5.30E-27	1.41E-24
GPX1	17708.2123	-0.472746566	0.043970907	-10.75134894	5.84E-27	1.53E-24
CA12	115.4887448	5.304719422	0.493594298	10.74712459	6.11E-27	1.58E-24
CD180	107.4836498	-2.797711456	0.260564778	-10.73710531	6.81E-27	1.74E-24
APOC1	11512.39423	-1.165106105	0.10853132	-10.73520621	6.96E-27	1.75E-24
CD101	446.4578966	-1.673527837	0.156220875	-10.712575	8.89E-27	2.21E-24
FCN1	113.0727082	-2.239521806	0.209393539	-10.69527656	1.07E-26	2.63E-24
SOD2	40415.61856	1.494327972	0.14017155	10.66070808	1.55E-26	3.76E-24
SLAMF7	3641.902894	1.678641859	0.158208718	10.61029937	2.67E-26	6.38E-24
CP	342.6400297	4.299839563	0.406090131	10.58838725	3.37E-26	7.96E-24
CMPK2	899.2343634	2.67594995	0.25338719	10.5607152	4.53E-26	1.06E-23
HCAR2	117.7607998	2.130306631	0.20185798	10.55349229	4.89E-26	1.13E-23
TNS1	868.6747094	-1.284127242	0.122078541	-10.51886132	7.07E-26	1.61E-23
MTF1	530.6519809	1.000704251	0.095148471	10.51729197	7.19E-26	1.61E-23
PSME2	1534.389497	1.100478047	0.104768211	10.50393091	8.29E-26	1.84E-23
MT1H	1637.737026	3.988660452	0.379885967	10.49962566	8.67E-26	1.90E-23
IFIT2	1584.107584	2.066882772	0.197514964	10.46443636	1.26E-25	2.73E-23
C15orf48	3458.535489	1.893377838	0.181084795	10.45575271	1.38E-25	2.95E-23
HAMP	185.648606	-1.964881907	0.188198962	-10.44045028	1.62E-25	3.43E-23
FNIP2	2034.43235	0.880503018	0.08441354	10.4308268	1.79E-25	3.75E-23
IFI44L	468.4473681	3.918083374	0.376015792	10.41999686	2.01E-25	4.16E-23
ABTB2	58.51100617	2.252638708	0.217109699	10.37557841	3.20E-25	6.56E-23
OASL	420.2742717	1.809657206	0.174474882	10.37202139	3.32E-25	6.72E-23
SAMD9L	508.4629199	1.489439716	0.143613818	10.37114487	3.35E-25	6.72E-23

RNF213	2198.399036	0.827722097	0.080126283	10.33021953	5.14E-25	1.02E-22
S100A16	216.3885508	1.861681979	0.180274568	10.32692518	5.32E-25	1.04E-22
GBP5	1350.007194	2.354465415	0.228037795	10.32489116	5.44E-25	1.06E-22
TMEM132,	131.106302	2.495729317	0.243042538	10.26869344	9.75E-25	1.87E-22
ZNFX1	1083.590849	1.080947699	0.105563951	10.23974268	1.32E-24	2.50E-22
PML	355.8278722	1.454560492	0.142400979	10.21453995	1.71E-24	3.21E-22
SLC39A8	1342.242482	1.992889426	0.195372779	10.20044573	1.97E-24	3.68E-22
PLEKHM3	578.5265059	0.849872802	0.083458752	10.18314775	2.36E-24	4.35E-22
GPR34	230.4374221	-2.164033835	0.213364881	-10.14240873	3.58E-24	6.54E-22
DTX3L	1300.4399	0.810374678	0.079921332	10.13965428	3.68E-24	6.60E-22
RASGEF1B	1386.449703	0.727803728	0.071771517	10.1405649	3.65E-24	6.60E-22
TREM2	2341.249012	-1.323681721	0.130593333	-10.13590578	3.83E-24	6.79E-22
ZNF697	158.1350193	1.028435855	0.10218939	10.06401794	7.97E-24	1.40E-21
GP1BA	38.99770464	3.58931006	0.358334513	10.01664626	1.29E-23	2.24E-21
IFIT5	294.8087678	1.304902081	0.13028783	10.01553316	1.30E-23	2.25E-21
MT1G	301.4058655	3.877751981	0.38723744	10.01388703	1.32E-23	2.26E-21
TSC22D1	1741.409104	1.387912981	0.138649335	10.01023904	1.37E-23	2.33E-21
MPZL2	245.0265714	-1.19550628	0.11952295	-10.00231567	1.49E-23	2.50E-21
C1S	1082.185596	1.675232461	0.167508741	10.00086596	1.51E-23	2.51E-21
IL1RN	11877.21319	1.18378822	0.118420606	9.996471584	1.58E-23	2.60E-21
AIF1	1914.490832	-1.204311448	0.120662639	-9.980814741	1.85E-23	3.02E-21
NFKB2	1444.096116	1.176460617	0.11789751	9.978672255	1.89E-23	3.06E-21
AMPD3	655.7629627	1.323543746	0.132772388	9.968516571	2.09E-23	3.36E-21
SGPP2	30.91527904	4.823623143	0.484271113	9.960584096	2.27E-23	3.61E-21
HADH	391.1493115	-1.033292891	0.103886434	-9.946369784	2.62E-23	4.13E-21
CIDEB	63.98620249	-2.09931081	0.211475956	-9.926947965	3.18E-23	4.98E-21
HAPLN3	79.41565647	3.193595517	0.322691397	9.896748234	4.30E-23	6.68E-21
NEURL3	44.14800248	4.013884864	0.405728018	9.893043327	4.46E-23	6.87E-21
NAIP	250.4221679	-1.261435718	0.128450644	-9.820392359	9.20E-23	1.40E-20
EMP1	1055.798164	1.02807715	0.104722065	9.817197044	9.49E-23	1.43E-20
ETV7	16.18436872	3.420683831	0.348450982	9.816829367	9.53E-23	1.43E-20
CTTN	481.6368911	1.799225073	0.183469941	9.806647663	1.05E-22	1.57E-20
HELZ2	164.1388679	2.758407713	0.281421391	9.801698804	1.11E-22	1.64E-20
PPBP	55.89162593	3.722882874	0.380539047	9.783182307	1.33E-22	1.95E-20
PDLIM4	231.2708331	1.800260944	0.184659852	9.749065223	1.86E-22	2.71E-20
AK4	251.3012323	1.480147192	0.151853806	9.747185324	1.90E-22	2.74E-20
LDLR	248.0545692	2.607715683	0.267593107	9.745077933	1.94E-22	2.78E-20
PHLDA2	85.23705958	1.201206519	0.123333438	9.739504057	2.05E-22	2.91E-20
TP53BP2	975.2876902	0.734546628	0.075487109	9.730755846	2.23E-22	3.15E-20
GOS2	1765.142826	3.629002678	0.37308578	9.72699275	2.31E-22	3.24E-20
SEMA4D	838.2322886	1.3037253	0.134057881	9.72509258	2.36E-22	3.28E-20
STAT1	7603.745133	1.682764921	0.173099554	9.72137062	2.44E-22	3.37E-20
IFI27	3112.567635	1.58217176	0.162956932	9.709140579	2.76E-22	3.78E-20
IL3RA	102.4733616	3.659943266	0.377348511	9.699106146	3.04E-22	4.14E-20
BIRC3	394.4694124	1.056631001	0.109024638	9.691671681	3.27E-22	4.42E-20
TSPAN3	2615.421522	0.959783028	0.099083742	9.686584397	3.44E-22	4.61E-20
PTGS2	254.0264258	2.871438618	0.296505557	9.684265774	3.52E-22	4.68E-20
TGFBI	4883.406575	-1.407917541	0.145599412	-9.669802385	4.05E-22	5.34E-20
ZC3H12A	355.9599856	1.603544358	0.165838449	9.669315915	4.07E-22	5.34E-20

STAB1	20.28398965	-3.412805519	0.35312648	-9.664541491	4.27E-22	5.56E-20
TMEM86A	584.9591892	-0.96509504	0.099928403	-9.657865118	4.55E-22	5.89E-20
MICALL1	638.6245434	0.71078306	0.073686079	9.646096983	5.11E-22	6.56E-20
STAT2	2097.829383	1.074877916	0.112002628	9.596899102	8.24E-22	1.05E-19
KDM6B	458.7156876	0.90738978	0.094570954	9.594804154	8.41E-22	1.07E-19
MTHFD2	3052.802778	0.908179196	0.094877929	9.572080774	1.05E-21	1.32E-19
KYNU	300.5266468	1.329186962	0.138918644	9.568096317	1.09E-21	1.36E-19
JAG1	174.8171111	1.49754911	0.156819634	9.549500093	1.30E-21	1.62E-19
GRAMD1A	1224.909816	1.699305205	0.178462202	9.52193342	1.70E-21	2.10E-19
SLC7A11	1486.120197	1.629426791	0.171434874	9.504640196	2.01E-21	2.46E-19
ELOVL7	173.9142272	2.133740279	0.224612561	9.499648045	2.11E-21	2.56E-19
HIP1	479.5904614	1.286610544	0.135466946	9.497597637	2.15E-21	2.60E-19
CTSF	93.41506505	-1.486355898	0.156582121	-9.492500745	2.26E-21	2.71E-19
TNFSF10	189.2661746	2.153299795	0.226874289	9.49115832	2.28E-21	2.73E-19
AIG1	182.7069456	-1.245925642	0.131367226	-9.484295916	2.44E-21	2.90E-19
CABLES1	558.105261	-1.062295869	0.112020577	-9.483042288	2.47E-21	2.91E-19
IL6	110.8269696	5.53483502	0.584211736	9.474022309	2.69E-21	3.16E-19
MMP12	255.0258503	1.876851757	0.198166514	9.471084265	2.77E-21	3.23E-19
TNIP1	2949.643648	1.168473829	0.123508605	9.460667366	3.06E-21	3.54E-19
XAF1	298.231981	1.88838232	0.199877045	9.447719805	3.46E-21	3.98E-19
JUNB	2184.750238	0.882946953	0.093536342	9.439613844	3.74E-21	4.28E-19
OCSTAMP	212.9800934	2.1524261	0.228180425	9.433000646	3.99E-21	4.53E-19
CCL3L3	307.6899487	2.490609589	0.264289675	9.423786932	4.35E-21	4.91E-19
GBP1P1	50.36034405	4.033499804	0.42827027	9.418117696	4.59E-21	5.12E-19
NLRC5	368.4602274	0.781556655	0.082979411	9.418681666	4.57E-21	5.12E-19
APOL1	1015.315051	0.841917358	0.089491081	9.40783539	5.06E-21	5.62E-19
ALDH7A1	101.0741073	-0.644303229	0.068522964	-9.402734401	5.32E-21	5.86E-19
IRAK2	78.29556686	1.721960302	0.183302024	9.394115032	5.77E-21	6.32E-19
CCL22	13518.87543	1.907875845	0.203319026	9.38365621	6.37E-21	6.90E-19
VNN2	256.2252571	-0.896532759	0.09554208	-9.383642869	6.37E-21	6.90E-19
CERK	750.3636364	-0.837412597	0.089465633	-9.360159543	7.96E-21	8.56E-19
VEGFB	994.1393424	-0.681964375	0.072861129	-9.359783271	7.99E-21	8.56E-19
CD40	1347.850585	1.134959396	0.121278814	9.358265942	8.11E-21	8.63E-19
CAT	2343.331438	-0.682117833	0.073048254	-9.337907393	9.83E-21	1.04E-18
ANGPT4	37.72767145	-3.000038296	0.321568304	-9.329396757	1.06E-20	1.12E-18
IFI35	1371.554659	1.629164128	0.174672789	9.326948626	1.09E-20	1.14E-18
RTP4	245.7044903	1.251144999	0.134155345	9.326091319	1.10E-20	1.14E-18
HESX1	44.01114912	2.628347681	0.282666959	9.298390208	1.43E-20	1.48E-18
TNIP3	412.9034906	2.070062231	0.222682009	9.296046127	1.46E-20	1.50E-18
CYB5R3	62.55642274	3.054456131	0.330383138	9.245193789	2.35E-20	2.40E-18
GPR64	85.22371964	1.73204785	0.187551456	9.235054138	2.58E-20	2.63E-18
TMEM170I	370.4415151	-0.924537806	0.10032575	-9.215359008	3.10E-20	3.14E-18
TNIK	781.4658026	0.805490235	0.087481989	9.207497943	3.34E-20	3.36E-18
P2RX1	120.7106185	-1.221481918	0.132689446	-9.205569492	3.40E-20	3.40E-18
APOO	275.6431047	1.333847343	0.144983465	9.199996298	3.58E-20	3.57E-18
PSMB9	1580.897336	1.215948177	0.132192997	9.198279792	3.64E-20	3.61E-18
DCUN1D3	270.4202723	1.301304929	0.141573843	9.191704506	3.87E-20	3.81E-18
MFNG	619.1876293	-0.614022993	0.067058984	-9.156461389	5.36E-20	5.26E-18
PFKFB2	236.098616	-0.886916757	0.097101502	-9.133913912	6.61E-20	6.41E-18

STX11	1503.485603	0.61961006	0.067836535	9.13386953	6.61E-20	6.41E-18
CD4	2239.159719	-0.842544504	0.092306502	-9.127683199	7.00E-20	6.76E-18
MPEG1	562.356056	-1.477920534	0.162104392	-9.117091245	7.72E-20	7.41E-18
TCF7L2	603.7321274	0.687765664	0.075493285	9.110289326	8.22E-20	7.85E-18
MSC	634.2937579	1.709901897	0.187848383	9.102563809	8.82E-20	8.39E-18
AGRN	449.2613138	1.109486389	0.12194183	9.098488906	9.16E-20	8.66E-18
HS3ST2	94.64166158	-2.122827938	0.233437963	-9.09375628	9.57E-20	9.00E-18
COLEC12	844.5403452	-1.194193125	0.131695921	-9.067806504	1.21E-19	1.14E-17
PSTPIP2	413.3866766	1.893455836	0.209091753	9.055621796	1.36E-19	1.27E-17
ADORA3	16.63671804	-3.352797455	0.37052906	-9.048676111	1.45E-19	1.34E-17
PNPT1	589.2981175	1.117686744	0.12352305	9.048406271	1.45E-19	1.34E-17
INSIG1	373.8138838	1.451076872	0.160433469	9.044726632	1.50E-19	1.38E-17
GAL3ST4	20.767042	-3.523592909	0.390296939	-9.02797988	1.75E-19	1.60E-17
NRIP3	474.5866322	0.96628248	0.107071383	9.024656742	1.80E-19	1.64E-17
KCNJ5	304.0937203	-1.690605899	0.18766796	-9.008495097	2.09E-19	1.89E-17
FAM124A	61.02931046	2.544006298	0.282599743	9.002153607	2.21E-19	1.99E-17
WDR91	317.098171	-0.969455757	0.107782545	-8.994552477	2.37E-19	2.12E-17
NAMPT	5264.134648	0.815890208	0.090810116	8.98457404	2.60E-19	2.32E-17
CCL8	103.5277561	4.972640343	0.554434811	8.968845823	3.00E-19	2.65E-17
KIAA0040	98.25097545	0.962288547	0.107288841	8.969139154	2.99E-19	2.65E-17
LAMP3	85.56816281	1.609957745	0.179555569	8.966348158	3.07E-19	2.68E-17
RASGRP1	131.313989	2.132753801	0.237855618	8.966589967	3.06E-19	2.68E-17
FBXO6	266.3884974	1.33495742	0.148910428	8.964835025	3.11E-19	2.71E-17
TFPI2	18.90549937	2.915596308	0.325395268	8.960168135	3.24E-19	2.81E-17
PDGFR	10.56282793	5.337547437	0.595856953	8.957766468	3.31E-19	2.86E-17
TSPAN15	315.3515831	-0.878407429	0.098075059	-8.956481257	3.35E-19	2.88E-17
CD80	444.4172936	1.223953982	0.137014402	8.933031589	4.14E-19	3.54E-17
CYP51A1	983.4369427	0.851592091	0.095351606	8.931072369	4.22E-19	3.59E-17
LY6E	2095.277651	1.363195395	0.152668608	8.929113943	4.29E-19	3.64E-17
LAMB3	66.85049286	2.401717925	0.269508413	8.911476632	5.04E-19	4.25E-17
KCNN4	1090.463272	1.359193612	0.152566857	8.908839313	5.16E-19	4.31E-17
STARD4	131.9760651	1.030361743	0.115649983	8.909311666	5.14E-19	4.31E-17
ECE1	191.1033255	1.475167059	0.165647801	8.905443048	5.32E-19	4.42E-17
ACSF2	475.6836662	-0.542980904	0.061119087	-8.883982605	6.45E-19	5.34E-17
OSM	725.8336165	2.765222952	0.311512078	8.876776057	6.88E-19	5.67E-17
EHD1	1019.311678	1.060850011	0.119531092	8.875096807	6.99E-19	5.74E-17
FARP1	688.5509539	-0.678542962	0.076481955	-8.871935369	7.19E-19	5.85E-17
METTL7A	178.2417263	-1.439698295	0.162271328	-8.872166852	7.17E-19	5.85E-17
SEPP1	40.49693107	-2.315130901	0.261346178	-8.858483861	8.11E-19	6.57E-17
MMP9	11505.70524	1.161600084	0.131152193	8.856886455	8.23E-19	6.64E-17
KIF1B	528.5765929	0.545181058	0.061586313	8.852308743	8.57E-19	6.89E-17
GAPT	14.50557126	-3.303389782	0.373404666	-8.846675161	9.02E-19	7.21E-17
TNFRSF4	46.67747045	3.847062578	0.435469699	8.834283047	1.01E-18	8.02E-17
MASTL	181.091577	0.774193856	0.087669897	8.830783266	1.04E-18	8.24E-17
PRADC1	131.4385882	-0.823663208	0.093414225	-8.817320984	1.17E-18	9.26E-17
RAB42	748.2076811	-0.986282145	0.111892615	-8.814541938	1.20E-18	9.45E-17
B3GNT5	344.8983026	0.860481913	0.097685719	8.808676638	1.27E-18	9.91E-17
ZNF589	814.8007175	-0.657567896	0.074869444	-8.782860632	1.59E-18	1.24E-16
LY86	1875.032878	-1.158530865	0.132118913	-8.768849496	1.81E-18	1.40E-16

DOCK4	712.8202955	0.923757923	0.105493315	8.756554116	2.01E-18	1.56E-16
CISH	366.454313	1.100971352	0.126090883	8.731569838	2.51E-18	1.93E-16
TJP1	145.3272481	1.010349325	0.115962901	8.71269448	2.97E-18	2.28E-16
BAALC	44.00290595	2.908335927	0.333940468	8.709144896	3.06E-18	2.34E-16
AQP3	269.7831115	1.398723197	0.16073502	8.702043898	3.26E-18	2.47E-16
CCL17	19.84119682	3.888905295	0.446888829	8.702176118	3.26E-18	2.47E-16
APOL3	774.8365656	1.388425509	0.159723485	8.692682285	3.54E-18	2.67E-16
SPHK1	658.4874829	1.399917452	0.161089513	8.69030782	3.61E-18	2.72E-16
CSRN1	96.89764371	1.173332632	0.135223254	8.677003371	4.06E-18	3.03E-16
ZSWIM4	172.5561241	1.736211462	0.200087451	8.677263148	4.05E-18	3.03E-16
IL32	1694.010733	1.721940377	0.198544139	8.672834102	4.21E-18	3.13E-16
TRPC6	77.18083208	-2.307773378	0.266937319	-8.645375588	5.36E-18	3.97E-16
TLR2	364.5610856	1.222526906	0.141545282	8.637002172	5.77E-18	4.25E-16
APOBEC3G	328.5165165	0.775610941	0.08981354	8.635790832	5.83E-18	4.28E-16
JAK3	87.74929099	1.760989987	0.204035468	8.630803263	6.09E-18	4.45E-16
LOC72843:	110.6166401	1.477386648	0.171353686	8.621855102	6.59E-18	4.80E-16
TPCN1	230.938819	-1.223975449	0.141978989	-8.620820986	6.65E-18	4.82E-16
IGFBP6	187.7593348	1.203985452	0.139702664	8.618199644	6.80E-18	4.91E-16
LGALS17A	8.380183364	4.729362036	0.549121535	8.612596188	7.14E-18	5.14E-16
APBA1	112.3390499	-1.176644159	0.13663972	-8.611289326	7.22E-18	5.16E-16
PELI3	309.39599	-0.725208455	0.084212212	-8.611678016	7.20E-18	5.16E-16
PNPLA3	499.6667876	-1.300478136	0.151223148	-8.599729303	7.99E-18	5.68E-16
H3F3B	6636.597366	0.520597154	0.060699797	8.576588096	9.77E-18	6.92E-16
CMBL	62.47288303	-1.905009958	0.222161103	-8.574903223	9.92E-18	7.00E-16
PDGFC	306.5644927	-0.793809985	0.092626216	-8.570035783	1.03E-17	7.25E-16
SERPIN2	82.61501584	3.46239586	0.404017302	8.569919769	1.04E-17	7.25E-16
RELB	859.4049109	0.885592818	0.103394128	8.565213853	1.08E-17	7.53E-16
GALM	279.6623032	-0.972445092	0.113600842	-8.560192676	1.13E-17	7.83E-16
IL2RA	86.42973264	4.266527463	0.498466303	8.559309708	1.14E-17	7.87E-16
APP	589.3496111	0.792636617	0.09267272	8.553073804	1.20E-17	8.27E-16
GPC4	2545.187034	1.015371416	0.118787127	8.547823648	1.25E-17	8.62E-16
DOK2	1449.942469	-0.947446658	0.111015741	-8.534345211	1.41E-17	9.66E-16
ABHD12	2135.517782	-0.543945692	0.063741749	-8.533585868	1.42E-17	9.68E-16
TBC1D9	2016.278936	0.704597018	0.0825738	8.532936766	1.43E-17	9.70E-16
RBP1	482.5702505	-1.244710705	0.14635154	-8.504937525	1.82E-17	1.23E-15
GAS7	797.2809132	-0.705944232	0.083036421	-8.501621565	1.87E-17	1.26E-15
RPL10A	2936.084275	-0.541272399	0.063725239	-8.493846541	2.00E-17	1.34E-15
RNF144B	274.8177174	0.931884983	0.109775097	8.489038147	2.08E-17	1.40E-15
DOCK2	1963.550585	-0.647377802	0.076328953	-8.481418634	2.22E-17	1.49E-15
MICALL2	53.82000001	1.136134437	0.133994728	8.478948805	2.27E-17	1.51E-15
PTGES	742.9270412	3.03736528	0.359151431	8.457060217	2.74E-17	1.82E-15
PLA2G15	742.7427184	-0.759680015	0.08990435	-8.449869376	2.92E-17	1.93E-15
DSP	165.6858491	1.404670883	0.166337464	8.44470542	3.05E-17	2.01E-15
SQRDL	1462.896018	0.60163803	0.071260215	8.442832143	3.10E-17	2.03E-15
SP100	645.8188792	0.532029611	0.063050345	8.438171234	3.22E-17	2.11E-15
PPTC7	1029.672582	0.448746111	0.053205966	8.434131383	3.34E-17	2.17E-15
ITGB3	348.4412915	1.423280382	0.16878269	8.432620538	3.38E-17	2.19E-15
DIRAS2	23.53047132	3.371928371	0.400409828	8.421192828	3.73E-17	2.41E-15
RIPK2	1046.247793	0.924869	0.109940231	8.412470978	4.01E-17	2.59E-15

SLC2A1	193.3175255	1.004033829	0.119456973	8.40498304	4.28E-17	2.75E-15
ARHGAP9	395.5879922	-0.881876941	0.104942403	-8.403437649	4.34E-17	2.78E-15
TM4SF1	102.5393713	2.953769062	0.351890116	8.394009748	4.70E-17	3.00E-15
CCR7	110.8671194	2.132408069	0.254062997	8.393225672	4.73E-17	3.01E-15
GEM	222.7619689	1.585238159	0.189602891	8.360833256	6.23E-17	3.95E-15
MT1M	138.2959652	4.234603456	0.506519478	8.360198649	6.26E-17	3.96E-15
IRF1	1229.424729	1.08288319	0.129679308	8.350470168	6.80E-17	4.27E-15
RHOF	313.6453943	0.962017635	0.11520059	8.350804734	6.78E-17	4.27E-15
RHOD	51.89880749	2.231342069	0.268428676	8.312606903	9.36E-17	5.85E-15
PDE4B	611.618811	1.252764899	0.150840572	8.305225075	9.96E-17	6.21E-15
CSF1	8399.358594	1.511641271	0.182201955	8.296515114	1.07E-16	6.66E-15
ARHGEF5	462.2414906	1.038765121	0.12524074	8.294147095	1.09E-16	6.77E-15
FUCA1	3002.094675	-2.038273486	0.245974719	-8.286516172	1.17E-16	7.20E-15
MERTK	55.55372553	-1.834835888	0.221702273	-8.276125722	1.27E-16	7.83E-15
CSF2RB	1606.772118	0.746239	0.090210084	8.272234851	1.31E-16	8.06E-15
OTUD4	529.4487694	0.514036834	0.062236278	8.259440503	1.46E-16	8.94E-15
SOCS3	71.30916938	1.448044037	0.175328097	8.259052956	1.47E-16	8.94E-15
EEPD1	191.7539117	-1.054881417	0.127785575	-8.255089945	1.52E-16	9.21E-15
LOC283070	211.6667833	-0.739587748	0.089653036	-8.249444516	1.59E-16	9.63E-15
MAFB	1043.106435	-0.940612932	0.114044267	-8.247787976	1.61E-16	9.73E-15
CFLAR	1670.983479	0.523654307	0.063706584	8.219783131	2.04E-16	1.23E-14
OAS2	1390.549315	1.941517078	0.236531068	8.20829625	2.24E-16	1.34E-14
SLC2A3	784.1900698	0.905653216	0.110439998	8.200409542	2.40E-16	1.43E-14
GCHFR	307.9448311	-1.14576068	0.139752266	-8.198512353	2.43E-16	1.45E-14
TDRD7	205.287478	0.720743476	0.087995124	8.19072058	2.60E-16	1.54E-14
COTL1	5048.880368	-0.636609081	0.077750291	-8.187867554	2.66E-16	1.57E-14
LOC100506	178.6749475	1.548697056	0.189365772	8.178336761	2.88E-16	1.70E-14
PIK3AP1	5572.891108	0.5646967	0.06919891	8.160485511	3.34E-16	1.96E-14
RCS1	290.1383206	-1.329621089	0.162981273	-8.158121877	3.40E-16	1.99E-14
GMPT7	213.9546611	1.243708229	0.152495185	8.155721289	3.47E-16	2.03E-14
VDR	789.6069129	1.17563248	0.144197696	8.152921397	3.55E-16	2.07E-14
TMEM171	17.61505602	4.155907564	0.509841803	8.15136683	3.60E-16	2.09E-14
JAK2	295.0367211	0.669873985	0.082491619	8.120509617	4.64E-16	2.69E-14
HS3ST3A1	22.17396156	3.524896679	0.434318769	8.115920679	4.82E-16	2.78E-14
IL1B	3090.432093	1.834800433	0.22616051	8.112824082	4.95E-16	2.84E-14
DPEP2	719.7524396	-1.071092715	0.132033378	-8.112287419	4.97E-16	2.85E-14
MS4A6A	212.9299531	-2.294921327	0.282949601	-8.110707064	5.03E-16	2.88E-14
ABI3BP	8.984551896	3.275061154	0.403903696	8.1085199	5.12E-16	2.92E-14
CD44	312.2080057	0.973343536	0.120056871	8.107353855	5.17E-16	2.94E-14
LRRFIP2	1016.38479	0.497137856	0.061327937	8.1062217	5.22E-16	2.96E-14
MARCKS	182.9814838	1.68779094	0.208249335	8.104664247	5.29E-16	2.99E-14
FAM53B	271.1031988	-0.537494352	0.06634064	-8.10203754	5.40E-16	3.04E-14
GPD2	1548.29429	0.741889071	0.091694553	8.090873988	5.92E-16	3.32E-14
PAK1	590.4686309	-0.617481867	0.076328783	-8.089764329	5.98E-16	3.35E-14
GBP2	3679.054436	1.021419737	0.126405412	8.08050635	6.45E-16	3.60E-14
ITGB8	2344.678909	1.825665552	0.225980776	8.078853362	6.54E-16	3.63E-14
SLC30A1	1975.58986	0.565126466	0.069948184	8.079215743	6.52E-16	3.63E-14
LOC728370	110.401125	1.254589106	0.155383861	8.074127489	6.80E-16	3.76E-14
METTL1	367.8167891	0.810480306	0.100468756	8.066988564	7.21E-16	3.97E-14

TRANK1	172.7142577	0.707252043	0.087728361	8.061840379	7.52E-16	4.13E-14
GFPT2	10.50508586	2.242623631	0.278609702	8.0493379	8.32E-16	4.55E-14
SNTA1	121.1102738	-0.947637611	0.11772593	-8.049523253	8.31E-16	4.55E-14
CRIM1	2516.885461	0.882335413	0.109723568	8.04143934	8.88E-16	4.84E-14
ETS2	870.4990688	0.89687491	0.111610232	8.035776761	9.30E-16	5.05E-14
PGPEP1	681.4253326	-0.494396177	0.061661306	-8.017932252	1.08E-15	5.83E-14
CH25H	21.46641784	1.5549856	0.193947436	8.017562019	1.08E-15	5.83E-14
SLC7A8	1301.696992	1.078841824	0.134726661	8.007634237	1.17E-15	6.30E-14
FRY	183.2815482	-0.873968187	0.1091611	-8.006223721	1.18E-15	6.35E-14
SLC2A6	1473.187914	1.079225572	0.134807977	8.005650666	1.19E-15	6.36E-14
KLF9	282.7754962	0.944933168	0.118219467	7.993042015	1.32E-15	7.03E-14
HIST1H4E	735.3410197	-0.922806199	0.115467253	-7.991929954	1.33E-15	7.07E-14
MFAP5	96.15165219	-1.342722318	0.168104087	-7.987446012	1.38E-15	7.31E-14
HES4	12.89207466	3.047156509	0.382406334	7.968373526	1.61E-15	8.51E-14
HS3ST3B1	30.24131316	2.874346057	0.361130708	7.959295609	1.73E-15	9.13E-14
RPL23	7334.917665	-0.608558878	0.076470777	-7.958058031	1.75E-15	9.20E-14
SH3BP5	1675.131529	0.800231068	0.100676311	7.948553777	1.89E-15	9.90E-14
GAL	188.4300787	1.244185348	0.156640076	7.94295676	1.97E-15	1.03E-13
RICTOR	295.678447	0.541891996	0.068220077	7.943292057	1.97E-15	1.03E-13
KDM2B	234.7311019	-0.620082521	0.078157505	-7.933755302	2.13E-15	1.11E-13
CYBRD1	110.0477409	-0.893832943	0.112745147	-7.92790611	2.23E-15	1.16E-13
CREBL2	1835.15249	-0.545637154	0.068887298	-7.920722282	2.36E-15	1.22E-13
LILRA5	170.4409979	-1.466038399	0.185144478	-7.918347954	2.41E-15	1.24E-13
B4GALT1	2237.145451	1.041618518	0.131851334	7.899946761	2.79E-15	1.44E-13
DEFB1	93.00115669	2.04970503	0.26025836	7.875654908	3.39E-15	1.74E-13
KCNAB1	414.2832614	-1.267442002	0.160988687	-7.872863786	3.47E-15	1.77E-13
NBN	963.0515701	1.092551307	0.138775934	7.872772115	3.47E-15	1.77E-13
NCS1	1117.074122	1.076082291	0.136850549	7.863193116	3.74E-15	1.91E-13
DYNLT1	1081.052856	0.789995388	0.100595258	7.853207023	4.06E-15	2.06E-13
TAGAP	452.5476629	1.012066258	0.128874749	7.853099712	4.06E-15	2.06E-13
ACSL5	1201.996959	0.754777855	0.096119903	7.852461699	4.08E-15	2.06E-13
FADS3	276.26096	1.010621188	0.12870218	7.852401493	4.08E-15	2.06E-13
CKB	104.8980404	1.635828984	0.208522503	7.844855879	4.33E-15	2.18E-13
PPP1R15B	804.8212162	0.529203164	0.067510293	7.838851509	4.55E-15	2.28E-13
PNPLA1	27.68644537	3.469732976	0.442793401	7.836008781	4.65E-15	2.32E-13
SNAI2	18.17638385	-2.728703248	0.348842116	-7.822172613	5.19E-15	2.59E-13
ZC3H12C	257.5807517	0.93577995	0.11967287	7.819482815	5.30E-15	2.64E-13
CXCL5	5778.527352	1.648223784	0.210801924	7.818827023	5.33E-15	2.64E-13
SOWAHD	220.433638	-0.788866259	0.1008984	-7.818421919	5.35E-15	2.64E-13
ZBP1	30.64115028	2.368604068	0.303395845	7.806975971	5.86E-15	2.89E-13
F3	217.4193051	1.490019148	0.190917885	7.804502682	5.97E-15	2.94E-13
ZBTB4	1159.150176	-0.575674575	0.073767235	-7.803933171	6.00E-15	2.94E-13
SLAMF8	5007.316661	0.501039947	0.064221123	7.801793655	6.10E-15	2.99E-13
APOBEC3A	50.66998298	3.122728941	0.400543769	7.796223989	6.38E-15	3.11E-13
ADAMTS15	69.77860357	-1.778847406	0.228204061	-7.794985772	6.44E-15	3.13E-13
EREG	100.8094775	2.549051021	0.327046842	7.794146567	6.48E-15	3.15E-13
UBE2L6	1162.099809	0.84697905	0.108682183	7.793172946	6.53E-15	3.16E-13
TBX21	77.6287017	1.336561622	0.171619007	7.787958026	6.81E-15	3.29E-13
ACSL4	2042.423169	0.508842777	0.065375845	7.783345289	7.06E-15	3.40E-13

PLEK	2932.749915	0.771661298	0.099274058	7.773040757	7.66E-15	3.68E-13
RASGRP4	121.2621953	-1.261556199	0.162957225	-7.741640171	9.81E-15	4.70E-13
OR2A7	89.97514511	1.046409875	0.135234315	7.737754099	1.01E-14	4.83E-13
ECSCR	18.76961013	3.353105117	0.433932165	7.727256433	1.10E-14	5.24E-13
LRRC25	1216.391862	-0.856204413	0.110886784	-7.721428876	1.15E-14	5.47E-13
NINJ2	194.8966116	-1.105338442	0.143220961	-7.717714173	1.18E-14	5.62E-13
MAP7	498.5996862	0.946842711	0.122809589	7.709843498	1.26E-14	5.96E-13
IFIH1	661.2281369	1.39153719	0.180932112	7.690935412	1.46E-14	6.89E-13
WHAMMP	1045.249358	-0.660021713	0.085852402	-7.687865426	1.50E-14	7.04E-13
STAP2	68.41349214	1.516084625	0.197393141	7.680533458	1.58E-14	7.44E-13
MAML3	19.27124599	-2.318318733	0.301879853	-7.679607331	1.60E-14	7.47E-13
TRHDE	111.1440934	-1.173643798	0.15283389	-7.679211702	1.60E-14	7.48E-13
CYP3A7	16.67069487	5.229068392	0.681060471	7.67783275	1.62E-14	7.54E-13
NUMB	4003.267552	0.568657224	0.074136464	7.670411994	1.71E-14	7.97E-13
CECR1	6198.500287	-0.842032658	0.109829922	-7.666696319	1.76E-14	8.18E-13
PARP10	815.849602	0.882677595	0.115200206	7.662118182	1.83E-14	8.46E-13
DNASE2	2689.041771	-0.509384662	0.066631628	-7.644787839	2.09E-14	9.65E-13
DDX60L	2263.417331	1.136983415	0.148759253	7.643110545	2.12E-14	9.76E-13
USP12	764.2872825	0.667119861	0.087361	7.636357845	2.23E-14	1.03E-12
MMP14	5914.251497	0.832412176	0.10915369	7.626056249	2.42E-14	1.11E-12
HN1	1094.55085	-0.664560519	0.087149987	-7.625480395	2.43E-14	1.11E-12
ME3	85.32598161	-1.001601018	0.131370041	-7.624272718	2.45E-14	1.12E-12
GPR84	214.4750318	2.042238289	0.267914034	7.622737243	2.48E-14	1.13E-12
CKAP4	265.6767271	1.127293775	0.147994213	7.617147682	2.59E-14	1.18E-12
MXD4	431.8024954	-0.819774337	0.107635488	-7.616208661	2.61E-14	1.18E-12
CADM1	203.2541146	-1.276671636	0.167688484	-7.613353073	2.67E-14	1.20E-12
PNKD	908.9846027	0.901824365	0.11845406	7.613283718	2.67E-14	1.20E-12
HK3	2763.652474	0.801870708	0.105331236	7.61284821	2.68E-14	1.20E-12
CYP2U1	69.95292597	-1.260153889	0.165547635	-7.612031972	2.70E-14	1.21E-12
IFI44	865.1960987	1.934623757	0.254645266	7.597328564	3.02E-14	1.35E-12
SASH3	1189.119045	-0.77761091	0.102618291	-7.577702821	3.52E-14	1.57E-12
BMP6	24.39980155	2.502209426	0.330221123	7.57737544	3.53E-14	1.57E-12
EEF1B2	2309.364643	-0.515131305	0.068141629	-7.559715159	4.04E-14	1.79E-12
AK8	92.22563718	0.995057436	0.131640529	7.558898817	4.06E-14	1.80E-12
RPS3	5072.165844	-0.478544325	0.063313313	-7.558352267	4.08E-14	1.80E-12
TLR8	732.5014515	-0.698807439	0.092515427	-7.553415275	4.24E-14	1.87E-12
CLEC2D	122.6830888	1.129728741	0.149591651	7.552084168	4.28E-14	1.88E-12
CARS2	1094.318905	-0.389001373	0.051523687	-7.549952203	4.35E-14	1.91E-12
SNX10	1057.54569	1.519127009	0.201275788	7.547490066	4.44E-14	1.94E-12
RPL30	6312.012858	-0.430462882	0.057161927	-7.530587337	5.05E-14	2.20E-12
SRPX2	85.70387263	1.184286129	0.157377128	7.525147684	5.27E-14	2.29E-12
CHST3	55.39688646	1.977184836	0.262820837	7.52293791	5.36E-14	2.33E-12
IER3	981.029595	1.345491151	0.17892727	7.519765739	5.49E-14	2.38E-12
ST5	60.27372252	-1.400649985	0.186319901	-7.51744704	5.59E-14	2.41E-12
OVOL1	104.783451	1.819871726	0.242396491	7.507830332	6.01E-14	2.59E-12
CHPT1	610.5521351	-0.783064366	0.104351796	-7.504081331	6.19E-14	2.66E-12
NLRP12	19.97445398	-1.235599506	0.164893126	-7.493335435	6.71E-14	2.88E-12
DESI1	536.8677275	0.644874579	0.086209818	7.480291655	7.42E-14	3.18E-12
PLA1A	41.64300534	2.037134738	0.272568029	7.473857967	7.79E-14	3.33E-12

SORD	167.3720392	-0.621490118	0.083196083	-7.470184795	8.01E-14	3.41E-12
CYP3A5	34.15091915	3.41722773	0.457637528	7.467105568	8.20E-14	3.49E-12
DNAJB5	160.8784881	1.035855653	0.138786166	7.463680861	8.41E-14	3.57E-12
IL27	37.68209581	1.89462678	0.253860966	7.463245759	8.44E-14	3.58E-12
PXN	646.4060262	1.324824743	0.17764694	7.457627731	8.81E-14	3.72E-12
MSANTD3	554.9579933	1.131300556	0.151931818	7.44610687	9.61E-14	4.05E-12
RASGRP2	117.3440212	-1.088009921	0.146167061	-7.44360538	9.80E-14	4.12E-12
ZNF267	1371.363666	0.608469077	0.081967585	7.423289026	1.14E-13	4.79E-12
SLC27A3	489.9267493	0.901158115	0.12142203	7.421701961	1.16E-13	4.84E-12
MX2	426.9555556	1.805553895	0.243405664	7.417879547	1.19E-13	4.97E-12
RPS18	1092.150846	-0.448566872	0.060569336	-7.405840976	1.30E-13	5.43E-12
HSPA9	4024.355665	0.316449771	0.042739053	7.404229818	1.32E-13	5.49E-12
EMR2	893.1922134	0.808327379	0.109185332	7.403259806	1.33E-13	5.51E-12
PTGFRN	111.8095134	-1.006223836	0.13619146	-7.388303447	1.49E-13	6.16E-12
RAB32	655.5510941	-0.620272741	0.083975357	-7.386366189	1.51E-13	6.23E-12
GZMB	120.5470434	1.695959059	0.229621278	7.385896771	1.51E-13	6.24E-12
SLED1	54.60054873	1.306050519	0.176853567	7.384926069	1.53E-13	6.27E-12
ITGA5	3517.75822	1.070873876	0.145301519	7.370011552	1.71E-13	7.00E-12
ZNF586	301.7032101	0.754674522	0.102451101	7.366192408	1.76E-13	7.19E-12
TRPV4	268.0349381	-0.710202633	0.096453752	-7.363141594	1.80E-13	7.34E-12
MGAT4A	715.7853945	-0.66472231	0.090288323	-7.36221796	1.81E-13	7.38E-12
HIPK2	4944.374995	-0.773243536	0.10527865	-7.344732621	2.06E-13	8.39E-12
ZNF503	29.6885835	-1.646426888	0.224175256	-7.344373861	2.07E-13	8.39E-12
CHN2	150.1624242	-0.632346055	0.086142839	-7.340668858	2.13E-13	8.61E-12
UBA7	837.8837334	0.5612939	0.076467818	7.340263084	2.13E-13	8.62E-12
SUSD1	2719.908641	-0.522693589	0.071306884	-7.330198173	2.30E-13	9.27E-12
NPC1	2248.826811	0.365822684	0.049934637	7.326030692	2.37E-13	9.54E-12
PRKACB	583.1481043	-0.645948652	0.088225055	-7.321600969	2.45E-13	9.84E-12
CD22	128.5596923	-1.072079736	0.146453947	-7.320251552	2.48E-13	9.92E-12
MCOLN2	128.2694049	1.589128693	0.21714388	7.318321336	2.51E-13	1.00E-11
C17orf96	29.96144087	2.053348157	0.280600519	7.317691948	2.52E-13	1.01E-11
HIST1H2BK	491.1586839	0.753449048	0.102985959	7.316036597	2.55E-13	1.02E-11
TOR1B	973.7637487	0.91225714	0.124770649	7.311472293	2.64E-13	1.05E-11
EIF3F	1516.519031	-0.526154205	0.072069614	-7.300638591	2.86E-13	1.14E-11
CLEC6A	437.0628092	1.570172877	0.215213801	7.295874466	2.97E-13	1.17E-11
RPL29	5205.60302	-0.423984034	0.058190379	-7.286153495	3.19E-13	1.26E-11
ABHD6	657.8493772	-0.523958179	0.071964803	-7.280756116	3.32E-13	1.31E-11
GPR65	287.2792798	-1.03951383	0.142784068	-7.280320847	3.33E-13	1.31E-11
TRIM5	402.0230563	0.827060316	0.113677034	7.275526849	3.45E-13	1.35E-11
IQSEC3	110.651359	-1.439760434	0.197949441	-7.273374597	3.51E-13	1.37E-11
C7orf41	42.48511864	-1.490266665	0.204931244	-7.272032476	3.54E-13	1.38E-11
NNMT	72.79388445	4.31577394	0.593919968	7.26659175	3.69E-13	1.44E-11
EBI3	23.05978092	4.090451929	0.562969884	7.265845016	3.71E-13	1.44E-11
NFKBIA	3008.739479	0.794269106	0.109320734	7.265493743	3.72E-13	1.44E-11
BLVRB	2026.12202	-0.583092115	0.080351346	-7.256780959	3.96E-13	1.54E-11
STBD1	50.2264039	1.000147431	0.137882905	7.253599961	4.06E-13	1.57E-11
PSMA3	160.0515333	0.982295333	0.135560658	7.246168218	4.29E-13	1.65E-11
SMPD2	236.9514466	0.642812535	0.088714729	7.245837793	4.30E-13	1.65E-11
RPS12	4208.033635	-0.521839397	0.072223593	-7.22533144	5.00E-13	1.92E-11

C3orf37	257.701358	0.524102683	0.072603675	7.218679813	5.25E-13	2.01E-11
ABI3	293.9688254	-1.175982432	0.162990933	-7.21501747	5.39E-13	2.06E-11
CLEC4A	528.4290508	-0.913370453	0.126692308	-7.209359956	5.62E-13	2.15E-11
C6orf106	1954.520108	0.377230792	0.05233528	7.207963552	5.68E-13	2.16E-11
CLCF1	198.6046006	1.287497717	0.178624397	7.20784921	5.68E-13	2.16E-11
EAH1	869.048365	0.680916679	0.09448008	7.206986695	5.72E-13	2.17E-11
HSH2D	20.40601476	2.995827018	0.416223129	7.197646668	6.13E-13	2.32E-11
HSD3B7	2514.021838	0.619102767	0.086064334	7.193488177	6.32E-13	2.39E-11
PDK4	750.5002433	-1.173572	0.163263107	-7.188225333	6.56E-13	2.47E-11
USF2	2862.601944	-0.502569424	0.069913911	-7.188403828	6.56E-13	2.47E-11
ARAP3	109.9001256	1.132991555	0.157625168	7.187884837	6.58E-13	2.47E-11
LIMK1	5156.516915	0.459693421	0.064008018	7.181810017	6.88E-13	2.58E-11
MBNL1	376.4311701	0.495604675	0.069122334	7.169964429	7.50E-13	2.81E-11
C15orf26	7.095787696	3.193945137	0.445555122	7.168462397	7.58E-13	2.83E-11
RBP7	55.72009154	-1.241189735	0.173628969	-7.148517571	8.77E-13	3.27E-11
SSTR2	7.252278054	3.063163528	0.429149401	7.137755575	9.49E-13	3.53E-11
JHDM1D	144.4655126	0.679890594	0.095295623	7.134541689	9.71E-13	3.60E-11
TIFA	222.2667583	1.047970644	0.146985592	7.129750811	1.01E-12	3.72E-11
SLC25A25	170.0283974	0.637611733	0.089482066	7.125581227	1.04E-12	3.83E-11
KRT23	33.59019243	3.886725295	0.546011413	7.118395703	1.09E-12	4.03E-11
CCDC115	737.5561857	0.736606077	0.103564221	7.112553669	1.14E-12	4.19E-11
SLC43A3	4002.779541	0.476702262	0.067021589	7.112667288	1.14E-12	4.19E-11
RPL18A	4232.98397	-0.396951039	0.055818348	-7.111479579	1.15E-12	4.21E-11
LDLRAP1	408.4673323	0.821080126	0.115705542	7.096290412	1.28E-12	4.69E-11
NT5DC2	36.99995403	-1.615691279	0.227947526	-7.087996544	1.36E-12	4.97E-11
TTC3	213.6097438	-0.770935085	0.108805569	-7.085437765	1.39E-12	5.05E-11
C1RL	1017.409618	0.851848572	0.12034873	7.078168337	1.46E-12	5.32E-11
RFTN1	367.3319212	0.922589959	0.130450869	7.072317482	1.52E-12	5.53E-11
MSMO1	458.5295832	0.976842065	0.138130552	7.071875507	1.53E-12	5.54E-11
RPS6	4434.007205	-0.486226959	0.068894069	-7.057602602	1.69E-12	6.13E-11
MGC12916	50.28167004	2.189431746	0.310292517	7.056024963	1.71E-12	6.19E-11
VWA8	717.6579118	1.261413849	0.178814742	7.054305665	1.73E-12	6.25E-11
ANKRD22	91.94869677	2.398332121	0.340012845	7.053651525	1.74E-12	6.27E-11
UBD	1234.500547	2.598764283	0.368437095	7.053481626	1.74E-12	6.27E-11
GPR82	26.37675128	-2.490046866	0.353251455	-7.048935919	1.80E-12	6.46E-11
NFE2L3	209.8749397	0.899625291	0.127661252	7.046972176	1.83E-12	6.54E-11
OTUD7B	60.6401071	1.321600281	0.187602122	7.044697945	1.86E-12	6.63E-11
RPLP0P2	31.07308323	1.767646677	0.251247642	7.035475674	1.99E-12	7.08E-11
PPM1L	74.50698275	-0.615340673	0.087551151	-7.028356183	2.09E-12	7.43E-11
MMP10	12.65992575	4.199542305	0.597924972	7.023527206	2.16E-12	7.68E-11
CPVL	850.1631708	-1.147193024	0.163537622	-7.014856941	2.30E-12	8.15E-11
MYO7A	25.33902646	-1.5832114	0.225829285	-7.010655871	2.37E-12	8.39E-11
GAB3	163.8284018	-0.650432066	0.092784064	-7.010170037	2.38E-12	8.40E-11
CST3	13442.50268	-0.51010279	0.072809403	-7.006001574	2.45E-12	8.64E-11
SLC45A3	82.96204549	-1.005094717	0.143476481	-7.005292527	2.46E-12	8.67E-11
PLAUR	12820.6138	0.806166844	0.115145856	7.001266647	2.54E-12	8.90E-11
TRAFD1	862.9049422	0.49809127	0.071231703	6.992550375	2.70E-12	9.45E-11
TCF7L1	14.06852983	1.964413432	0.280966631	6.991625398	2.72E-12	9.50E-11
CXCR2	25.01367818	-1.729780004	0.247471867	-6.989804635	2.75E-12	9.61E-11

SDC4	1254.788637	1.092522818	0.15642364	6.984384304	2.86E-12	9.97E-11
PMAIP1	38.00075998	1.105443025	0.158283881	6.983926728	2.87E-12	9.98E-11
LIF	61.21341281	2.422284076	0.347506035	6.970480592	3.16E-12	1.10E-10
NOV	11.89700398	-2.015675867	0.28939344	-6.965174698	3.28E-12	1.14E-10
PKD1L1	144.6514332	1.697488997	0.24375746	6.963844297	3.31E-12	1.14E-10
ANKLE2	1191.122891	0.509734909	0.073200495	6.96354457	3.32E-12	1.15E-10
HMG2P4	17.08614817	2.203993443	0.317348802	6.94501894	3.78E-12	1.30E-10
CD69	70.96032989	1.497068146	0.215670021	6.941475404	3.88E-12	1.33E-10
INPP5D	495.0884328	-0.642564104	0.092592161	-6.939724654	3.93E-12	1.35E-10
PITPNB	947.1527773	0.327537908	0.047223937	6.935844971	4.04E-12	1.38E-10
PTPRF	33.90826429	3.229351625	0.465683999	6.934641588	4.07E-12	1.39E-10
NDP	9.206915458	4.287018497	0.618452272	6.931850189	4.15E-12	1.42E-10
SCARF1	195.4889453	0.994914229	0.143703474	6.923383296	4.41E-12	1.50E-10
SPATA7	56.17795838	-1.142322421	0.165080714	-6.919781201	4.52E-12	1.54E-10
LYZ	63948.15382	-0.51935031	0.075073822	-6.917861632	4.59E-12	1.56E-10
UXS1	954.905238	0.650060309	0.094047544	6.912039211	4.78E-12	1.62E-10
LOC645638	90.45258929	1.410827628	0.204150651	6.910718239	4.82E-12	1.63E-10
TNFSF12	1220.577172	-0.618675666	0.089728806	-6.89495039	5.39E-12	1.82E-10
CLEC4E	1528.558242	1.41346579	0.205037084	6.893708016	5.44E-12	1.83E-10
TRIM25	1168.433578	0.464299353	0.067456499	6.882944701	5.86E-12	1.97E-10
ENTPD1	269.7721598	0.767987578	0.111666832	6.877490506	6.09E-12	2.05E-10
ARL4C	30.64511163	-1.781993373	0.259347904	-6.871053684	6.37E-12	2.14E-10
C15orf38	164.5234791	-0.739642241	0.107708752	-6.867057941	6.55E-12	2.19E-10
PLEKHB1	71.33009722	-1.144920745	0.166744821	-6.866304697	6.59E-12	2.20E-10
UNC5B	266.614222	-0.705432031	0.102781325	-6.863426094	6.72E-12	2.24E-10
FURIN	1098.579198	0.444279043	0.064743271	6.862165514	6.78E-12	2.26E-10
NFIA	156.6630887	-0.901214111	0.131373408	-6.859943168	6.89E-12	2.29E-10
RPL7	6109.838027	-0.544556627	0.079397084	-6.858647701	6.95E-12	2.30E-10
SCD	7689.667697	-0.613812206	0.089492678	-6.858798039	6.94E-12	2.30E-10
ARHGAP15	242.6622434	-0.585497145	0.085482335	-6.849334913	7.42E-12	2.45E-10
GTPBP2	815.3952998	0.608062361	0.088782383	6.848907833	7.44E-12	2.45E-10
C19orf66	317.8150737	0.730335016	0.106848837	6.835217275	8.19E-12	2.69E-10
MT1X	311.6162287	1.839265516	0.269086845	6.835211567	8.19E-12	2.69E-10
BATF3	76.27889229	1.082844274	0.158613853	6.826921201	8.68E-12	2.85E-10
EIF3L	2201.221816	-0.507871711	0.074436257	-6.822907675	8.92E-12	2.92E-10
B4GALT5	1282.08585	0.625441793	0.091701681	6.820396136	9.08E-12	2.97E-10
CLCN4	232.8695715	-1.001836296	0.147031012	-6.813775423	9.51E-12	3.10E-10
CPT1B	105.7172089	0.824136794	0.121028385	6.809450474	9.80E-12	3.19E-10
TTC39B	889.9048664	0.752716877	0.110562434	6.808070789	9.89E-12	3.22E-10
YME1L1	902.0404469	0.389672194	0.057241165	6.80755179	9.93E-12	3.22E-10
EPHX1	2283.138735	-0.645376119	0.094837461	-6.805075858	1.01E-11	3.27E-10
BACE1	735.7236909	-0.612250639	0.089975397	-6.804645022	1.01E-11	3.28E-10
TARS	1449.116436	0.417928178	0.061605145	6.78398172	1.17E-11	3.78E-10
SLIT3	107.6773486	-1.065378809	0.157066156	-6.782994117	1.18E-11	3.79E-10
NPL	2007.033077	-0.77399851	0.114156772	-6.780136641	1.20E-11	3.86E-10
MMAA	171.441098	0.522305703	0.077243815	6.761780251	1.36E-11	4.38E-10
TRPS1	161.8939875	-0.730211376	0.107998802	-6.761291455	1.37E-11	4.39E-10
SIRPB1	374.7454758	-0.637102076	0.09424189	-6.760285467	1.38E-11	4.41E-10
TENM4	17.96382265	-2.454774172	0.363166244	-6.759367679	1.39E-11	4.43E-10

GBP3	487.6779749	0.811853446	0.120117628	6.758820134	1.39E-11	4.44E-10
CTNNBIP1	189.373322	-0.626003479	0.092639643	-6.757403862	1.40E-11	4.47E-10
CSF2	13.61409724	4.070729307	0.602517681	6.756198918	1.42E-11	4.50E-10
NCAM1	34.23201797	1.14878247	0.170037736	6.756044255	1.42E-11	4.50E-10
APOL6	805.1980349	0.766640757	0.113479498	6.755764433	1.42E-11	4.50E-10
SYNJ2	117.3443131	1.093574764	0.161891524	6.754984678	1.43E-11	4.52E-10
PARP12	987.5231715	0.776502101	0.114976242	6.75358741	1.44E-11	4.56E-10
GREM1	111.1157034	1.110859821	0.164783391	6.74133365	1.57E-11	4.95E-10
RPLP2	13642.31461	-0.330378964	0.049023214	-6.739235135	1.59E-11	5.01E-10
EGR2	4152.824676	0.795738402	0.118130963	6.73606972	1.63E-11	5.11E-10
CDR2	247.1198718	-0.544112547	0.080839785	-6.730751986	1.69E-11	5.29E-10
ALAS1	2221.06813	0.923855799	0.1375867	6.714717307	1.88E-11	5.90E-10
DEF6	148.7787664	-1.029988248	0.153520573	-6.709121977	1.96E-11	6.11E-10
ZNF552	116.6361275	-0.861429884	0.128393057	-6.709318278	1.96E-11	6.11E-10
METTL9	459.3085671	0.546271299	0.081499648	6.702744284	2.05E-11	6.37E-10
SEPN1	1707.019853	0.609702359	0.091026406	6.698082327	2.11E-11	6.57E-10
C10orf54	422.9957702	-0.577479544	0.086272443	-6.693673224	2.18E-11	6.76E-10
PIM3	1649.745914	0.599019443	0.089526502	6.690973358	2.22E-11	6.87E-10
LOC65443:	578.7697077	0.450994862	0.067410975	6.690229055	2.23E-11	6.89E-10
MMP19	1199.715853	0.861527411	0.128776795	6.690082736	2.23E-11	6.89E-10
H2AFV	1381.289488	-0.383135832	0.057355919	-6.679970191	2.39E-11	7.37E-10
APBB2	276.1251919	0.798343814	0.119621521	6.673914603	2.49E-11	7.67E-10
USP30-AS1	148.9060556	1.047409023	0.157205797	6.662661577	2.69E-11	8.27E-10
LGR4	44.89121729	-0.993848448	0.149190756	-6.661595372	2.71E-11	8.32E-10
NFKB1	653.068121	0.610584477	0.091664592	6.661072316	2.72E-11	8.33E-10
CXCL3	222.1366557	1.005544681	0.151001026	6.659191066	2.75E-11	8.42E-10
CASP8	110.5419929	-0.69740701	0.104767383	-6.656718845	2.80E-11	8.55E-10
RIN3	1499.76146	-0.382947152	0.05756949	-6.651911459	2.89E-11	8.82E-10
RPL36A	1530.505101	-0.612385826	0.092076007	-6.650872991	2.91E-11	8.87E-10
ATP1A1	15209.71044	0.449552405	0.067731735	6.637249193	3.20E-11	9.71E-10
CUL1	817.5735053	0.447060142	0.06739998	6.632941784	3.29E-11	9.99E-10
SLFN5	532.6365165	0.784092999	0.118257791	6.630370765	3.35E-11	1.01E-09
WARS	12493.94636	0.912626844	0.137822359	6.621761899	3.55E-11	1.07E-09
PVRL2	290.7172049	0.787647882	0.118987551	6.61958225	3.60E-11	1.09E-09
TLR7	117.8677195	-1.234409377	0.186519278	-6.618132919	3.64E-11	1.10E-09
BZW1	3496.872183	0.327201522	0.049449279	6.616911916	3.67E-11	1.10E-09
ZNF491	24.88870646	-1.069997598	0.161751285	-6.615079414	3.71E-11	1.12E-09
DUSP1	1796.063335	0.563620249	0.085254447	6.611036349	3.82E-11	1.15E-09
PAGR1	232.5675702	-0.517128328	0.078267193	-6.607216998	3.92E-11	1.17E-09
TNFRSF10/	178.2965648	0.766674505	0.116103324	6.603381166	4.02E-11	1.20E-09
MYOF	4202.427584	0.822260933	0.124876132	6.584612429	4.56E-11	1.36E-09
DAG1	286.7507858	0.7238478	0.109938144	6.584136991	4.58E-11	1.36E-09
BTBD2	507.7056289	-0.597476698	0.090768095	-6.58245276	4.63E-11	1.38E-09
C1orf54	221.2150602	0.613913698	0.093273032	6.581899248	4.64E-11	1.38E-09
GPNMB	68939.51668	-0.662961714	0.100757791	-6.579756338	4.71E-11	1.40E-09
HIST1H4B	323.8998949	-0.705508107	0.107231367	-6.579307225	4.73E-11	1.40E-09
GNB2L1	11471.51703	-0.348800875	0.053104674	-6.568176518	5.09E-11	1.51E-09
QPCT	644.0887018	0.995432915	0.151574144	6.567300269	5.12E-11	1.51E-09
CHI3L1	26263.89662	0.838235545	0.127667758	6.565757544	5.18E-11	1.53E-09

CFL1P1	6.411461731	2.974873266	0.453466962	6.560286668	5.37E-11	1.58E-09
SERTAD1	201.6621855	0.743353557	0.113433095	6.553233485	5.63E-11	1.65E-09
ADM	238.2410163	1.299426883	0.198310276	6.552493964	5.66E-11	1.66E-09
SLCO2B1	4427.070368	-0.821003934	0.125392253	-6.547485302	5.85E-11	1.71E-09
MAP1LC3A	336.1861252	1.469150955	0.22450972	6.54381893	6.00E-11	1.75E-09
PFKP	421.7181089	0.962696423	0.147115197	6.543827186	6.00E-11	1.75E-09
TPT1	23055.34526	-0.527890978	0.080673951	-6.543512156	6.01E-11	1.75E-09
RPL35	4832.109421	-0.455080958	0.069596402	-6.53885758	6.20E-11	1.80E-09
CDCA7L	101.036267	-1.002250421	0.153304153	-6.537659964	6.25E-11	1.82E-09
SREBF2	816.2141987	0.708400097	0.108442356	6.532503746	6.47E-11	1.88E-09
FKBP9	275.9698373	-0.408142786	0.062542367	-6.525860911	6.76E-11	1.96E-09
SNCA	41.60804551	-1.42965035	0.219107997	-6.52486614	6.81E-11	1.97E-09
VAMP5	105.6867966	1.183234878	0.181389327	6.523178051	6.88E-11	1.99E-09
CSF1R	1703.199097	-0.75432549	0.115764951	-6.516009252	7.22E-11	2.08E-09
PCNX	849.096108	0.489371425	0.07511831	6.514675638	7.28E-11	2.10E-09
HOMER3	449.0688289	-0.874299552	0.134225132	-6.513679979	7.33E-11	2.11E-09
SNX29	586.8880554	-0.404332054	0.062076767	-6.513419935	7.35E-11	2.11E-09
TBC1D14	197.9366784	-0.497761089	0.076439963	-6.511791304	7.43E-11	2.13E-09
TBKBP1	232.6519589	0.807441627	0.124108899	6.505912399	7.72E-11	2.21E-09
RGCC	5067.042088	0.85532322	0.131556504	6.501565424	7.95E-11	2.27E-09
GTPBP1	324.5862433	0.738014224	0.11354335	6.499845415	8.04E-11	2.29E-09
IL1A	623.2437559	1.23010805	0.18931053	6.497832176	8.15E-11	2.32E-09
HK2	2275.343531	0.462435855	0.071187441	6.496031467	8.25E-11	2.35E-09
NFKBIZ	672.1183643	0.602065255	0.092703526	6.494523816	8.33E-11	2.37E-09
ENPP4	1034.289607	0.745989241	0.114943317	6.490061874	8.58E-11	2.43E-09
TUBE1	217.8595316	0.555908628	0.085780708	6.480578693	9.14E-11	2.58E-09
VILL	53.44804036	1.136471906	0.175362867	6.480687306	9.13E-11	2.58E-09
FAM129B	2176.708204	0.876618772	0.135310021	6.478594599	9.26E-11	2.61E-09
TK2	380.9834278	-0.484220603	0.074767929	-6.476314204	9.40E-11	2.65E-09
CXCL9	493.5311724	3.000948716	0.463467814	6.474988395	9.48E-11	2.67E-09
C2orf18	1306.720313	-0.384223354	0.059342999	-6.474619779	9.51E-11	2.67E-09
RASSF2	113.5204871	-0.998239262	0.154219928	-6.472829262	9.62E-11	2.70E-09
ZNF652	179.0287723	-0.752041024	0.116230439	-6.47025884	9.78E-11	2.74E-09
MAZ	2420.992133	-0.39632433	0.06129598	-6.465747529	1.01E-10	2.82E-09
IRF9	589.3866833	0.489594994	0.075725709	6.465373516	1.01E-10	2.82E-09
MT1F	653.6257707	1.72286072	0.266486319	6.465100085	1.01E-10	2.82E-09
S100A4	5779.02128	-0.873081605	0.135120809	-6.461488882	1.04E-10	2.89E-09
PBXIP1	227.8385443	-0.703489578	0.108886172	-6.460779772	1.04E-10	2.89E-09
PTGS1	395.0898392	-0.845780276	0.130907753	-6.460887584	1.04E-10	2.89E-09
TMEFF1	62.41401475	1.019789616	0.158187844	6.446700279	1.14E-10	3.17E-09
RPL37A	4460.892965	-0.378488516	0.058728895	-6.444672867	1.16E-10	3.21E-09
PLEKHG6	34.18612275	1.543424236	0.239607322	6.441473589	1.18E-10	3.27E-09
TLE3	581.8054725	-0.581254079	0.090250808	-6.440430724	1.19E-10	3.29E-09
FUT4	413.8010037	0.600788914	0.093295534	6.439632119	1.20E-10	3.30E-09
BST2	3274.595144	0.605535293	0.09418674	6.429092815	1.28E-10	3.53E-09
TMEM63B	465.5638075	0.644168915	0.100211061	6.42812189	1.29E-10	3.55E-09
BRK1	1460.780244	-0.334015677	0.052025243	-6.420261719	1.36E-10	3.73E-09
TOP1MT	507.4219573	-0.842144635	0.131203527	-6.418612781	1.38E-10	3.77E-09
ERVFRD-1	7.737917641	-2.565667191	0.399869658	-6.416258746	1.40E-10	3.82E-09

COL1A1	21.61506679	2.148957947	0.335221857	6.410554395	1.45E-10	3.96E-09
ANXA6	289.2273381	-0.680175606	0.106155398	-6.407357681	1.48E-10	4.04E-09
ZNF449	61.0065705	-0.85533569	0.133494656	-6.407265397	1.48E-10	4.04E-09
PTRF	118.110714	1.234036474	0.19286629	6.398404172	1.57E-10	4.27E-09
MARCO	2579.433179	-0.7547516	0.117996842	-6.396371184	1.59E-10	4.32E-09
DRAM2	764.0305837	-0.447980209	0.070075682	-6.392805558	1.63E-10	4.41E-09
ODC1	586.2355046	0.392883244	0.061456116	6.392907181	1.63E-10	4.41E-09
CNNM4	702.0592585	0.567916841	0.08887491	6.390069351	1.66E-10	4.48E-09
AKR1C2	1220.688673	-0.740835641	0.116017906	-6.385528485	1.71E-10	4.61E-09
MATK	1279.255925	0.879606908	0.137893991	6.378863231	1.78E-10	4.81E-09
OAS1	2518.851683	0.877756579	0.137644571	6.376979287	1.81E-10	4.86E-09
FOSB	33.10562764	1.74060628	0.273176436	6.371729233	1.87E-10	5.03E-09
SLC1A4	1140.848556	0.571493255	0.089699138	6.37122348	1.88E-10	5.04E-09
NOTCH2	2527.648134	-0.369815252	0.058048833	-6.370761174	1.88E-10	5.04E-09
GPR160	42.75057719	-1.165804447	0.18333078	-6.359021926	2.03E-10	5.44E-09
PYGL	821.3965513	-0.466522459	0.073385049	-6.35718674	2.05E-10	5.49E-09
LRPAP1	2481.023	-0.434561739	0.068360683	-6.356895826	2.06E-10	5.50E-09
UCP2	3358.243442	-0.657688823	0.103563203	-6.350603311	2.14E-10	5.72E-09
ENPP3	62.97757835	-1.167171126	0.183802468	-6.350138474	2.15E-10	5.73E-09
CDKN1A	3506.646485	0.934650166	0.147223675	6.348504508	2.17E-10	5.78E-09
SNHG8	130.1158726	-0.810547854	0.127685424	-6.348006153	2.18E-10	5.79E-09
PSMA5	899.8665151	0.532941522	0.083972251	6.346638487	2.20E-10	5.83E-09
MOSPD3	80.68781548	-0.635461845	0.100182803	-6.343023195	2.25E-10	5.96E-09
STOM	4929.991363	0.767043968	0.121011606	6.338598353	2.32E-10	6.13E-09
UBE2S	420.9254457	0.658402355	0.103909441	6.336309275	2.35E-10	6.21E-09
TMC8	287.9775788	-0.981637317	0.154981919	-6.333882853	2.39E-10	6.30E-09
CR1	147.2272007	-0.952293773	0.150365773	-6.333181792	2.40E-10	6.32E-09
RGS1	411.0347983	0.796073355	0.125700668	6.333087702	2.40E-10	6.32E-09
IMPDH1	809.8662302	-0.557098049	0.088128996	-6.321393326	2.59E-10	6.80E-09
PAX5	5.474027305	3.478076284	0.551006379	6.312225076	2.75E-10	7.21E-09
FOSL1	43.43527858	0.963626716	0.152719941	6.309763536	2.79E-10	7.31E-09
NUDT3	777.3311932	-0.495574712	0.078545784	-6.309373786	2.80E-10	7.32E-09
CCL24	1640.217569	2.075668706	0.329000951	6.30900519	2.81E-10	7.33E-09
VPS26B	303.1308067	-0.425351011	0.06746434	-6.304827302	2.89E-10	7.52E-09
CMTM7	726.0280841	-0.506460898	0.080455776	-6.294897969	3.08E-10	8.01E-09
C11orf82	65.00104017	-1.224956266	0.19462036	-6.294080782	3.09E-10	8.04E-09
AP1M2	13.98919166	2.275535863	0.361620935	6.292599919	3.12E-10	8.10E-09
PRKCDBP	166.1515687	0.616919799	0.098078088	6.29008795	3.17E-10	8.22E-09
RPL13A	3118.169433	-0.474664481	0.075469356	-6.289499543	3.18E-10	8.24E-09
MEGF9	780.1245459	-0.500510471	0.079631596	-6.285325092	3.27E-10	8.46E-09
ASAP2	68.24042694	1.377053323	0.219311563	6.278981851	3.41E-10	8.80E-09
DOT1L	323.0504092	0.702014449	0.11197178	6.269565857	3.62E-10	9.33E-09
TUBA4A	116.9252386	0.950559653	0.151642689	6.268417287	3.65E-10	9.39E-09
RMI2	37.4019885	1.099781187	0.175765142	6.25710634	3.92E-10	1.01E-08
MXI1	247.268576	-0.621267581	0.099299863	-6.256479757	3.94E-10	1.01E-08
CNIH4	1004.67454	0.720866964	0.115254769	6.254552136	3.99E-10	1.02E-08
CLDN12	256.4718353	0.800458357	0.128090666	6.249154444	4.13E-10	1.06E-08
PKD2L1	53.5971698	-1.062669271	0.170059951	-6.248792056	4.14E-10	1.06E-08
EPSTI1	770.4355599	1.564049905	0.250548402	6.242506003	4.31E-10	1.10E-08

ATP13A3	2786.746141	0.4678857	0.074960787	6.241739456	4.33E-10	1.10E-08
CD300E	101.1503699	1.722687877	0.27601255	6.241338935	4.34E-10	1.10E-08
GNGT2	94.13022648	-0.946924058	0.151804745	-6.237776405	4.44E-10	1.13E-08
PPP2R2A	536.8999461	0.328894251	0.052726798	6.237705768	4.44E-10	1.13E-08
COL5A3	33.67938848	1.834478212	0.294199827	6.235483659	4.50E-10	1.14E-08
CASC4	598.1225639	-0.416553922	0.066953106	-6.221577218	4.92E-10	1.25E-08
MB21D2	111.8793403	0.569360136	0.091582398	6.216916659	5.07E-10	1.28E-08
O3FAR1	281.1459028	-1.050883363	0.169095095	-6.214747781	5.14E-10	1.30E-08
GRASP	99.72982941	1.355628216	0.218194019	6.212948566	5.20E-10	1.31E-08
ZCCHC24	177.8649181	-0.755814763	0.121745934	-6.208131435	5.36E-10	1.35E-08
ZNF416	43.46722499	-0.590425922	0.095133825	-6.206267029	5.43E-10	1.36E-08
ARHGDIB	9796.404203	-0.424301627	0.068436016	-6.199975562	5.65E-10	1.42E-08
B3GALNT1	243.2070229	-0.739072401	0.119213159	-6.199587398	5.66E-10	1.42E-08
CXCL13	11.34335274	3.507890328	0.565815063	6.199711813	5.66E-10	1.42E-08
VEGFA	220.9701283	1.509615275	0.243686873	6.194897799	5.83E-10	1.46E-08
RPL26	4447.553515	-0.556228751	0.089793467	-6.194534722	5.85E-10	1.46E-08
STON1	17.0426383	2.27342841	0.367053905	6.19371808	5.88E-10	1.47E-08
LAG3	20.7690253	2.291441938	0.369986658	6.193309643	5.89E-10	1.47E-08
FAM165B	162.2270862	-0.603876907	0.097520545	-6.192304491	5.93E-10	1.48E-08
FAM105A	179.5357111	-0.653869817	0.105648618	-6.189099556	6.05E-10	1.50E-08
IL18	1618.962136	0.617908566	0.099892361	6.185743951	6.18E-10	1.53E-08
FPR1	303.7498791	-1.031440557	0.16682092	-6.182920924	6.29E-10	1.56E-08
XIAP	573.8306015	0.365234991	0.059091107	6.180879195	6.37E-10	1.58E-08
SLC45A4	192.8267139	-0.5288871	0.085594443	-6.178988736	6.45E-10	1.59E-08
HSPA1B	567.3813708	0.562902871	0.091123918	6.177333902	6.52E-10	1.61E-08
SPSB1	488.4368674	0.702351805	0.113780395	6.172871905	6.71E-10	1.65E-08
CAMK1D	215.0519833	-0.4720043	0.076490562	-6.170752145	6.80E-10	1.67E-08
RPS15A	2540.980567	-0.505805129	0.081967642	-6.170790247	6.79E-10	1.67E-08
CXCR7	24.08721501	-1.212405472	0.196486014	-6.170441596	6.81E-10	1.67E-08
HHEX	132.4836932	-0.75608519	0.12253783	-6.17021854	6.82E-10	1.67E-08
MFHAS1	507.9245434	0.609872062	0.098913169	6.165731684	7.02E-10	1.72E-08
TGIF1	22.6957735	1.086340943	0.176560049	6.152812874	7.61E-10	1.86E-08
CDKN2B	48.64705253	0.923403357	0.150092227	6.152239681	7.64E-10	1.86E-08
MCL1	2921.985881	0.589972192	0.095895923	6.152213509	7.64E-10	1.86E-08
CDK14	1175.110656	0.675442776	0.109818795	6.150520729	7.72E-10	1.88E-08
WBP1	384.3144018	-0.530275116	0.086248687	-6.148210895	7.84E-10	1.91E-08
SLC25A28	116.3847672	0.891286507	0.145058727	6.144314955	8.03E-10	1.95E-08
ACSL1	4091.009222	1.201415297	0.195573947	6.143023217	8.10E-10	1.96E-08
AGPAT3	1435.894729	0.269426619	0.043876934	6.140506968	8.23E-10	1.99E-08
RPS4X	10267.73912	-0.437028856	0.071175988	-6.140116485	8.25E-10	2.00E-08
RPL27A	5236.594656	-0.565913227	0.092287386	-6.132075608	8.67E-10	2.10E-08
MUM1	75.78203339	-0.56361287	0.091942776	-6.130039734	8.79E-10	2.12E-08
NDRG1	1433.744986	0.833370375	0.135953462	6.129820918	8.80E-10	2.12E-08
ELF4	746.0435439	0.479616458	0.078259767	6.128518841	8.87E-10	2.14E-08
NPC2	8989.018187	-0.421798243	0.068831227	-6.128007072	8.90E-10	2.14E-08
CNRIP1	92.52540876	-0.801212251	0.130780572	-6.126385891	8.99E-10	2.16E-08
RRN3P1	130.1372555	-0.669279753	0.109268764	-6.125078482	9.06E-10	2.17E-08
SLC39A4	131.8765708	-0.738938898	0.120743913	-6.119885313	9.36E-10	2.24E-08
ENDOD1	78.93617085	0.757732577	0.123829777	6.119146761	9.41E-10	2.25E-08

IRF4	24.09335441	1.757678987	0.287326252	6.117363015	9.51E-10	2.27E-08
KIAA0247	1490.394693	0.453403519	0.074155462	6.114229593	9.70E-10	2.31E-08
CXCR4	915.2070598	-1.16967129	0.191502515	-6.107863856	1.01E-09	2.41E-08
MARVELD1	509.150339	-0.50898754	0.083339263	-6.107415897	1.01E-09	2.41E-08
ELMO1	259.434537	-0.666690546	0.109219167	-6.10415336	1.03E-09	2.46E-08
TSPAN13	99.38790734	-0.882477288	0.144629867	-6.101625528	1.05E-09	2.49E-08
RAB13	1940.848698	0.488679888	0.080173733	6.095261753	1.09E-09	2.59E-08
HMOX1	4079.107474	-0.488374826	0.08017178	-6.091605132	1.12E-09	2.65E-08
CRTAP	1472.210341	-0.57034716	0.093733429	-6.084778541	1.17E-09	2.75E-08
ELMSAN1	267.4165858	-0.466269726	0.076627213	-6.08491039	1.17E-09	2.75E-08
NR4A2	35.89997513	1.444082105	0.237324408	6.084844449	1.17E-09	2.75E-08
SYT11	215.1954616	0.58544112	0.096238986	6.08320126	1.18E-09	2.78E-08
ARHGAP4	193.7857438	-0.568362963	0.093436382	-6.082887135	1.18E-09	2.78E-08
LILRB2	603.2587895	-0.923764078	0.151966306	-6.078742735	1.21E-09	2.85E-08
CCND1	296.4333664	0.879038934	0.144620814	6.078232509	1.22E-09	2.85E-08
BHLHE40	2455.453728	0.85828289	0.141265556	6.07566994	1.23E-09	2.89E-08
EXT1	95.80465205	0.698342735	0.115238601	6.059972346	1.36E-09	3.19E-08
RBPJ	869.0650655	-0.298484145	0.049331252	-6.050609608	1.44E-09	3.37E-08
BAG3	1699.27894	0.645168214	0.106723048	6.045256639	1.49E-09	3.48E-08
HLA-E	11911.35907	0.82179664	0.136129677	6.036866167	1.57E-09	3.66E-08
TSPAN4	573.7617719	-0.60757973	0.10072829	-6.031867806	1.62E-09	3.78E-08
FXYD6	927.0714202	-0.704457717	0.116878686	-6.027255594	1.67E-09	3.88E-08
FBXO10	256.4392196	-0.714740731	0.118617253	-6.025605164	1.68E-09	3.91E-08
NR1H3	2371.293844	0.662968701	0.110038608	6.024873555	1.69E-09	3.93E-08
CELF1	66.1125182	1.099042097	0.182517392	6.021574638	1.73E-09	4.00E-08
ERCC2	100.9707428	-0.706209987	0.117295409	-6.02078113	1.74E-09	4.02E-08
ALAD	244.4845776	-0.502034049	0.08339297	-6.020100393	1.74E-09	4.03E-08
RPS29	66.31770055	-1.045259042	0.173849167	-6.012447819	1.83E-09	4.22E-08
RNPEPL1	1999.914404	-0.385795568	0.064201594	-6.009127605	1.87E-09	4.30E-08
EID3	300.4431796	0.844024079	0.140656294	6.000613647	1.97E-09	4.53E-08
XPNPEP1	360.8427527	0.393733198	0.065639717	5.998398781	1.99E-09	4.58E-08
PDCD1LG2	1275.584232	0.866061665	0.144400025	5.997655905	2.00E-09	4.60E-08
RNASE6	158.6543354	-1.011466576	0.168725731	-5.994738144	2.04E-09	4.68E-08
BTD	288.9427341	-0.459718338	0.076731176	-5.99128492	2.08E-09	4.77E-08
LRRC16B	20.15682396	1.766985711	0.294948282	5.990832358	2.09E-09	4.78E-08
PLEKHG3	405.2128483	0.801519033	0.133912589	5.985389732	2.16E-09	4.94E-08
PLK3	415.2994876	1.095077265	0.183082958	5.981317316	2.21E-09	5.05E-08
LOC100506	300.1948078	-0.615117242	0.102882884	-5.978810244	2.25E-09	5.13E-08
ST3GAL4	63.83232645	0.996287232	0.166725104	5.975628195	2.29E-09	5.22E-08
NPR1	59.65604747	1.355452838	0.227008927	5.970923062	2.36E-09	5.37E-08
RGS14	21.60191493	-1.320181098	0.221201713	-5.968222756	2.40E-09	5.45E-08
PARP6	820.767395	0.568915439	0.095340669	5.967185294	2.41E-09	5.48E-08
MIR155HG	23.86342811	1.297593005	0.217478721	5.966528578	2.42E-09	5.49E-08
GNPDA1	727.342357	-0.289694713	0.0486454	-5.955233499	2.60E-09	5.88E-08
PIK3IP1	85.90590931	-1.182121146	0.198505924	-5.955092539	2.60E-09	5.88E-08
KLHDC7B	38.87496553	1.131181617	0.190333213	5.943164623	2.80E-09	6.31E-08
ENO2	187.974382	0.907146131	0.15275379	5.938616195	2.87E-09	6.48E-08
MDK	544.8511944	0.867418977	0.146069019	5.938418579	2.88E-09	6.48E-08
ATPAF1	244.1365264	-0.391882522	0.066010051	-5.93670986	2.91E-09	6.54E-08

MFSD2A	300.5448539	0.613485806	0.103423055	5.931808961	3.00E-09	6.73E-08
MBNL3	139.981749	-0.610806971	0.102996964	-5.930339591	3.02E-09	6.78E-08
PIK3R1	457.8080971	-0.511241084	0.086206167	-5.930446785	3.02E-09	6.78E-08
TLR4	1907.832603	-0.815901984	0.137686176	-5.925809041	3.11E-09	6.96E-08
DYRK4	318.9868607	-1.125951722	0.190068664	-5.923920837	3.14E-09	7.03E-08
ABCG2	991.51359	-0.533726245	0.090175187	-5.918770582	3.24E-09	7.25E-08
CSF3R	967.9321499	-0.821351282	0.138799418	-5.917541232	3.27E-09	7.29E-08
APPL2	195.6810004	-0.563489729	0.095248773	-5.91597886	3.30E-09	7.35E-08
ATP2C1	1043.777228	0.819237015	0.138544177	5.913182602	3.36E-09	7.47E-08
SYT7	15.32946501	2.792945582	0.472593707	5.909823899	3.42E-09	7.62E-08
ARRB2	6134.939798	-0.354664752	0.060021155	-5.908995826	3.44E-09	7.64E-08
ATP8B1	30.12847516	-1.593594199	0.26987328	-5.904972128	3.53E-09	7.82E-08
IGSF10	20.78093734	-1.565465611	0.265366526	-5.899258048	3.65E-09	8.08E-08
PLEKHN1	16.27567293	1.599884508	0.27119243	5.899443832	3.65E-09	8.08E-08
MET	13.57086391	1.993754887	0.338595091	5.888315979	3.90E-09	8.62E-08
C1R	144.3703428	1.291100501	0.219348857	5.886059839	3.96E-09	8.73E-08
LOC653786	20.24753381	-1.086608663	0.184669724	-5.884065015	4.00E-09	8.83E-08
NDRG2	41.80496863	1.559341832	0.265080185	5.882528846	4.04E-09	8.90E-08
MSRB2	428.9653044	-0.497905702	0.08465743	-5.881417641	4.07E-09	8.95E-08
NFKBIE	520.1791877	0.600120627	0.102048296	5.880751054	4.08E-09	8.97E-08
TP53INP2	112.8508105	0.940556837	0.159944338	5.880525989	4.09E-09	8.98E-08
GTF2I	191.751597	0.567183475	0.096465306	5.879662844	4.11E-09	9.01E-08
LILRB5	247.8557522	-1.40764165	0.239555131	-5.876065533	4.20E-09	9.20E-08
ATP8B2	33.89272338	1.03987755	0.17710921	5.871391726	4.32E-09	9.45E-08
FAM83G	128.1727025	0.952682469	0.162483782	5.863246532	4.54E-09	9.91E-08
PIM1	3311.803365	0.688008495	0.117343864	5.863182527	4.54E-09	9.91E-08
PPA1	1266.216372	0.416990484	0.071123826	5.862880369	4.55E-09	9.91E-08
EIF1B	3330.203038	0.5227626	0.089291626	5.854553501	4.78E-09	1.04E-07
ITGAE	111.4007053	-0.869941107	0.148729896	-5.849134118	4.94E-09	1.07E-07
ARHGEF35	51.06989543	1.31294772	0.224690966	5.843348936	5.12E-09	1.11E-07
VASN	20.5587021	1.582101994	0.270755591	5.843284678	5.12E-09	1.11E-07
NGFRAP1	69.29004786	-0.723473302	0.123897084	-5.839308574	5.24E-09	1.14E-07
MICALCL	33.80652713	0.985326015	0.168836963	5.83596148	5.35E-09	1.16E-07
NRSN2	47.3272992	1.301042234	0.222929931	5.836103883	5.34E-09	1.16E-07
TMEM56	19.07831409	-1.618777668	0.27747635	-5.83393024	5.41E-09	1.17E-07
H1FO	269.5928776	0.789156644	0.135338282	5.830993517	5.51E-09	1.19E-07
LGALS3	9252.918758	-0.458322918	0.078608909	-5.830419565	5.53E-09	1.19E-07
RNF125	52.88384622	-1.032574723	0.177097496	-5.830543894	5.52E-09	1.19E-07
FABP5	4839.744092	-0.653662296	0.112138413	-5.829066742	5.57E-09	1.20E-07
CD164	13290.66973	0.294200905	0.050473825	5.828781677	5.58E-09	1.20E-07
LOC730101	19.42552487	1.533814234	0.263207502	5.827395576	5.63E-09	1.21E-07
EPT1	268.5290685	0.607828945	0.104372558	5.823647096	5.76E-09	1.23E-07
PCED1B	115.3175561	-0.698270853	0.119903261	-5.82361854	5.76E-09	1.23E-07
BRI3BP	151.759872	-0.675968845	0.116134861	-5.820550707	5.87E-09	1.25E-07
C11orf96	12.30173488	3.964985624	0.683600968	5.800146295	6.63E-09	1.41E-07
CCL18	32426.69016	0.740129448	0.127634686	5.798811202	6.68E-09	1.42E-07
MREG	1731.019577	0.650238703	0.112182382	5.796264031	6.78E-09	1.44E-07
ITGA4	218.7079474	-0.738321445	0.127386337	-5.795923333	6.79E-09	1.45E-07
HPS5	1327.236167	0.343696185	0.059311223	5.794791781	6.84E-09	1.45E-07

TPM1	74.5257404	-0.453013672	0.078181398	-5.794392061	6.86E-09	1.46E-07
MOV10	255.6421961	0.612750408	0.105829347	5.78998572	7.04E-09	1.49E-07
TM4SF19	6415.490551	0.608691799	0.105204491	5.785796748	7.22E-09	1.53E-07
RHOBTB1	55.61745946	-0.894760113	0.154802681	-5.780003979	7.47E-09	1.58E-07
BCAT1	1533.443007	0.759896233	0.131569538	5.775624377	7.67E-09	1.62E-07
TYMP	8218.49514	0.774076111	0.134052117	5.774441541	7.72E-09	1.63E-07
MGST2	833.2352571	-0.433812605	0.07520022	-5.768767753	7.99E-09	1.68E-07
FABP4	6653.34902	-0.941323797	0.163212406	-5.767476985	8.05E-09	1.69E-07
GCLM	336.9625198	0.597403138	0.103609209	5.765926998	8.12E-09	1.71E-07
PECR	83.56117218	-0.658342807	0.114234362	-5.763089096	8.26E-09	1.74E-07
AP5B1	604.0981198	0.513721228	0.089156947	5.761987661	8.31E-09	1.74E-07
CCRL2	1878.936631	0.665819042	0.115603188	5.759521467	8.44E-09	1.77E-07
LINC00263	63.24816366	-0.734242415	0.127487671	-5.759320938	8.45E-09	1.77E-07
TNS3	2548.628956	0.591448783	0.102708858	5.758498303	8.49E-09	1.77E-07
PRR11	42.25480946	-0.871548666	0.151371268	-5.75768886	8.53E-09	1.78E-07
RPL21	7562.681858	-0.43767423	0.076018616	-5.757461147	8.54E-09	1.78E-07
C5orf4	17.15993296	-1.734516844	0.3015151	-5.752669905	8.78E-09	1.83E-07
PABPC1	11295.66516	-0.472779302	0.082197265	-5.751764382	8.83E-09	1.84E-07
ARID5A	41.75843467	0.702119754	0.122098102	5.750455917	8.90E-09	1.85E-07
NRP1	2454.435142	0.534584487	0.0929779	5.749586608	8.95E-09	1.86E-07
LOC28597	18.67261522	1.834234907	0.31909786	5.748189307	9.02E-09	1.87E-07
HCK	3461.339419	0.51009486	0.088789404	5.744996986	9.19E-09	1.91E-07
SBNO2	558.0229018	0.548042269	0.09547717	5.740034709	9.47E-09	1.96E-07
DERL1	886.945755	0.435423322	0.075910698	5.735994148	9.69E-09	2.00E-07
NMB	206.7490699	-0.732516398	0.127737985	-5.734522896	9.78E-09	2.02E-07
GGA2	1730.629456	-0.374386365	0.065308223	-5.732606811	9.89E-09	2.04E-07
CCDC106	233.4903339	-0.5602669	0.097754387	-5.731373494	9.96E-09	2.05E-07
ZNF710	285.1402249	-0.741643118	0.129530338	-5.725632523	1.03E-08	2.12E-07
HS3ST1	20.45249791	-1.58605929	0.277045387	-5.724907777	1.03E-08	2.13E-07
C15orf52	91.28861739	-0.777819816	0.135883192	-5.724179766	1.04E-08	2.14E-07
EYA4	7.265600571	2.96630243	0.518629876	5.719497791	1.07E-08	2.19E-07
POPDC3	18.24589516	1.764375267	0.308538057	5.718501266	1.07E-08	2.20E-07
ARID5B	279.5066235	0.866447327	0.151587845	5.715810051	1.09E-08	2.24E-07
SNX5	1473.128369	-0.397871474	0.069612318	-5.715532601	1.09E-08	2.24E-07
UBE2J1	1616.683561	0.344045151	0.06019694	5.715326275	1.09E-08	2.24E-07
RPL4	17690.55381	-0.399097302	0.069870563	-5.711952014	1.12E-08	2.28E-07
TPD52L1	31.68273333	-1.838125654	0.321842283	-5.71126217	1.12E-08	2.29E-07
FOSL2	597.5651183	1.134803808	0.198779431	5.708859311	1.14E-08	2.32E-07
MIF4GD	90.4597314	-0.564899189	0.09895767	-5.708493205	1.14E-08	2.32E-07
METTL7B	53.29602264	0.836579273	0.146580624	5.707297799	1.15E-08	2.33E-07
ACAT1	849.828969	-0.379101288	0.06642899	-5.706865133	1.15E-08	2.34E-07
ACOT7	619.4281681	0.719516637	0.126100423	5.705901846	1.16E-08	2.35E-07
CYLD	856.5264216	0.53870004	0.094425979	5.70499818	1.16E-08	2.36E-07
DUSP14	190.2147511	0.745188373	0.130650581	5.703674373	1.17E-08	2.37E-07
ASB6	221.7529207	0.81943731	0.143821398	5.697603567	1.22E-08	2.46E-07
AFF4	911.220255	0.435795223	0.07651839	5.695300458	1.23E-08	2.49E-07
PDXP	105.9766708	-0.732505259	0.128636154	-5.69439644	1.24E-08	2.50E-07
GLUL	5422.001745	-0.567537434	0.099690264	-5.693007634	1.25E-08	2.51E-07
C1orf21	49.12575002	-1.000241657	0.175705008	-5.692732755	1.25E-08	2.52E-07

SNAI1	5.628004995	2.76542537	0.48594998	5.69076136	1.26E-08	2.54E-07
RRAGD	1797.254732	-0.312992953	0.055006736	-5.690084033	1.27E-08	2.55E-07
PDE4A	660.0712334	0.563837734	0.099122478	5.688293361	1.28E-08	2.57E-07
CNP	919.031252	0.656149723	0.115359633	5.687862441	1.29E-08	2.57E-07
HMG20B	1141.892346	0.587498215	0.103287189	5.688006637	1.29E-08	2.57E-07
PPP1R18	1222.183221	0.59923264	0.105401178	5.685255642	1.31E-08	2.61E-07
ZZZ3	316.5964554	-0.419751106	0.073858881	-5.683150061	1.32E-08	2.64E-07
FICD	350.2259884	0.443802521	0.078094422	5.682896544	1.32E-08	2.64E-07
NFAT5	657.9144795	0.404041585	0.071105731	5.682264657	1.33E-08	2.65E-07
RPL12	2422.002879	-0.402813247	0.070965775	-5.676162139	1.38E-08	2.74E-07
PDLIM5	2118.797452	0.399415257	0.070409137	5.672775957	1.41E-08	2.79E-07
RNF31	777.6709771	0.333946966	0.058895839	5.670128333	1.43E-08	2.83E-07
MYD88	1630.626407	0.549302495	0.096888642	5.669420907	1.43E-08	2.84E-07
RGS16	17.25347752	1.87546156	0.330815801	5.669201877	1.43E-08	2.84E-07
PDLIM7	1406.923906	0.739436441	0.13051337	5.665599159	1.47E-08	2.90E-07
PKM	39.51359901	0.74827779	0.132098496	5.664544373	1.47E-08	2.92E-07
C17orf58	123.4353645	0.639600792	0.112928923	5.663746481	1.48E-08	2.93E-07
ACOT9	1143.365508	0.479287277	0.084667462	5.66082015	1.51E-08	2.97E-07
KARS	348.222041	0.525352866	0.09283487	5.659003648	1.52E-08	3.00E-07
SRXN1	1173.04578	0.661868816	0.116963675	5.658755303	1.52E-08	3.00E-07
MEMO1	996.3074281	-0.251528907	0.044501689	-5.652120473	1.58E-08	3.12E-07
SAMSN1	338.6653631	-1.005415821	0.177945643	-5.650128892	1.60E-08	3.15E-07
LRP8	114.3537608	0.596205077	0.105534488	5.649386181	1.61E-08	3.16E-07
ZNF33B	41.37795953	-1.023844982	0.181390055	-5.644438354	1.66E-08	3.25E-07
GPR68	48.43904696	1.089291346	0.193005572	5.643833677	1.66E-08	3.26E-07
PDGFA	67.36218458	1.223161623	0.2167355	5.643568415	1.67E-08	3.26E-07
C10orf10	13.98502749	1.887056105	0.334964236	5.63360473	1.76E-08	3.45E-07
FAIM3	256.5210545	-0.754747167	0.133976358	-5.633435463	1.77E-08	3.45E-07
TRAF3IP2	528.2163923	0.477281408	0.084722494	5.633467435	1.77E-08	3.45E-07
MAPK13	1877.548903	0.507989545	0.090225824	5.63020125	1.80E-08	3.51E-07
ITGAX	4145.446173	0.550816747	0.097855002	5.628907414	1.81E-08	3.53E-07
NUP98	725.3583068	0.480097793	0.085290102	5.628997736	1.81E-08	3.53E-07
SLC3A2	3612.322999	0.553684401	0.098436829	5.624768735	1.86E-08	3.61E-07
DRAM1	4551.891546	0.433531563	0.077135254	5.620407567	1.91E-08	3.70E-07
ZNF238	16.10023302	-1.069043465	0.190329802	-5.616794924	1.95E-08	3.77E-07
C8B	95.63127027	-1.095915662	0.195158789	-5.615507592	1.96E-08	3.79E-07
CBLN3	23.91829796	1.155314429	0.20573966	5.615419177	1.96E-08	3.79E-07
SNHG6	359.9025303	-0.473710493	0.084392673	-5.613170856	1.99E-08	3.84E-07
CXCL1	62.57967252	1.870634936	0.333316227	5.612192816	2.00E-08	3.86E-07
UBE2Z	1739.158121	0.345156125	0.061508532	5.611516212	2.01E-08	3.87E-07
CEMP1	46.49644314	-0.829874389	0.147903991	-5.610899209	2.01E-08	3.88E-07
DUSP4	31.31831582	1.907263001	0.340014573	5.609356636	2.03E-08	3.91E-07
IL23A	64.81167508	2.674459949	0.47682879	5.608847465	2.04E-08	3.92E-07
APOL4	142.5183879	1.263676711	0.225380281	5.606864557	2.06E-08	3.96E-07
ARHGAP31	1096.32737	0.379343178	0.067672676	5.605558999	2.08E-08	3.98E-07
OR6K3	76.66454864	-0.796975986	0.142180687	-5.605374432	2.08E-08	3.98E-07
SERPINE2	56.24691384	2.293116925	0.409453374	5.600434796	2.14E-08	4.09E-07
LOC10013:	71.03711437	1.108035623	0.197874641	5.599684823	2.15E-08	4.11E-07
FAM100B	1774.365536	0.529636439	0.094622046	5.597389427	2.18E-08	4.16E-07

SLC50A1	761.7602399	0.341037966	0.061019157	5.589031084	2.28E-08	4.36E-07
LOC100128	36.98761349	-0.878456066	0.157246617	-5.586486268	2.32E-08	4.42E-07
CMKLR1	26.02899383	2.240253979	0.401094064	5.585358097	2.33E-08	4.44E-07
HCG4	21.75234317	1.098212871	0.196652826	5.58452625	2.34E-08	4.46E-07
ABCC5	130.8007902	-0.844306364	0.151192294	-5.584321415	2.35E-08	4.46E-07
TNFRSF9	148.5843405	1.415691394	0.253612311	5.582108332	2.38E-08	4.51E-07
ZNF117	211.8759334	-0.651947359	0.116789509	-5.5822425	2.37E-08	4.51E-07
TBC1D7	379.7102285	0.515665824	0.092408358	5.580294193	2.40E-08	4.55E-07
STK17A	321.9714398	0.961586628	0.172346665	5.579374724	2.41E-08	4.57E-07
PTGIR	12.76906731	1.932449015	0.34647157	5.577511062	2.44E-08	4.62E-07
TACC1	1748.607731	-0.372827295	0.066900921	-5.572827525	2.51E-08	4.74E-07
APBA3	217.4148673	0.544695271	0.097748289	5.572427656	2.51E-08	4.74E-07
ANP32A	851.7777801	-0.379977452	0.068200282	-5.571493827	2.53E-08	4.76E-07
IL4I1	833.9659885	0.926723166	0.166411498	5.568864986	2.56E-08	4.83E-07
TFCP2L1	315.067797	-0.47724835	0.085705003	-5.568500483	2.57E-08	4.84E-07
TNFRSF12A	241.0977073	0.696086209	0.125009884	5.568249393	2.57E-08	4.84E-07
LOC100289	78.56818108	1.199634485	0.215520678	5.566215261	2.60E-08	4.89E-07
CFD	1381.340594	-0.918725252	0.165218493	-5.560668407	2.69E-08	5.04E-07
IDH2	633.7299326	-0.429021841	0.077170386	-5.559410355	2.71E-08	5.07E-07
ADAMTS7	17.35307895	-1.488755377	0.268068549	-5.553636862	2.80E-08	5.24E-07
EXOSC7	339.8344228	0.434286547	0.078235364	5.551026066	2.84E-08	5.31E-07
RUFY3	903.9895088	0.710205936	0.12795412	5.550473354	2.85E-08	5.32E-07
MYCL1	68.57439178	0.935636185	0.168657809	5.547541428	2.90E-08	5.40E-07
SIGLEC1	169.9802881	1.773613774	0.319704048	5.547673815	2.89E-08	5.40E-07
SYNGR2	4014.278665	-0.347736404	0.062695877	-5.54639988	2.92E-08	5.43E-07
ZNF486	78.84266238	-0.526594029	0.094978567	-5.544345921	2.95E-08	5.49E-07
SUSD3	52.57105815	0.64630022	0.116601407	5.542816643	2.98E-08	5.54E-07
NAA50	1809.654543	0.426933021	0.077027293	5.542620069	2.98E-08	5.54E-07
ENPP2	22.0282952	1.960026495	0.353905691	5.538273464	3.05E-08	5.67E-07
UGDH	359.8020412	0.598397259	0.108101298	5.535523334	3.10E-08	5.75E-07
USE1	348.3007492	-0.408193228	0.073738451	-5.535690314	3.10E-08	5.75E-07
ZNF581	112.0815188	-0.749562192	0.135434924	-5.534482332	3.12E-08	5.78E-07
ABHD15	294.6102848	-0.35194113	0.063610557	-5.532747209	3.15E-08	5.83E-07
RASAL2	732.1396258	0.387328427	0.070025448	5.531252366	3.18E-08	5.87E-07
HMG20A	370.6153198	-0.455348217	0.082333582	-5.530528436	3.19E-08	5.89E-07
RCBTB1	153.9564403	-0.461657168	0.083486637	-5.529713335	3.21E-08	5.91E-07
S100A9	420.1008451	-1.405906305	0.254290528	-5.52874035	3.23E-08	5.94E-07
C7orf29	122.8669917	1.007879185	0.182534014	5.521596578	3.36E-08	6.18E-07
CORO7	143.6846449	-0.437724225	0.07929483	-5.520211437	3.39E-08	6.22E-07
DNTTIP1	390.0905237	0.364801655	0.066084704	5.520213214	3.39E-08	6.22E-07
CCDC125	369.3746708	-0.405085845	0.073384916	-5.520015091	3.39E-08	6.22E-07
TAGLN3	22.88625382	1.617992282	0.293339908	5.515759151	3.47E-08	6.36E-07
SIGLEC15	39.17472141	1.131819356	0.205299792	5.513007804	3.53E-08	6.46E-07
CALM2	3232.785435	-0.584126054	0.105979753	-5.511675948	3.55E-08	6.50E-07
CUTA	504.3156635	-0.405756363	0.07368562	-5.506588191	3.66E-08	6.68E-07
TNFSF9	24.80378101	0.953675142	0.173210287	5.505880495	3.67E-08	6.70E-07
TANC2	548.7061072	-0.512958969	0.093202046	-5.503730791	3.72E-08	6.78E-07
YWHAZ	308.0341729	0.562291237	0.1021707	5.503449013	3.72E-08	6.78E-07
ZSWIM5	7.185776399	1.991977778	0.362098051	5.501210997	3.77E-08	6.86E-07

SYT12	4.219885329	3.621814979	0.658462599	5.500411088	3.79E-08	6.89E-07
SLC38A2	2972.175078	0.448560152	0.08161079	5.496333904	3.88E-08	7.04E-07
CYSLTR2	54.90396104	-1.043476043	0.190077058	-5.489752704	4.02E-08	7.30E-07
AIFM2	94.18425342	0.937517062	0.170791349	5.489253797	4.04E-08	7.32E-07
C20orf160	6.839434511	2.848817898	0.519088968	5.488111044	4.06E-08	7.36E-07
RPS23	6931.047679	-0.506579576	0.092340837	-5.485975568	4.11E-08	7.44E-07
RGS10	656.8219283	-0.425523712	0.077581546	-5.484857356	4.14E-08	7.48E-07
RUSC2	314.8630963	0.662446625	0.120798793	5.483884468	4.16E-08	7.51E-07
RPL11	18338.05697	-0.376310877	0.068655205	-5.481170415	4.23E-08	7.62E-07
GAS2L3	309.8011401	-0.485605106	0.088659469	-5.477193927	4.32E-08	7.79E-07
EIF2D	93.58606728	-0.465527924	0.08506433	-5.47265725	4.43E-08	7.98E-07
ZNF295	208.3536776	0.451705105	0.082613491	5.467691755	4.56E-08	8.20E-07
PRSS36	20.8626572	-1.146417186	0.209701344	-5.466904328	4.58E-08	8.23E-07
YPEL2	97.35813278	-0.603905568	0.110476634	-5.466364676	4.59E-08	8.25E-07
GADD45G	203.1439537	0.897418896	0.16420051	5.465384335	4.62E-08	8.28E-07
FAM104A	338.7338492	0.331088105	0.060626648	5.461098621	4.73E-08	8.48E-07
ECM1	568.0609175	0.797791032	0.146096123	5.460726912	4.74E-08	8.49E-07
MTHFD1	1214.812253	0.446561111	0.081804898	5.458855449	4.79E-08	8.57E-07
STX6	1408.234696	-0.358272541	0.065638399	-5.458276674	4.81E-08	8.59E-07
HEXB	6747.614524	-0.309534612	0.056734521	-5.455842522	4.87E-08	8.70E-07
RBMS2	469.3488715	-0.555018498	0.101760745	-5.45415129	4.92E-08	8.77E-07
THBS1	467.6790905	-1.414285954	0.259549985	-5.448992634	5.07E-08	9.02E-07
PRR5L	36.33395593	-1.431279591	0.262784541	-5.446589774	5.13E-08	9.14E-07
ATAD1	626.9420818	-0.501348221	0.092192041	-5.438085745	5.39E-08	9.58E-07
LRMP	104.270351	-0.91452545	0.168212687	-5.436721022	5.43E-08	9.64E-07
NMD3	391.1371916	-0.386986318	0.071185698	-5.436293081	5.44E-08	9.65E-07
ACVR1B	812.9930105	0.520745929	0.095822545	5.43448234	5.50E-08	9.74E-07
DHRS4	785.552167	0.463513354	0.085354689	5.430438076	5.62E-08	9.95E-07
MAPK3	318.4651865	-0.505267423	0.0930447	-5.43037298	5.62E-08	9.95E-07
AKIRIN2	447.2897627	0.387595419	0.071380897	5.429960084	5.64E-08	9.97E-07
IPW	18.79931431	-1.020212317	0.18816249	-5.421974997	5.89E-08	1.04E-06
AFMID	32.78829286	-0.963506103	0.177738351	-5.420924049	5.93E-08	1.05E-06
ADORA2A	23.87031554	2.425316866	0.447435638	5.420482098	5.94E-08	1.05E-06
SLC7A2	45.05771328	4.383281162	0.808671284	5.420349715	5.95E-08	1.05E-06
N4BP1	365.0154737	0.644597365	0.118926467	5.420133826	5.96E-08	1.05E-06
POLR3D	253.31694	0.482045982	0.08895741	5.41884012	6.00E-08	1.05E-06
FMR1	208.2271643	0.32706688	0.060389363	5.415968328	6.10E-08	1.07E-06
ARL3	172.1964839	-0.449479564	0.082996826	-5.415623507	6.11E-08	1.07E-06
SLC2A9	214.9389045	-0.587721817	0.108620063	-5.410803525	6.27E-08	1.10E-06
LOC646329	43.38519836	1.001707544	0.185260026	5.407035525	6.41E-08	1.12E-06
ARRDC1	280.5962241	-0.388092438	0.071823511	-5.40341781	6.54E-08	1.14E-06
CCNG2	260.7124132	-0.57838381	0.10712481	-5.399158329	6.70E-08	1.17E-06
PROCR	201.5389122	0.960884591	0.178004269	5.398098575	6.74E-08	1.18E-06
UBTD2	530.8945972	0.363387996	0.067327902	5.397286795	6.77E-08	1.18E-06
OSBPL11	1172.279549	-0.415307463	0.076963214	-5.396181356	6.81E-08	1.19E-06
SPECC1	142.494686	0.552985033	0.102475652	5.396257776	6.80E-08	1.19E-06
ITGAM	1066.250719	0.552188283	0.102384457	5.393282329	6.92E-08	1.20E-06
CD84	3412.992712	-0.602607202	0.111784231	-5.390806882	7.01E-08	1.22E-06
SGMS1	1002.319619	0.425564904	0.078990119	5.387571369	7.14E-08	1.24E-06

CDC42EP3	1045.522913	-0.544968245	0.101162807	-5.387041531	7.16E-08	1.24E-06
H2AFY	2884.382838	-0.428987199	0.07964009	-5.386573489	7.18E-08	1.24E-06
RPS27	1643.690106	-0.611618461	0.113651281	-5.381536007	7.39E-08	1.28E-06
ADAR	4938.686473	0.573979044	0.106699613	5.379392003	7.47E-08	1.29E-06
PBX4	41.31608767	0.975572643	0.181423189	5.377331577	7.56E-08	1.31E-06
RPL3	4957.370278	-0.36534412	0.067960701	-5.375814487	7.62E-08	1.32E-06
NMI	241.054215	0.632816007	0.117946089	5.365298751	8.08E-08	1.39E-06
MTFP1	377.2661726	0.704421273	0.131320582	5.364134544	8.13E-08	1.40E-06
FAM225A	84.8615772	0.657710681	0.122637675	5.363039367	8.18E-08	1.41E-06
GTF2A1	768.7084006	0.306416991	0.05716763	5.359973707	8.32E-08	1.43E-06
RAI14	55.87795849	1.227655103	0.229059993	5.359535231	8.34E-08	1.43E-06
GPR85	60.6612067	-0.881770502	0.164628642	-5.356118409	8.50E-08	1.46E-06
NPPC	6.118630574	2.089221333	0.390061215	5.356137072	8.50E-08	1.46E-06
PLCB2	2198.188484	-0.507209728	0.094727216	-5.354424533	8.58E-08	1.47E-06
SIRPD	83.85684061	-0.690313812	0.129001875	-5.351192064	8.74E-08	1.50E-06
RPLP0	4631.509061	-0.377677858	0.070581506	-5.350946398	8.75E-08	1.50E-06
C1orf162	212.4172472	-0.699628253	0.130842891	-5.347086463	8.94E-08	1.53E-06
ERV3-1	236.612832	-0.754509349	0.141159152	-5.345096913	9.04E-08	1.54E-06
TNFSF15	84.41441699	1.057112588	0.197905932	5.341490144	9.22E-08	1.57E-06
EGR3	17.26473764	1.692935525	0.317029751	5.33998945	9.30E-08	1.58E-06
KIAA0141	268.5855098	-0.424658448	0.079527347	-5.339778853	9.31E-08	1.59E-06
HLA-DMA	3522.3214	-0.433901878	0.081329574	-5.335105744	9.55E-08	1.62E-06
HBEGF	3748.358605	0.638932531	0.119874019	5.330033467	9.82E-08	1.67E-06
ACOT11	58.30032708	-0.615404665	0.115470986	-5.329517716	9.85E-08	1.67E-06
RAP2B	984.5545249	-0.556731623	0.10446119	-5.329554674	9.85E-08	1.67E-06
LAD1	33.73231792	2.544660223	0.477533193	5.328760934	9.89E-08	1.67E-06
RBM47	4167.022007	0.296896793	0.05571564	5.328787289	9.89E-08	1.67E-06
SNX21	80.21179842	-0.657563995	0.123402518	-5.328610856	9.90E-08	1.67E-06
SHC4	17.97557575	1.289106866	0.242047635	5.325839542	1.00E-07	1.70E-06
NARS2	150.2185893	-0.46412034	0.087243819	-5.319807726	1.04E-07	1.75E-06
SAMM50	263.7359246	-0.488491543	0.091840586	-5.318907052	1.04E-07	1.76E-06
BAMBI	51.46914803	0.930266655	0.174930765	5.317913389	1.05E-07	1.77E-06
KLF6	1527.644219	0.49304952	0.092791472	5.313521901	1.08E-07	1.81E-06
PPARD	897.8943707	0.524344184	0.098700816	5.312460475	1.08E-07	1.82E-06
PTPN22	685.2484261	-0.607823703	0.114498446	-5.308576018	1.10E-07	1.86E-06
TEN1	144.1437716	0.45225384	0.085216832	5.307095192	1.11E-07	1.87E-06
CKS2	86.62720267	0.446916666	0.084229662	5.305929739	1.12E-07	1.88E-06
SARDH	87.87904143	1.061070491	0.200037401	5.304360513	1.13E-07	1.90E-06
SLC37A2	1220.993446	-0.455944835	0.086059175	-5.298038662	1.17E-07	1.96E-06
TOMM34	275.1484616	0.458517029	0.086545575	5.297983487	1.17E-07	1.96E-06
UPP1	51.33811855	0.838755815	0.158468002	5.292903316	1.20E-07	2.01E-06
PCYOX1	397.6967742	-0.564810197	0.10690132	-5.283472603	1.27E-07	2.12E-06
SLC44A2	582.894347	0.598412605	0.113292868	5.281997128	1.28E-07	2.13E-06
FCRLA	18.89494414	1.625734493	0.307818537	5.281470401	1.28E-07	2.14E-06
SGSH	224.549668	-0.538584575	0.102025093	-5.278942228	1.30E-07	2.17E-06
XPO6	1321.457403	0.285999994	0.054196102	5.277132229	1.31E-07	2.19E-06
ZFAND2A	315.4510361	0.564657552	0.107083564	5.273055287	1.34E-07	2.23E-06
IL27RA	460.3432883	0.397716641	0.075447534	5.271433273	1.35E-07	2.25E-06
TSPYL2	72.81276311	-0.602386478	0.114279281	-5.271178417	1.36E-07	2.25E-06

CC2D2A	5.887236086	-2.248805031	0.426642301	-5.270937801	1.36E-07	2.25E-06
PSME1	1210.54154	0.407644886	0.077356019	5.269724183	1.37E-07	2.27E-06
PPARGC1B	267.882652	0.614928981	0.116701132	5.269263212	1.37E-07	2.27E-06
RRAD	12.37020387	1.786406549	0.339087674	5.268273334	1.38E-07	2.28E-06
IFT172	81.5681947	-0.558052107	0.105949629	-5.267145473	1.39E-07	2.29E-06
TBX20	25.87754979	1.191372291	0.226188486	5.267165936	1.39E-07	2.29E-06
AIM2	58.38087575	1.678817123	0.318865982	5.264961519	1.40E-07	2.31E-06
RBM19	349.0975086	0.338502782	0.064317379	5.263006442	1.42E-07	2.34E-06
WNT5A	33.73420838	2.295653107	0.436269195	5.262010552	1.42E-07	2.35E-06
SPP1	5206.372858	0.745986975	0.141868129	5.258312629	1.45E-07	2.39E-06
TPD52	135.0022036	0.87219032	0.16589108	5.257608313	1.46E-07	2.40E-06
LAMTOR1	1879.0226	-0.285164221	0.054253277	-5.256165856	1.47E-07	2.42E-06
ZYG11B	277.7553939	-0.354507404	0.067453907	-5.255550374	1.48E-07	2.42E-06
PIP4K2C	557.6431475	0.333494508	0.063513547	5.250761817	1.51E-07	2.48E-06
DTNA	104.3774419	0.930706622	0.177266626	5.250320619	1.52E-07	2.49E-06
TRIAP1	306.8440359	-0.349182227	0.066513024	-5.249832398	1.52E-07	2.49E-06
MYL12A	8472.234916	0.248937127	0.047422743	5.249319415	1.53E-07	2.50E-06
SLC25A19	672.9991222	-0.323916298	0.061708268	-5.249155599	1.53E-07	2.50E-06
PPP1R15A	1250.281097	0.651903365	0.124294538	5.244827144	1.56E-07	2.55E-06
FAM20A	88.25990199	0.906104251	0.172821215	5.243015164	1.58E-07	2.58E-06
GTF2IRD2E	83.36477082	-0.774138579	0.14771985	-5.240585992	1.60E-07	2.61E-06
AGPAT6	517.914783	0.338443603	0.064616595	5.237719595	1.63E-07	2.65E-06
A4GALT	299.7828596	0.932768152	0.178126839	5.236539063	1.64E-07	2.66E-06
CD9	8670.900841	-0.451213103	0.08618914	-5.235150319	1.65E-07	2.68E-06
FCGR3A	5154.728255	-0.678525999	0.129608793	-5.235184903	1.65E-07	2.68E-06
DGAT2	179.8322778	0.783076066	0.150011796	5.220096596	1.79E-07	2.90E-06
C19orf59	3001.105471	0.867128794	0.166183987	5.217884173	1.81E-07	2.94E-06
C21orf91	139.9264329	0.566977017	0.108750339	5.213565521	1.85E-07	3.00E-06
PSME4	1531.5516	0.502924666	0.096507392	5.211255359	1.88E-07	3.04E-06
LAMA3	9.249102588	2.276452756	0.436971709	5.209611304	1.89E-07	3.06E-06
DAXX	657.6114404	0.658912019	0.126559197	5.206354307	1.93E-07	3.11E-06
LYL1	198.1592471	-0.513371102	0.098610881	-5.206028959	1.93E-07	3.11E-06
SLCO4A1	35.4709649	1.198579995	0.230223357	5.20616158	1.93E-07	3.11E-06
CCNI	4728.039521	-0.510227616	0.09808775	-5.201746572	1.97E-07	3.18E-06
OSCAR	373.6982696	0.603752499	0.116100041	5.200278066	1.99E-07	3.20E-06
GSN	6857.040159	0.612561041	0.117849865	5.197808572	2.02E-07	3.24E-06
AGTRAP	1773.454989	0.45861993	0.088252499	5.196679255	2.03E-07	3.26E-06
STARD8	360.9429223	0.81546358	0.15706275	5.19196042	2.08E-07	3.34E-06
RNF207	93.91886777	0.959469267	0.184884248	5.189567405	2.11E-07	3.38E-06
CD55	69.13655728	0.932500886	0.179784116	5.186781262	2.14E-07	3.43E-06
GAS5	102.8143676	-0.62642094	0.120842956	-5.183760497	2.17E-07	3.48E-06
ZNF331	149.8263732	-0.681891704	0.131601327	-5.18149566	2.20E-07	3.52E-06
FAM26F	72.43142095	1.530860785	0.295466602	5.181163535	2.21E-07	3.53E-06
SNHG12	170.3013072	-0.560917645	0.108264354	-5.181000263	2.21E-07	3.53E-06
POLR2L	2555.284869	-0.386625141	0.07465	-5.179171377	2.23E-07	3.56E-06
BCL6	745.7111297	0.378417849	0.073074159	5.178545365	2.24E-07	3.57E-06
GATM	35.36285947	-0.784905018	0.151637995	-5.17617644	2.26E-07	3.61E-06
CASP7	50.81553965	0.594550601	0.114906813	5.174198007	2.29E-07	3.65E-06
TRIM56	156.0801433	0.578554941	0.11191644	5.169525932	2.35E-07	3.73E-06

PXK	405.762142	-0.501525758	0.097065355	-5.166887376	2.38E-07	3.78E-06
DNAJC5B	267.6745268	-0.659128731	0.127582117	-5.16630973	2.39E-07	3.79E-06
FSCN1	211.3905773	0.668151876	0.129394553	5.163678538	2.42E-07	3.84E-06
HMGCS1	96.79570449	0.702503925	0.13605628	5.163333318	2.43E-07	3.85E-06
PLXDC2	3918.618169	-0.418545558	0.081113022	-5.160029162	2.47E-07	3.91E-06
CES1	25574.88286	-0.435869031	0.084482091	-5.159306837	2.48E-07	3.92E-06
PLEKHO1	403.0621243	0.568161501	0.110170184	5.157125815	2.51E-07	3.97E-06
RPS10	3159.046546	-0.329707438	0.063939169	-5.15657996	2.52E-07	3.97E-06
SNURF	229.0122654	-0.54170386	0.105059158	-5.156179335	2.52E-07	3.98E-06
DIXDC1	108.0774035	0.615521666	0.119422273	5.154161369	2.55E-07	4.02E-06
ABHD2	3836.646357	-0.533180802	0.103498428	-5.151583587	2.58E-07	4.07E-06
RCN1	717.7762646	0.468826786	0.091057376	5.148696452	2.62E-07	4.13E-06
SH2D4A	41.17438625	0.819157078	0.159289778	5.14255897	2.71E-07	4.27E-06
KCNE3	389.7396655	-0.659642349	0.128286305	-5.141954556	2.72E-07	4.28E-06
MRO	5.523295768	-3.013156797	0.586066395	-5.141323278	2.73E-07	4.29E-06
CSNK1E	387.2316975	-0.331191242	0.064465553	-5.137491668	2.78E-07	4.37E-06
CD97	2450.402627	0.551897873	0.107474613	5.135146432	2.82E-07	4.42E-06
IRF6	26.34484966	1.130614472	0.220172832	5.135122544	2.82E-07	4.42E-06
PADI2	279.5798772	-0.886328031	0.172593581	-5.1353476	2.82E-07	4.42E-06
TP53INP1	36.47606153	-1.059712362	0.206415561	-5.133878262	2.84E-07	4.44E-06
TPST2	506.1689379	-0.554953118	0.108095195	-5.133929573	2.84E-07	4.44E-06
MLLT4	279.3421945	0.548404369	0.106827408	5.133554925	2.84E-07	4.44E-06
ATG2A	593.3181109	0.569033094	0.110866406	5.132601594	2.86E-07	4.46E-06
RPS6KA3	1215.205958	0.365952792	0.071334271	5.130111865	2.90E-07	4.52E-06
HIST1H4F	100.1034986	-0.910132556	0.177470219	-5.128367783	2.92E-07	4.55E-06
ZNF483	25.17523726	-1.004436344	0.195963234	-5.125636704	2.97E-07	4.62E-06
CD302	328.3863432	-1.323721924	0.258504419	-5.12069361	3.04E-07	4.73E-06
ENDOG	155.8761393	-0.354531593	0.069238067	-5.120472178	3.05E-07	4.74E-06
SLC24A4	42.70073016	-1.055433658	0.206195318	-5.118611175	3.08E-07	4.78E-06
SLC7A1	642.3737588	0.493963618	0.096524004	5.117521018	3.10E-07	4.80E-06
SAMHD1	3264.254646	-0.38954127	0.076142819	-5.115929174	3.12E-07	4.84E-06
LONRF1	189.2527475	0.797658128	0.155935508	5.115307845	3.13E-07	4.85E-06
PTPMT1	1211.741879	0.472486335	0.092463678	5.109966931	3.22E-07	4.99E-06
CCBL1	17.97468465	-1.106544838	0.216681053	-5.106790947	3.28E-07	5.07E-06
CLLU1OS	61.89922709	1.641663928	0.322083395	5.097015094	3.45E-07	5.33E-06
HDCC2	743.9659961	-0.370649396	0.072775202	-5.09307274	3.52E-07	5.44E-06
PCBP2	9331.489298	-0.28578238	0.056130741	-5.091370128	3.55E-07	5.48E-06
CAMKK1	80.24558602	-0.708786903	0.139261258	-5.089620145	3.59E-07	5.53E-06
OAT	601.2052902	-0.407208757	0.080010632	-5.089433056	3.59E-07	5.53E-06
DYRK3	92.13421563	0.805472169	0.158367721	5.086088016	3.66E-07	5.62E-06
VCAM1	6.061703486	2.721082038	0.535052316	5.085637343	3.66E-07	5.63E-06
GSTM2	31.42122416	-1.298161265	0.255467747	-5.081507469	3.74E-07	5.75E-06
GNLY	48.09580017	1.335056189	0.26293452	5.077523447	3.82E-07	5.87E-06
ANAPC15	259.1362933	-0.768760789	0.151517427	-5.073745017	3.90E-07	5.98E-06
APBB1IP	283.8174165	-0.620766633	0.122359937	-5.073283349	3.91E-07	5.99E-06
CR1L	21.72930758	1.300622068	0.256379774	5.073029154	3.92E-07	5.99E-06
SRGN	21937.7149	0.511434916	0.100852425	5.071121671	3.95E-07	6.05E-06
SMPDL3A	51.96313272	-1.146181657	0.226235431	-5.06632252	4.06E-07	6.20E-06
ZNF528	41.74202712	-0.671746123	0.132596603	-5.066088472	4.06E-07	6.20E-06

CD58	1135.471211	0.343210853	0.067760602	5.065050247	4.08E-07	6.23E-06
RPL5	3413.434717	-0.696289709	0.137594359	-5.060452435	4.18E-07	6.38E-06
NAAA	382.8720831	-0.587214468	0.116052833	-5.05988915	4.20E-07	6.39E-06
NUP85	184.8679782	-0.418606406	0.082730091	-5.059905084	4.19E-07	6.39E-06
RFX7	149.4377541	-0.433141847	0.085606524	-5.059682688	4.20E-07	6.39E-06
IGFBP4	14.8577171	2.068936281	0.408978076	5.058795088	4.22E-07	6.41E-06
EIF4EBP1	754.0352683	-0.372020861	0.073551001	-5.057998622	4.24E-07	6.43E-06
UBE4B	387.1351509	-0.374261062	0.074008923	-5.056972121	4.26E-07	6.46E-06
PDCD6IP	2735.093898	0.495329601	0.097982984	5.055261427	4.30E-07	6.52E-06
FFAR2	52.06165419	1.604469424	0.317689537	5.050432067	4.41E-07	6.68E-06
CD38	687.8548159	0.903575756	0.178941557	5.04955792	4.43E-07	6.70E-06
MBP	311.8944687	-0.655055669	0.12976457	-5.04803174	4.46E-07	6.75E-06
MMP1	11.14498608	3.102944603	0.614977498	5.045622989	4.52E-07	6.83E-06
DLG4	166.3852881	-0.512301126	0.101547141	-5.044958646	4.54E-07	6.84E-06
SLC2A5	10.36355016	-1.544501392	0.306148146	-5.044947715	4.54E-07	6.84E-06
TBC1D22B	285.6584131	0.379579343	0.075255219	5.043893914	4.56E-07	6.88E-06
ARMC10	318.5749235	-0.34787784	0.068990634	-5.042392299	4.60E-07	6.92E-06
CPE	548.9929109	-0.610201499	0.121011585	-5.042504818	4.59E-07	6.92E-06
SH3PXD2B	430.1864644	0.741074716	0.147013933	5.040846828	4.63E-07	6.97E-06
SERINC5	2111.28725	-0.293224066	0.058243111	-5.034484971	4.79E-07	7.20E-06
ZNF318	277.2692723	0.374783661	0.0745181	5.029431247	4.92E-07	7.39E-06
ZFYVE16	1436.730218	0.382733577	0.0761081	5.028815293	4.94E-07	7.40E-06
DOCK10	588.4250293	-0.387504575	0.077062489	-5.028446155	4.94E-07	7.41E-06
NPAS2	48.24262529	1.560106677	0.310713159	5.021051184	5.14E-07	7.70E-06
LAIR1	2482.249951	-0.420662007	0.083782439	-5.020885169	5.14E-07	7.70E-06
IL17RA	2169.105386	0.389001556	0.077500164	5.019364295	5.18E-07	7.75E-06
ANXA1	16204.0448	0.327140278	0.065215122	5.016325463	5.27E-07	7.87E-06
LAMTOR4	250.3580222	-0.476907777	0.095108034	-5.0143795	5.32E-07	7.94E-06
C22orf28	1126.904557	0.325135424	0.064849224	5.013713385	5.34E-07	7.97E-06
LHFP	6.492974453	2.192455983	0.437329868	5.013277493	5.35E-07	7.98E-06
SLAMF1	12.95463325	2.151317191	0.429176634	5.012661502	5.37E-07	8.00E-06
KDM2A	1449.885931	0.333718076	0.066622659	5.00907772	5.47E-07	8.14E-06
LILRB4	6684.697409	0.551185588	0.110044166	5.008766988	5.48E-07	8.15E-06
TEAD3	4.171580038	2.152715822	0.430029683	5.005970301	5.56E-07	8.26E-06
MAPKAPKE	96.98602138	-0.517834256	0.103466649	-5.004842252	5.59E-07	8.30E-06
NANS	2203.223351	-0.229939322	0.045982246	-5.000610875	5.71E-07	8.48E-06
ZDHHC3	383.7814831	0.366252545	0.073287952	4.997445483	5.81E-07	8.61E-06
CCR4	6.139489101	2.243935612	0.449570548	4.991286951	6.00E-07	8.88E-06
ATN1	1238.009465	0.348273905	0.069779583	4.991057444	6.00E-07	8.89E-06
SLC28A3	298.9446388	0.811171537	0.162676607	4.986405556	6.15E-07	9.10E-06
UBL3	1481.972171	-0.276441648	0.0555169	-4.97941434	6.38E-07	9.42E-06
KCTD10	421.2579343	-0.343001139	0.068900319	-4.978222779	6.42E-07	9.48E-06
BATF	121.8111453	-0.856020227	0.172069387	-4.974854868	6.53E-07	9.63E-06
MT1JP	28.3863593	2.1677965	0.435867004	4.973527425	6.57E-07	9.69E-06
TREML3P	64.98249999	0.87939023	0.176859895	4.972242181	6.62E-07	9.75E-06
FLI1	365.6198997	-0.604263635	0.121551867	-4.97124107	6.65E-07	9.79E-06
GCNT2	145.7292287	0.490115278	0.098646394	4.968405438	6.75E-07	9.93E-06
ITGAV	1385.358147	0.518679947	0.104415498	4.967461328	6.78E-07	9.97E-06
IGFN1	8.985255356	3.314752256	0.667455086	4.966255144	6.83E-07	1.00E-05

TFEC	836.4953978	0.336808563	0.067874417	4.962231414	6.97E-07	1.02E-05
IKZF1	528.6202281	-0.443555691	0.089504964	-4.955654643	7.21E-07	1.06E-05
SLC46A3	462.8943491	-0.8405352	0.1697449	-4.951755264	7.35E-07	1.08E-05
POC1A	27.75834476	0.750581519	0.15165926	4.949130838	7.45E-07	1.09E-05
CA2	2226.922645	0.916809474	0.185292481	4.94790436	7.50E-07	1.10E-05
PATZ1	22.50262906	-1.027086402	0.207672438	-4.945703964	7.59E-07	1.11E-05
RPL15	11086.46866	-0.442796119	0.089539399	-4.945265712	7.60E-07	1.11E-05
MLLT6	827.3932279	0.540397872	0.109308334	4.94379387	7.66E-07	1.12E-05
ADO	519.9242789	0.504956324	0.102145183	4.94351578	7.67E-07	1.12E-05
SH3RF2	6.350180277	2.009349556	0.406533989	4.942636069	7.71E-07	1.12E-05
PTPRC	161.5123657	0.570459672	0.115425911	4.942215024	7.72E-07	1.12E-05
NINJ1	2319.072122	0.672277208	0.136032737	4.942025154	7.73E-07	1.12E-05
CLIC3	8.510036126	1.547042092	0.313060794	4.941666669	7.75E-07	1.13E-05
ABL2	899.7504135	0.88636439	0.179438601	4.939652817	7.83E-07	1.14E-05
C14orf159	52.10351451	0.890437217	0.180335605	4.937667298	7.91E-07	1.15E-05
LINC00515	46.05743962	0.995171085	0.201546998	4.937662644	7.91E-07	1.15E-05
AKIRIN1	1274.270317	0.45427852	0.092012603	4.937133684	7.93E-07	1.15E-05
POLR1E	164.6980964	-0.373485253	0.075658067	-4.936489498	7.95E-07	1.15E-05
LRP10	1848.374091	0.402979193	0.081639955	4.93605358	7.97E-07	1.15E-05
ABI1	2003.745487	0.368468428	0.074666826	4.934834476	8.02E-07	1.16E-05
CLDN1	9.687171278	1.763223941	0.357349866	4.934167064	8.05E-07	1.16E-05
SMAD7	570.2605052	0.466280664	0.094518721	4.933209603	8.09E-07	1.17E-05
ANAPC13	497.3782255	-0.384911617	0.078085492	-4.929361499	8.25E-07	1.19E-05
SESN3	42.99324508	-1.087065885	0.22059021	-4.927987907	8.31E-07	1.20E-05
MLF2	1958.927331	0.302221498	0.061353432	4.925910255	8.40E-07	1.21E-05
PNRC2	2133.274197	0.355588122	0.072205627	4.924659433	8.45E-07	1.22E-05
ARG2	94.48660952	-0.652866887	0.132593379	-4.923827197	8.49E-07	1.22E-05
UBR2	628.6859169	0.20919892	0.042489763	4.923513442	8.50E-07	1.22E-05
DUSP2	216.2437629	0.838616556	0.170388358	4.921794935	8.58E-07	1.23E-05
EIF2C1	313.0907455	-0.501623703	0.101935118	-4.921009678	8.61E-07	1.24E-05
TBCK	320.1819356	-0.311032633	0.06321511	-4.920226098	8.64E-07	1.24E-05
ABAT	184.5596028	-0.859070077	0.174716425	-4.916939418	8.79E-07	1.26E-05
ANTXR2	188.9951521	0.662593592	0.134811883	4.914949464	8.88E-07	1.27E-05
FAM40B	54.48431652	0.898424319	0.182950719	4.910744936	9.07E-07	1.30E-05
LOC100491	54.50529713	0.609898895	0.124200014	4.910618565	9.08E-07	1.30E-05
NCF1	2924.403966	0.731182005	0.148897922	4.91062597	9.08E-07	1.30E-05
RGS18	17.80712662	-2.650401036	0.539937919	-4.9087144	9.17E-07	1.31E-05
LOC100281	342.3421757	-0.411959242	0.083995837	-4.904519751	9.37E-07	1.34E-05
TTC4	650.8907242	0.332201838	0.067773701	4.901633431	9.50E-07	1.35E-05
PPP1R1A	17.71633251	1.42304675	0.290628625	4.896443878	9.76E-07	1.39E-05
NR3C2	45.4575456	-0.844355443	0.17246468	-4.895816596	9.79E-07	1.39E-05
SLC35A1	329.0527042	-0.448247268	0.091559566	-4.895690163	9.80E-07	1.39E-05
EIF3E	2511.35524	-0.368891115	0.075386429	-4.89333584	9.91E-07	1.41E-05
PTPRJ	1426.637884	0.529008324	0.108118639	4.892850381	9.94E-07	1.41E-05
C1orf122	250.3955663	0.742041685	0.151702383	4.891430652	1.00E-06	1.42E-05
NYNRIN	8.232180917	-1.866590587	0.381910982	-4.887501731	1.02E-06	1.45E-05
AQP9	4732.35787	0.338114749	0.069223807	4.884370909	1.04E-06	1.47E-05
ATRN	351.9451741	-0.485647302	0.09944206	-4.883721255	1.04E-06	1.47E-05
TANK	700.293835	0.526999658	0.10791254	4.883581254	1.04E-06	1.47E-05

A2M	1927.374896	-0.676094093	0.138454397	-4.883153644	1.04E-06	1.47E-05
SERPINB6	1605.874357	-0.287748746	0.05892684	-4.883152534	1.04E-06	1.47E-05
MT1L	196.3741111	0.935993474	0.191732722	4.881761767	1.05E-06	1.48E-05
VAMP8	4028.328053	-0.287634043	0.05892631	-4.881249848	1.05E-06	1.49E-05
IFNGR1	1589.809179	-0.490799629	0.100592615	-4.879082124	1.07E-06	1.50E-05
VSIG4	697.1684689	-0.674284395	0.13832018	-4.874808542	1.09E-06	1.53E-05
ESPL1	16.05534034	1.246844708	0.25582799	4.873761892	1.09E-06	1.54E-05
EIF3H	1542.933329	-0.362526549	0.074402679	-4.872493237	1.10E-06	1.55E-05
C4B	18.71323764	1.697211516	0.348554095	4.869291565	1.12E-06	1.57E-05
SLC22A4	18.14044122	1.611921022	0.331018732	4.869576446	1.12E-06	1.57E-05
SPPL2A	2218.088267	0.348410566	0.071551835	4.869344924	1.12E-06	1.57E-05
TBC1D24	212.737805	-0.376107332	0.07724313	-4.869136335	1.12E-06	1.57E-05
SCCPDH	2252.915704	-0.311432211	0.063964279	-4.868845779	1.12E-06	1.57E-05
RAPGEF1	87.78636199	0.9329149	0.191844649	4.86286641	1.16E-06	1.62E-05
RAP1B	1959.04284	0.351517684	0.072316288	4.860836932	1.17E-06	1.63E-05
BPHL	134.5420798	-0.421431769	0.086719348	-4.859720227	1.18E-06	1.64E-05
RPS8	6574.445873	-0.325666726	0.067115113	-4.852360519	1.22E-06	1.70E-05
ACPS	24922.42612	-0.638058233	0.131546701	-4.850431272	1.23E-06	1.72E-05
FMNL3	2206.002011	0.51868417	0.10704403	4.845521721	1.26E-06	1.76E-05
CDYL	514.2126264	0.360139076	0.074327238	4.845317642	1.26E-06	1.76E-05
RELT	138.5879927	0.48691092	0.100536074	4.843146334	1.28E-06	1.78E-05
ATF5	1276.497898	0.423732178	0.087657001	4.833979859	1.34E-06	1.86E-05
CTNNAL1	23.11495626	1.190274316	0.24623963	4.833804847	1.34E-06	1.86E-05
HSDL2	476.4107288	-0.376162788	0.077837743	-4.832652848	1.35E-06	1.87E-05
GPBP1	621.9262142	0.277411249	0.057405858	4.832455405	1.35E-06	1.87E-05
TLE1	108.3414764	1.050367097	0.217369453	4.832174366	1.35E-06	1.87E-05
TNFRSF18	14.8843674	2.12661711	0.440118857	4.831915464	1.35E-06	1.87E-05
CASD1	104.053387	-0.819925068	0.169751933	-4.830136862	1.36E-06	1.89E-05
IL36B	82.22126213	0.734190634	0.152021229	4.829527014	1.37E-06	1.89E-05
IFNAR2	671.8249449	-0.333997598	0.069219091	-4.825223687	1.40E-06	1.93E-05
ST8SIA4	36.22661052	-1.298441481	0.269175685	-4.823769585	1.41E-06	1.95E-05
WWC3	158.2001433	-0.447047856	0.092685648	-4.823269451	1.41E-06	1.95E-05
EIF4EBP2	2878.692386	-0.330419487	0.068544318	-4.820523357	1.43E-06	1.97E-05
GNA14	12.70785694	2.351039003	0.487841064	4.819272459	1.44E-06	1.99E-05
NQO1	950.9269467	0.692882719	0.143866464	4.816151713	1.46E-06	2.02E-05
TMEM38B	1014.980893	0.618172179	0.128391286	4.814751819	1.47E-06	2.03E-05
GAB1	137.4439728	-0.439283034	0.091260468	-4.813508442	1.48E-06	2.04E-05
ADAT2	27.71832516	-0.718120283	0.149330365	-4.808936773	1.52E-06	2.08E-05
BAK1	787.9494571	0.599346468	0.124632594	4.808906301	1.52E-06	2.08E-05
SLC7A5	277.070375	0.903110493	0.187831051	4.808100077	1.52E-06	2.09E-05
RTN4RL2	101.2027315	1.270204548	0.264251015	4.806810485	1.53E-06	2.10E-05
FBL	349.0018738	-0.355930224	0.074055952	-4.80623387	1.54E-06	2.11E-05
PLA2G6	99.61162736	-0.756547405	0.157635975	-4.799332155	1.59E-06	2.18E-05
LONP1	1382.660306	0.43409072	0.090491218	4.797048061	1.61E-06	2.20E-05
PARL	322.1712585	-0.364096871	0.075939226	-4.794582359	1.63E-06	2.23E-05
SLC12A9	200.9030091	-0.383545625	0.080078962	-4.789592875	1.67E-06	2.28E-05
EVI2A	1465.685999	-0.49101931	0.102589163	-4.786268819	1.70E-06	2.32E-05
JUP	169.65454	1.107393204	0.2315578	4.782361908	1.73E-06	2.36E-05
CD47	1353.742016	0.406940335	0.085103784	4.78169493	1.74E-06	2.37E-05

ACACB	193.8379155	-0.663656814	0.138818427	-4.780754446	1.75E-06	2.38E-05
MED13	865.4607048	0.296194734	0.061960706	4.780364071	1.75E-06	2.38E-05
LNPEP	176.6898354	0.868337447	0.181900297	4.773700004	1.81E-06	2.46E-05
LAT	157.5986459	0.678649645	0.142242735	4.771067184	1.83E-06	2.49E-05
CARD11	39.12182689	0.915231619	0.191985563	4.76718981	1.87E-06	2.54E-05
TCN2	691.7704443	-0.619766242	0.130078152	-4.764568333	1.89E-06	2.57E-05
PCK2	706.2306951	0.390545637	0.081973335	4.764300954	1.90E-06	2.57E-05
LRP1	7549.262783	-0.696842082	0.146425254	-4.759029339	1.95E-06	2.64E-05
COMMD9	475.8503834	-0.343367085	0.072178057	-4.757222644	1.96E-06	2.66E-05
KIAA0754	135.2399251	-0.611835653	0.128686626	-4.754461832	1.99E-06	2.69E-05
LTA4H	8527.550289	-0.419358767	0.08821408	-4.753875644	2.00E-06	2.70E-05
TRHDE-AS1	19.38416899	-1.107284193	0.23305486	-4.751174015	2.02E-06	2.73E-05
IL28RA	176.9412631	0.66151967	0.139242152	4.750857854	2.03E-06	2.74E-05
NCKAP5L	321.4363598	-0.397832542	0.083754102	-4.750006636	2.03E-06	2.74E-05
PIGF	214.4958702	-0.446103443	0.093915857	-4.750033246	2.03E-06	2.74E-05
TMBIM1	4513.960595	0.311957425	0.065779326	4.742484322	2.11E-06	2.84E-05
PTPN1	951.4231636	0.439555999	0.092746877	4.739307796	2.14E-06	2.89E-05
TAPBPL	714.7008561	0.351700058	0.074216311	4.738851213	2.15E-06	2.89E-05
C17orf49	662.6035687	0.414342312	0.087465312	4.737218698	2.17E-06	2.91E-05
SOCS2	4.768618486	2.46791832	0.521035163	4.736567689	2.17E-06	2.92E-05
ZNF671	59.47165787	-0.532749351	0.112482924	-4.736268685	2.18E-06	2.92E-05
UBXN4	1406.835189	0.238060934	0.050274122	4.735257924	2.19E-06	2.93E-05
ZMAT3	215.6000576	-0.553372222	0.116963668	-4.731146258	2.23E-06	2.99E-05
BNC2	6.281067756	-2.127583797	0.450076822	-4.727156995	2.28E-06	3.05E-05
DHRS1	117.951239	-0.56876703	0.120316511	-4.72725669	2.28E-06	3.05E-05
RPL32	4616.477363	-0.433648162	0.091819124	-4.722852308	2.33E-06	3.11E-05
PSMB7	1282.808191	0.538878009	0.114104572	4.722667995	2.33E-06	3.11E-05
ITGA2	9.129615464	1.953451833	0.413979734	4.718713681	2.37E-06	3.17E-05
RHBDF2	511.7496306	0.741020708	0.15717619	4.714586273	2.42E-06	3.23E-05
MLPH	494.3493027	-0.514462028	0.109185813	-4.711802884	2.46E-06	3.28E-05
TNKS1BP1	43.23447373	0.849810229	0.180384579	4.711102434	2.46E-06	3.28E-05
KIAA0196	492.7452439	-0.266996122	0.056705934	-4.708433567	2.50E-06	3.32E-05
G6PD	5809.005016	0.472617593	0.100382914	4.708147762	2.50E-06	3.33E-05
SDF4	2754.860302	0.312230945	0.066328583	4.707336245	2.51E-06	3.34E-05
DNAJA1	6891.58394	0.350121721	0.074416779	4.704876067	2.54E-06	3.38E-05
RPLP1	6571.005089	-0.275816586	0.058646664	-4.703022603	2.56E-06	3.40E-05
GALNT4	224.1337889	0.378483055	0.080495863	4.701894517	2.58E-06	3.42E-05
DHRS9	457.9453982	1.042399607	0.221814845	4.699413176	2.61E-06	3.46E-05
TMEM194	77.96903127	1.355397473	0.288530268	4.697591985	2.63E-06	3.49E-05
CENPT	3.691860109	1.934700505	0.411979129	4.696112902	2.65E-06	3.51E-05
PCNXL2	75.94463446	0.627022315	0.133588821	4.693673558	2.68E-06	3.55E-05
DHRS3	3117.580419	-0.461153289	0.098269998	-4.692716993	2.70E-06	3.57E-05
SPTSSA	452.0784749	-0.432701608	0.092241945	-4.690941909	2.72E-06	3.59E-05
ZNF480	29.67320442	-0.836143551	0.178257393	-4.690652862	2.72E-06	3.60E-05
OR2A4	106.4277769	0.967084741	0.20626794	4.688487908	2.75E-06	3.63E-05
IFT20	239.360952	-0.309891687	0.066107029	-4.687726751	2.76E-06	3.64E-05
PDGFB	81.82243695	0.766381057	0.163599333	4.684499891	2.81E-06	3.70E-05
SAT2	439.0356642	-0.370230093	0.079036644	-4.684284093	2.81E-06	3.70E-05
FTO	603.9342533	-0.244650109	0.052229703	-4.684118359	2.81E-06	3.70E-05

PVR	527.9437898	0.516233819	0.110230679	4.683213623	2.82E-06	3.71E-05
PEA15	2119.148845	0.451079987	0.096344744	4.68193664	2.84E-06	3.73E-05
CD244	8.103218318	-2.281956754	0.487734109	-4.678690118	2.89E-06	3.79E-05
SERTAD2	253.4122351	0.536218085	0.114651955	4.67692054	2.91E-06	3.82E-05
ACP2	1563.798196	0.598604466	0.128017228	4.675968042	2.93E-06	3.84E-05
CYP27A1	24341.26651	-0.371019218	0.079432731	-4.670860672	3.00E-06	3.93E-05
FAM161B	50.10762361	-0.615599262	0.131807343	-4.67044739	3.01E-06	3.94E-05
LSMD1	404.7895968	-0.530040996	0.113499711	-4.669976623	3.01E-06	3.94E-05
ACAT2	178.0901321	0.52170211	0.111760397	4.668040935	3.04E-06	3.98E-05
ZNF326	80.34964828	0.536945314	0.115051381	4.667004515	3.06E-06	3.99E-05
MCTP1	347.3555612	0.690922657	0.148146501	4.663779777	3.10E-06	4.05E-05
PLS1	24.8812727	0.814709556	0.174707084	4.663288627	3.11E-06	4.06E-05
ID2	337.2204616	-0.501068722	0.107459556	-4.662858676	3.12E-06	4.07E-05
DNAJB9	368.5667661	0.390396722	0.083729899	4.662572471	3.12E-06	4.07E-05
SWI5	48.72559118	-0.502371092	0.107761191	-4.661892549	3.13E-06	4.08E-05
CDC42EP1	673.6576702	0.797311544	0.171239993	4.656105919	3.22E-06	4.19E-05
QSOX1	3035.387802	0.394183048	0.084693575	4.654226104	3.25E-06	4.23E-05
DNAH1	112.2516091	-0.969388787	0.208411661	-4.651317412	3.30E-06	4.28E-05
GRIPAP1	338.5203127	0.398655141	0.085707059	4.651368824	3.30E-06	4.28E-05
JUND	1275.968444	0.464478894	0.099904929	4.649209011	3.33E-06	4.32E-05
PCCA	510.3636565	-0.414574167	0.089201441	-4.647617384	3.36E-06	4.35E-05
LMTK2	144.6323478	0.590693211	0.127111659	4.647041934	3.37E-06	4.36E-05
SATB1	81.95566291	-0.909628054	0.195914881	-4.642975811	3.43E-06	4.45E-05
FAS	175.7647411	0.69593594	0.149897376	4.642749307	3.44E-06	4.45E-05
UNC119	257.2355274	-0.308312413	0.066433136	-4.64094321	3.47E-06	4.48E-05
PALD1	7.110565571	-2.069874232	0.446081227	-4.640128538	3.48E-06	4.50E-05
CBX7	66.36558001	-0.964880031	0.208003357	-4.63877143	3.50E-06	4.53E-05
ARMC2	11.926194	-0.963772783	0.207776586	-4.638505246	3.51E-06	4.53E-05
TFAP4	52.68975464	-0.831986951	0.179389858	-4.637870602	3.52E-06	4.54E-05
GUCY1B3	12.50143858	2.253245986	0.485852749	4.637713777	3.52E-06	4.54E-05
EEF1G	7651.158325	-0.349675433	0.075421418	-4.636288239	3.55E-06	4.57E-05
PILRA	2429.928353	0.419230503	0.090441898	4.635357186	3.56E-06	4.59E-05
CLEC7A	227.2161288	-0.39396875	0.085011869	-4.634279365	3.58E-06	4.61E-05
HLX	193.4224904	0.475122465	0.102526147	4.634158992	3.58E-06	4.61E-05
AGTPBP1	148.9822232	-0.49864667	0.107611934	-4.633748801	3.59E-06	4.61E-05
ACN9	93.33904608	-0.416503703	0.089921749	-4.631846126	3.62E-06	4.65E-05
RAPGEF2	145.2498641	0.608306393	0.131338525	4.631591468	3.63E-06	4.65E-05
TIRAP	43.69314438	0.591181141	0.127684568	4.630012454	3.66E-06	4.69E-05
SCN1B	29.27962804	1.818998827	0.393350287	4.624373965	3.76E-06	4.81E-05
MMD	651.8312036	-0.548972615	0.118880415	-4.61785581	3.88E-06	4.96E-05
LILRA1	21.33630586	-1.367166529	0.296124989	-4.616856325	3.90E-06	4.98E-05
C6orf228	151.3590977	0.402428727	0.08724668	4.612539134	3.98E-06	5.08E-05
SLC31A2	93.89329248	0.419504436	0.090960453	4.611943125	3.99E-06	5.09E-05
FAM135A	141.6503818	-0.42366962	0.091871214	-4.611560055	4.00E-06	5.10E-05
OTUD1	541.5400358	0.616427257	0.133678828	4.611255682	4.00E-06	5.10E-05
RCOR1	530.1543396	-0.312187368	0.067746232	-4.608187942	4.06E-06	5.18E-05
GLS	2416.167976	0.364919937	0.079230147	4.605821768	4.11E-06	5.23E-05
CD300A	721.1459133	-0.599578418	0.130240926	-4.603609893	4.15E-06	5.28E-05
CD83	4697.583219	0.525923364	0.114243747	4.6035199	4.15E-06	5.28E-05

PDPN	13.12130084	1.277981636	0.277599519	4.603688226	4.15E-06	5.28E-05
DPY19L1	510.4446697	-0.358422482	0.077875112	-4.602529284	4.17E-06	5.30E-05
CTSL1	17609.60167	0.34537967	0.075061202	4.601307459	4.20E-06	5.33E-05
TMED5	2532.765092	0.315470671	0.068592062	4.599229996	4.24E-06	5.38E-05
ANAPC1	215.5148764	-0.327419952	0.071202	-4.59846564	4.26E-06	5.39E-05
CEACAM21	124.1224446	-0.616685386	0.134104403	-4.598546912	4.25E-06	5.39E-05
SHKBP1	1237.59177	0.297725538	0.064752927	4.597869958	4.27E-06	5.40E-05
NDRG4	10.0044457	1.479753758	0.321859375	4.597516403	4.28E-06	5.41E-05
ADPRHL2	191.5154113	0.447522001	0.097367153	4.596231757	4.30E-06	5.44E-05
DYX1C1	114.2627162	-0.788918908	0.171751733	-4.593367971	4.36E-06	5.51E-05
PLCD1	183.2375469	0.586238179	0.12767327	4.591706475	4.40E-06	5.55E-05
DAGLB	144.6888857	-0.45337055	0.098759781	-4.590639498	4.42E-06	5.57E-05
LGMN	4892.703659	-0.537609571	0.117138278	-4.58952939	4.44E-06	5.60E-05
TBK1	781.3245463	0.49369818	0.107640642	4.586540666	4.51E-06	5.68E-05
HMBOX1	167.4596508	-0.423373489	0.092321199	-4.585875119	4.52E-06	5.69E-05
SHMT1	77.46120703	-0.672612999	0.146677067	-4.585672539	4.53E-06	5.69E-05
ASPHD1	43.86706971	0.764178559	0.166675446	4.584829839	4.54E-06	5.71E-05
C5orf15	851.7754586	0.480017936	0.10469954	4.584718694	4.55E-06	5.71E-05
NCF4	1399.722749	-0.59998719	0.130981094	-4.580715965	4.63E-06	5.82E-05
TNIP2	372.3447838	0.607096486	0.13256555	4.579594685	4.66E-06	5.85E-05
INO80D	253.6027826	0.45311201	0.098980013	4.577813204	4.70E-06	5.89E-05
RNF19B	862.4051581	1.092274568	0.238644736	4.576989992	4.72E-06	5.91E-05
TSFM	222.6273426	0.525314316	0.114821501	4.575051799	4.76E-06	5.96E-05
POC1B	168.8725805	0.424489037	0.092814925	4.573499749	4.80E-06	6.00E-05
ADRM1	1577.180817	0.442901773	0.096868838	4.572180098	4.83E-06	6.03E-05
CKAP2	51.06617808	-0.734570965	0.160660004	-4.57220807	4.83E-06	6.03E-05
ENPP5	19.82031784	-1.461718484	0.319709923	-4.572014756	4.83E-06	6.03E-05
HAGHL	116.7250126	-0.342633992	0.074975362	-4.569954479	4.88E-06	6.09E-05
CNST	120.3801834	-0.28345184	0.062044572	-4.568519522	4.91E-06	6.13E-05
SLC16A6	472.0147792	0.723210701	0.158322697	4.567953383	4.93E-06	6.14E-05
MS4A4A	3457.851855	-0.383331221	0.083943238	-4.566552695	4.96E-06	6.18E-05
PPHLN1	112.5738526	-0.352420493	0.077227805	-4.56338872	5.03E-06	6.27E-05
SP140	45.26530284	0.940463248	0.206217077	4.560549784	5.10E-06	6.35E-05
CHURC1	11.58337343	1.053068119	0.23091868	4.560341838	5.11E-06	6.35E-05
C17orf89	87.48225223	-0.589260757	0.12922698	-4.559889553	5.12E-06	6.36E-05
RIN2	546.8484787	0.570080676	0.125038142	4.559254227	5.13E-06	6.37E-05
BTN2A2	296.4211096	0.257730943	0.056540962	4.55830489	5.16E-06	6.38E-05
CRYZ	276.1465336	-0.46305174	0.10158116	-4.558441148	5.15E-06	6.38E-05
IGSF6	2503.782937	0.553665756	0.121459701	4.558431752	5.15E-06	6.38E-05
PCMTD2	221.1388279	-0.416570293	0.09137911	-4.558703784	5.15E-06	6.38E-05
P2RY11	43.72333518	-0.994917013	0.218323529	-4.557076463	5.19E-06	6.42E-05
CRISPLD2	30.79144744	2.32931069	0.511348998	4.555226858	5.23E-06	6.47E-05
RILPL2	601.1748572	0.420273687	0.092273843	4.554635136	5.25E-06	6.48E-05
SLC25A6	2228.512262	-0.297928733	0.065416661	-4.554324997	5.26E-06	6.49E-05
AICDA	27.16045542	-1.150947529	0.252822423	-4.552394975	5.30E-06	6.55E-05
TCTEX1D4	68.89675351	1.16723285	0.256520296	4.550255353	5.36E-06	6.61E-05
MANSC4	10.20399329	-2.652593698	0.583202525	-4.548323409	5.41E-06	6.66E-05
RPSAP58	24.93514599	-0.745905536	0.164138405	-4.544369339	5.51E-06	6.79E-05
HIATL1	2148.754979	0.280144897	0.061670793	4.542586299	5.56E-06	6.84E-05

CYB5R1	1052.676224	-0.259830266	0.057261474	-4.537610474	5.69E-06	7.00E-05
CSF2RA	610.5701357	0.44989022	0.099157521	4.537126524	5.70E-06	7.01E-05
INPP4A	354.9103085	-0.34859563	0.076881301	-4.53420564	5.78E-06	7.10E-05
ZBED3	25.27325387	-0.888893456	0.196089973	-4.533089804	5.81E-06	7.14E-05
SEMA4A	768.3067274	0.817476418	0.180348362	4.532763199	5.82E-06	7.14E-05
RAC2	7787.713528	0.668628906	0.147559272	4.531256479	5.86E-06	7.19E-05
TPM4	6347.77636	0.533324411	0.117703788	4.531072622	5.87E-06	7.19E-05
ACPL2	15.1168817	1.171115073	0.258474215	4.530877766	5.87E-06	7.19E-05
LPCAT2	1473.661586	-0.357349571	0.078917045	-4.528167136	5.95E-06	7.28E-05
ANKRD5	7.463124656	-1.59316284	0.352011273	-4.525885856	6.01E-06	7.35E-05
AKAP5	47.37777989	1.156687701	0.255631563	4.524823493	6.04E-06	7.39E-05
SLC40A1	5.872546046	-1.890119048	0.417808947	-4.523883607	6.07E-06	7.41E-05
DPYSL3	188.2277389	0.762531709	0.168658748	4.521151257	6.15E-06	7.51E-05
TIMP3	478.5821816	-0.680568934	0.150535779	-4.52097794	6.16E-06	7.51E-05
NFKBIB	659.8030315	0.449841069	0.099529455	4.519677808	6.19E-06	7.55E-05
TRIP4	379.5869735	0.360531117	0.079781357	4.518989509	6.21E-06	7.57E-05
OGDH	1776.975955	0.437588889	0.096860474	4.517724024	6.25E-06	7.61E-05
ARHGEF2	1036.720614	0.328399502	0.07273505	4.515010333	6.33E-06	7.70E-05
CD1D	12.18541146	-1.639743515	0.363204029	-4.514662237	6.34E-06	7.71E-05
TMEM217	5.497673022	2.224236183	0.493289815	4.508984611	6.51E-06	7.91E-05
CHI3L2	18.51869959	1.357776118	0.301301865	4.506364802	6.59E-06	8.01E-05
KCNQ1	255.4976857	-0.904247982	0.200681203	-4.505892779	6.61E-06	8.02E-05
MDFIC	1338.214492	-0.29471989	0.065426584	-4.504589283	6.65E-06	8.06E-05
POLR2J	511.7692941	-0.275115822	0.061153124	-4.498802446	6.83E-06	8.28E-05
HIVEP2	68.39776808	0.529282246	0.117662785	4.498297805	6.85E-06	8.29E-05
MRC1	5904.185002	0.628668177	0.139781673	4.497500726	6.88E-06	8.32E-05
DGKH	191.7525156	0.450251283	0.100202272	4.4934239	7.01E-06	8.48E-05
TXNRD1	5.295821806	1.803490191	0.401442818	4.492520758	7.04E-06	8.50E-05
YPEL3	297.0092714	-0.492982369	0.109732789	-4.492571228	7.04E-06	8.50E-05
TIGIT	7.810376338	1.654427984	0.368284749	4.492252228	7.05E-06	8.51E-05
AKAP12	13.67761417	1.388981475	0.309308915	4.490596323	7.10E-06	8.57E-05
GYPC	1358.511294	0.427832398	0.095309375	4.488880555	7.16E-06	8.63E-05
FUNDC2	207.2393871	0.389336722	0.086753623	4.487843935	7.19E-06	8.67E-05
ARRB1	712.3795833	-0.42569621	0.094867641	-4.487264622	7.21E-06	8.68E-05
SYNDIG1	9.234223299	-3.37127089	0.751613194	-4.485380136	7.28E-06	8.76E-05
MPV17L	105.5361393	-0.784145724	0.174865137	-4.484288515	7.32E-06	8.79E-05
RBP4	3117.792944	-0.527752836	0.117893904	-4.476506561	7.59E-06	9.11E-05
TACC3	152.1999433	-0.380468817	0.08499245	-4.476501329	7.59E-06	9.11E-05
ACBD6	133.1054197	-0.527442565	0.117893314	-4.473897183	7.68E-06	9.22E-05
MYO1B	11.15821587	1.313846837	0.293688251	4.473610474	7.69E-06	9.22E-05
MOB3B	233.8614117	0.741402465	0.165744611	4.473161812	7.71E-06	9.24E-05
CTSA	8392.921502	-0.412761385	0.092288027	-4.472534527	7.73E-06	9.26E-05
LMNB1	60.68315101	0.903408817	0.202019093	4.471898185	7.75E-06	9.27E-05
SRC	693.7387687	0.355513329	0.079498883	4.471928594	7.75E-06	9.27E-05
CCL13	4.008231947	1.840013505	0.411593583	4.470462081	7.81E-06	9.33E-05
ZC3HAV1	1144.88529	0.483462574	0.108155356	4.47007519	7.82E-06	9.34E-05
ADCY3	1720.538147	-0.339950043	0.076061807	-4.469392145	7.84E-06	9.36E-05
INPP5K	655.8156327	0.243365876	0.054450404	4.46949621	7.84E-06	9.36E-05
ENO1	13911.8223	0.192223729	0.043040434	4.466119667	7.97E-06	9.50E-05

FHIT	87.13099302	-0.599475689	0.134266177	-4.464830237	8.01E-06	9.55E-05
KIAA1586	86.65252505	-0.565253461	0.126867177	-4.455474419	8.37E-06	9.97E-05
FTSJ2	330.0796178	-0.377466821	0.084726929	-4.455098578	8.39E-06	9.98E-05
PSD3	25.6385483	1.081001441	0.242777207	4.452647993	8.48E-06	0.000100861
SEMA7A	363.7254834	0.610563937	0.137261534	4.44817947	8.66E-06	0.000102916
MYLIP	10.78130016	-1.119485697	0.251734865	-4.447082437	8.70E-06	0.000103377
KLF5	35.30714229	0.786880894	0.176964138	4.446555688	8.73E-06	0.000103565
LGALS2	94.6085907	1.087683759	0.244680639	4.445320094	8.78E-06	0.000104095
LOC28299	61.80573052	-0.658826783	0.148272372	-4.443354978	8.86E-06	0.000104984
JPH4	11.31263684	-1.541713496	0.34709384	-4.44177717	8.92E-06	0.00010569
NDUFB3	50.68753101	0.825565521	0.185953533	4.439633416	9.01E-06	0.000106681
SLC35E2B	237.7140893	-0.294487348	0.066362838	-4.437533972	9.10E-06	0.000107658
TIFAB	42.1498536	-1.016747432	0.229215614	-4.435768631	9.17E-06	0.000108475
RNF24	61.41467527	0.56512772	0.127409761	4.435513536	9.19E-06	0.000108535
FN3K	69.13938541	-0.630503356	0.142156198	-4.435285742	9.20E-06	0.000108581
BRCA2	53.38722163	0.683210236	0.154064825	4.434563416	9.23E-06	0.000108876
IL10	63.77972544	-0.981555913	0.221530188	-4.430799803	9.39E-06	0.000110724
PGAM1	3517.713381	0.250872349	0.056628266	4.430161235	9.42E-06	0.000110982
SMIM3	196.7669469	0.676717587	0.15279124	4.429033939	9.47E-06	0.000111493
FLJ45340	568.8630695	0.308874468	0.069757937	4.427803951	9.52E-06	0.00011206
FOLR3	94.51674392	-1.02299549	0.231192433	-4.424865798	9.65E-06	0.000113524
FXN	134.0324802	-0.362020927	0.081818288	-4.424694476	9.66E-06	0.000113543
RPL10	5779.547635	-0.419668465	0.094866721	-4.423769068	9.70E-06	0.000113958
DBNDD2	1346.826637	-0.285107611	0.064479221	-4.421697503	9.79E-06	0.000114984
TOMM20	1183.679735	-0.272995267	0.061748864	-4.421057321	9.82E-06	0.000115253
RRP1	368.3618837	0.298452356	0.067521776	4.420090427	9.87E-06	0.000115697
P2RX7	1692.801522	0.470048225	0.106448784	4.415721901	1.01E-05	0.000117984
CRELD1	246.50306	0.348575885	0.078942387	4.41557318	1.01E-05	0.000117991
MYEOV2	1332.410854	-0.268721164	0.060859518	-4.41543365	1.01E-05	0.000117993
ITGA1	36.54512628	0.764187745	0.173091919	4.414924463	1.01E-05	0.000118197
ARHGEF6	93.57271803	-0.565885068	0.128181383	-4.414721181	1.01E-05	0.000118234
PRSS21	293.7092083	-0.404005866	0.091528353	-4.413996887	1.01E-05	0.000118556
TMEM192	386.6658503	-0.447385504	0.101360508	-4.413804859	1.02E-05	0.000118587
HADHA	2949.273527	-0.203539394	0.046134022	-4.411915186	1.02E-05	0.000119552
MAF	89.49689612	-0.406047347	0.09204223	-4.411533127	1.03E-05	0.000119688
ADAMTS6	36.25606369	-0.652415717	0.147915432	-4.410734634	1.03E-05	0.00011998
TGIF2	102.2311093	0.599938936	0.136015903	4.410799919	1.03E-05	0.00011998
NREP	25.85517768	-0.77927666	0.176695804	-4.410272597	1.03E-05	0.000120161
DNAJC1	462.5229212	0.40027361	0.090806655	4.407976611	1.04E-05	0.000121366
NDUFS3	2025.080402	0.237043167	0.053783241	4.407379749	1.05E-05	0.000121625
STX4	2858.68785	0.400671561	0.09093608	4.406079085	1.05E-05	0.000122281
SGSM2	357.3236155	-0.392784296	0.089205504	-4.403139691	1.07E-05	0.000123873
TNK2	625.2017723	0.468483087	0.106405605	4.402804606	1.07E-05	0.000123987
TARBP1	100.3807476	-0.52379139	0.118978223	-4.402413952	1.07E-05	0.000124134
CD72	124.3837117	-0.743764268	0.168966112	-4.401854661	1.07E-05	0.000124377
IL6ST	432.049589	0.388806889	0.088340363	4.40123715	1.08E-05	0.000124654
ZFYVE26	3847.074477	-0.213888569	0.048610376	-4.400059944	1.08E-05	0.000125254
ICOS	53.10444988	0.867542944	0.197200764	4.399287956	1.09E-05	0.000125622
NELF	192.8924863	-0.464749058	0.105724495	-4.39585037	1.10E-05	0.000127548

TDRKH	46.1134518	-0.628803513	0.143051969	-4.395629896	1.10E-05	0.000127598
SLC29A1	744.2242263	-0.344137926	0.078321079	-4.393937489	1.11E-05	0.000128437
SLFN13	5.755124169	1.742129808	0.396477466	4.394019727	1.11E-05	0.000128437
TDG	420.7836308	0.301262065	0.06856838	4.393600451	1.11E-05	0.000128557
SGK110	10.9827916	1.595884004	0.3632528	4.393315085	1.12E-05	0.000128646
THOC5	433.9234437	0.343226947	0.078145908	4.392129507	1.12E-05	0.00012927
CHST14	70.67513567	-0.786520541	0.179206433	-4.388907957	1.14E-05	0.000131038
RNF130	10068.0002	-0.276311976	0.062955972	-4.388971625	1.14E-05	0.000131038
SIGLEC9	909.9581326	-0.360745485	0.082212613	-4.3879579	1.14E-05	0.00013153
PTTG1	18.53068954	0.874528649	0.199330536	4.387329033	1.15E-05	0.000131829
PSMB2	6363.209153	0.503451517	0.11475997	4.386995894	1.15E-05	0.00013195
ZC3HAV1L	10.47094612	-0.953182445	0.217309484	-4.386290139	1.15E-05	0.000132297
PHLDB1	15.49927025	1.690808529	0.385670777	4.384072199	1.16E-05	0.00013357
LOC28314	13.95452297	-1.146376756	0.261573152	-4.382623935	1.17E-05	0.000134378
GPR56	13.02908584	1.839843945	0.419833769	4.382315291	1.17E-05	0.000134486
CCDC94	207.268796	0.412578083	0.094168219	4.381287944	1.18E-05	0.000135039
PSRC1	3.835092832	-2.004797205	0.457693559	-4.380217209	1.19E-05	0.000135621
PIP4K2A	579.3965022	-0.301031468	0.068756795	-4.378206799	1.20E-05	0.000136794
FAM222B	418.6726357	-0.306857668	0.070175047	-4.372746158	1.23E-05	0.000140176
RFFL	785.2813794	0.39011667	0.089287235	4.369232275	1.25E-05	0.000142363
NCOA7	308.3642932	-0.478106382	0.109470268	-4.367454187	1.26E-05	0.000143439
BAZ2A	741.4518493	0.37206124	0.085201932	4.366816956	1.26E-05	0.00014377
LOC10012	15.92667503	-0.776313641	0.177805327	-4.36608765	1.26E-05	0.000144162
PTPRE	1662.645669	0.391643454	0.089721662	4.365093616	1.27E-05	0.000144721
ZFYVE21	182.3565697	-0.289279685	0.06627294	-4.36497436	1.27E-05	0.000144721
TMSB4X	51521.7555	-0.378717205	0.086832022	-4.361492435	1.29E-05	0.000146954
SEMA6B	2451.014442	-0.445660358	0.102240702	-4.358932872	1.31E-05	0.000148592
ALDH1A2	336.4386181	0.832855925	0.191162355	4.356798826	1.32E-05	0.000149865
AP1S2	713.8187611	-0.503370253	0.115535696	-4.356837519	1.32E-05	0.000149865
UBP1	514.6493301	0.380445701	0.087390206	4.353413503	1.34E-05	0.000152107
USO1	440.868944	0.336184174	0.077242942	4.352296363	1.35E-05	0.000152791
SHROOM3	293.8139205	1.206688676	0.277390424	4.350145391	1.36E-05	0.000154203
RPL13AP2	986.1570411	-0.564953468	0.129945812	-4.347608135	1.38E-05	0.000155903
POLR2G	471.259236	-0.215149036	0.049498746	-4.346555308	1.38E-05	0.000156473
TCF4	11.13650351	-1.050779923	0.241750849	-4.346540783	1.38E-05	0.000156473
RPL27	5800.363754	-0.334800854	0.077070959	-4.344059808	1.40E-05	0.000158155
TMEM223	138.0503995	-0.565353156	0.130150431	-4.343843907	1.40E-05	0.000158215
MCOLN1	2116.78703	-0.327057318	0.075313849	-4.342592	1.41E-05	0.000158927
ZCCHC11	202.5962085	-0.444162816	0.102278911	-4.342662742	1.41E-05	0.000158927
CD36	2253.016945	-0.817862229	0.188342319	-4.342424131	1.41E-05	0.000158952
ATP6V1A	1848.408576	0.320347313	0.073782924	4.341754106	1.41E-05	0.000159341
FAM159A	5.368678563	-2.291228865	0.527845296	-4.34072044	1.42E-05	0.000159996
KRR1	391.596641	0.346586475	0.079904865	4.337489002	1.44E-05	0.000162072
LOC14688	247.5815942	-0.443102497	0.102151171	-4.337713324	1.44E-05	0.000162072
TMEM173	93.8523385	1.022000885	0.235613481	4.337616346	1.44E-05	0.000162072
RASSF5	732.2720149	0.270294723	0.062348271	4.335240085	1.46E-05	0.000163639
ARID3B	151.0126963	0.503264506	0.116124201	4.333846894	1.47E-05	0.000164579
TMEM220	126.7211771	-0.405234171	0.093520488	-4.333105848	1.47E-05	0.000165035
ADRB2	24.05894857	-1.119353595	0.258355851	-4.332604001	1.47E-05	0.000165312

PARP3	249.3573938	0.345165574	0.079718978	4.329779198	1.49E-05	0.000167346
CCDC112	78.8568645	-0.638747112	0.147639024	-4.326411091	1.52E-05	0.000169747
HSD17B4	4232.775895	-0.280622043	0.064863077	-4.326375777	1.52E-05	0.000169747
SWAP70	1352.985912	-0.420339866	0.097321682	-4.319077272	1.57E-05	0.000175353
TEAD4	3.662726822	1.983495761	0.459274541	4.318758359	1.57E-05	0.000175501
YAP1	7.512175436	1.484066961	0.343763432	4.317117008	1.58E-05	0.000176705
AKAP11	354.7832807	-0.446480685	0.103498994	-4.31386496	1.60E-05	0.000179218
GGA3	512.6548972	-0.307710831	0.071339591	-4.313324839	1.61E-05	0.000179549
KIAA1958	62.85234356	0.557813026	0.129340223	4.31275758	1.61E-05	0.000179814
PHKA2	147.5490788	-0.470425067	0.109078152	-4.312734097	1.61E-05	0.000179814
RNF146	227.009101	-0.332788235	0.077170562	-4.312372858	1.62E-05	0.000180001
UBE3D	47.52379897	-0.541718706	0.125768387	-4.307272433	1.65E-05	0.00018409
CEACAM3	12.78926738	-1.213450349	0.281741934	-4.306956843	1.66E-05	0.000184243
SNHG5	516.0267324	-0.45270024	0.105214836	-4.302627427	1.69E-05	0.000187769
SPOCD1	1322.377528	0.570686296	0.132641109	4.302484366	1.69E-05	0.000187778
KBTBD8	77.24816529	0.52756474	0.122671862	4.300617358	1.70E-05	0.000189254
DBP	57.25152809	-1.038771757	0.241563573	-4.300200329	1.71E-05	0.000189498
ARL5B	243.3733424	0.4760646	0.110829174	4.295480893	1.74E-05	0.000193229
STAP1	21.63068946	1.813609251	0.422194189	4.295675546	1.74E-05	0.000193229
SUMF1	519.2014573	-0.293426875	0.068309415	-4.295555348	1.74E-05	0.000193229
SCARB1	1715.826207	-0.600955892	0.139939449	-4.294399436	1.75E-05	0.000194058
CTNBL1	796.8023641	0.525362231	0.122356556	4.29369908	1.76E-05	0.000194556
DCAF11	699.106913	0.261940052	0.061019496	4.292727247	1.76E-05	0.000195294
ACOX3	163.7570344	0.374336959	0.087252341	4.290279833	1.78E-05	0.000197341
CA11	76.43763705	0.521893683	0.121660922	4.289739679	1.79E-05	0.000197609
DCP1A	654.5176034	0.359943631	0.083908504	4.289715729	1.79E-05	0.000197609
METTL21A	139.4893383	-0.467383963	0.108959258	-4.289529612	1.79E-05	0.000197657
IGBP1	567.7609004	-0.422799236	0.098583013	-4.288763565	1.80E-05	0.000198223
ORAI3	48.3800975	-0.544625388	0.127000928	-4.288357557	1.80E-05	0.000198452
SIK3	653.710079	0.602403213	0.140477822	4.288244257	1.80E-05	0.000198452
GSTO1	660.3734022	0.302427091	0.070530487	4.287891701	1.80E-05	0.000198649
TBC1D4	87.33489079	-0.887986472	0.207117902	-4.287347764	1.81E-05	0.000199018
MFSD12	184.7061733	0.697907455	0.162788593	4.287201224	1.81E-05	0.000199032
CTPS2	165.059182	-0.484943118	0.113148379	-4.28590424	1.82E-05	0.000200079
EFTUD1	561.2344719	0.639431988	0.149205649	4.28557494	1.82E-05	0.000200257
PPP2R4	1303.638213	0.459010899	0.107132291	4.284524252	1.83E-05	0.000201088
LAMB2	197.0922907	-0.386806545	0.090291617	-4.283969653	1.84E-05	0.000201471
PIAS2	550.1334326	-0.5164021	0.120593477	-4.28217273	1.85E-05	0.000202986
TTBK2	96.63836081	-0.45634357	0.106606372	-4.280640668	1.86E-05	0.000204268
CD82	1548.983977	0.713130921	0.166617251	4.280054546	1.87E-05	0.000204686
SPTLC3	10.71311239	-2.208348521	0.516027208	-4.279519543	1.87E-05	0.000205059
STXBP5-AS	24.70655765	1.298547523	0.303571303	4.277570074	1.89E-05	0.000206741
ASTE1	89.85437911	-0.616672615	0.144302038	-4.273485138	1.92E-05	0.000210443
CDKN2A	17.27412097	1.431006437	0.334878326	4.273213067	1.93E-05	0.000210576
SLC37A3	16.35747096	0.824019275	0.192907383	4.271579777	1.94E-05	0.000212001
PIK3CB	1751.016361	0.324190812	0.075908848	4.270790818	1.95E-05	0.000212627
GPR155	52.69999724	-0.762466389	0.178564797	-4.269970347	1.95E-05	0.000213286
C12orf57	270.7179587	0.381344596	0.08931684	4.26957109	1.96E-05	0.000213543
PET117	117.0606464	-0.31399235	0.073552355	-4.268963901	1.96E-05	0.000214

ZNF514	120.0832404	-0.528785492	0.1238879	-4.268257753	1.97E-05	0.000214553
IL2RB	64.21636887	1.128486349	0.264463533	4.267077336	1.98E-05	0.000215565
AOC2	16.20907959	0.826581992	0.193720548	4.266878238	1.98E-05	0.000215631
ARHGAP35	479.1554114	-0.361122629	0.084644632	-4.266338214	1.99E-05	0.000216028
ZNF280D	107.0535983	-0.584318799	0.13702763	-4.264240707	2.01E-05	0.00021794
MICAL1	2235.03912	-0.412953383	0.096891419	-4.262022259	2.03E-05	0.000219987
AAMP	552.8004558	0.442570666	0.103930212	4.258344669	2.06E-05	0.000223506
SLC1A3	1703.103549	0.487320052	0.114446401	4.258063562	2.06E-05	0.000223657
GPR132	25.46701289	1.176572192	0.276342629	4.257657224	2.07E-05	0.000223934
CCNK	1193.699206	0.370422845	0.087013907	4.257053355	2.07E-05	0.000224409
KIDINS220	1137.012704	-0.242411368	0.056948542	-4.256673842	2.07E-05	0.000224659
SAV1	524.1159948	0.451328193	0.106055707	4.255576674	2.09E-05	0.000225633
RHOC	2697.74864	0.571562287	0.13432885	4.254948111	2.09E-05	0.000226136
LINC00622	114.1466068	0.781442877	0.183733284	4.253137259	2.11E-05	0.000227841
LRG1	16.91715093	-1.054083343	0.24793491	-4.251451894	2.12E-05	0.00022943
TAPBP	64.36823896	0.723193009	0.170113589	4.251235981	2.13E-05	0.000229518
PBLD	19.25407473	-0.793917858	0.186770646	-4.250763572	2.13E-05	0.000229869
FAM117B	21.4925727	-0.965914165	0.227247704	-4.250490316	2.13E-05	0.000230017
SLC26A11	513.9008153	-0.374278569	0.088066137	-4.249971478	2.14E-05	0.000230417
SIGIRR	67.47477397	-0.585369441	0.137751672	-4.249454342	2.14E-05	0.000230816
ASCL1	3.327215829	2.947371257	0.693812259	4.248081841	2.16E-05	0.000232012
ZDHHC2	401.2945055	-0.605318042	0.142493565	-4.248037758	2.16E-05	0.000232012
C10orf11	402.7484521	-0.42213489	0.099394372	-4.247070329	2.17E-05	0.000232881
BTN2A1	479.5220499	0.388916486	0.091602528	4.245696015	2.18E-05	0.000234043
DUSP6	964.9277916	0.279273809	0.065777059	4.245763073	2.18E-05	0.000234043
NECAB3	100.6457381	-0.464354549	0.109457827	-4.242314697	2.21E-05	0.000237461
PARVG	2834.742606	-0.363501303	0.085713569	-4.240883974	2.23E-05	0.000238769
PPP2R3A	193.2665595	0.454125724	0.107084304	4.240824352	2.23E-05	0.000238769
LGALS3BP	5228.175511	0.52604895	0.124079421	4.239614782	2.24E-05	0.000239921
NKD1	4.682873345	1.800363359	0.424689515	4.239246072	2.24E-05	0.000240177
TRIM35	55.34454568	0.83817663	0.19784567	4.236517442	2.27E-05	0.000242973
LGALS1	4141.906386	-0.235101992	0.055526527	-4.234048198	2.30E-05	0.000245517
TUBB6	1097.285469	0.369095167	0.087179314	4.233747069	2.30E-05	0.000245705
CASP6	229.2677003	-0.320847372	0.075901179	-4.227172423	2.37E-05	0.000252703
YRDC	146.6389533	0.426145431	0.100809086	4.2272522	2.37E-05	0.000252703
MAP3K1	869.4447403	-0.598891482	0.141718238	-4.225930915	2.38E-05	0.000253955
TRIM33	215.1145674	0.438624156	0.103797419	4.225771322	2.38E-05	0.00025399
SIPA1L1	222.4707284	0.754079404	0.178469949	4.225245822	2.39E-05	0.000254437
CXorf23	19.08404943	-0.72280384	0.171115136	-4.224078925	2.40E-05	0.000255613
ACER3	622.3874407	-0.375826779	0.088997161	-4.222907517	2.41E-05	0.000256799
SLC41A2	287.3986765	0.801775815	0.190035525	4.219083863	2.45E-05	0.000261043
CYSLTR1	68.93288786	-1.120263535	0.265782033	-4.214970901	2.50E-05	0.000265694
DNMBP	65.21111842	-0.571106882	0.135505151	-4.214650704	2.50E-05	0.00026592
MAVS	215.5549082	-0.355562448	0.084391742	-4.213237456	2.52E-05	0.000267437
FCHO2	2209.341358	-0.295370656	0.070112472	-4.21281188	2.52E-05	0.000267789
FAM71A	15.7155289	1.300124951	0.308687214	4.211787507	2.53E-05	0.000268854
SNHG7	44.11965656	-0.860576589	0.204476052	-4.208691339	2.57E-05	0.000272408
FBXL3	510.3288443	0.261828076	0.062253842	4.205813917	2.60E-05	0.000275741
SHISA5	1830.151623	0.454154549	0.108011919	4.204670672	2.61E-05	0.000276981

BCAS2	987.1931204	0.412983905	0.098279076	4.202154936	2.64E-05	0.00027976
ZNF366	206.5924484	0.645350614	0.153572749	4.202246927	2.64E-05	0.00027976
UBE2L3	3674.066225	0.236293715	0.056236028	4.201820884	2.65E-05	0.000280014
SLC25A22	103.9689726	0.660096385	0.157124007	4.201117311	2.66E-05	0.000280726
CCNG1	351.156982	-0.552849142	0.131674588	-4.198601645	2.69E-05	0.000283702
PLAU	786.54289	0.395195417	0.094142806	4.197829171	2.69E-05	0.00028451
SNTB2	333.1777294	0.459029975	0.109368847	4.197081588	2.70E-05	0.000285289
LRP12	106.4241221	1.015277004	0.24202486	4.194928592	2.73E-05	0.000287849
GDPD1	15.21898839	-0.932472543	0.222540408	-4.190126876	2.79E-05	0.000293842
CRABP2	3289.089184	0.77088229	0.184010216	4.189345052	2.80E-05	0.00029469
KBTBD7	62.62990567	-0.692670572	0.165377979	-4.188408738	2.81E-05	0.000295707
REPS2	15.61193175	-1.393410494	0.332690684	-4.188306314	2.81E-05	0.000295707
ADAM19	19.89238889	1.351811777	0.322799157	4.187779763	2.82E-05	0.000296227
RPS3A	3105.515173	-0.621928158	0.148515372	-4.187634916	2.82E-05	0.000296249
BRD3	367.867701	-0.334434559	0.079886162	-4.186389101	2.83E-05	0.000297711
PSMB6	1063.436711	0.395347884	0.094496183	4.183744499	2.87E-05	0.000301027
PIK3CD	307.5815586	-0.477027887	0.114031926	-4.183283618	2.87E-05	0.000301468
CEPT1	483.8240865	-0.502273868	0.120075452	-4.182985451	2.88E-05	0.000301694
CCND2	211.7791507	0.513945806	0.122882267	4.182424513	2.88E-05	0.00030227
RHOU	427.0814765	0.531534828	0.127095191	4.182178923	2.89E-05	0.000302427
FAM110A	117.8940203	-0.380844088	0.091090402	-4.180946391	2.90E-05	0.0003039
SPRED1	423.853983	0.39489424	0.094458687	4.180602663	2.91E-05	0.000304189
IPO5	446.5408064	-0.392392358	0.093881911	-4.179637541	2.92E-05	0.000305311
SQLE	35.34721803	0.992805776	0.237564727	4.1790959	2.93E-05	0.000305868
DYRK1B	70.34146324	-0.568840984	0.136127228	-4.178745066	2.93E-05	0.000306168
PCSK7	552.8223026	-0.189859297	0.045452531	-4.177089653	2.95E-05	0.000308231
TTF2	153.6933709	-0.307507468	0.073642014	-4.175706944	2.97E-05	0.000309936
FOXRED2	50.1321919	-0.793467123	0.19006461	-4.174723133	2.98E-05	0.000311104
C2orf49	245.1591314	-0.284547138	0.068188245	-4.172964676	3.01E-05	0.00031334
BAIAP2L1	5.556091907	2.284357775	0.547581608	4.171721151	3.02E-05	0.00031488
TP53TG1	20.56436485	-0.772723415	0.185271561	-4.170761078	3.04E-05	0.000316033
ING2	170.1035118	-0.441663537	0.105933538	-4.169251253	3.06E-05	0.000317956
FADS2	133.9382761	0.886295149	0.212624391	4.168360669	3.07E-05	0.000319022
PPARG	2768.29251	-0.318973125	0.076527038	-4.168110155	3.07E-05	0.000319195
NDUFB1	1328.787683	-0.464560782	0.1115008	-4.166434521	3.09E-05	0.00032137
ZNF573	33.38535237	-0.85616334	0.205652268	-4.163160209	3.14E-05	0.000325833
AHNAK	1279.129021	-0.310997641	0.074769628	-4.159411364	3.19E-05	0.000331043
MFGE8	388.6645429	-0.617714171	0.1485599	-4.158014195	3.21E-05	0.000332888
R3HDM1	387.7728661	-0.371964175	0.089465143	-4.157643556	3.22E-05	0.000333243
ELMO2	426.8109273	0.327603132	0.078819845	4.156353411	3.23E-05	0.000334943
PPIF	2838.686151	0.505317929	0.121625774	4.154694444	3.26E-05	0.000337195
MAPKAPK2	1443.466253	0.271832218	0.065430012	4.154549401	3.26E-05	0.000337222
THYN1	91.47942482	-0.474083241	0.114170354	-4.152419832	3.29E-05	0.000340187
TM6SF1	375.5303867	-0.582382329	0.140284208	-4.151446123	3.30E-05	0.000341449
MCM4	235.2885462	0.760163453	0.183157576	4.150324936	3.32E-05	0.000342935
MOSPD2	1041.663322	-0.248381641	0.05986077	-4.149322506	3.33E-05	0.00034425
ANXA9	25.39967431	-0.931711955	0.224578801	-4.14870839	3.34E-05	0.000344983
GOSR1	291.5019455	0.32098179	0.077393894	4.147378722	3.36E-05	0.0003468
ARF1	8378.823737	0.192908094	0.04651847	4.146913963	3.37E-05	0.000347312

TBC1D23	844.3629092	0.348287874	0.083995547	4.14650405	3.38E-05	0.000347742
ICAM1	983.2686828	1.078416723	0.260089321	4.146332183	3.38E-05	0.000347811
KIAA0922	443.9892692	-0.413336914	0.099713899	-4.145228696	3.39E-05	0.000349297
KIF13A	46.25981823	0.794867604	0.191771912	4.144859352	3.40E-05	0.000349668
MRPL55	132.9331291	-0.323036357	0.077953596	-4.143957094	3.41E-05	0.000350853
RP2	1104.427336	0.243750479	0.058826936	4.143518172	3.42E-05	0.000351332
EIF5A	5430.190748	0.226580996	0.054695556	4.142585157	3.43E-05	0.00035257
GNG2	32.12972528	-1.035575623	0.250078278	-4.141005899	3.46E-05	0.000354616
TUBG1	722.1176516	0.235684154	0.056913626	4.141084835	3.46E-05	0.000354616
KIAA0146	457.8511571	-0.288869332	0.069794163	-4.138875205	3.49E-05	0.000357728
RPL38	3741.131317	-0.303424107	0.073372998	-4.135364726	3.54E-05	0.000363042
PSAP	133711.6274	-0.320394451	0.077535105	-4.132250162	3.59E-05	0.000367795
CCDC64	14.32798397	1.013248097	0.245263841	4.13125756	3.61E-05	0.000368985
TMEM150	254.1564816	-0.405748365	0.098214295	-4.131255697	3.61E-05	0.000368985
LDLRAD3	21.61123799	-1.282331327	0.310793582	-4.125990373	3.69E-05	0.000377323
RPS20	4733.932337	-0.549675677	0.133248763	-4.125184086	3.70E-05	0.00037844
RHBDD2	1261.027846	0.411249437	0.099727929	4.123713794	3.73E-05	0.000380656
STARD13	46.90602504	-0.894129321	0.216900784	-4.122296405	3.75E-05	0.000382797
UNC119B	48.19938663	-0.585547717	0.14205549	-4.121964727	3.76E-05	0.000383139
GALNT12	1662.00706	0.514922023	0.124939904	4.121357614	3.77E-05	0.00038394
TARP	54.72786625	1.268864928	0.307907323	4.120931313	3.77E-05	0.000384441
ADCK3	260.8966189	-0.350369474	0.085039442	-4.120082007	3.79E-05	0.00038565
SESN2	868.6995498	0.369448603	0.089685239	4.119391409	3.80E-05	0.000386596
CHST7	780.4006412	0.640269488	0.155559685	4.115908862	3.86E-05	0.000392267
VGLL4	243.923645	-0.300023746	0.072910644	-4.114951236	3.87E-05	0.000393684
CLSTN3	81.81388112	0.621520741	0.151077919	4.113908524	3.89E-05	0.000395252
SCP2	1732.325279	-0.311933993	0.075833671	-4.113396967	3.90E-05	0.000395913
ZNF510	102.0549826	-0.481751052	0.11713279	-4.112862432	3.91E-05	0.000396615
PTRHD1	409.6839429	-0.36409166	0.088545612	-4.111910803	3.92E-05	0.000398037
LOC38764	554.2415868	0.242907808	0.059089862	4.110820346	3.94E-05	0.000399704
MAP4K3	298.8981572	0.481718345	0.117223545	4.109399221	3.97E-05	0.000401953
AHRR	5.990209949	-1.628865177	0.396393937	-4.109208101	3.97E-05	0.000402067
CRYBB1	1.980959063	-3.009325578	0.732445437	-4.10860035	3.98E-05	0.000402908
PHLDA3	379.9666965	0.347592188	0.08462004	4.107681671	4.00E-05	0.000404293
ACSM3	27.53883731	-0.788039287	0.191856416	-4.107442977	4.00E-05	0.000404492
SIGLEC11	303.26728	-0.490703963	0.119530565	-4.105259312	4.04E-05	0.00040811
TLR5	54.57680357	-1.194338873	0.290964864	-4.104752907	4.05E-05	0.000408784
ATP7A	242.5238358	-0.39139699	0.095383031	-4.103423711	4.07E-05	0.000410918
PSMB10	949.274957	0.373061403	0.090937207	4.102406663	4.09E-05	0.000412505
FAM212B	48.00893062	-0.600703836	0.146573965	-4.098298343	4.16E-05	0.000419667
DANCR	96.8810378	-0.474863278	0.115930469	-4.096104188	4.20E-05	0.000423433
CDA	155.3339023	0.513657445	0.125410605	4.095805497	4.21E-05	0.00042375
DUSP16	232.1352488	-0.469309431	0.11461428	-4.094685491	4.23E-05	0.000425574
AKR1C1	322.0549882	0.920682059	0.22486766	4.094328449	4.23E-05	0.000426
IL18BP	128.3820395	-0.766229603	0.18717216	-4.093715658	4.25E-05	0.000426897
IFI16	2681.993291	0.292595164	0.071480143	4.093376862	4.25E-05	0.000427291
FITM2	72.98705996	-0.434265971	0.106179093	-4.089938585	4.31E-05	0.000433441
KCNMA1	18.47043461	-0.846509675	0.207032172	-4.08878323	4.34E-05	0.000435371
DUSP8	74.53887007	0.615384963	0.150551322	4.087542731	4.36E-05	0.000437233

N4BP2L1	162.6754005	0.372028286	0.091013453	4.087618619	4.36E-05	0.000437233
ATP2B1	769.3748683	0.388689904	0.0951383	4.085525021	4.40E-05	0.000440813
AHCYL1	2636.94148	0.322786762	0.079083454	4.081596667	4.47E-05	0.000448091
BCL2A1	2243.525787	0.547151635	0.134058903	4.081427068	4.48E-05	0.000448177
SOCS7	117.0004951	-0.338007139	0.082819296	-4.081260712	4.48E-05	0.000448258
FAM214A	140.8619509	-0.35487579	0.086978723	-4.080029897	4.50E-05	0.000450396
RGL3	59.41771149	-0.47540281	0.116530309	-4.079649447	4.51E-05	0.000450891
UTP6	769.6448958	0.240416011	0.058963374	4.077378789	4.55E-05	0.000455072
ACE	451.0377348	0.697491432	0.171140936	4.07553826	4.59E-05	0.000458441
C8orf76	478.0717212	0.332183501	0.081512782	4.075232026	4.60E-05	0.000458799
GTPBP4	299.6473831	0.423407394	0.103925247	4.074153366	4.62E-05	0.000460683
HIAT1	329.0293639	0.287467885	0.070579312	4.07297655	4.64E-05	0.00046277
AVPI1	873.9046107	-0.240609333	0.059077807	-4.072753312	4.65E-05	0.000462966
KIAA1147	497.9483066	0.399345367	0.09814083	4.069105268	4.72E-05	0.000470023
CUEDC1	286.8059761	-0.392069154	0.096381046	-4.067907215	4.74E-05	0.000472193
AMIGO2	180.3137012	-0.443405995	0.109026644	-4.0669508	4.76E-05	0.000473882
LOC100271	6.165688437	-1.476316936	0.363036829	-4.066576218	4.77E-05	0.00047439
OSGEP	232.1431544	-0.255271595	0.062820802	-4.063488331	4.83E-05	0.000480456
C11orf84	125.0229907	-0.437936161	0.107777204	-4.063346818	4.84E-05	0.000480492
DIMT1	118.9731543	-0.384645269	0.094685565	-4.062343288	4.86E-05	0.000482306
CXCR6	30.79412257	0.993171002	0.244523086	4.061665573	4.87E-05	0.000483451
GLDN	97.27632966	0.880924753	0.217023315	4.059124943	4.93E-05	0.00048848
SNX7	161.9477372	-0.318524404	0.078506524	-4.057298538	4.96E-05	0.000492053
ALG14	97.14717978	-0.460917483	0.113612169	-4.05693762	4.97E-05	0.000492551
TKT	3165.247377	-0.559665173	0.138006638	-4.055349659	5.01E-05	0.000495646
TAGLN2	6043.911521	0.293072178	0.072305019	4.053275741	5.05E-05	0.000499797
ZSCAN16	41.81018795	0.571971302	0.141199219	4.05081067	5.10E-05	0.000504824
CSRP2	10.33504022	1.244225488	0.307200867	4.050201743	5.12E-05	0.000505659
S1PR3	5.338158722	2.670643918	0.659389616	4.050175882	5.12E-05	0.000505659
LOC730101	61.52712812	-0.483713257	0.119455826	-4.049306531	5.14E-05	0.000507272
PNP	590.1669836	0.526620968	0.130070313	4.048740696	5.15E-05	0.00050823
CASS4	104.369885	0.584527143	0.144481136	4.045698704	5.22E-05	0.000514603
DDX20	317.2970179	-0.349573624	0.086415266	-4.045276234	5.23E-05	0.000515259
HMGCR	295.1074902	0.399285636	0.098714615	4.044848227	5.24E-05	0.000515929
RAP2C	563.4425831	0.372251324	0.092047736	4.044111684	5.25E-05	0.000517279
MPZL3	114.6966982	0.528036878	0.13057956	4.043794298	5.26E-05	0.000517707
ERO1L	958.7442353	0.243021927	0.060116166	4.042538671	5.29E-05	0.000519939
LRRC37A3	13.59782511	0.966459813	0.239070301	4.042575797	5.29E-05	0.000519939
PXMP4	69.20566073	-0.485014896	0.120004349	-4.041644331	5.31E-05	0.000521651
NUDT14	308.6663617	-0.375064468	0.092813153	-4.0410702	5.32E-05	0.000522654
FAM228B	23.09703581	-0.932453767	0.230976428	-4.037008344	5.41E-05	0.000531502
STAT4	17.21876092	1.227545209	0.304285294	4.034191699	5.48E-05	0.000537634
IL4R	1332.300334	0.363794022	0.090181291	4.034029848	5.48E-05	0.000537722
ZDHHC11	15.21142862	-1.095161856	0.271494761	-4.033823163	5.49E-05	0.000537912
GLTSCR2	890.3184787	-0.667259541	0.165589943	-4.029589776	5.59E-05	0.000547403
SPAG9	1349.864486	0.303948197	0.075465959	4.027619906	5.63E-05	0.000551719
TMCC3	458.9382271	0.423374553	0.105127613	4.027244054	5.64E-05	0.000552311
FBXO15	10.6892357	0.994571122	0.246973631	4.02703364	5.65E-05	0.000552515
MTA1	221.5011518	-0.366794897	0.091087801	-4.026827884	5.65E-05	0.000552708

ZBTB17	175.4215126	0.343616086	0.085340515	4.026412162	5.66E-05	0.000553395
TIMMDC1	447.9989253	-0.332711988	0.082681278	-4.024030538	5.72E-05	0.000558732
GLCCI1	23.80106675	-0.702877971	0.174804292	-4.020942293	5.80E-05	0.000565516
ST3GAL2	648.1325251	0.617773538	0.153635983	4.021021144	5.79E-05	0.000565516
PKN1	1410.954278	-0.250423646	0.062283171	-4.020727286	5.80E-05	0.000565736
PSMA2	965.4900687	0.335783124	0.083639134	4.014665245	5.95E-05	0.000580171
CST7	22.36663754	-1.117761017	0.278478296	-4.013817346	5.97E-05	0.000581955
MELK	21.935441	0.695992782	0.173410305	4.013560678	5.98E-05	0.000582284
SLC2A4RG	182.0173239	-0.461957432	0.115149505	-4.011805639	6.03E-05	0.000586325
LOC10050!	109.5220269	-0.640369641	0.159678762	-4.010362003	6.06E-05	0.000589614
ACOT13	1640.011613	-0.336226827	0.083848599	-4.00992777	6.07E-05	0.000590391
NDST1	1486.026136	0.306357211	0.076412306	4.009265355	6.09E-05	0.000591741
TNFAIP3	910.1634369	1.036016611	0.258466884	4.008314706	6.12E-05	0.000593818
SAMD9	80.71200712	1.055318771	0.263294152	4.008136012	6.12E-05	0.000593958
MYO7B	87.85102833	0.760547985	0.189988733	4.003121516	6.25E-05	0.000606378
RFXAP	17.57371706	-0.660012588	0.164888416	-4.002783241	6.26E-05	0.00060693
CRYL1	406.2862886	-0.431384139	0.107783192	-4.002332182	6.27E-05	0.000607772
NAV1	65.0271132	-0.663852351	0.16587368	-4.002156049	6.28E-05	0.000607909
RPS27A	2497.170233	-0.523337124	0.130783842	-4.00154267	6.29E-05	0.000609171
ATP6VOD1	3149.568947	-0.289772464	0.07244539	-3.999874463	6.34E-05	0.000613162
SDS	154.711422	-0.942430983	0.235791296	-3.996886229	6.42E-05	0.000620629
MLLT11	15.00985324	1.551285171	0.388190987	3.996190597	6.44E-05	0.000622131
MPPE1	159.4603418	-0.349264975	0.087429634	-3.994812272	6.47E-05	0.000625437
APOE	65210.40951	-0.578682721	0.14492024	-3.993111805	6.52E-05	0.000629615
CNKSR3	5.748564948	1.969797489	0.493377744	3.992473342	6.54E-05	0.000630986
ZBTB2	222.7676749	0.37011863	0.092715003	3.992003671	6.55E-05	0.00063191
ACBD4	60.14999095	-0.548183041	0.137327147	-3.991803912	6.56E-05	0.000632116
H2AFZ	2655.674567	-0.402933156	0.100949177	-3.991445667	6.57E-05	0.000632417
WDFY2	200.0989163	-0.465645841	0.116658976	-3.991513178	6.57E-05	0.000632417
SPATA12	2.958489965	-2.211917773	0.554492608	-3.989084326	6.63E-05	0.000638415
AKR1A1	2253.280305	-0.202399365	0.050750275	-3.988143198	6.66E-05	0.000640622
MAMLD1	25.667966	1.179741526	0.295872552	3.987330073	6.68E-05	0.000642489
SYMPK	1447.101205	0.352748881	0.088492756	3.986189354	6.71E-05	0.000645251
NEXN	4.290210372	1.68225103	0.422250893	3.984008221	6.78E-05	0.00065087
KLHL36	262.6439132	-0.526413205	0.132192414	-3.98217408	6.83E-05	0.000655576
GALC	858.5333882	-0.692222655	0.173854933	-3.981610672	6.84E-05	0.000656794
ASB2	11.92347203	-1.021532208	0.256703941	-3.979417703	6.91E-05	0.000662541
RPS13	5020.478433	-0.504402825	0.126763125	-3.979097417	6.92E-05	0.000663092
SLC31A1	3834.434259	0.436934923	0.109829698	3.97829488	6.94E-05	0.000664992
PODXL	44.62829275	1.037341207	0.260765156	3.978066784	6.95E-05	0.000665288
BBS9	94.43097303	-0.456813896	0.114859341	-3.97715928	6.97E-05	0.000667365
HMGA1	2110.466992	0.596965015	0.150101293	3.977081102	6.98E-05	0.000667365
BCAR3	396.8135434	0.350683333	0.088226376	3.974812839	7.04E-05	0.000673411
FERMT3	3393.658716	0.314950892	0.079243657	3.974461872	7.05E-05	0.000674059
BIRC7	41.29695325	-1.203247931	0.302850982	-3.973069269	7.10E-05	0.000677666
TYRO3	6.997500549	1.585052873	0.399001069	3.972552946	7.11E-05	0.00067879
PNMA1	268.7535517	0.330724516	0.083266472	3.971880994	7.13E-05	0.000680359
PLXNC1	195.6050249	-0.774549617	0.195018606	-3.971670351	7.14E-05	0.00068047
ZNF101	80.76510635	0.358361479	0.090231047	3.971598361	7.14E-05	0.00068047

ARNTL2	203.8222296	1.302473985	0.328128782	3.969398777	7.21E-05	0.000686431
PRPF8	2842.930042	-0.255385483	0.064430304	-3.963747934	7.38E-05	0.000702533
ISOC1	206.7436733	0.475436224	0.119955534	3.963437194	7.39E-05	0.000703089
SLC9A9	104.3388409	0.719984313	0.181738301	3.961654258	7.44E-05	0.000707999
ZDHHC7	651.3714007	-0.349937439	0.088333925	-3.961529386	7.45E-05	0.000708008
ACCS	14.71556513	-0.791857733	0.199951903	-3.960241036	7.49E-05	0.000711476
TMEM176	179.4583929	-0.765518675	0.193310781	-3.960041283	7.49E-05	0.000711709
DNM1L	968.1275197	0.291886562	0.073721679	3.959304316	7.52E-05	0.000713181
REC8	38.5572171	0.538724661	0.136065106	3.95931533	7.52E-05	0.000713181
TMEM88	4.665803718	2.161243948	0.545884044	3.959163072	7.52E-05	0.00071324
IFFO1	294.0876204	-0.481125944	0.121529645	-3.958918358	7.53E-05	0.000713608
GNPAT	301.35256	-0.314767647	0.079567764	-3.955969503	7.62E-05	0.000721735
ITK	31.24341874	0.815372145	0.206109019	3.956023609	7.62E-05	0.000721735
MAST3	204.5006555	-0.401739842	0.10161032	-3.953730718	7.69E-05	0.000728155
HK1	826.100611	-0.313409172	0.079277133	-3.953336344	7.71E-05	0.000728987
CTAGE4	37.41270923	0.883256003	0.22350972	3.951756562	7.76E-05	0.000733444
PPFBP1	90.26205988	0.499834718	0.126566327	3.949191941	7.84E-05	0.00074097
LTBP3	618.9724052	0.595671867	0.150871842	3.94819775	7.87E-05	0.000742923
PARP1	1370.322439	-0.30650149	0.077629619	-3.948254453	7.87E-05	0.000742923
SLC12A6	727.3580194	-0.306990599	0.077751831	-3.94833917	7.87E-05	0.000742923
ACVR1	584.2853981	0.377360268	0.095605104	3.947072393	7.91E-05	0.000746045
LOC64699	6.849867431	1.368588301	0.346757013	3.946822265	7.92E-05	0.000746447
C1RL-AS1	9.412227501	0.98963248	0.250822427	3.945550215	7.96E-05	0.000750042
ZNF248	44.12588028	-0.519888333	0.131817317	-3.944006341	8.01E-05	0.000754508
DNTTIP2	1209.681291	0.246593689	0.06253696	3.943167215	8.04E-05	0.000756771
BCS1L	119.9777404	-0.417912789	0.105994911	-3.942762773	8.05E-05	0.000757667
ATP5B	5108.195437	0.337713247	0.085666758	3.94217378	8.07E-05	0.000759147
ADAM28	32.0655292	-0.910723886	0.231124064	-3.940411354	8.13E-05	0.000764186
DYNC2H1	15.9078159	-0.848008928	0.215211836	-3.940345211	8.14E-05	0.000764186
BTG3	107.5215633	0.860006869	0.218284568	3.939842737	8.15E-05	0.000765402
TRIM54	20.14462111	1.420739995	0.360900313	3.936654925	8.26E-05	0.000775247
RAPGEF3	176.670056	-0.460330249	0.117042048	-3.933033084	8.39E-05	0.000786629
FEM1B	1893.403756	0.414654782	0.105492696	3.930649206	8.47E-05	0.000794071
FLOT1	2212.148007	0.317825309	0.080866647	3.930239717	8.49E-05	0.000795025
CASP10	699.3007376	0.351085909	0.089359938	3.928896073	8.53E-05	0.000799077
INVS	214.8442267	-0.279941269	0.071265	-3.92817329	8.56E-05	0.00080108
HNRNPA1L	46.32919948	-0.55023782	0.140092736	-3.927668449	8.58E-05	0.00080236
RDX	1202.75639	0.41920233	0.106758041	3.926658126	8.61E-05	0.000805332
DNM2	1462.843027	0.253148844	0.064504203	3.924532559	8.69E-05	0.000812068
ZNF337	76.25222926	-0.418850826	0.106759552	-3.923310081	8.73E-05	0.000815792
CD226	66.24492934	0.67408628	0.171834238	3.922886899	8.75E-05	0.000816817
COL8A2	62.41636368	0.765764831	0.195289568	3.921176332	8.81E-05	0.000822226
S100A8	286.0532698	-1.021849584	0.260839276	-3.917544932	8.95E-05	0.00083429
IL36G	6.543970335	2.062412227	0.526877174	3.914408004	9.06E-05	0.000844787
SKAP2	1265.045037	-0.335935533	0.08585567	-3.912793808	9.12E-05	0.000850031
ZNF700	24.61271438	-0.840073968	0.214738558	-3.91207791	9.15E-05	0.00085213
VPS35	679.2398496	-0.426334812	0.108982951	-3.911940444	9.16E-05	0.000852189
GNAQ	1253.664353	-0.281811479	0.072049949	-3.911334881	9.18E-05	0.000853902
DPH1	155.0943109	-0.30838909	0.078885717	-3.909314645	9.26E-05	0.000860645

GPR75	3.653896014	1.935828665	0.495213944	3.909075435	9.27E-05	0.000861068
RNF141	154.0039714	-0.419219445	0.107319146	-3.906287572	9.37E-05	0.00087019
TMEM55A	118.1354827	-0.398099124	0.101912264	-3.906292635	9.37E-05	0.00087019
TRIM39	177.073668	0.251593059	0.064525271	3.899139906	9.65E-05	0.000895833
SYP	31.20981066	0.829364432	0.21273289	3.898618744	9.67E-05	0.000897316
SDC2	6061.763749	0.530131407	0.136174661	3.893025361	9.90E-05	0.000917811
TNC	8.538063863	1.653353069	0.424734496	3.892674327	9.91E-05	0.000918683
CYTH4	358.3150604	0.374555481	0.096233809	3.892140231	9.94E-05	0.000920251
ACO2	1312.225768	0.282931405	0.072744803	3.889369329	0.000100505	0.000930358
MTMR10	1204.923572	-0.249340554	0.064136359	-3.887663068	0.000101214	0.000936456
STRN3	357.0075421	0.322912865	0.083103854	3.885654519	0.000102055	0.000943764
NME3	208.4349827	-0.436913105	0.112451905	-3.885333079	0.00010219	0.000944545
CARD9	166.867873	-0.416181068	0.107143289	-3.884340975	0.000102608	0.000947801
FOS	524.2115081	-0.543121061	0.139826279	-3.884255987	0.000102644	0.000947801
NAPSB	39.92221219	-1.221832091	0.314622584	-3.883485018	0.00010297	0.000950342
HS2ST1	284.488442	-0.321521639	0.08281811	-3.882262434	0.000103489	0.000954661
NDUFV2	603.5469567	0.310426366	0.079972768	3.881650895	0.00010375	0.000956592
GZF1	162.7781359	-0.298699678	0.077001626	-3.879134668	0.000104829	0.000966062
ZNF814	96.9385395	-0.35508058	0.091541439	-3.878905371	0.000104928	0.000966495
IRF2BP2	1389.275293	-0.400301468	0.103248027	-3.87708589	0.000105715	0.000973268
BIVM	65.66169922	-0.468045508	0.120848868	-3.872982145	0.000107512	0.00098932
CPNE6	13.99268016	1.413875513	0.365279997	3.870662296	0.00010854	0.00099829
PRPF38B	422.43568	-0.253617043	0.065543254	-3.869460677	0.000109076	0.001002728
MRPS6	4596.880526	0.327643461	0.084733534	3.866750821	0.000110295	0.001013431
MIER1	669.380954	0.259316564	0.067086884	3.865383942	0.000110915	0.001018621
C4A	17.6831386	1.104068079	0.285833001	3.862633338	0.000112171	0.001029284
NME4	105.7707852	-0.771365489	0.199701046	-3.862601151	0.000112186	0.001029284
ZBTB44	212.9770231	-0.270990753	0.07017643	-3.861563663	0.000112664	0.001032648
ZNF69	17.38083949	-1.013606243	0.262482009	-3.861621777	0.000112637	0.001032648
SLC11A1	3221.876338	0.367091315	0.095080101	3.860863742	0.000112987	0.001035102
GMFG	707.4590451	-0.283866131	0.073563342	-3.858798745	0.000113946	0.001043373
DAPK1	3697.036235	-0.264568633	0.068574218	-3.858135601	0.000114255	0.001045694
LOC72819C	16.5178049	-0.812023002	0.210479392	-3.857969157	0.000114333	0.001045892
CDKL1	53.19645954	0.526263347	0.136432509	3.857316341	0.000114639	0.001048174
FRK	9.161091358	-1.152706011	0.298895024	-3.856558048	0.000114995	0.001050399
RASAL1	7.650005801	-1.792774854	0.464851774	-3.856659164	0.000114947	0.001050399
SPTLC2	610.4612137	0.287677753	0.074606123	3.855953654	0.000115279	0.001052172
TBXA2R	10.3006993	0.938048825	0.243275871	3.855905733	0.000115302	0.001052172
ITPK1	2958.267886	-0.480328359	0.124580335	-3.855571254	0.00011546	0.001053096
AP2A2	668.0576004	-0.388194563	0.100764101	-3.852508569	0.000116914	0.001065838
RASD1	9.294107318	1.235268294	0.320703009	3.851751489	0.000117276	0.001068617
SLC43A1	11.34644791	-1.268045159	0.329231913	-3.851525657	0.000117384	0.00106908
DHX8	297.0862366	0.306875274	0.079679601	3.851365619	0.000117461	0.001069256
BRPF3	256.6806668	0.279736425	0.072639843	3.851005366	0.000117634	0.001070308
PTPN7	288.2004753	0.359911669	0.093513914	3.848749923	0.000118722	0.001079682
DCTN3	436.3246646	-0.203720194	0.052948001	-3.847552114	0.000119304	0.001084443
CYFIP2	254.0586812	-0.428676143	0.111419632	-3.847402263	0.000119377	0.001084578
TRIM22	2069.032489	0.461542539	0.119990741	3.846484605	0.000119825	0.001088115
CCDC50	840.2795409	0.41342317	0.107508194	3.845503823	0.000120305	0.001091945

LOC100134	57.23634222	-0.633911257	0.164921195	-3.843722201	0.000121182	0.001098836
SYNJ2BP	151.6379456	-0.326795659	0.085019419	-3.84377669	0.000121155	0.001098836
SLC43A2	1772.599706	0.415258874	0.108043131	3.843454658	0.000121314	0.0010995
EHF	63.96722959	0.903431033	0.235136671	3.84215286	0.00012196	0.001104813
EIF4B	938.5068882	-0.872315255	0.227052852	-3.841903981	0.000122084	0.001105396
CYP1B1	1517.401013	0.561264467	0.146165648	3.839920498	0.000123074	0.001113824
SLC19A1	45.28741517	-0.746907738	0.194539631	-3.839360308	0.000123355	0.001115826
ARMC7	181.2043682	-0.436673797	0.113773276	-3.838105171	0.000123987	0.001121
ARHGAP2C	9.853691513	1.776592232	0.463090097	3.836385715	0.000124858	0.001127249
NUP107	260.6526564	0.272737596	0.071092395	3.836382164	0.00012486	0.001127249
USP4	497.9440107	0.248465591	0.064762401	3.836571658	0.000124764	0.001127249
CTNS	583.3619949	0.471435625	0.123038246	3.831618537	0.000127303	0.001148748
NDUFA7	638.3576266	0.215527545	0.056256387	3.831165812	0.000127538	0.001150307
PLEC	636.0259896	0.35176254	0.09188411	3.828328337	0.000129017	0.001162749
PSMD11	2218.232131	0.397073437	0.103721104	3.828280097	0.000129042	0.001162749
LAMA1	30.48488586	-0.749656891	0.195851957	-3.827671183	0.000129361	0.001165066
SPATA13	390.3757121	0.495854131	0.129576642	3.826724663	0.00012986	0.001168988
PDSS1	129.3068616	0.404168925	0.105627725	3.826352656	0.000130056	0.001170189
EGLN1	494.8812351	-0.349284621	0.09133618	-3.824164961	0.000131216	0.001180045
RBCK1	443.1595206	0.425998747	0.111399924	3.824048801	0.000131278	0.001180045
KCTD12	1013.394941	-0.396872072	0.10378726	-3.823899688	0.000131357	0.00118019
HEATR3	316.2642599	-0.258213317	0.067535538	-3.82336951	0.00013164	0.001181592
TUBGCP3	537.1186055	-0.183510938	0.047996697	-3.823407608	0.00013162	0.001181592
DOK3	440.7712546	-0.430793563	0.112685855	-3.822960426	0.000131859	0.001182985
MFSD1	2512.972674	-0.214431943	0.056093523	-3.82275761	0.000131967	0.001183389
ATP13A1	607.1612576	0.370628125	0.096995298	3.821093734	0.000132861	0.001190829
SCIN	84.71424115	-0.568306295	0.14875016	-3.820542413	0.000133159	0.001192921
PRPF4B	848.4309084	0.253335882	0.066318472	3.819989743	0.000133457	0.001195023
ALPK3	139.3064269	0.570740864	0.149484617	3.818057494	0.000134507	0.00120384
DGKG	13.91814107	-1.080103127	0.282912025	-3.817805647	0.000134644	0.001204491
TBC1D22A	288.0970043	-0.209885644	0.055000786	-3.816048064	0.000135606	0.001212516
AMDHD2	429.8325184	-0.370102463	0.09701185	-3.815023249	0.00013617	0.001216975
ZNF516	101.430444	-0.38293252	0.100423123	-3.813190696	0.000137184	0.001225451
SNX18	364.7418497	-0.36555804	0.095884697	-3.812475301	0.000137582	0.001228415
LIPN	15.17024582	-1.440486306	0.377931316	-3.811502902	0.000138124	0.001232423
RRBP1	3249.885745	0.4540473	0.119127691	3.811433733	0.000138163	0.001232423
RSPO3	104.5658674	1.267114787	0.332564039	3.810137715	0.000138889	0.001238309
ABCC1	807.7064105	0.39539298	0.103779886	3.809919194	0.000139012	0.001238811
FGF13	4.932957365	2.001426091	0.52543129	3.809110974	0.000139467	0.001242273
SIRPB2	108.9342874	-0.662282391	0.173922163	-3.807924064	0.000140138	0.001247653
EXOC3	377.9203467	-0.348106183	0.091469159	-3.805721913	0.000141391	0.001258206
BTBD9	229.5389065	0.253954217	0.066744295	3.804882738	0.000141871	0.001261507
ZNF780A	313.4101803	-0.38165629	0.100308181	-3.804837115	0.000141898	0.001261507
TMSB10	27375.4184	0.331392002	0.087101285	3.804674073	0.000141991	0.001261736
HEY1	13.33321976	2.120995123	0.557635737	3.80354949	0.000142637	0.001266876
NDEL1	281.9700708	0.30176907	0.079349142	3.803053951	0.000142923	0.00126881
KIAA1467	90.14698973	0.523449267	0.137713761	3.800994624	0.000144116	0.001278793
DPYD	605.8292163	-0.270765996	0.071279031	-3.79867675	0.000145471	0.001290195
CELSR2	4.560959442	-1.582835337	0.41682705	-3.797343134	0.000146255	0.001296537

STIP1	3822.494394	0.210526623	0.055445791	3.796981166	0.000146469	0.001297813
CHD3	134.6632991	-0.375668278	0.09894424	-3.79676754	0.000146595	0.001298272
SLC46A2	83.15619879	-0.749735471	0.197472486	-3.796657876	0.00014666	0.001298272
NOA1	309.2820541	-0.325102677	0.085650056	-3.795708846	0.000147222	0.00130263
SLC38A6	1719.799972	-0.379007414	0.099899207	-3.793898119	0.000148301	0.001311548
FZD4	16.91180384	1.204966263	0.317626452	3.793658414	0.000148444	0.001312193
CBX6	101.5571033	0.51843225	0.136673798	3.793208782	0.000148713	0.001313949
ACP1	1192.42428	-0.139498314	0.036781487	-3.792623043	0.000149064	0.001316429
GRHL1	58.47457871	0.617408877	0.162798744	3.792467077	0.000149158	0.001316632
HAUS4	168.7387157	-0.463144279	0.122129295	-3.792245585	0.000149291	0.001317184
ALCAM	2033.058685	0.322292037	0.084991237	3.792061985	0.000149402	0.001317534
C5orf20	15.0303213	-1.477029447	0.389887901	-3.788343891	0.000151655	0.001336772
HIF1A	3718.28755	-0.476624447	0.125820773	-3.788122083	0.00015179	0.001337333
SPAG1	34.1690129	0.727967952	0.192236511	3.786835026	0.000152578	0.001343641
DCUN1D4	82.49767448	-0.622388088	0.164445269	-3.784773452	0.000153849	0.001353549
TPRG1	555.6857886	0.354639262	0.093700177	3.784830227	0.000153814	0.001353549
SDHD	1459.699773	0.317372786	0.083879199	3.783688779	0.000154521	0.001358822
LOC72874:	43.34412602	0.642951449	0.16998359	3.782432463	0.000155303	0.001365057
ASB13	101.1378575	-0.546511338	0.144500948	-3.78206057	0.000155536	0.00136581
IDI1	381.1776325	0.537231184	0.142044715	3.782127235	0.000155494	0.00136581
CCNY	1079.205612	-0.238794737	0.063171159	-3.780122807	0.000156751	0.001375835
ARL5A	222.611304	-0.410895071	0.108724662	-3.779226016	0.000157317	0.001380149
CCND3	739.0072917	0.484550663	0.128303859	3.776586815	0.000158992	0.001394193
PLAC8	92.44949121	-0.968954735	0.256640521	-3.775532912	0.000159666	0.001399443
MAP3K7	204.0191033	0.293010665	0.077617913	3.775039222	0.000159982	0.001401558
FKBP5	821.8852851	0.384611958	0.10189098	3.774739997	0.000160175	0.001402582
OSGIN2	893.1500991	0.267258107	0.070811217	3.774234051	0.0001605	0.001404658
SCN11A	24.07488294	-0.552751379	0.146457689	-3.774136969	0.000160563	0.001404658
DVL3	1004.268879	-0.377587131	0.10016822	-3.769530223	0.000163555	0.001430167
TEX261	634.4999027	-0.252006314	0.066883524	-3.767838434	0.000164667	0.001439216
HP1BP3	1285.193628	-0.192641626	0.051147962	-3.766359775	0.000165645	0.001447084
MTIF3	779.3914371	-0.214464938	0.056962655	-3.765009511	0.000166543	0.001454244
NFE2L2	1670.455607	0.234428693	0.062293509	3.763292481	0.000167691	0.001463584
CSGALNAC	757.1399454	0.248497398	0.066056355	3.761899928	0.000168628	0.00147107
TMEM52	3.665794738	2.075979848	0.551884273	3.761621682	0.000168815	0.001472018
RBMS1	1212.98381	0.323229154	0.08593288	3.761414199	0.000168955	0.001472551
COPG1	2114.923311	0.232170603	0.061734375	3.760799438	0.000169371	0.001475485
ABCA6	7.43472876	1.656242264	0.440495829	3.759949939	0.000169947	0.001479534
AP1B1	2676.023455	-0.291088512	0.077419623	-3.759880241	0.000169995	0.001479534
C20orf111	376.8919755	0.266957094	0.071032763	3.758224839	0.000171123	0.001488659
USP11	653.0755688	0.38809589	0.1033031	3.756865861	0.000172055	0.001496065
FAM211A	72.16995197	-0.559768004	0.149036325	-3.755916578	0.000172708	0.001500347
PXMP2	60.52399181	-0.447363883	0.119105838	-3.756019777	0.000172637	0.001500347
ARHGAP6	115.7427505	-0.506239587	0.134801821	-3.755435821	0.00017304	0.00150253
RELA	816.418168	0.340716978	0.090735278	3.755066213	0.000173296	0.001504048
FTSJD2	303.23658	0.450878614	0.120115728	3.753701716	0.000174242	0.001511559
GSTK1	1726.16015	-0.260166599	0.069322952	-3.752964823	0.000174755	0.001515306
DPP4	39.15603197	0.965296327	0.257235422	3.752579333	0.000175024	0.001516227
DYNC1LI2	218.5725086	0.223155149	0.059466739	3.752604465	0.000175007	0.001516227

PRSS22	25.1790385	1.0166587	0.270938877	3.752354446	0.000175182	0.001516883
PTX3	8.69969312	1.359413405	0.362313308	3.752038297	0.000175403	0.001518093
RBM43	32.50220001	0.659786009	0.175869483	3.751566201	0.000175733	0.001520248
AMZ1	100.0234126	1.082971319	0.288748317	3.750571882	0.000176432	0.001525582
CA13	46.56784335	-0.553182	0.147541361	-3.749335088	0.000177304	0.001532414
GNA15	1048.142584	0.299457808	0.079976579	3.74431877	0.000180884	0.001562201
ZNF624	52.29532164	-0.371964167	0.099342209	-3.744271156	0.000180918	0.001562201
FRG1	486.7168915	0.300396831	0.080270869	3.742289508	0.000182351	0.001573846
NEIL2	40.02593293	-0.685168436	0.183114856	-3.741741384	0.00018275	0.001576553
HOOK3	617.0774265	-0.293950044	0.078628508	-3.738466529	0.000185146	0.001596489
SEC31B	4.298983299	-1.607315406	0.430134779	-3.736771549	0.000186398	0.001606542
CAV2	6.155324588	1.548511625	0.41445293	3.736278626	0.000186764	0.001608948
CDK3	32.40972723	0.605929943	0.16219743	3.735755501	0.000187152	0.001611552
DLST	581.2754412	0.275544177	0.073828213	3.732234145	0.000189789	0.0016335
MED20	62.07869182	-0.329111517	0.088195989	-3.731592785	0.000190273	0.001636909
RPS21	3413.275033	-0.352992775	0.094608168	-3.731102548	0.000190644	0.001639341
CAB39	565.5960859	-0.255870339	0.06858185	-3.730875409	0.000190816	0.001640063
TNFRSF10C	42.72411509	-0.515833129	0.138281777	-3.730304454	0.000191249	0.001643027
RPS19	7293.075818	-0.273462435	0.073312923	-3.730071371	0.000191426	0.00164379
GPR156	6.273160635	1.647458807	0.441759748	3.72930946	0.000192005	0.001648008
USP25	940.1611838	0.249938433	0.067041017	3.728142022	0.000192897	0.001654897
CDK19	437.717099	-0.229093359	0.061456931	-3.727705796	0.000193231	0.001656238
TMEM194I	33.02396031	0.565803753	0.151778728	3.727819835	0.000193143	0.001656238
ZBTB10	54.96416015	0.405011806	0.108673082	3.726882477	0.000193863	0.001660892
LINC00649	26.86388955	0.924905499	0.248332236	3.724468128	0.000195727	0.001676096
FGD6	295.8392365	0.331774472	0.089110846	3.723166002	0.00019674	0.001683994
HIVEP1	310.1248037	0.383057818	0.10292799	3.721609834	0.000197957	0.00169363
FES	97.54607005	-0.549951427	0.147798744	-3.720947895	0.000198476	0.001696518
MUCL1	9.878488299	1.453710987	0.39067163	3.721055934	0.000198391	0.001696518
ZKSCAN4	60.67713495	-0.478567022	0.128769038	-3.716475861	0.000202021	0.001726024
WDFY1	746.9795611	0.398723503	0.107291517	3.716263095	0.000202191	0.001726686
PABPC3	423.9844078	-0.363188357	0.097746965	-3.715597287	0.000202724	0.001730446
ANAPC7	579.1083217	-0.214059937	0.057632121	-3.714247101	0.00020381	0.001738914
LARP4	532.6978527	0.179257023	0.048264913	3.714023554	0.00020399	0.001739655
HLA-DOA	887.5277412	-0.493050709	0.132764367	-3.713727714	0.000204229	0.001740894
XRN1	182.1319006	0.654361412	0.176264543	3.712382534	0.000205317	0.001749375
JUN	8.092521304	1.23440098	0.332525163	3.712203212	0.000205463	0.001749815
SEMA4B	135.5684835	0.386667729	0.104178034	3.711605146	0.000205949	0.001753155
HSD3BP4	41.26219401	0.818765384	0.220689526	3.710032814	0.000207232	0.001763273
RPS28	5576.219844	-0.329569335	0.088917308	-3.706470004	0.000210168	0.001787436
ACPP	13.73366092	-0.896494422	0.241964612	-3.705064205	0.000211337	0.001796559
PRKDC	1138.253999	-0.208285461	0.056242392	-3.703353547	0.000212768	0.001807898
TNFAIP8	597.3531782	0.378805725	0.102314977	3.702348744	0.000213613	0.001814248
LOC93622	28.24234491	-0.636456662	0.171949471	-3.70141681	0.000214399	0.001820096
NIN	321.5964907	-0.312221298	0.084356154	-3.701227283	0.000214559	0.001820626
EIF4A1	20437.51699	0.285856247	0.077242486	3.700764473	0.000214951	0.00182312
RABIF	497.2664615	0.179579554	0.048537497	3.699810796	0.00021576	0.001829152
WDHD1	33.62842175	0.673780585	0.182129858	3.699451554	0.000216066	0.00183091
ZFP106	846.4821996	-0.327800433	0.088675074	-3.696646864	0.000218466	0.001850406

CCDC176	8.319234144	-1.355187341	0.366762954	-3.694995166	0.000219891	0.00186163
LST1	599.1576163	-0.570085293	0.154297639	-3.694711715	0.000220136	0.001862862
GBGT1	289.2090538	-0.286143264	0.077461035	-3.694028413	0.000220729	0.00186703
AZU1	3.238199418	-2.96892443	0.804110196	-3.692186025	0.000222335	0.001879757
CTAGE9	53.69506626	0.88770563	0.240449275	3.691862369	0.000222618	0.00188057
FXYD2	37.10551051	0.915010391	0.247846337	3.691845525	0.000222633	0.00188057
SIAH2	208.5205334	0.360217884	0.097587906	3.691214408	0.000223186	0.001884389
ATP13A2	507.0060628	-0.379150214	0.102730619	-3.690722547	0.000223618	0.001887182
EZH2	55.29467578	0.854971371	0.231687574	3.690190879	0.000224086	0.001890274
R3HDM2	322.7883597	-0.295561853	0.080106014	-3.689633747	0.000224577	0.001893561
ARHGAP32	58.7592258	-0.485226494	0.131715052	-3.683910721	0.000229683	0.001935734
PKI55	51.2403265	-0.842936509	0.228851127	-3.683339993	0.000230198	0.001939198
ABCG1	77.11110642	-0.72773518	0.197676217	-3.681450354	0.000231911	0.001952747
LINC00239	5.863269566	-1.342875295	0.364822391	-3.680901524	0.000232411	0.001956071
LDLRAD4	30.69041746	-0.837504856	0.227550956	-3.680515656	0.000232763	0.00195815
ING4	114.2664757	-0.323888587	0.088005634	-3.680316486	0.000232945	0.001958795
CNN2	1395.834087	-0.41886721	0.113820346	-3.680073232	0.000233167	0.001959781
CCDC86	271.3473359	-0.231552054	0.062923737	-3.679884047	0.000233334	0.001960351
RDH12	12.95462514	-0.821797136	0.223351019	-3.679397292	0.000233786	0.001963211
CTNNB1	5782.002663	-0.269706437	0.073356439	-3.676656618	0.000236311	0.00198352
GSG1	7.098996977	1.265075083	0.344279442	3.674558885	0.000238261	0.001998987
HLA-H	5.294106899	1.843263521	0.502007209	3.671786952	0.00024086	0.002019131
RAD23B	1273.044418	0.24991979	0.068065247	3.671767908	0.000240878	0.002019131
LDHAL6B	89.47603799	0.373809498	0.101817965	3.671351096	0.000241272	0.002021518
NCF1B	747.4708719	0.59100609	0.161049933	3.669707136	0.000242829	0.002033648
PMEPA1	84.9289708	0.619818183	0.168921171	3.669274729	0.00024324	0.002036175
EIF4G3	738.5576153	-0.249274577	0.067955946	-3.668179036	0.000244284	0.002044001
FIG4	1286.949583	-0.419420613	0.114353473	-3.667755796	0.000244689	0.002046467
PRKD2	192.1220209	0.318840389	0.086976938	3.665803784	0.000246563	0.002061217
LAPTM5	43896.68671	-0.236153877	0.064449107	-3.664191608	0.000248121	0.002073312
FAM125B	204.6686965	0.406306521	0.110968406	3.661461289	0.000250781	0.002094598
VMO1	779.5622681	-0.315718498	0.086256394	-3.66023298	0.000251986	0.002103722
UAP1	229.9322203	0.337625704	0.092245851	3.660063838	0.000252152	0.002104168
IL2RG	2212.859267	0.539729721	0.147523898	3.658591768	0.000253605	0.002114396
RPIA	344.6493748	0.483394701	0.132124359	3.658634204	0.000253563	0.002114396
ITGBL1	6.601776934	1.956705868	0.534957178	3.657686912	0.000254502	0.002119975
MPST	192.3714962	-0.359165738	0.098194206	-3.657708067	0.000254481	0.002119975
ALDH2	13586.68698	-0.303329803	0.082975508	-3.655654687	0.000256526	0.002135887
PSMC3	1703.089933	0.328458966	0.089925772	3.652556526	0.000259642	0.002160865
LTB4R	5.949832904	-1.49655772	0.410079448	-3.649433614	0.000262819	0.002186327
SLC17A7	14.58135857	-0.869089658	0.238295694	-3.647106013	0.000265211	0.002205236
CYCS	1703.51774	0.372674268	0.102194091	3.646730085	0.000265599	0.002207478
APOBEC3D	11.71199355	1.010314585	0.277103891	3.64597762	0.000266377	0.002212961
KIAA0226	889.7341446	0.291474784	0.079967488	3.644916099	0.000267479	0.002221125
LRRC6	41.28217222	-0.606588156	0.166432314	-3.644653738	0.000267752	0.002222402
TMEM150I	1630.144728	0.370696809	0.10171992	3.644289228	0.000268132	0.002224562
ATP1B1	2673.849112	0.225596725	0.061934124	3.642527111	0.000269975	0.002238854
MPZL1	376.0616445	0.596026811	0.16382904	3.638102329	0.000274654	0.00227665
DNAJC3	2159.639921	0.474682291	0.130512806	3.637055295	0.000275773	0.002284904

RPL19	6278.929053	-0.278161359	0.076493316	-3.636413906	0.00027646	0.00228958
ELL	162.9756754	0.474923744	0.130609969	3.636198269	0.000276691	0.002289809
RASSF3	916.067083	-0.309798578	0.0851994	-3.636159134	0.000276733	0.002289809
TNNI2	291.6092973	-0.663623164	0.182520725	-3.635878404	0.000277035	0.002291287
MRI1	126.1351288	-0.369083274	0.101585579	-3.633225073	0.000279901	0.002313961
CEP85L	36.39628633	-0.440736713	0.121407523	-3.630225715	0.000283173	0.00233998
RRP12	402.4094591	0.459424535	0.126585273	3.629367957	0.000284116	0.002346728
CNTRL	178.1448556	-0.335769061	0.092541311	-3.628315382	0.000285277	0.00235527
ADK	54.59974724	-0.699915462	0.193079841	-3.625005386	0.000288955	0.002384586
SLC22A5	202.6876223	-0.322810406	0.089073954	-3.624071821	0.000290001	0.002392155
LSM10	220.6013933	-0.2784982	0.076872348	-3.622865797	0.000291357	0.002401215
MICAL2	181.3757863	0.715702241	0.197545748	3.622969607	0.00029124	0.002401215
DNAJC4	381.3686457	-0.279048049	0.077029417	-3.622616675	0.000291638	0.002402467
PRPF3	27.71859127	0.958161455	0.264539262	3.622000932	0.000292333	0.00240713
PGM3	34.88256364	0.626080301	0.172900903	3.621035464	0.000293426	0.002415064
ZNF33A	171.8341755	-0.402202777	0.111082318	-3.620763277	0.000293735	0.002416539
CCDC147	6.013212318	1.432785526	0.395749105	3.620439083	0.000294103	0.002418502
CEBPD	189.8353821	-0.687713107	0.189993671	-3.619663241	0.000294987	0.002424694
PI3	4.059780876	2.814161201	0.777565758	3.619193842	0.000295522	0.002428025
SLC9A7	1013.10094	0.33539277	0.09267632	3.618969451	0.000295779	0.00242906
PPAP2A	156.1801292	-0.408393925	0.112865339	-3.618417555	0.00029641	0.002433173
SNHG15	24.88075388	0.577363682	0.159695814	3.615396465	0.000299888	0.002460642
IQSEC2	77.45912486	-0.486685764	0.134646491	-3.614544722	0.000300876	0.002467659
WDR17	6.356402468	-1.38447474	0.383073507	-3.614122915	0.000301366	0.002470592
PPIP5K1	199.0581271	-0.392129206	0.108530821	-3.613067713	0.000302596	0.002479581
OPTN	1005.897793	0.862853659	0.238849594	3.612539775	0.000303213	0.002483544
PEF1	712.9968843	0.270594721	0.074921562	3.611706887	0.000304188	0.002490441
SMAD5	220.6796198	-0.28054074	0.077717774	-3.609737213	0.000306507	0.002508326
SMOX	53.49873954	0.753277074	0.208871855	3.606407741	0.000310465	0.0025396
USP28	256.8667048	0.271357393	0.075267125	3.60525786	0.000311843	0.002549752
EYA3	644.3538608	0.385802596	0.107019488	3.60497517	0.000312183	0.002550291
SSBP3	532.9480321	0.360249908	0.099930864	3.604991421	0.000312163	0.002550291
HPGDS	384.4545785	-0.564975402	0.156738524	-3.604572689	0.000312667	0.002552827
INF2	811.5368887	0.242577861	0.067298813	3.604489452	0.000312767	0.002552827
MLEC	738.0374588	-0.485717473	0.134792128	-3.603455778	0.000314014	0.002561883
TLK2	862.989773	0.342982067	0.095196053	3.602902183	0.000314684	0.002566224
FAM200B	138.7256659	-0.435849005	0.121002283	-3.601989917	0.000315791	0.002573425
KIAA0494	681.8783453	-0.271662547	0.075421038	-3.601946563	0.000315843	0.002573425
NUP50	565.2161492	0.181201102	0.050309879	3.601700223	0.000316143	0.00257474
MKL2	288.5387952	-0.273134252	0.075854643	-3.600758498	0.00031729	0.002582801
WDR7	406.5587316	-0.190907034	0.053020003	-3.600660557	0.00031741	0.002582801
PIWIL4	12.47060475	1.055067847	0.293079417	3.599938396	0.000318293	0.002588854
RAPGEFL1	173.9754977	-0.500098018	0.139031142	-3.597021589	0.000321882	0.002616904
PER2	68.53749511	0.391223157	0.108831242	3.594768829	0.00032468	0.002638501
LOC55310:	29.65454078	-0.58036842	0.161490737	-3.59381864	0.000325867	0.002646992
CCDC149	53.19094572	-0.64050466	0.178267781	-3.592935618	0.000326973	0.002654825
SIVA1	165.65844	-0.375268168	0.104489728	-3.591435984	0.000328861	0.002668987
TYROBP	42958.59535	-0.258370658	0.071952998	-3.590825488	0.000329632	0.002674083
ABRACL	986.2827456	-0.246028862	0.06851847	-3.590694032	0.000329799	0.002674268

UBE2D2	728.9351584	0.301767737	0.08406684	3.589616749	0.000331164	0.002684175
FAM102B	335.8728019	-0.2345986	0.065379352	-3.588267454	0.000332883	0.002696929
PRRC2C	1493.462576	0.305295056	0.085105178	3.587267719	0.000334161	0.00270611
HSPB7	26.79316617	1.330753407	0.37106685	3.586290195	0.000335416	0.002715089
EIF2S1	392.00864	0.241117578	0.067273024	3.584164416	0.000338159	0.002736107
AMZ2P1	14.56171433	-1.029756251	0.287318226	-3.584026904	0.000338337	0.002736361
COX6A1	5833.312987	0.178533624	0.049817753	3.583734962	0.000338716	0.002738234
GGH	272.3275099	0.347711311	0.097148394	3.579177123	0.000344678	0.002785224
SGK223	182.5571157	-0.480182232	0.134173807	-3.578807546	0.000345166	0.002787956
PRKD3	457.3847043	0.224754665	0.062835539	3.576871762	0.000347731	0.002807458
TMEM159	162.5891301	-0.464792471	0.129953584	-3.576603706	0.000348087	0.00280912
PSMD14	1208.162576	0.255342944	0.071408369	3.575812547	0.000349142	0.00281641
HCG26	44.38404294	0.573833032	0.160495937	3.575374204	0.000349727	0.002819913
GTF3A	2323.323503	-0.282022795	0.07888364	-3.575174709	0.000349994	0.002820413
QPRT	38.02134687	-0.600063211	0.167845085	-3.575101476	0.000350092	0.002820413
RALGAPA2	205.3675596	-0.262088702	0.073350485	-3.573101173	0.000352778	0.002840826
MAP2K3	477.9501075	0.684450386	0.191571124	3.572826479	0.000353149	0.002842581
RAB18	985.8103117	0.220311663	0.061719816	3.569545045	0.000357602	0.002877181
STK39	191.0749663	-0.697380878	0.195381657	-3.569326258	0.0003579	0.002878342
COX10	442.1880325	0.267501149	0.074958903	3.568637438	0.000358843	0.002884673
BTN3A2	514.8698495	0.469491783	0.131698665	3.564894013	0.000364003	0.002924897
AAMDC	82.99071791	-0.424832849	0.119218283	-3.563487381	0.00036596	0.002938811
SLC2A8	45.77099838	-1.355221267	0.380314463	-3.563422899	0.00036605	0.002938811
CENPV	205.2002156	-0.316183117	0.088744103	-3.562863393	0.000366832	0.002943816
KLF7	132.4657327	-0.66266711	0.186135369	-3.560135373	0.000370664	0.002972688
TMEM110	357.9996061	0.492010421	0.138202251	3.560075309	0.000370748	0.002972688
MN1	13.1466213	3.810022428	1.070601986	3.55876645	0.000372601	0.002986254
SEC61A1	3919.538702	0.359649228	0.101150315	3.555591788	0.000377129	0.00302125
BCL2	184.5783224	0.541811264	0.15241437	3.554856818	0.000378185	0.003028405
DCLK2	11.13405406	-0.988069795	0.278061424	-3.553422772	0.000380253	0.003043656
CCNA1	10.10824767	1.291793585	0.363560355	3.553175059	0.000380611	0.003045216
C3orf18	87.62427291	0.39526782	0.111279529	3.55202636	0.000382277	0.003057228
KBTBD3	31.99018981	-0.592838118	0.166910318	-3.551836242	0.000382553	0.003058125
LRP3	32.87033717	-0.768171333	0.216395982	-3.549841016	0.000385464	0.003078754
TTC7A	442.7289329	-0.367610822	0.10355439	-3.549929871	0.000385334	0.003078754
EIF2AK4	579.3916796	-0.234948131	0.066191223	-3.549536003	0.000385911	0.003081002
SOAT1	11712.10773	0.326053352	0.091866065	3.5492252	0.000386366	0.00308332
ERLIN2	124.5463274	-0.31017781	0.087396412	-3.549090883	0.000386564	0.003083573
DEPDC1	25.30567024	0.888625153	0.250405947	3.548738211	0.000387082	0.003085484
DIS3L	322.885343	-0.349627067	0.09852251	-3.54870239	0.000387134	0.003085484
TPP1	11037.29127	-0.233434446	0.065789008	-3.548228711	0.000387831	0.003089717
ARRDC4	654.6575063	0.542322034	0.152851934	3.54802205	0.000388136	0.003090821
ACTA2	225.7034075	0.368774306	0.103984316	3.54644162	0.000390471	0.003106764
XIRP1	6.337441979	1.943906302	0.548123131	3.546477411	0.000390418	0.003106764
EBPL	70.61066263	-0.538289681	0.151790414	-3.546269268	0.000390727	0.00310747
LACC1	246.8767658	-0.769676019	0.217048857	-3.546095698	0.000390984	0.003108191
GATSL2	18.82815504	-0.701152064	0.197746896	-3.545704529	0.000391565	0.003111481
KDM3A	139.0276055	-0.342410639	0.096577812	-3.545437948	0.000391961	0.003113302
USP30	276.7990181	-0.431034152	0.121596234	-3.544798531	0.000392913	0.003119534

PAG1	714.9718447	0.359105506	0.101313847	3.544485933	0.000393379	0.003121905
CD247	18.85136786	0.92004989	0.259650133	3.543421603	0.000394971	0.003133199
FKBP14	77.00313821	-0.373213159	0.105353048	-3.542499863	0.000396354	0.003142831
ARHGAP27	196.8938499	-0.311444462	0.087942148	-3.541469816	0.000397904	0.003153786
NIPAL1	4.234878953	1.934154191	0.546227526	3.540931388	0.000398717	0.003158885
SH3YL1	83.52738341	-0.544496863	0.153830856	-3.539581565	0.000400762	0.003173735
SPATA6	21.95001978	-0.715016389	0.202032997	-3.539106977	0.000401483	0.003178095
FANCC	76.36088329	0.444103136	0.125502671	3.538595102	0.000402262	0.003182912
PHACTR2	15.45523713	0.845503043	0.239119696	3.535898786	0.00040639	0.00321421
SLC12A2	86.07612206	-0.404937766	0.114569261	-3.534436393	0.000408646	0.003230677
TMPO	70.26004009	0.60795644	0.172075106	3.533087702	0.000410736	0.003245826
CCDC71L	192.6107168	0.670023358	0.189666823	3.532633425	0.000411443	0.00325003
PIR	232.5088366	0.349753354	0.09901227	3.532424346	0.000411768	0.003251223
HIST1H2BE	91.48457135	0.627617101	0.177690538	3.532079461	0.000412305	0.003254087
CBWD2	266.6391484	0.258157852	0.073129984	3.530123204	0.000415366	0.003276856
FXR2	824.0223866	0.19260757	0.054571588	3.529447754	0.000416428	0.003283842
TGFBR2	262.0076597	-0.687496402	0.194922712	-3.527020504	0.000420264	0.003312692
DCSTAMP	6344.46666	0.40612287	0.115187154	3.5257653	0.000422261	0.003327024
LPAR1	644.5511867	0.400119367	0.113513058	3.524875232	0.000423682	0.003336811
PSPC1	92.54027625	0.468739047	0.133104826	3.521578143	0.000428986	0.003377156
ITGA7	10.64070528	1.219619609	0.34646734	3.520157511	0.000431291	0.003393864
LILRA3	94.25855599	0.970614281	0.275830594	3.518878266	0.000433376	0.003407443
LOC37444:	135.873391	0.329037454	0.093506453	3.518874312	0.000433382	0.003407443
TMEM189	1735.318863	0.284480334	0.080877407	3.517426488	0.000435753	0.00342464
KCNA3	295.5282135	0.408487283	0.116245568	3.514003076	0.000441408	0.003467619
ZNF124	529.702189	-0.43879772	0.124912488	-3.512841081	0.000443343	0.003481351
TRIM61	31.89907038	-0.695492235	0.198039352	-3.511889066	0.000444934	0.003492373
CREB3L2	612.3852215	-0.209780088	0.059742712	-3.511392132	0.000445766	0.003497436
UBE2O	189.8288831	0.274524816	0.07819896	3.510594212	0.000447106	0.003506473
SNORA70C	569.4661735	0.600804207	0.17129039	3.507518481	0.000452307	0.003545767
RNF166	157.6326948	-0.617926395	0.176271156	-3.505544587	0.000455674	0.003570661
NECAP1	834.0320829	0.163704455	0.046700354	3.505422144	0.000455884	0.003570802
CLU	60.80214161	0.56571478	0.161420887	3.504594677	0.000457303	0.003580413
FLJ27354	32.83986204	-0.617280307	0.176210147	-3.503091726	0.000459891	0.003599164
ERMAP	97.02093769	-0.485378189	0.138566417	-3.502855889	0.000460298	0.00360084
BAZ1A	305.496684	0.387993148	0.110787487	3.502138718	0.000461539	0.003609032
TIMM8A	65.67058942	-0.411874404	0.117619515	-3.501752265	0.000462209	0.003612754
CXADR	143.718531	-0.508572075	0.145268458	-3.500911914	0.000463669	0.003622645
GPD1L	40.42597442	-0.463815832	0.132511992	-3.50018005	0.000464944	0.003631084
FAM216A	10.27445871	-1.091709288	0.311962318	-3.499490883	0.000466148	0.003638958
ARL6IP4	412.9347774	-0.282010052	0.080591694	-3.499244638	0.000466578	0.003640796
SUPT5H	1330.993639	0.329215991	0.094086818	3.499066044	0.000466891	0.00364171
CORO1A	246.2775063	-0.70046789	0.200236436	-3.498203939	0.000468403	0.003651974
TBC1D8	447.4684359	-0.546253922	0.156214567	-3.496818068	0.000470843	0.003669463
PSEN1	2085.911331	0.309411764	0.088493768	3.496424336	0.000471538	0.003673346
CDK18	549.1089327	0.27874686	0.079734421	3.495941375	0.000472392	0.003678463
SRCRB4D	50.19014982	0.789294868	0.225803867	3.495488709	0.000473194	0.003683169
NBPF1	286.1053605	-0.837530444	0.239801204	-3.492603167	0.000478337	0.00372164
IPPK	102.9461299	0.40179665	0.115127005	3.490029555	0.000482967	0.003756097

MYOM1	25.29288252	-1.007913825	0.288852295	-3.489374472	0.000484152	0.003763745
PCM1	340.1613012	-0.257272196	0.073770169	-3.487482791	0.00048759	0.00378889
FLJ46906	25.0453884	-0.643648583	0.184589664	-3.486915619	0.000488625	0.003795117
PSMB3	2339.317754	0.244135783	0.070016731	3.486820656	0.000488799	0.003795117
ZFAND1	266.7498923	-0.2513385	0.072092872	-3.486315535	0.000489723	0.003800707
COL6A2	992.6880093	0.631276562	0.1811555	3.484722042	0.000492649	0.00382182
RAB21	699.2758212	0.258957869	0.074317529	3.484478986	0.000493096	0.003823701
CLIC4	4563.289085	0.526447637	0.151089397	3.48434535	0.000493342	0.00382402
SZRD1	2344.315219	0.41122793	0.118042513	3.483727332	0.000494483	0.003831266
LTB4R2	9.427848384	-1.251953798	0.359555031	-3.481953224	0.000497771	0.003854164
TRIM16L	22.38777784	0.744931758	0.213943457	3.481909513	0.000497852	0.003854164
CASP4	2333.194955	0.246534007	0.070832056	3.480542855	0.000500399	0.003872272
RABGAP1L	377.8790185	-0.326555188	0.093869112	-3.478835373	0.000503598	0.00389541
CCL7	148.0370375	0.702598754	0.202064178	3.47710694	0.000506856	0.003916853
IDH1	2015.346094	-0.222032076	0.063856648	-3.477039324	0.000506983	0.003916853
RASA3	360.8896395	-0.377522206	0.108576048	-3.477030264	0.000507001	0.003916853
PLTP	1546.396998	0.47754712	0.137389692	3.475858444	0.000509221	0.003930747
TMEM50B	57.58644968	-0.31508452	0.090648883	-3.475878671	0.000509183	0.003930747
DNAH17	22.99130775	-1.210792218	0.348776962	-3.471537259	0.000517488	0.003992904
PIP4K2B	648.2746081	-0.371627806	0.107058647	-3.471254463	0.000518033	0.003995457
ERN1	125.5079259	0.408976845	0.117932764	3.46788145	0.000524579	0.004040925
RAB35	1295.801046	0.165998601	0.047867337	3.467888759	0.000524564	0.004040925
SLFN12L	4.464229014	1.756853679	0.50657967	3.468069848	0.000524211	0.004040925
JTB	1364.975649	-0.186324629	0.053734157	-3.467526814	0.000525271	0.004043812
TPPP	13.93067397	-1.470594407	0.424111962	-3.467467413	0.000525387	0.004043812
TMEM45B	23.72994867	0.790778016	0.228114068	3.466590305	0.000527105	0.004055354
GNAI1	19.96209393	0.814357632	0.234995322	3.465420615	0.000529403	0.004071354
GPRC5B	41.4119547	-1.124988043	0.324741249	-3.464259761	0.000531693	0.004087279
TDP2	3894.491461	0.218909112	0.063202141	3.463634427	0.00053293	0.004095102
RALGAPB	645.9550173	0.204678402	0.059096887	3.463437981	0.00053332	0.004096404
UQCRC2	1190.90835	-0.243514453	0.070316829	-3.463103435	0.000533983	0.004099811
COG8	218.0745784	-0.327993066	0.094721744	-3.462700878	0.000534783	0.004103025
ERAP2	496.9066522	0.626671416	0.180979202	3.462670889	0.000534842	0.004103025
MYO15A	29.179132	0.74795845	0.216052112	3.461935374	0.000536306	0.004112562
NUBPL	49.41363017	-0.789696373	0.228124217	-3.461694608	0.000536786	0.004114549
LOC10013:	54.91418113	-0.548916435	0.158665786	-3.459576571	0.000541025	0.004144436
NPTXR	7.192389782	-1.154067802	0.333591442	-3.459524608	0.00054113	0.004144436
DRD5	29.51971371	-0.665389306	0.192346836	-3.459320263	0.000541541	0.004145878
GAK	1130.484033	0.213950642	0.061856692	3.458811585	0.000542564	0.00415201
SLC25A46	668.3133239	-0.202705713	0.058609862	-3.458559781	0.000543072	0.004154187
ITPR3	50.1269576	0.671050515	0.194095852	3.457315072	0.000545587	0.00417
PKIA	106.600551	0.487684399	0.141054305	3.457422996	0.000545368	0.00417
LYRM1	89.45233204	0.43519595	0.125964232	3.454916852	0.000550463	0.004205543
PAQR5	1073.950507	0.338390946	0.097962217	3.454300604	0.000551722	0.004213438
RPL36	2736.290728	-0.241665661	0.069992894	-3.452717086	0.000554971	0.004236511
ZNF780B	222.9273113	-0.344243039	0.099717278	-3.4521905	0.000556055	0.00424305
ANGEL1	754.7347817	-0.313970912	0.091010849	-3.44981851	0.000560964	0.004278753
RTN4R	140.7482178	-0.391853489	0.11359565	-3.44954662	0.000561529	0.004281312
CYGB	378.7839614	-0.496441786	0.143933094	-3.449114957	0.000562427	0.004286408

GALNT11	349.165986	-0.243419418	0.070598171	-3.447956451	0.000564845	0.004303076
UBA52	3405.994981	-0.218753847	0.063459899	-3.447119379	0.000566598	0.004314667
C16orf88	69.86235572	-0.421462567	0.12228836	-3.446465119	0.000567972	0.004323361
DLGAP4	13.97004402	0.842519682	0.244528607	3.445485145	0.000570035	0.004333822
DUSP22	445.9626032	-0.31463526	0.091312406	-3.445701117	0.00056958	0.004333822
PROS1	350.6517369	-0.345743138	0.10034684	-3.445481058	0.000570044	0.004333822
SMAD2	927.5262263	-0.196112571	0.056920804	-3.445358399	0.000570303	0.004334021
RAB3D	22.19029521	-0.603112413	0.175163353	-3.443142657	0.000574996	0.004367906
HIP1R	4.580865835	1.840105647	0.534911736	3.440017341	0.000581677	0.004413356
SLC30A7	707.0864549	0.334796577	0.097323859	3.440025714	0.000581659	0.004413356
VAV3	92.78539862	-0.353649718	0.102804808	-3.440011483	0.00058169	0.004413356
PITPNA	942.4409725	0.228832619	0.06652829	3.439628766	0.000582513	0.004417802
GARNL3	5.74140258	-1.772016639	0.515256286	-3.439097566	0.000583657	0.004424679
TRAPPC5	561.8576174	-0.272882181	0.079367528	-3.438209386	0.000585575	0.004437413
RPL7A	3130.384577	-0.303927072	0.088399932	-3.438091709	0.000585829	0.004437538
LEPRE1	211.6517322	-0.413786611	0.120450412	-3.435327487	0.000591838	0.004481232
PCGF2	7.123664977	1.159421004	0.33752899	3.435026442	0.000592496	0.004484391
SCRN2	25.65090695	-0.836803992	0.243644419	-3.434529699	0.000593583	0.004490794
CLEC4D	30.97431141	1.091071974	0.317750613	3.433736804	0.000595322	0.004502122
C3orf52	1.414820388	2.990080959	0.871020723	3.432847094	0.000597279	0.004515089
PITPNC1	291.8869029	-0.273484537	0.079675351	-3.432486126	0.000598074	0.00451927
PTP4A2	1271.02479	-0.233017488	0.067891601	-3.432199059	0.000598708	0.004522223
CST2	48.62749531	-1.509324804	0.439794415	-3.431887154	0.000599397	0.004523865
LIG3	121.5838096	0.24883225	0.072506088	3.431880811	0.000599411	0.004523865
NR4A3	343.0124582	0.519624435	0.151472889	3.430478153	0.000602518	0.004545478
CPPED1	270.7792331	-0.306623759	0.089397574	-3.42988904	0.000603828	0.004553514
ANKRD33B	3.367125919	2.231601687	0.650907299	3.428447786	0.000607043	0.004575908
LY6G5C	43.68615596	-0.571580102	0.167009842	-3.422433648	0.000620632	0.004676452
ADIPOR2	667.7500559	0.343059743	0.100273768	3.421231206	0.000623383	0.004695279
UQCR11	1999.034169	-0.217116191	0.063469935	-3.420772238	0.000624436	0.00470131
SHPK	231.9487035	0.555260318	0.162359188	3.419950076	0.000626326	0.004713637
SLC47A1	1130.987173	-0.557181239	0.162945264	-3.419438076	0.000627506	0.004720609
LAMB1	195.9827876	0.441600119	0.129150539	3.419266547	0.000627902	0.00472168
SART3	418.101105	0.247579546	0.072457776	3.416880287	0.000633431	0.004761339
PSMD12	486.8365368	0.259401963	0.07594065	3.415851218	0.00063583	0.00477744
HERPUD2	655.6356549	0.233587388	0.068396828	3.415178651	0.000637402	0.004787323
GMEB2	82.5999584	0.326251428	0.095564797	3.413928974	0.000640333	0.004807397
MAP4K1	84.38696733	-0.580115898	0.169972268	-3.413003217	0.000642512	0.004821815
TMEM229I	114.1772494	0.503795286	0.147635764	3.412420345	0.000643887	0.004830192
ABHD16A	642.6783601	0.287001695	0.084116032	3.41197379	0.000644943	0.00483422
JOSD1	625.4817633	0.20568795	0.060283323	3.412020764	0.000644832	0.00483422
SWT1	21.80482645	0.602111749	0.176477271	3.411837378	0.000645266	0.004834695
SLC7A6	36.46535355	-0.526894486	0.154538173	-3.409477903	0.000650874	0.00487475
MYL12B	5714.739014	0.189607314	0.055646271	3.40736783	0.000655927	0.004909808
TGFB1	4416.315199	0.180236572	0.05289713	3.407303428	0.000656081	0.004909808
MED21	138.516686	-0.260437591	0.076471063	-3.405701216	0.000659944	0.004936728
GDE1	875.8124408	-0.305599965	0.089749619	-3.405027978	0.000661573	0.004940981
TIMP2	8406.170548	-0.265018913	0.077829654	-3.405114887	0.000661362	0.004940981
TTC39A	4.909149958	2.74201322	0.805219899	3.405297388	0.00066092	0.004940981

TXNDC16	26.44827289	-0.730152269	0.214424237	-3.405176016	0.000661214	0.004940981
CHID1	544.0527222	-0.295118757	0.086688227	-3.404369499	0.00066317	0.004950924
HPS4	278.0632481	-0.508240534	0.149300271	-3.404150111	0.000663703	0.004950935
SH3BGRL	4042.795272	-0.299201607	0.08789304	-3.404155856	0.000663689	0.004950935
MRPL39	284.1234563	0.195619704	0.057470685	3.403817197	0.000664512	0.004953007
MXD1	263.1444048	0.676207722	0.198657748	3.403882956	0.000664352	0.004953007
PTGER3	41.24923018	0.755355744	0.221977395	3.402849848	0.000666869	0.004968589
NPLOC4	1129.447544	0.340077335	0.09996323	3.402024282	0.000668887	0.004979727
SLC20A1	1667.063875	0.263619689	0.077489176	3.402019532	0.000668899	0.004979727
PAPSS1	1014.816001	0.380552447	0.111901444	3.400782284	0.000671933	0.005000321
RAD51B	11.16754188	0.759665274	0.223413892	3.400259794	0.000673219	0.005007886
RHOH	30.48780775	1.050192901	0.308967763	3.399037135	0.000676235	0.00502832
DDIT4L	4.91965562	-1.201807614	0.353600794	-3.398769554	0.000676897	0.005031234
OLFML2B	36.79618775	-0.728857405	0.21450619	-3.397838566	0.000679205	0.005046373
USP13	249.4557917	0.525940854	0.154859238	3.396251089	0.000683157	0.005073711
TRIM9	8.704329625	1.281750219	0.37747192	3.395617399	0.00068474	0.005081642
ZNF136	125.334512	-0.222425541	0.065503941	-3.395605456	0.00068477	0.005081642
CCDC134	177.3476995	0.308091087	0.090826186	3.39209537	0.000693603	0.005145142
PTOV1	674.8039155	-0.263251091	0.077614365	-3.391783096	0.000694394	0.00514896
SEL1L3	370.663341	-0.483638693	0.142622508	-3.391040439	0.000696278	0.005160879
CCDC102B	23.48728943	0.748434458	0.220717774	3.390911589	0.000696606	0.005161253
TNFAIP8L2	1130.322202	-0.236767814	0.069829744	-3.390644149	0.000697286	0.005164238
MTMR11	6.331827137	1.82263786	0.537645908	3.390033909	0.00069884	0.005173691
MEP1A	38.97363566	0.559656013	0.165117843	3.38943389	0.000700371	0.005182967
SH3KBP1	72.05719302	-0.433381211	0.127890124	-3.388699578	0.000702249	0.005194803
WASH2P	12.42937628	-0.794681772	0.234611446	-3.387225066	0.000706034	0.005220732
LOC100506	27.71354734	-0.628521585	0.185675336	-3.385056945	0.000711635	0.005260057
EXOC3L4	7.075671904	1.487147138	0.439398816	3.384504199	0.000713069	0.005266482
GMPR2	399.4493567	-0.373927092	0.110479723	-3.384576658	0.000712881	0.005266482
ITLN1	5.221856207	-1.853812059	0.547975289	-3.383021274	0.000716931	0.005292903
MVK	96.83510584	0.550482848	0.162760071	3.382173812	0.000719146	0.005307157
KIF21A	12.78385528	1.035126764	0.306102519	3.381634256	0.00072056	0.005315486
MAN1C1	39.80609732	-0.485168741	0.143480373	-3.381429336	0.000721098	0.005317347
IQCA1	5.428591495	-1.79822286	0.531831307	-3.381190306	0.000721725	0.00531987
TAF10	865.8213484	-0.247042993	0.073101566	-3.379448721	0.000726314	0.005351572
NDOR1	100.2841288	0.282523747	0.083604892	3.379272891	0.000726778	0.00535288
TFPI	395.5496155	0.404561093	0.11973465	3.378813842	0.000727993	0.005359707
MGMT	147.7627338	-0.349061157	0.10331366	-3.378654448	0.000728415	0.005360697
KHK	30.73282545	-0.527834113	0.156344243	-3.376102002	0.000735207	0.005408543
MAD1L1	254.1299494	-0.285744849	0.084644369	-3.375828228	0.000735939	0.005411791
RECK	39.20314606	-0.589918712	0.174935065	-3.372215358	0.000745661	0.005481124
NOP9	127.8886398	-0.23569585	0.069900533	-3.371874841	0.000746584	0.005485741
AOC3	699.1253999	-0.491465036	0.145812379	-3.370530264	0.000750237	0.00551041
SAP130	576.4651571	0.237529814	0.070479195	3.370211802	0.000751104	0.005514609
GRK5	52.11295145	0.730744916	0.216850637	3.369807552	0.000752207	0.005518315
RNASE1	12.66430829	-1.591343644	0.472247946	-3.369720628	0.000752444	0.005518315
SLC25A39	638.1474312	-0.223073976	0.066199929	-3.369701149	0.000752497	0.005518315
C6orf48	312.5770723	-0.390827581	0.116066458	-3.367274131	0.000759152	0.005564923
STOX2	24.16433852	-0.766406288	0.227659611	-3.366456984	0.000761405	0.005579242

IFT27	22.24250496	-0.650000145	0.193096431	-3.366194498	0.00076213	0.005582359
CBR3	11.95223617	0.771561824	0.229256634	3.365493991	0.000764067	0.005594354
ZFP161	174.1649058	-0.348311548	0.103515202	-3.364834737	0.000765895	0.005605535
APH1B	386.5491599	-0.232299719	0.069057042	-3.363881693	0.000768545	0.005622718
PAQR7	13.58062569	-0.937284544	0.278652216	-3.363635715	0.00076923	0.005625523
KCNAB2	2779.114921	-0.445834433	0.132621249	-3.361711904	0.000774609	0.005662638
FLJ39639	8.069346351	-1.33278259	0.396516028	-3.361232572	0.000775955	0.00567025
TCHP	288.8193298	-0.3197016	0.095122717	-3.360938468	0.000776781	0.005674066
ANKRD29	180.9631494	0.354455316	0.105483573	3.360289253	0.000778609	0.005685189
PTH2R	21.60690467	-0.633448247	0.188626761	-3.358209846	0.00078449	0.005725888
PWP2	174.6142214	-0.243750863	0.07261245	-3.356874226	0.00078829	0.005751366
KIAA0664	575.0435913	0.245103678	0.073024713	3.356448354	0.000789505	0.005757976
ATP1B4	11.8512781	1.317840194	0.392693128	3.355903372	0.000791062	0.005767077
SLC36A1	229.6284235	-0.782706469	0.233314788	-3.354722927	0.000794445	0.005789476
CDR2L	9.985704433	-0.833849955	0.248597488	-3.35421714	0.000795899	0.005795537
RPS11	12571.30796	-0.324701862	0.096802829	-3.354260037	0.000795775	0.005795537
SNX24	157.3151666	-0.385758951	0.115013601	-3.354028966	0.00079644	0.005797214
ASB8	217.7822642	-0.250730417	0.074781516	-3.352839443	0.000799871	0.005819912
POP5	192.3327021	-0.298352347	0.089018452	-3.351578689	0.000803522	0.005844196
C1orf233	94.83085566	-0.413295352	0.123324673	-3.351278728	0.000804393	0.005848247
SLC5A3	2294.490225	0.457826733	0.136627384	3.350914876	0.000805451	0.005853653
ERMP1	619.8032826	-0.281083486	0.083930118	-3.349018127	0.000810985	0.005888036
HAAO	173.5182693	0.605112227	0.18068614	3.348968704	0.00081113	0.005888036
HIST1H4C	766.4415189	-0.319263298	0.0953315	-3.348980126	0.000811096	0.005888036
PLEKHA4	25.63891252	0.880700496	0.26308694	3.347564483	0.00081525	0.005915643
NSUN2	780.2959714	0.186764762	0.055816951	3.346022314	0.000819798	0.005946328
AKR1C3	1082.899054	-0.324229452	0.096959126	-3.343980758	0.000825855	0.005987928
CNBP	3453.931724	0.217553886	0.065124249	3.34059724	0.000835984	0.006059014
INSR	157.4711998	-0.24838021	0.074368676	-3.339849821	0.000838237	0.006072982
LOC100240	28.77811509	-0.634012341	0.189843057	-3.339665666	0.000838793	0.006074648
SORT1	3797.628156	0.265518403	0.07951155	3.339368974	0.00083969	0.006078778
IGIP	107.0116645	-0.338839822	0.101498765	-3.338363984	0.000842733	0.00609844
DDA1	1121.019479	0.216567092	0.064883727	3.337772071	0.00084453	0.006109073
FERMT2	15.40245642	1.034946961	0.310166671	3.336744584	0.000847658	0.006129321
SUMO3	1290.760168	-0.254053504	0.076147842	-3.336319162	0.000848956	0.006136328
IL17RB	488.5284427	0.566378763	0.16994222	3.33277254	0.000859852	0.006212673
CBY1	42.07489758	-0.475700046	0.142801269	-3.331203216	0.000864715	0.006245384
SERPINB9	112.1044773	0.849876747	0.255143815	3.330971391	0.000865435	0.006248165
BAD	348.8088564	-0.308470483	0.092618754	-3.3305402	0.000866776	0.006255427
RHBDF1	16.2933076	0.681199693	0.204598291	3.329449581	0.000870178	0.006277546
SLA2	12.62808065	1.246183224	0.374343514	3.328983077	0.000871637	0.006285636
PRAM1	517.0430213	-0.351556945	0.105641428	-3.327832199	0.000875246	0.006309218
B9D1	31.89766331	-0.544962463	0.163764349	-3.327723438	0.000875587	0.006309241
NAA35	172.5459236	0.226613722	0.068115244	3.326916387	0.000878127	0.006325095
RAP2A	1901.290525	0.256506382	0.077120304	3.32605512	0.000880845	0.006342221
PTPLAD2	489.2289183	-0.347623059	0.104521263	-3.325859736	0.000881463	0.006344217
MID2	50.28895342	0.70587219	0.212330907	3.32439682	0.0008861	0.006375131
HSF4	7.648219046	-1.164270453	0.350267727	-3.323944406	0.000887539	0.006383018
TMEM99	34.90659919	-0.549548436	0.165351221	-3.323522102	0.000888884	0.006390224

ITFG2	362.6654461	-0.258748053	0.077873042	-3.322690976	0.000891536	0.006406821
FAM117A	181.4264386	-0.359758604	0.108291739	-3.322124183	0.000893349	0.006417375
FCGR2C	28.40177336	-0.661934198	0.199315294	-3.321040676	0.000896825	0.006439858
RWDD2A	109.0958524	0.322009072	0.097018718	3.319040679	0.000903273	0.006483661
ALDH18A1	135.7581901	-0.39582838	0.119268695	-3.318795255	0.000904067	0.006486863
MAP3K12	93.17992817	-0.441950217	0.133215781	-3.317551521	0.000908102	0.006513305
GOLT1B	641.2202487	0.218639125	0.065916647	3.316903023	0.000910212	0.00652593
PCYOX1L	119.3065929	-0.443711601	0.133789956	-3.316479168	0.000911594	0.006533323
UGGT1	449.7236355	-0.226686684	0.068361974	-3.315976272	0.000913236	0.006542575
ASRGL1	47.12473201	-1.132206887	0.341702491	-3.313428835	0.000921596	0.006599759
ZNF737	159.6992173	-0.399148354	0.120467484	-3.313328536	0.000921926	0.006599759
PSMA4	1201.854181	0.403993049	0.121966585	3.31232566	0.000925238	0.006620922
LMLN	161.2372295	0.296500728	0.089522046	3.312041449	0.000926178	0.006625107
PHF6	268.8802681	-0.190813327	0.057620663	-3.311543427	0.000927828	0.006634365
NCDN	86.2547939	0.290554634	0.087756319	3.310925503	0.00092988	0.006646481
RNF6	842.7406519	0.214673423	0.064840839	3.310774904	0.00093038	0.006647509
PRKAG2-A'	24.35700197	-0.604114401	0.182530627	-3.309660478	0.000934092	0.006671472
CIR1	1076.628752	0.204616135	0.06186296	3.307571034	0.000941088	0.006718866
RPL6	3121.53918	-0.514589044	0.155642406	-3.306226492	0.000945616	0.006748607
LBR	590.9665384	-0.194596282	0.058876616	-3.305153983	0.000949242	0.006771892
ALDH1A1	2277.313003	-0.58254786	0.176475534	-3.301012024	0.000963368	0.006870031
LOC10050!	44.12421207	-0.414005214	0.125446113	-3.300263386	0.000965941	0.00688348
TCEAL1	23.82952853	-0.61584094	0.18660441	-3.300248588	0.000965992	0.00688348
DIEXF	421.7666201	0.24783164	0.075116757	3.299285658	0.000969312	0.006901858
HSD17B12	1224.696961	0.331466948	0.100464226	3.29935304	0.00096908	0.006901858
HIST2H2AE	131.4179754	-0.383898097	0.116370879	-3.298918946	0.000970579	0.006908241
FAM40A	341.8782012	0.247826239	0.075131657	3.298559456	0.000971823	0.006914452
C5orf42	95.33937789	-0.390931492	0.118521915	-3.298389937	0.00097241	0.006915987
TOM1L2	374.5683594	-0.28309651	0.085832788	-3.298232716	0.000972955	0.006917221
LIMK2	260.2508871	0.619796487	0.187936656	3.297901012	0.000974105	0.006922756
KLF13	1243.734597	-0.222729167	0.067550897	-3.297205169	0.000976521	0.006937285
CORO6	16.55866928	-0.81926873	0.248611961	-3.29537134	0.000982917	0.006980059
ARL2BP	1019.929337	0.341305337	0.103613381	3.294027598	0.000987628	0.007010842
LOC10028'	25.7685382	-0.613436842	0.186238685	-3.293820731	0.000988355	0.007013332
PLAGL2	141.3247279	0.405126309	0.123117039	3.290578711	0.000999815	0.007091952
TDRD9	333.7820934	-0.395136092	0.12011133	-3.289748696	0.001002769	0.007110197
RPS9	2592.569742	-0.433230699	0.131745004	-3.288403245	0.001007574	0.00714155
MCOLN3	83.43392752	0.421388344	0.128178488	3.287512201	0.001010768	0.007159388
TPM2	45.54669075	-0.451231653	0.137257326	-3.287486843	0.001010859	0.007159388
ZNF781	2.117693343	-2.352384293	0.715636681	-3.287120905	0.001012174	0.007165974
L3HYPDH	49.95095428	-0.382614069	0.116438656	-3.285971193	0.001016314	0.007189824
SAP30BP	1155.894819	0.246583075	0.075041088	3.285974131	0.001016303	0.007189824
GPBAR1	102.3712665	0.669597766	0.20385574	3.284664767	0.001021038	0.0072205
CKS1B	183.9381312	0.403764379	0.122942421	3.284174631	0.001022815	0.007230326
DNAJC7	1006.174912	0.34631307	0.105459397	3.283852173	0.001023986	0.007235858
CLDN23	343.4675206	0.576014488	0.175433619	3.283375733	0.001025719	0.00724453
PIP5K1A	175.0472476	0.295391216	0.089967757	3.283300883	0.001025991	0.00724453
HSPA6	154.3946189	0.500324945	0.152441534	3.282077614	0.001030452	0.007273276
TLE2	37.59677439	-0.641305313	0.195462581	-3.280962057	0.001034537	0.007299339

PER1	232.0439054	0.250410851	0.076325131	3.280844023	0.00103497	0.007299631
ZNF554	7.164458202	-0.841816866	0.256595976	-3.28070954	0.001035463	0.007300348
PLEKHA7	22.91264895	0.841320777	0.256486512	3.280175523	0.001037425	0.007311415
SRSF12	5.365880397	1.966849095	0.599690348	3.279774474	0.001038901	0.007319048
RPS24	3.804867421	-1.728351272	0.527310686	-3.277671625	0.001046671	0.007370999
CD300LB	768.5989855	-0.404909713	0.123706679	-3.273143516	0.001063585	0.007487282
SMAD6	124.7044496	-0.324479798	0.099156954	-3.272385703	0.00106644	0.007504547
NRP2	3996.229055	0.466717459	0.142673338	3.271231086	0.001070804	0.007532411
MRPL48	81.87226942	-0.444060616	0.13576148	-3.270888145	0.001072103	0.007538705
FSTL1	5.607052498	1.351066053	0.413086491	3.270661433	0.001072963	0.007541905
ATP8B3	19.99493888	-0.700972697	0.214375511	-3.269835697	0.0010761	0.007561102
VCP	8265.111184	0.360548926	0.110375275	3.266573306	0.001088576	0.007645883
PAAF1	78.70212165	-0.425134888	0.130168056	-3.266046225	0.001090604	0.007654359
ZC2HC1A	113.6880789	-0.358947734	0.109900361	-3.266119686	0.001090322	0.007654359
LSM14B	260.044225	-0.309864854	0.094929159	-3.264169388	0.001097855	0.007702346
IFITM2	273.1315257	0.821930064	0.251829276	3.263838413	0.001099138	0.007708447
CCDC107	226.0709766	-0.234066223	0.071763137	-3.261649817	0.001107659	0.00776528
ADAP1	377.2957369	-0.372119039	0.114136415	-3.260300755	0.001112941	0.007796447
PDE4DIP	1712.922134	0.261569882	0.080226876	3.260377268	0.001112641	0.007796447
KBTBD2	327.464403	0.272024025	0.083443417	3.259981838	0.001114193	0.007802285
PSMC4	1414.810553	0.32121022	0.098581156	3.258332874	0.001120689	0.007844821
SNX30	702.8060161	-0.315040714	0.096729437	-3.256926996	0.001126254	0.007880817
ATP8B4	14.1955159	-0.995114779	0.305680625	-3.255406783	0.001132301	0.007920154
TES	359.0530542	0.284448392	0.087386796	3.255050035	0.001133724	0.007927134
MTRNR2L8	23.43475694	0.855158112	0.262732704	3.254859778	0.001134484	0.00792947
ZDHHC9	121.6624531	0.447554588	0.137517526	3.254527641	0.001135811	0.007935772
MED22	228.5399885	-0.224996499	0.069148722	-3.253805623	0.001138702	0.007952986
PBX3	772.7011653	-0.303719283	0.093369321	-3.252880916	0.001142414	0.007975922
EZR	1470.072007	0.281477472	0.086538094	3.252642364	0.001143373	0.00797963
ANXA7	2617.685109	0.229881702	0.070695226	3.251728793	0.001147054	0.00800135
GPR124	20.78044252	-1.014631315	0.312035161	-3.251656999	0.001147344	0.00800135
TMEM14B	236.4753212	-0.202280409	0.062280004	-3.247919041	0.001162523	0.008104176
ZNF688	122.8977714	0.361326627	0.111264074	3.247468972	0.001164364	0.008113968
SH2B1	232.2450379	-0.400290074	0.123274115	-3.247154312	0.001165652	0.008119908
SEPW1	99.09547048	-0.478644228	0.147410248	-3.247021378	0.001166196	0.008120666
SLC7A6OS	373.499636	-0.189627276	0.058442423	-3.244685368	0.001175805	0.008184514
NPRL3	260.2782487	-0.309154224	0.095290961	-3.244318448	0.00117732	0.008192005
ZNF271	245.3110344	-0.273816348	0.084406965	-3.244001839	0.00117863	0.008198055
VASP	452.4573638	0.484033754	0.14924356	3.243247184	0.001181756	0.008216734
WBP4	184.0577659	0.406888069	0.125475348	3.242772973	0.001183725	0.008227352
CAMTA1	135.0669154	0.47218424	0.145637535	3.242187796	0.001186158	0.008238828
MACF1	967.7865171	0.219985393	0.067853453	3.242066285	0.001186664	0.008238828
TNFSF8	15.62250505	-0.966031528	0.297968697	-3.24205709	0.001186702	0.008238828
LINC00113	3.950742348	2.86569419	0.884476884	3.239987662	0.001195349	0.008295765
DHCR24	856.9393008	0.408687701	0.126174488	3.23906765	0.001199211	0.008317359
PNPLA7	21.16568238	-0.841204892	0.259714683	-3.238957774	0.001199673	0.008317359
SELK	480.0399971	0.274237878	0.084669339	3.238927827	0.001199799	0.008317359
CD79A	33.6032393	0.714217764	0.220532156	3.238610533	0.001201135	0.008319733
CRAM	7.145987288	1.965716518	0.606960212	3.238625003	0.001201074	0.008319733

PDCD1	6.492619924	1.129065456	0.34863536	3.238528236	0.001201481	0.008319733
CCDC9	218.6284342	0.352333746	0.108798015	3.238420713	0.001201934	0.008319778
SLC35B4	270.3409587	-0.244551404	0.075525915	-3.237980042	0.001203792	0.008329545
ESR1	34.35749764	0.558708896	0.172559204	3.237780914	0.001204633	0.008331718
NUP153	762.0925477	0.218486132	0.067482024	3.237693813	0.001205001	0.008331718
GNB5	56.01376054	-0.450473292	0.139172642	-3.236794867	0.001208803	0.008354907
ZFP14	58.42016355	-0.469101826	0.144998439	-3.235219838	0.001215491	0.00839802
CCDC103	26.75371716	0.508909236	0.157312452	3.235021953	0.001216334	0.008400728
RDH10	353.0841466	-0.518591048	0.160329868	-3.234525516	0.00121845	0.008412228
NEFM	4.539560182	1.472168972	0.455190365	3.234183069	0.001219912	0.008419202
ATL3	877.7164038	-0.165711456	0.051244141	-3.233763944	0.001221704	0.008428445
VNN1	356.1785419	0.370875185	0.114695369	3.233567224	0.001222546	0.008431131
BTAF1	473.200981	0.214503513	0.066352755	3.232774767	0.001225942	0.008451424
KAT2A	19.66597935	-0.727853517	0.225220775	-3.231733465	0.001230418	0.008479143
LIN7A	7.055541265	-1.246571482	0.385742857	-3.231612609	0.001230938	0.008479594
GEMIN6	76.09474563	-0.387638959	0.11996876	-3.231165838	0.001232864	0.008489721
GPR137B	3937.704728	-0.19717295	0.061028006	-3.230860087	0.001234183	0.008495668
ARID3A	386.4826246	0.312716489	0.096827328	3.229630487	0.001239503	0.008525987
MAPK6	643.6828325	0.296334108	0.091754731	3.229633016	0.001239492	0.008525987
PUM2	947.900063	-0.178250575	0.055215516	-3.228269662	0.001245415	0.008563493
ZNF544	155.1719229	-0.319266675	0.098916504	-3.227638822	0.001248165	0.008579233
REEP4	90.46206385	-0.507677112	0.157305907	-3.227323886	0.001249539	0.008585515
FBXW8	56.97259394	-0.533342699	0.165325274	-3.226020349	0.001255244	0.008618358
KIF5B	3064.491474	0.298104114	0.092404285	3.226085401	0.001254959	0.008618358
MAN2A2	727.1425473	-0.35384441	0.109697269	-3.22564465	0.001256893	0.008626499
ENC1	80.48807789	-0.44107739	0.136763175	-3.225118091	0.001259207	0.0086392
#N/A	76.32255067	-0.458233935	0.142119927	-3.224276469	0.001262914	0.008661443
DGKD	83.14201859	-0.327621686	0.101620776	-3.223963619	0.001264295	0.008667721
CCDC91	654.8764782	-0.176201476	0.054687594	-3.221964326	0.00127315	0.00872522
ZNF625	109.288579	-0.667614416	0.20725208	-3.221267622	0.001276249	0.008743245
EIF5	831.7814777	0.268129655	0.083274902	3.219813527	0.00128274	0.008784483
TREML1	6.933048138	-1.342957723	0.41715339	-3.219337909	0.00128487	0.008795835
LHFPL2	80.30914587	0.475353293	0.147673873	3.21893971	0.001286655	0.008804824
ZNF618	52.5200869	0.501964869	0.156043093	3.216834922	0.001296132	0.008866415
MTSS1	37.29026448	0.592363785	0.184198124	3.215905628	0.001300336	0.008891911
ABHD14A	37.27974726	-0.565713771	0.175923194	-3.215686105	0.001301331	0.008895451
ATOX1	4638.584726	0.288555246	0.089738413	3.215515378	0.001302105	0.00889748
DNAJB6	2306.44985	0.299201835	0.093052687	3.215402408	0.001302618	0.00889772
HDAC7	222.5462751	0.315049428	0.098045377	3.213302237	0.001312181	0.008949922
MDM4	274.4888686	0.318410591	0.099088364	3.213400433	0.001311733	0.008949922
RAB39A	96.64753887	0.370997874	0.11545573	3.213334441	0.001312034	0.008949922
WAS	1722.833319	-0.380738988	0.11847981	-3.213534769	0.001311119	0.008949922
CLIC2	592.6634471	0.257141499	0.080067271	3.211568158	0.001320127	0.009000819
LINC00094	35.96817633	-0.471570537	0.146845857	-3.211330202	0.00132122	0.009004981
PSMC6	1342.308417	0.200667989	0.062500028	3.210686369	0.001324184	0.009021879
LMO4	740.918401	0.94288251	0.294086821	3.206136567	0.001345301	0.009162406
PPP1R12A	107.8637078	0.284363542	0.088745312	3.20426549	0.001354076	0.009218795
EPHX2	2.812977133	-1.98894224	0.620875321	-3.203448701	0.001357922	0.009237176
RPL13AP6	48.36020303	0.452606054	0.141290305	3.203376587	0.001358262	0.009237176

WTAP	215.679645	0.535714435	0.167233457	3.203392702	0.001358186	0.009237176
FANCE	60.2196125	0.707729417	0.2211065	3.200853058	0.001370214	0.009315055
ZMIZ2	1087.652478	0.277348695	0.086659314	3.20044877	0.001372138	0.009324731
LCLAT1	122.9270891	-0.208858471	0.065266036	-3.200109617	0.001373753	0.009332307
BCAS3	131.9673847	-0.337727279	0.105572188	-3.199017526	0.001378968	0.009364317
SNX9	78.76751558	0.327462412	0.102382717	3.198414957	0.001381853	0.00938049
ALG1	170.7203546	-0.276239282	0.086410234	-3.196835227	0.001389443	0.009425146
STAC	446.8428201	0.552672171	0.172878895	3.196874733	0.001389252	0.009425146
SLC25A40	377.5721491	0.302218592	0.094564531	3.195897951	0.001393964	0.009452375
CSRNP2	49.71405976	0.491600557	0.15385489	3.195222186	0.001397232	0.009467646
FAIM2	42.28703457	0.955643495	0.299079264	3.195285029	0.001396928	0.009467646
NFATC1	62.60688448	-0.425367439	0.133156785	-3.194485664	0.001400802	0.009488387
EIF4A2	4489.102569	-0.207163857	0.064945895	-3.189791387	0.001423755	0.009638278
SIGLEC7	132.7298992	-0.470719659	0.147572649	-3.189748645	0.001423966	0.009638278
TIMM13	230.2929476	-0.228247221	0.0715784	-3.188772327	0.001428784	0.009667376
SNRNP25	69.37822053	-0.511054566	0.16031093	-3.187895966	0.001433121	0.009693203
EEF1A1	51947.92577	-0.307389204	0.09649377	-3.185586012	0.001444612	0.009767377
XXYL1	9.127383927	-0.814300019	0.255658472	-3.185108681	0.001446997	0.009779954
PRX	4.512595489	-1.264996606	0.397312489	-3.183883318	0.001453136	0.009817887
CIB1	911.9659935	-0.178619085	0.056104438	-3.18368907	0.001454111	0.009820916
P2RY6	17.2186804	-0.901337138	0.283234443	-3.182300602	0.001461101	0.009864548
EPOR	24.46076992	-0.741721654	0.233140671	-3.181433982	0.001465479	0.009890525
LSM7	658.4788297	-0.175200855	0.055099505	-3.179717425	0.001474187	0.009945694
GRB10	80.58685682	-0.656462495	0.20650457	-3.178924778	0.001478224	0.009969321
MAN1A2	184.194824	-0.27624616	0.086913898	-3.178388804	0.00148096	0.009984157
ZMYND10	6.985845561	-1.179192992	0.37109303	-3.177620965	0.001484887	0.010007013
HDAC9	15.16059988	0.582584402	0.183455608	3.175615117	0.001495192	0.010072814
DECR2	121.8662589	-0.351989483	0.110917127	-3.173445735	0.001506411	0.010144725
SLC35B2	60.40551762	-0.607224394	0.1913555	-3.173279021	0.001507276	0.010146886
PDIA3P	5828.311314	0.187401243	0.059060483	3.173039483	0.00150852	0.010151594
PFAS	59.10506425	-0.453357117	0.142895147	-3.172655802	0.001510515	0.010161348
MCMBP	715.0468692	0.245790506	0.077485846	3.172069732	0.001513567	0.010178203
KIAA1429	236.9831206	-0.239237373	0.07542409	-3.171896043	0.001514472	0.010180618
PEX13	524.3931271	0.205555595	0.064821953	3.171079948	0.001518733	0.010205582
UNC93B1	2099.568891	0.325169428	0.102551637	3.170787311	0.001520264	0.010212185
DBF4	134.5106515	0.433375716	0.136707552	3.170093454	0.001523899	0.010232914
GSDMD	981.8058514	0.370770901	0.116990237	3.169246523	0.001528347	0.010259084
PPP1R3G	21.24972721	-0.804097976	0.253951703	-3.166342126	0.001543691	0.010358351
NIP7	458.8082975	0.261741059	0.082707569	3.164656673	0.001552266	0.010414786
NCLN	1749.455975	0.445177153	0.140739746	3.163123173	0.001560863	0.010466037
LRRC59	3418.658821	0.171916097	0.054369218	3.162011586	0.001566833	0.010502292
NT5C3L	512.1131076	-0.195525498	0.061841598	-3.161714839	0.001568431	0.010508667
XPC	449.2272546	0.254811905	0.080595223	3.161625426	0.001568912	0.010508667
RAB3IP	47.71223743	0.397982948	0.12590895	3.160878928	0.001572939	0.01053185
KLF3	716.7259118	-0.438678974	0.138821644	-3.16001857	0.001577591	0.010559205
CPNE2	477.1283422	-0.304743651	0.09646879	-3.158986982	0.001583186	0.010589046
PSMB8	473.8056281	0.676918235	0.214278759	3.159054305	0.00158282	0.010589046
GLB1	2051.180716	-0.193894426	0.061392471	-3.158276963	0.001587047	0.010611063
CCR5	200.0246814	0.478090675	0.151393298	3.157938175	0.001588893	0.010619592

CTDSPL	16.11741134	-0.66972718	0.212268643	-3.155092386	0.001604473	0.010719881
LOC100630	31.94393811	-0.483945285	0.153405509	-3.154679964	0.001606743	0.010731197
PARVA	29.01877095	0.629379324	0.199520222	3.154463828	0.001607933	0.010735301
NT5C3	205.3374515	0.255583199	0.081031444	3.154123707	0.001609808	0.010741953
SPATS2L	214.6440415	0.527676109	0.167299849	3.154074023	0.001610082	0.010741953
C12orf52	42.24894455	-0.43023272	0.13642335	-3.153658951	0.001612374	0.010753392
A2M-AS1	6.170685012	-1.001202989	0.317520051	-3.153196113	0.001614933	0.010766603
CHPF	95.52142091	0.405521609	0.128690194	3.151146146	0.001626311	0.010838583
NMNAT1	191.3877544	-0.266511531	0.084614128	-3.149728517	0.001634222	0.010887416
RASGRF1	5.298777982	1.54921508	0.492245403	3.147241338	0.001648189	0.010976536
R3HDM4	289.3626082	0.328109095	0.104303084	3.145727645	0.001656742	0.011029558
ATP7B	2.304494542	-1.53692025	0.488724846	-3.144755711	0.001662256	0.011062312
NRGN	7.834050104	-1.052995694	0.334861531	-3.144570504	0.001663308	0.011065365
EIF4G1	5490.374625	0.310719618	0.098826351	3.144096849	0.001666003	0.011079336
CAMK2G	45.37579155	-0.452402855	0.143908634	-3.143681123	0.001668371	0.011091128
TIE1	142.9915282	0.594709581	0.189183766	3.143555033	0.00166909	0.01109195
FKBP7	4.439848149	-1.409963123	0.448552146	-3.143365013	0.001670174	0.011095197
KDM5B	211.8328135	0.25191326	0.080149006	3.143061552	0.001671907	0.011101761
TTLL4	610.3593322	-0.246858567	0.078542756	-3.142983266	0.001672354	0.011101761
ABCB5	23.1747584	0.876447914	0.278914484	3.142353528	0.001675955	0.011121707
PWWP2B	116.2006863	-0.290489661	0.092455127	-3.141952979	0.00167825	0.011132968
FAM58A	119.6934739	-0.243645506	0.077555159	-3.141577029	0.001680406	0.011143304
COX5B	2298.550961	0.209373763	0.066658309	3.14100022	0.001683719	0.011161302
B2M	91742.52397	0.307808487	0.098042207	3.139550766	0.001692071	0.011212678
FBXO18	6.983741726	-0.80626917	0.256874545	-3.138766315	0.001696607	0.011234745
LIPA	24559.56893	-0.419713465	0.133716024	-3.138841958	0.001696169	0.011234745
OSBPL1A	834.9354648	-0.34944065	0.111350121	-3.138215265	0.0016998	0.011251891
GPANK1	132.8001761	0.27304976	0.087039603	3.137074975	0.001706425	0.01128934
HLTF	188.4394649	-0.423171735	0.134895531	-3.137033029	0.001706669	0.01128934
PIGM	87.65192573	-0.460131412	0.146761073	-3.13524154	0.001717127	0.011354485
GATAD2A	1772.913977	0.163123263	0.052030775	3.13513037	0.001717778	0.011354759
MOB3A	403.6884731	-0.35051133	0.111816935	-3.13468912	0.001720363	0.011367818
PSMC1	988.1412311	0.233354	0.074458956	3.133995061	0.001724438	0.011390702
EFCAB11	24.43763349	-0.555968235	0.177412902	-3.133753116	0.00172586	0.011396058
METTL2A	123.6061101	0.218498297	0.069735096	3.133261561	0.001728753	0.011411118
POFUT2	189.6774174	-0.266898003	0.085190189	-3.132966442	0.001730492	0.011418553
TCEB1	1763.271049	0.201399583	0.064342676	3.130108915	0.001747415	0.011526135
METTL20	6.884781635	-0.819645036	0.261911469	-3.129473628	0.001751198	0.011547
RPP30	29.76182976	0.332286017	0.106217822	3.128345236	0.001757936	0.011587327
ARL14EP	131.2336591	-0.429888976	0.137435434	-3.127934068	0.001760397	0.011599445
NMRK1	168.2765282	-0.292116594	0.093440027	-3.126246895	0.001770528	0.011662081
YWHAB	1961.050331	-0.261806231	0.083748881	-3.126086325	0.001771495	0.011664327
SERPINH1	498.0027635	0.270631395	0.086576522	3.125921308	0.00177249	0.011666752
BMF	506.5837015	-0.384537489	0.123047438	-3.12511576	0.001777351	0.011694618
FUT10	162.9540745	-0.264162958	0.084549469	-3.124359751	0.001781924	0.011720572
ARHGEF12	321.8570081	0.351438412	0.112495952	3.124009416	0.001784047	0.011730395
CACYBP	395.5056863	-0.378798677	0.121262344	-3.123794783	0.001785349	0.011734814
UAP1L1	364.8028273	-0.260730159	0.083480226	-3.12325649	0.001788618	0.011752154
FAM171A2	4.922047081	-1.582846739	0.507078374	-3.121503147	0.001799303	0.011818194

RPL35A	46.34760945	-0.799430618	0.256124617	-3.121256478	0.001800811	0.011823931
STK11	219.4246312	-0.354822209	0.113694036	-3.120851561	0.001803289	0.01183603
CBLB	115.7055095	0.356125422	0.114145013	3.119938524	0.001808888	0.011868597
SPINT2	1158.936739	-0.284127853	0.091101727	-3.11879767	0.001815906	0.011910452
C20orf96	85.06190818	-0.400875727	0.128548174	-3.118486351	0.001817826	0.011918847
FER1L6	5.745733	1.322510164	0.424175347	3.117838346	0.001821827	0.011940881
SLU7	1216.481856	0.175992329	0.056460225	3.117102872	0.001826378	0.011966503
AP3S2	319.0502694	0.158828152	0.050985901	3.115138663	0.001838585	0.012042244
CLEC10A	13.04055858	-1.104990952	0.35515994	-3.111248841	0.001862979	0.012197732
FAM213A	962.7127501	0.33345135	0.107204026	3.110436831	0.001868108	0.012227023
ARHGEF9	65.33461659	-0.452990575	0.145641708	-3.110308034	0.001868923	0.012228061
SOBP	42.03315843	0.577579534	0.185705878	3.110184457	0.001869705	0.012228884
CEP135	97.50764486	0.31968344	0.102824726	3.109013283	0.001877133	0.0122273155
PSMB1	1806.523254	0.188364444	0.060590628	3.108804978	0.001878457	0.0122275458
TRIM21	373.0688159	0.378404396	0.12172234	3.108750586	0.001878802	0.0122275458
MFN1	287.4845198	0.406931026	0.130934073	3.107907798	0.001884168	0.012306202
PPP1R16B	26.94008548	0.944993751	0.304164614	3.106849741	0.001890925	0.012346003
HOMER1	317.9751302	0.396159815	0.127526883	3.106480797	0.001893286	0.01235709
TMEM187	52.76764989	-0.344139317	0.110810532	-3.105655297	0.001898579	0.012387297
MLKL	427.9323939	0.322749339	0.103928121	3.1055054	0.001899542	0.012389239
XBP1	1075.736607	0.326369679	0.105107954	3.105090224	0.00190221	0.012402302
CAST	3413.295003	0.18240945	0.05877865	3.103328334	0.001913572	0.012467658
ZNHIT1	418.2844113	-0.2485699	0.080097433	-3.103344144	0.00191347	0.012467658
CMTM6	1284.996899	0.285784126	0.092116185	3.102431183	0.001919382	0.012501139
PCED1A	326.6999937	-0.280378691	0.090482817	-3.098695437	0.001943747	0.012655411
SCARB2	2793.844922	0.247835875	0.080042945	3.096286293	0.001959611	0.012749785
SCML1	4.577812203	1.390426612	0.449060711	3.096299851	0.001959521	0.012749785
CHAMP1	126.4193552	-0.270911827	0.087502959	-3.096030488	0.001961302	0.012756335
ARHGAP5	296.3633157	0.302531312	0.097786526	3.093793421	0.00197615	0.012848425
CHD1L	148.3233096	-0.315983296	0.102165536	-3.092856046	0.001982403	0.01288458
PNPLA2	1397.141188	-0.221875139	0.071748593	-3.092397079	0.001985471	0.012900021
APLN	2.381659442	-1.953634206	0.631924869	-3.091560884	0.001991071	0.012931902
DYNLL2	558.8303794	-0.22160397	0.071691681	-3.091069536	0.001994369	0.012944297
LOC28483	10.32167142	-0.972516333	0.31461179	-3.091163021	0.001993741	0.012944297
ZNF684	77.65740876	0.418924157	0.13554101	3.090755748	0.001996478	0.012953471
RTN2	43.83211629	0.51973119	0.168259446	3.088867827	0.002009208	0.013031529
CD37	2678.487686	-0.498735954	0.161471962	-3.08868454	0.002010448	0.013035033
FCGRT	2044.0235	-0.433922971	0.140516048	-3.088067005	0.00201463	0.013057608
SLC35C2	899.9722605	0.301152809	0.09752989	3.087800157	0.00201644	0.013064794
C17orf53	8.550639573	0.973657718	0.315337657	3.087667125	0.002017343	0.0130661
RND3	666.7701643	0.526395189	0.170490347	3.087536622	0.002018229	0.013067297
KCTD6	119.4495569	-0.400463815	0.129751208	-3.086397572	0.002025977	0.013112908
C17orf61	149.5112656	-0.53363851	0.172954966	-3.085418834	0.002032657	0.013151573
S100A1	97.36324628	0.685464109	0.222223004	3.084577631	0.002038414	0.013184244
CBX8	30.68508212	-0.389043376	0.126181079	-3.083214848	0.002047773	0.013240178
ETV5	56.1517822	-0.523939034	0.169978691	-3.082380691	0.00205352	0.013272736
CHTOP	266.8957303	0.22354991	0.072536862	3.081880069	0.002056977	0.013290468
LRR61	32.81771637	0.922089221	0.299254247	3.081290336	0.002061056	0.013312205
COL7A1	9.166648155	1.036572731	0.336430697	3.08108844	0.002062454	0.01331662

PER3	187.2076894	-0.555242066	0.180231319	-3.080719099	0.002065014	0.013328529
ALPK1	338.9642354	0.235586647	0.0764896	3.079982712	0.002070126	0.013356901
AGFG2	114.1802649	0.354191833	0.115010048	3.07965989	0.002072371	0.013366757
CYP20A1	437.4063655	-0.186544538	0.060578168	-3.079402089	0.002074165	0.013373701
RNASEH2B	183.1586752	-0.423654674	0.137595522	-3.078985916	0.002077065	0.013387765
MCM6	325.4364921	-0.294640322	0.095697437	-3.078873686	0.002077848	0.013388178
FAM72A	23.06538926	0.70326603	0.228450829	3.078413125	0.002081062	0.013399623
GABRR2	10.02908569	1.001465333	0.325311838	3.078477993	0.002080609	0.013399623
PPDPF	1687.000681	0.27152247	0.088237606	3.077174022	0.002089733	0.013450804
MGST3	7483.109368	-0.184908373	0.06011728	-3.075794064	0.002099428	0.013508543
SULT1C2	116.6191906	1.001729004	0.325829278	3.074398384	0.002109276	0.013567222
NCKAP1L	4335.890184	-0.216749811	0.070575379	-3.071181664	0.002132134	0.013709518
FAM172A	178.7848048	-0.250157487	0.08146914	-3.070579713	0.002136436	0.013727729
MIOS	212.7495037	-0.27331711	0.089011579	-3.070579287	0.00213644	0.013727729
SPR	727.7664418	0.391477207	0.127508154	3.070213111	0.002139061	0.013739834
PSTPIP1	79.70445147	0.498600797	0.162439768	3.069450315	0.002144531	0.013770223
AGPAT9	1086.683378	0.41519004	0.135326667	3.06805782	0.002154549	0.013829568
MAPK1	987.9074292	0.229466881	0.074794622	3.067959622	0.002155257	0.013829568
ASAP1	2411.066535	0.337191093	0.10992466	3.067474522	0.002158759	0.013847266
FAM122B	471.3556555	0.321229256	0.104759582	3.066347251	0.002166915	0.013894801
FAM210B	299.670349	-0.211700458	0.069060477	-3.065435777	0.002173531	0.013932428
ICT1	274.0111777	0.15434768	0.050352735	3.065328612	0.00217431	0.013932629
THAP11	400.4653724	-0.213718616	0.069731548	-3.064876967	0.002177596	0.013948888
ZNF362	93.72794188	-0.556714924	0.181718648	-3.063609212	0.002186844	0.014003314
CLEC12A	204.6787188	-0.472532151	0.154247422	-3.063468706	0.002187871	0.014005079
RFX5	664.8439057	0.20662151	0.067476944	3.062105315	0.002197861	0.014064198
NFKBID	107.0834909	0.253689057	0.082855	3.061843688	0.002199783	0.014066834
TXNIP	4768.671732	-0.364896285	0.119174091	-3.061875973	0.002199546	0.014066834
COMMD1	790.951949	0.120346103	0.039309896	3.061470915	0.002202524	0.01407953
ACTRT3	14.33250132	0.825542924	0.269733111	3.060591714	0.002209001	0.014116092
FUZ	73.78702832	-0.330304623	0.107944822	-3.059939482	0.002213817	0.014140776
KLF12	16.08243766	-0.5436895	0.177684253	-3.05986316	0.002214381	0.014140776
CCNB2	81.11695789	0.391674598	0.128091916	3.057762035	0.002229966	0.014235417
LYRM5	33.94477993	-0.581121972	0.190137191	-3.056329857	0.002240646	0.014298698
CLIC1	19142.79987	0.217339649	0.071130502	3.055505619	0.002246814	0.01433315
MGC57346	28.92585302	-0.388672588	0.127211407	-3.055328109	0.002248144	0.014336728
C1GALT1	185.0713197	0.257111243	0.084173964	3.054522207	0.002254193	0.014370386
CDC20	5.996617461	0.948136182	0.310474039	3.053834017	0.00225937	0.014398464
CENPN	173.165469	0.359500461	0.117743092	3.053261605	0.002263685	0.014418651
PLCL1	56.31990623	0.504205802	0.165139656	3.053208503	0.002264086	0.014418651
ATP6V0D2	708.9643495	0.244431967	0.08007427	3.052565661	0.002268941	0.014444634
MYO9B	1812.755903	-0.326877716	0.107112346	-3.051727719	0.002275284	0.014480068
TMEM199	325.1672549	0.213571066	0.070000073	3.051012048	0.002280714	0.014509672
PDLIM2	49.85252006	-0.501169386	0.164326116	-3.049846227	0.002289586	0.014561139
DUT	159.4611087	-0.56094498	0.183962796	-3.049230561	0.002294283	0.014576091
SLMO2	791.0387835	0.276627962	0.090718642	3.04929565	0.002293786	0.014576091
TSPAN14	1119.406184	-0.225802269	0.074051215	-3.049271647	0.00229397	0.014576091
PPP1R3B	105.1453876	-0.295031427	0.096765554	-3.048930269	0.002296578	0.014585696
NEDD9	43.2067207	0.547995753	0.179745686	3.048728266	0.002298122	0.014590533

YES1	43.94940369	0.607397233	0.19927707	3.048003631	0.002303671	0.014620781
SH2D3A	7.701381835	1.129159251	0.370477102	3.047851664	0.002304837	0.01462225
TTC39C	46.58919178	-0.531400068	0.174357079	-3.047768806	0.002305472	0.01462225
GK	7.650494043	1.128928683	0.370570391	3.04646218	0.002315516	0.014680955
C7orf57	10.66785673	1.093902262	0.359088286	3.046332351	0.002316516	0.0146823
PION	1583.860974	-0.207605184	0.068153824	-3.046126727	0.002318101	0.014682358
TCEAL4	406.0828091	-0.332013499	0.108992999	-3.046191062	0.002317605	0.014682358
CD163	2979.225706	-0.334608825	0.109911151	-3.044357384	0.00233178	0.014763976
GLT8D1	295.0163475	-0.218771146	0.071875091	-3.043768632	0.002336347	0.014783354
PSMA6	3168.61351	0.501741818	0.164842852	3.043758407	0.002336427	0.014783354
MLLT3	8.887001522	-0.728709556	0.239429281	-3.043527309	0.002338222	0.014789692
ZDHHCS	836.6449565	0.221800558	0.072894886	3.042745091	0.002344308	0.014823156
NXF1	541.5848101	0.274903019	0.090415965	3.040425651	0.00236244	0.014932547
PI4KB	575.1121421	0.258127468	0.084901209	3.040327351	0.002363211	0.014932547
GPR157	372.8857654	0.390258546	0.128372154	3.040056077	0.002365341	0.014937757
PVRL4	17.01511309	0.896265619	0.29482246	3.040018116	0.002365639	0.014937757
ZMYM6	263.3285561	-0.224851233	0.073975059	-3.03955463	0.002369282	0.014955693
TMEM241	65.41699992	0.396097784	0.130332577	3.039131067	0.002372616	0.014971665
C1orf63	135.5555841	0.261624651	0.0861022	3.038536189	0.002377305	0.014986032
GALNT6	226.7926835	0.30088957	0.09902361	3.038563936	0.002377087	0.014986032
SIX5	6.087914807	1.445797205	0.475808952	3.038608667	0.002376734	0.014986032
SAT1	11231.837	0.46797194	0.154050301	3.037786601	0.002383227	0.015018277
MAT2B	1335.933858	0.272076498	0.089590545	3.036888518	0.002390338	0.015052912
PPM1K	286.6415563	0.276024141	0.090887625	3.036982668	0.002389592	0.015052912
EXOC6B	135.4751207	-0.246822402	0.081282175	-3.036611683	0.002392535	0.015061652
SF3B4	40.66831712	0.612383416	0.201703863	3.036051993	0.00239698	0.015084542
GPRIN3	1169.398086	-0.314888146	0.103722258	-3.035878235	0.002398362	0.015088142
APLP2	9983.554579	-0.376720217	0.124151505	-3.034358842	0.002410475	0.015159229
HTATIP2	360.1380224	0.274961438	0.090647757	3.033295538	0.002418986	0.015207618
MSL3	422.5764203	0.327125851	0.107859695	3.032883153	0.002422294	0.015223279
STAC2	10.68488804	0.767802082	0.253202007	3.032369648	0.002426419	0.015244061
BLOC1S5	319.0109588	0.172327656	0.056834044	3.03212029	0.002428424	0.015251518
PPAPDC1B	209.3371214	0.217522532	0.071764107	3.031076982	0.002436831	0.015299161
STX8	308.8813071	-0.210532103	0.069479331	-3.030140044	0.002444404	0.015341535
TMEM42	64.90224643	-0.301540601	0.09956699	-3.028519806	0.00245755	0.015418849
HYOU1	1050.004333	0.168054497	0.055494953	3.028284332	0.002459466	0.015423236
THBD	361.8829732	-0.476590566	0.15738253	-3.028230423	0.002459904	0.015423236
KCNIP2	6.019727718	-1.012772487	0.334498066	-3.027737946	0.002463917	0.015443195
CPT1A	506.4855142	-0.255409319	0.084361282	-3.027565656	0.002465322	0.015446806
CSPG4	66.32239783	0.615372794	0.203307419	3.02680934	0.002471498	0.015476095
VPS37C	828.9149528	0.218569128	0.07221153	3.02678987	0.002471657	0.015476095
ABCB6	84.51982537	0.557247885	0.184119214	3.026560199	0.002473536	0.015482655
CHP1	1883.948955	-0.255725961	0.084581219	-3.023436685	0.002499213	0.015638126
LOC100126	2.764168682	2.04917132	0.677820933	3.023175032	0.002501375	0.01564115
SETD5	442.7445268	0.248152317	0.082081968	3.023225706	0.002500956	0.01564115
UBE2V1	52.60605397	-0.35253919	0.116619651	-3.022982725	0.002502965	0.015645842
VDAC1	1695.914164	0.193787634	0.064161395	3.020315153	0.002525118	0.015779023
SNRPA1	1024.549959	0.3453143	0.114363081	3.019456065	0.00253229	0.015818537
NFE2L1	1394.893278	0.257366242	0.085255605	3.018760377	0.002538112	0.01584959

PTK6	19.76202606	0.700942703	0.232246565	3.018097184	0.002543673	0.015878997
PSMB4	2932.533854	0.205735753	0.068194916	3.016878151	0.002553924	0.015937652
SUGP2	319.183075	-0.278232237	0.092253553	-3.015951461	0.002561743	0.015981089
MRPL30	157.2946906	-0.358778007	0.118970188	-3.015696721	0.002563896	0.015989167
FAM46C	18.00919166	0.88024742	0.291937764	3.015188609	0.002568195	0.016010621
CYFIP1	1993.242374	-0.192052852	0.063721218	-3.013954517	0.002578665	0.016070514
DTWD2	210.0717051	-0.369997531	0.122790146	-3.013250999	0.00258465	0.016102433
TMX2	1591.497881	0.124919784	0.041462981	3.012802775	0.002588471	0.016120844
FAM35A	235.1921739	-0.227535869	0.07553103	-3.012482017	0.002591208	0.016132498
SLC16A13	58.04909117	0.458070727	0.152078125	3.012075061	0.002594684	0.016148747
KCNJ10	10.34692782	-0.831140189	0.275945585	-3.011971319	0.002595571	0.016148873
EIF2S3	2248.284835	-0.271015668	0.089998036	-3.011350923	0.002600881	0.016165889
FOXP1	534.3926896	-0.377579061	0.12538541	-3.011347651	0.002600909	0.016165889
TNFSF13B	399.226596	0.512064061	0.170036886	3.011488108	0.002599706	0.016165889
ADCK2	419.8449047	0.216194372	0.071813427	3.010500693	0.002608174	0.016205637
MFSD7	610.7619249	0.386985189	0.128559703	3.010159323	0.002611107	0.016218455
SRPR	1112.328276	0.177207026	0.058878786	3.009692259	0.002615125	0.016238001
ZNF549	24.41379673	-0.487488623	0.162037813	-3.00848681	0.002625522	0.016297127
EVI5	249.2274306	-0.289062387	0.096119136	-3.007334412	0.002635497	0.016353594
EDF1	1211.87866	0.380836838	0.126663283	3.006686923	0.002641116	0.016383009
FAM70A	395.9274809	-0.342221399	0.11383009	-3.006422988	0.00264341	0.016386598
ZNF192	273.363057	-0.293632738	0.097668634	-3.006417975	0.002643454	0.016386598
SLC39A13	104.4757301	0.509312928	0.169472055	3.005291516	0.002653264	0.016441944
SGPP1	1661.293558	0.233311974	0.077689123	3.003148523	0.00267202	0.016552666
PLAGL1	215.6643463	0.291634004	0.097217748	2.999802095	0.002701551	0.016724484
WDR77	251.4307619	-0.239590439	0.079868693	-2.99980419	0.002701532	0.016724484
ATP5G2	2981.348376	-0.312988397	0.10434399	-2.999582407	0.0027035	0.016725437
LPIN2	917.5203405	0.221964224	0.073997082	2.999634818	0.002703035	0.016725437
GSK3A	1374.413847	0.174140807	0.058069447	2.998837039	0.002710122	0.016760842
SULT1B1	2.998259921	-2.290102417	0.76407151	-2.997235713	0.0027244	0.016843551
MECR	59.9650716	-0.37487735	0.125091735	-2.996819491	0.002728122	0.01686097
FAAH	3.847854408	-1.252390377	0.417986037	-2.996249314	0.002733229	0.016886931
CHAF1B	17.79743188	0.575332488	0.192044995	2.995821302	0.002737068	0.016905045
PPM1H	51.09071568	-0.637972984	0.212991559	-2.995297034	0.002741777	0.01692852
RGS19	141.0636184	-0.326582724	0.10903705	-2.995153711	0.002743066	0.016930867
AIFM3	34.74162815	-0.496802197	0.165886796	-2.994826647	0.002746009	0.01693781
SMARCC1	616.1174155	-0.233443599	0.077947227	-2.994892908	0.002745412	0.01693781
SPTAN1	2344.087271	0.382629411	0.127776931	2.994510878	0.002748853	0.016949741
DDRGK1	1013.091751	0.200618518	0.067023327	2.993264085	0.002760108	0.017013514
NOTCH1	494.9484348	-0.401898467	0.134377379	-2.99081937	0.0027823	0.017144637
EIF2C4	581.3826222	-0.230598765	0.07713276	-2.989634569	0.002793114	0.017205581
KLHL28	207.4162062	0.339864612	0.113699543	2.989146681	0.002797578	0.017227385
TWF1	482.8518498	0.243727754	0.081542716	2.988958009	0.002799306	0.017232332
C3orf58	9.268918075	-0.910977178	0.304799382	-2.988776327	0.002800971	0.017236887
TUT1	233.791975	0.257878643	0.086287556	2.988595971	0.002802625	0.017241369
FNBP1	1574.507022	-0.319773729	0.107107727	-2.98553371	0.002830839	0.017409195
CLINT1	543.7027358	0.293815834	0.09842709	2.985111446	0.00283475	0.017427495
SEPT7P2	71.39480855	-0.384525149	0.12883558	-2.984619227	0.002839315	0.017449802
BICD2	678.586998	-0.1807511	0.060627154	-2.98135552	0.002869754	0.017631058

LCN2	21.84452345	1.49323518	0.501467483	2.977730822	0.002903909	0.01782914
RABGAP1	496.7986492	-0.176949796	0.059423914	-2.977753966	0.00290369	0.01782914
DTWD1	88.70549653	-0.488518883	0.164067715	-2.977544255	0.002905677	0.017834119
REV3L	104.0331336	-0.518606745	0.174288359	-2.97556732	0.002924472	0.017943564
SNRPD3	580.1792208	-0.162811825	0.054732894	-2.974661337	0.002933122	0.017990714
KLF4	159.7449052	-0.2748166	0.092407277	-2.973971424	0.002939725	0.01802528
COL11A2	77.11149688	1.001370071	0.336762692	2.97351843	0.002944067	0.01804597
SLC48A1	281.2763934	-0.395536026	0.133058899	-2.972638657	0.002952518	0.01809182
SAMD8	141.0979442	0.350152038	0.117864774	2.970794644	0.002970303	0.018194816
FKBP1A	5687.526787	0.30259989	0.101874058	2.970333148	0.00297477	0.018216186
CMC2	570.7972807	0.244791827	0.08242335	2.969933007	0.002978647	0.018230897
MYL5	13.28255683	0.777800487	0.261895972	2.969883348	0.002979129	0.018230897
MAPK1IP1	2479.28022	0.239308949	0.080591869	2.969393205	0.002983885	0.01825401
RRAGB	178.9588537	-0.269827727	0.090879532	-2.969070372	0.002987022	0.018267202
GRAMD4	12.04000392	-1.02115593	0.344097894	-2.967632024	0.003001034	0.018346871
ZNF430	487.6216724	0.354805271	0.119568208	2.967388053	0.003003416	0.018355415
C21orf7	63.91971226	0.560963905	0.189074499	2.96689351	0.003008251	0.018363463
NXPE3	261.4679231	-0.345053205	0.116302874	-2.966850201	0.003008675	0.018363463
PRKCB	194.8894398	-0.323216313	0.108941177	-2.966888381	0.003008301	0.018363463
SETMAR	25.74618664	0.594723723	0.20045137	2.966922715	0.003007966	0.018363463
ELOVL5	2745.610389	0.301467631	0.101652983	2.965654537	0.003020396	0.018428962
IL6R	437.7226791	0.467368459	0.157603388	2.965472155	0.003022187	0.018433857
GNB4	275.6512343	-0.362546911	0.122269777	-2.965139231	0.00302546	0.01844778
SMTN	11.24184177	0.896283066	0.302343467	2.964453228	0.003032213	0.018482912
GCNT4	2.537944661	2.770206276	0.934781435	2.963480202	0.003041816	0.018535384
SKP2	87.73319988	-0.351414179	0.118588426	-2.963309252	0.003043506	0.01853962
TXNDC5	582.4624769	-0.284568662	0.096053849	-2.962595109	0.003050575	0.018576609
KIF16B	577.2018404	-0.302438351	0.102113797	-2.961777553	0.003058687	0.018619918
PCTP	146.9852294	-0.273807086	0.092450741	-2.961653765	0.003059917	0.018621321
ASMTL	67.79125928	-0.364208817	0.123011134	-2.960779272	0.003068618	0.018668176
DENND5B	39.52542545	0.417094385	0.140926701	2.959654791	0.003079839	0.018729946
HIST1H3I	264.9907948	-0.420468139	0.14207114	-2.959560544	0.003080782	0.018729946
GCSHP3	214.0004676	-0.347836959	0.117561063	-2.958776904	0.003088626	0.018771513
RP9	114.8772132	-0.308489887	0.10427901	-2.958312389	0.003093285	0.018793697
MYCBP2	397.9711637	-0.235254006	0.079527793	-2.958135733	0.003095058	0.018798342
ADRA2B	60.87185935	0.67772089	0.229155938	2.957465978	0.00310179	0.018833089
RBBP9	212.6222792	0.269624117	0.091186556	2.956840652	0.003108087	0.018865177
PDCD4	1150.078834	-0.26392055	0.089278391	-2.956152623	0.003115029	0.018901156
ZNF329	75.01889339	-0.308539272	0.104394725	-2.955506355	0.003121563	0.018934635
ITM2B	7908.983431	-0.189278947	0.06408633	-2.953499552	0.003141931	0.01905198
CECR2	24.95720704	0.555546722	0.188111396	2.953285844	0.003144107	0.019058974
CD7	36.38193142	0.941954488	0.319017104	2.95267707	0.003150313	0.01908418
DPH3	567.6448453	0.183257271	0.062063017	2.952761248	0.003149454	0.01908418
RYBP	174.9309873	0.29766121	0.10081864	2.952442228	0.003152711	0.019092496
AMD1	1540.110121	0.159403363	0.054032444	2.950141648	0.003176283	0.019228997
CHCHD6	41.20189351	-0.437742487	0.148416007	-2.94942909	0.003183616	0.019267134
GIMAP4	115.0730721	0.50347679	0.170760237	2.9484428	0.003193792	0.019322444
NANOS1	41.39224889	0.645455417	0.218924991	2.948294821	0.003195322	0.019325422
LOC15038:	64.26811599	-0.522654334	0.177537111	-2.943915966	0.00324088	0.019594599

OSBPL8	1825.881673	0.225203783	0.076515462	2.943245429	0.003247908	0.019630724
HRASLS	14.6142336	-0.843546206	0.286622428	-2.943057218	0.003249883	0.019636293
CXCL16	6937.211303	0.303994772	0.103310363	2.942539011	0.003255328	0.019662812
GPR108	839.8588954	0.268004268	0.091128707	2.940942278	0.003272155	0.01974689
KL	67.48706475	-0.533682202	0.181459419	-2.941055393	0.00327096	0.01974689
ORC6	30.51064487	-0.619026808	0.210487715	-2.940916571	0.003272427	0.01974689
WDR19	36.91633366	-0.398879699	0.135642648	-2.94066582	0.003275077	0.019756483
LSS	14.38685257	0.867930728	0.295206339	2.94008161	0.003281258	0.019787367
KIFC2	37.84326285	-0.42548725	0.144724482	-2.939981155	0.003282322	0.019787379
PPAP2B	2213.355664	0.226983946	0.07722182	2.939375775	0.003288741	0.019819662
PYROXD1	558.0645578	0.32602153	0.110942526	2.938652484	0.003296425	0.019859546
RPS6KA2	631.4004431	-0.450361579	0.153276644	-2.938227029	0.003300952	0.019880394
RC3H2	420.0106502	-0.193646898	0.065909324	-2.938080477	0.003302513	0.019883368
GPER	11.81112302	1.117962735	0.380580181	2.937522209	0.003308465	0.019912769
ACADVL	633.934933	0.26369795	0.089799674	2.936513443	0.003319244	0.019964751
LRPPRC	703.4646423	-0.227979004	0.077635587	-2.936527075	0.003319098	0.019964751
SLC22A16	27.76117747	-0.837830456	0.285463481	-2.934982973	0.00333566	0.020057014
TMIE	3.352468301	-1.686094763	0.574800705	-2.933355421	0.003353198	0.020155964
BTN3A1	151.7418936	0.295476608	0.100743653	2.932955076	0.003357525	0.020175464
MTOR	612.0006627	-0.201869629	0.06889877	-2.929945329	0.003390216	0.020365343
FDPS	346.1061846	0.306676575	0.104684002	2.929545769	0.003394578	0.020384973
CASP9	521.8048322	0.186847474	0.063787283	2.929227682	0.003398054	0.020399272
HAUS7	59.99709714	-0.426818512	0.145728066	-2.928869668	0.00340197	0.020416205
MAP3K3	438.9042608	-0.306714241	0.10472873	-2.928654268	0.003404329	0.020423779
PTDSS1	1010.072027	-0.176994251	0.060449444	-2.927971526	0.003411813	0.020456785
TMEM176I	2695.465186	-0.362666049	0.12386338	-2.927952135	0.003412026	0.020456785
JMJD6	140.1788744	0.51012659	0.174271135	2.927200703	0.003420281	0.020499683
P2RY2	44.53409947	0.559319368	0.191099655	2.926846559	0.003424178	0.02051644
PLCG2	534.0821283	-0.27383764	0.093565293	-2.926701031	0.00342578	0.020519444
CASP3	534.3655481	0.401844186	0.137342401	2.925856717	0.003435091	0.020561994
CD74	21552.33768	-0.228794633	0.078195395	-2.925934881	0.003434228	0.020561994
SIK1	21.44049858	0.73250613	0.250547226	2.923624985	0.003459813	0.020703325
MTFMT	349.2267722	-0.205111638	0.070199922	-2.921821463	0.00347991	0.020816897
SDE2	332.4482222	0.200660795	0.068706618	2.920545377	0.003494193	0.020895633
GLCE	123.744646	-0.377716834	0.12934717	-2.920178575	0.003498309	0.020906826
RBBP7	592.4951839	-0.155017828	0.053083982	-2.920237365	0.003497649	0.020906826
RGS20	16.79297879	0.714025457	0.244527604	2.920019845	0.003500091	0.020910771
C17orf51	79.26190416	-0.404490904	0.138659794	-2.917146299	0.0035325	0.021097632
PRKAR2B	293.312646	0.362904362	0.124417712	2.916822353	0.003536171	0.021112788
GTF2E2	176.2022327	0.280791292	0.096326565	2.914993302	0.003556962	0.021216931
OXER1	82.48552776	0.475770692	0.163215355	2.914987338	0.00355703	0.021216931
RGAG4	25.56163659	-0.522725833	0.179317428	-2.915086611	0.003555898	0.021216931
SENP7	86.75331094	-0.271039365	0.093002388	-2.914326923	0.003564564	0.021255068
LINC00630	23.42068928	-0.516955331	0.177445093	-2.913325589	0.003576015	0.021316529
SLAIN2	1989.904165	0.209528042	0.071957697	2.911822511	0.003593267	0.021412519
AUH	166.9724948	-0.174151802	0.059814703	-2.911521628	0.00359673	0.0214263
PYCARD	1035.317164	-0.350053307	0.120293619	-2.909990649	0.003614396	0.021524656
RPS16	9024.455298	-0.387568182	0.133216126	-2.909318828	0.003622173	0.021564078
COQ10A	46.12945586	-0.371855164	0.127823508	-2.909129693	0.003624365	0.021570237

ASS1	41.91398355	0.636238607	0.218744866	2.908587606	0.003630654	0.021600771
RPS15	6480.785083	-0.209654374	0.072098028	-2.907907189	0.003638563	0.021640914
SCAF4	545.8199582	0.181546399	0.062469321	2.906168916	0.003658839	0.021754563
PARD3B	8.514282347	-0.943575985	0.324696763	-2.906022148	0.003660555	0.021757827
HSPA2	16.66278784	0.865940404	0.298022355	2.905622305	0.003665236	0.021765704
NPM1	5743.282902	-0.171343102	0.058966135	-2.905788246	0.003663293	0.021765704
TCTEX1D2	58.41798203	0.608581736	0.209450622	2.905609587	0.003665385	0.021765704
TCF20	56.05390507	0.304526688	0.1048108	2.905489594	0.00366679	0.021767115
PPP1R10	653.9236751	0.18001565	0.061980535	2.90439006	0.003679694	0.021836758
ZP3	7.629980162	-1.032725818	0.355764681	-2.902834014	0.003698026	0.021938559
IDUA	165.685076	-0.335772505	0.115681999	-2.90254756	0.00370141	0.021951644
TSR1	180.4448274	0.243007807	0.083754511	2.901429481	0.003714644	0.022023122
CRHBP	2.924090468	-2.192137558	0.755756413	-2.900587436	0.003724639	0.022075358
IFNA1	69.95491945	0.512976833	0.176884841	2.900061032	0.0037309	0.022098408
MBOAT7	1084.783445	0.286467569	0.098779706	2.900064998	0.003730853	0.022098408
PRKCD	634.1231659	0.319933334	0.11032726	2.899857504	0.003733323	0.022105735
FNDC3B	4506.620646	0.1845209	0.063658315	2.898614262	0.003748157	0.022186518
MBOAT1	200.4248133	-0.357374457	0.123299761	-2.898419699	0.003750483	0.022193238
PPP5C	272.6751203	0.24617465	0.084941715	2.898159628	0.003753595	0.022204599
SGK1	1.841049853	-2.951678917	1.018761044	-2.897322128	0.003763631	0.022256902
SLC11A2	1043.676844	0.214743761	0.074145883	2.896233113	0.003776717	0.022327205
ARHGAP3C	962.6336294	-0.308275888	0.106463382	-2.895604873	0.003784286	0.022364852
BAX	859.0719899	-0.189764586	0.065571745	-2.893999346	0.00380369	0.022465278
PDHA1	1304.590272	0.164883333	0.056972835	2.894069297	0.003802842	0.022465278
H3F3A	5374.595994	-0.207601827	0.071757109	-2.893118597	0.003814372	0.022521234
CYP19A1	5.262911011	2.232308505	0.771921552	2.891885191	0.003829379	0.022602673
KLHL7	106.3439572	-0.307446896	0.106320399	-2.891701861	0.003831614	0.022608704
EMILIN1	14.69494292	0.825800577	0.285624234	2.891213272	0.003837576	0.022636717
ARFGAP3	832.4883777	0.381301028	0.131894801	2.890948127	0.003840815	0.022648655
ABCA5	75.56826822	0.588941576	0.203745687	2.89057199	0.003845414	0.022668603
FGD5	1107.293405	-0.183690223	0.063558959	-2.890076001	0.003851487	0.02269722
MCEE	39.67626843	-0.462278224	0.160009603	-2.889065502	0.003863886	0.022763088
NSUN7	31.5327669	0.498054239	0.172415367	2.888688214	0.003868524	0.022783212
MANEA	229.269517	-0.262636189	0.090923473	-2.888541103	0.003870334	0.02278667
RTF1	1724.071875	0.187765657	0.065014299	2.888067098	0.003876172	0.02281383
CD276	448.6379768	0.460348326	0.159476432	2.88662293	0.003894006	0.022905188
HSF2	28.86458251	-0.606526975	0.210117315	-2.8866111	0.003894152	0.022905188
ANKFY1	649.4744091	0.228002716	0.078992296	2.886391808	0.003896867	0.022913922
KIAA0513	1581.620524	-0.263100457	0.091167902	-2.885889138	0.003903096	0.02294331
MRAS	1288.732213	0.265103468	0.091878727	2.88536287	0.003909627	0.022974455
CACFD1	33.84590736	-0.456304631	0.158174437	-2.884819067	0.003916387	0.022999669
NOXA1	27.20278696	-0.560192913	0.194181221	-2.884897464	0.003915412	0.022999669
MAP3K10	99.13707752	0.368637446	0.127794083	2.884620617	0.003918856	0.02300692
TREX1	45.69513084	0.493573993	0.171142963	2.88398649	0.003926756	0.023046038
PPM1N	75.05138768	0.313322724	0.108667202	2.88332375	0.003935028	0.023087314
ALKBH8	142.7694587	0.205319144	0.071238636	2.882131902	0.003949943	0.023160241
MTERFD3	31.06433911	-0.490624825	0.170225064	-2.882212614	0.003948932	0.023160241
EXOC5	816.1499466	0.30079365	0.104384529	2.881592264	0.003956714	0.02319264
ST6GALNA	574.7519936	0.269770734	0.093656543	2.880425923	0.003971383	0.023271303

HMGXB3	386.1480504	0.210096675	0.072950489	2.879989931	0.003976879	0.023296183
KIFC1	9.054734441	0.915299903	0.317849951	2.879660354	0.003981038	0.023313218
DNAJC9	129.1283204	-0.236776287	0.082262337	-2.878307317	0.003998154	0.023406098
ARF4	3851.951136	0.201874244	0.070155089	2.877542435	0.00400786	0.023455548
UBXN1	1238.651514	-0.214034398	0.074384435	-2.877408413	0.004009563	0.023458146
LUZP1	622.5324076	0.131391636	0.045666118	2.877223679	0.004011911	0.023464517
VENTX	10.53735761	-0.962292871	0.334465949	-2.877102661	0.00401345	0.023466152
LINC00032	5.735516099	1.143124308	0.39734721	2.876890234	0.004016153	0.023474589
ATP6V0E2	43.49951637	-0.488204482	0.169782209	-2.875474902	0.004034202	0.023572695
MYO1C	5.843888949	1.415383615	0.492287758	2.875114387	0.004038811	0.02359223
SLC25A42	4.671929611	-1.157746984	0.40284387	-2.873934718	0.004053927	0.023673107
ZNF620	10.19520418	0.564271964	0.196370519	2.873506499	0.004059427	0.023697797
PAK6	7.573703962	-1.04950686	0.365295181	-2.873037792	0.004065455	0.023718123
RRAS2	8.553445168	1.331112902	0.463299335	2.873116368	0.004064444	0.023718123
PMS2	45.31270364	-0.772169141	0.268808979	-2.872557098	0.004071645	0.023746802
DDB1	3288.183355	-0.13659545	0.047580575	-2.870823866	0.004094036	0.023869919
RNASET2	2816.12393	-0.219103634	0.076340532	-2.87008262	0.004103646	0.023918465
SAYSD1	111.0040572	-0.290031934	0.101066023	-2.869727376	0.004108258	0.023937863
CYP4V2	568.1624155	-0.203365922	0.070876132	-2.869314622	0.004113624	0.023939184
DCTN6	786.6345168	0.223774023	0.077986553	2.86939241	0.004112612	0.023939184
DUSP7	790.8544161	0.294276974	0.102553216	2.869505084	0.004111147	0.023939184
IL15	34.06358903	0.49932144	0.174012213	2.869462044	0.004111707	0.023939184
SIKE1	149.1043304	0.299438294	0.104399221	2.868204293	0.004128089	0.024015863
TRIM4	177.3919199	-0.251142077	0.087586023	-2.867376177	0.004138907	0.024071285
NKG7	47.35364629	0.623806144	0.217667713	2.865864372	0.004158724	0.024178989
DNAJC17	43.07978991	-0.428661377	0.149668144	-2.864078919	0.004182238	0.024308117
SAMD4A	221.9124092	-0.351638933	0.122853376	-2.862265129	0.004206249	0.02444005
VLDLR	40.086147	-0.627308076	0.219180837	-2.86205713	0.00420901	0.0244448472
RGS2	24.42319844	-0.753641082	0.263406322	-2.861135133	0.004221271	0.024512048
GIMAP7	24.33316778	-0.949534655	0.332113399	-2.859067591	0.004248882	0.024664696
CDK1	11.54510461	1.078784272	0.377412662	2.858367992	0.004258262	0.024711449
HMGN4	194.5566297	-0.175280652	0.061326822	-2.858140134	0.004261322	0.024713808
MORC3	932.7588285	0.23663766	0.082791861	2.858223703	0.004260199	0.024713808
SLC26A2	76.36014218	-0.240103196	0.084022168	-2.857617239	0.004268349	0.024746864
RHOQ	1393.272652	0.283047809	0.099080427	2.856747972	0.004280055	0.024799301
UBE2Q2	150.2907753	-0.356346592	0.124734558	-2.856839326	0.004278824	0.024799301
EIF2AK3	310.2798114	0.315074987	0.110299001	2.856553399	0.00428268	0.024806792
KIAA1522	382.8041423	0.318843404	0.111626659	2.85633742	0.004285594	0.024815961
ACTL6A	72.55335242	-0.451783197	0.15818703	-2.856006575	0.004290063	0.024834118
SLC16A10	191.9357504	0.403379356	0.141245594	2.855872138	0.004291879	0.024836919
TET3	140.7725686	-0.411678986	0.144172897	-2.855453385	0.004297543	0.024861974
TSEN15	64.49280582	-0.348713197	0.12220072	-2.853609996	0.004322556	0.024998917
PTPLAD1	338.4295079	-0.21607177	0.075744252	-2.852649069	0.004335647	0.025066848
CCNB1IP1	76.81043616	-0.353188333	0.123817682	-2.852487038	0.004337858	0.025071851
RNF20	464.3847664	-0.147348218	0.051662162	-2.852149645	0.004342465	0.025090697
HLA-DPB1	11013.53389	-0.242140429	0.085027663	-2.847784125	0.004402478	0.025429562
CCDC36	2.466913198	-1.744986527	0.61280707	-2.847530016	0.004405994	0.025441986
FKBP1AP1	9.501396867	1.048584871	0.368305527	2.847051683	0.00441262	0.025472353
SPOPL	213.8241093	-0.403571017	0.141794396	-2.846170422	0.004424851	0.025535047

RPS25	4301.435436	-0.4238922	0.1489902	-2.845101214	0.004439731	0.025612989
HOPX	9.855197189	1.119788751	0.393662329	2.844541294	0.004447542	0.025650108
KLHDC8B	1038.308057	-0.314783182	0.11068547	-2.84394312	0.0044559	0.02569036
TREML4	21.36365012	1.304752189	0.45887508	2.843371204	0.004463905	0.025728549
FAM83H	78.72128618	0.348535909	0.122599719	2.842876888	0.004470834	0.025760518
MAFF	24.83734459	0.923482882	0.324854183	2.842761242	0.004472456	0.0257619
IER5L	63.40501704	-0.448813236	0.157891088	-2.842549519	0.004475428	0.025771051
FBN2	8.445875424	-1.352758867	0.476056176	-2.841595039	0.004488847	0.025840338
ERCC6	44.14338096	-0.37867678	0.133284861	-2.841108717	0.004495698	0.025867057
KIAA0825	11.00160212	-0.820081032	0.288652322	-2.841068539	0.004496265	0.025867057
H2AFX	236.7206503	0.341788095	0.12030911	2.84091616	0.004498414	0.025871432
ZNF850	20.28939043	-0.556665858	0.196003595	-2.840079831	0.004510225	0.025931356
FAM126B	262.3496785	0.606222718	0.213463342	2.839938284	0.004512226	0.025934863
FAU	2268.645416	-0.214917394	0.075707914	-2.838770519	0.004528771	0.026021932
TTC7B	911.6379466	0.209800845	0.073911112	2.838556189	0.004531814	0.026031388
SLC39A12	5.755623495	1.219139472	0.42953049	2.838307173	0.004535351	0.026043678
P4HA2	282.6392338	0.237809515	0.083817552	2.837228112	0.004550709	0.026123816
QARS	752.7053812	-0.338869918	0.119469034	-2.836466533	0.004561576	0.026178135
XPR1	280.3750814	0.236386546	0.083358289	2.835789322	0.004571259	0.026225628
ERCC8	68.46647147	-0.381779045	0.134667843	-2.834968142	0.004583026	0.026285041
ACAP3	93.22294266	-0.267005124	0.094200243	-2.834441982	0.004590579	0.026312167
TMEM164	422.9622112	0.290000074	0.10230965	2.834532951	0.004589272	0.026312167
ACOT8	168.4909326	-0.291257776	0.102778362	-2.833843347	0.004599187	0.026353399
ZC3H3	134.9089106	0.284730033	0.100548704	2.831762337	0.004629224	0.026517358
MRPS18A	389.9006364	0.203887128	0.072118157	2.827126162	0.004696782	0.026896077
CSNK1A1	2978.075069	0.293195048	0.103727721	2.826583327	0.00470475	0.02693343
DHFR	287.4330165	-0.259331562	0.091780031	-2.825577178	0.004719552	0.027009867
SRCIN1	44.00656923	-0.428904981	0.151799387	-2.825472426	0.004721095	0.027010404
TAF1D	518.7833093	-0.239468836	0.084759867	-2.825262066	0.004724196	0.027019849
ATG7	476.3917758	-0.206475989	0.073090044	-2.824953664	0.004728745	0.027035453
MBNL2	999.1020326	-0.239596197	0.084816402	-2.824880456	0.004729826	0.027035453
SGSM3	352.4104148	-0.311190762	0.1102292	-2.823124562	0.004755809	0.027175635
TMC6	546.7356007	-0.195850859	0.069395646	-2.82223554	0.004769014	0.027242735
GIN53	15.32156542	0.584787769	0.20726456	2.82145568	0.004780624	0.02730069
SLC15A2	7.422877681	-1.076801065	0.381717487	-2.820937219	0.004788357	0.027336474
PABPC4	2331.205334	-0.349588602	0.123990158	-2.8194867	0.004810052	0.027451919
EVI2B	1168.708846	-0.323697405	0.114818665	-2.819205433	0.00481427	0.027467575
FIGNL1	57.20155464	0.386563969	0.137133645	2.818884957	0.004819079	0.027486597
EEF1E1	349.725394	0.210565805	0.074719257	2.818092868	0.004830983	0.027539483
LSAMP	171.2585552	-0.408389227	0.144917985	-2.818071387	0.004831307	0.027539483
NET1	36.27335961	-0.527738269	0.187457218	-2.81524645	0.004873984	0.027774257
TIGD1	62.15742748	-0.358404898	0.12734633	-2.814410886	0.004886672	0.027838048
ITPKB	384.6837616	-0.345199371	0.122718567	-2.812935159	0.004909155	0.027957577
LOC22072	139.5418008	-0.246959105	0.087827656	-2.811860356	0.004925588	0.028042594
NRBP2	90.35730669	-0.298435021	0.106183817	-2.810550889	0.004945677	0.028147128
SLC25A51	215.0762103	-0.279627624	0.099495084	-2.810466736	0.00494697	0.028147128
KRTCAP2	1186.191312	-0.134817494	0.047973011	-2.810277947	0.004949873	0.028155048
DFNB31	10.65057031	0.817507524	0.29098345	2.809463984	0.004962407	0.028217728
SCN8A	4.542005399	1.529805806	0.54455578	2.809272917	0.004965353	0.028225868

ARHGAP26	15.56100435	-0.822008259	0.292637188	-2.808967186	0.004970071	0.028239933
C1orf85	1632.702046	-0.257997363	0.091855852	-2.808719922	0.00497389	0.028239933
KIAA1755	3.62123196	2.018713966	0.718706583	2.808815189	0.004972418	0.028239933
PITPNA-AS	16.30628239	-0.572213807	0.203723884	-2.808771348	0.004973095	0.028239933
ZAK	275.0402931	-0.310622561	0.110607686	-2.808327085	0.004979962	0.028265796
ITFG3	329.6315122	-0.206908407	0.073695845	-2.807599378	0.004991228	0.028321114
LOC38964	39.99867152	0.431665226	0.153806455	2.806548178	0.005007542	0.028405036
BNIP3L	1670.323107	-0.286537028	0.10211607	-2.805993506	0.00501617	0.028445319
EHMT2	236.1635596	-0.209973617	0.074858992	-2.804921773	0.005032879	0.028531388
CASP2	337.1898623	-0.16720685	0.059615879	-2.804736787	0.005035768	0.028539084
C14orf166	923.1456007	-0.225293003	0.080333487	-2.804471848	0.005039909	0.028553865
TAS1R3	3.404898841	-1.233180247	0.43998807	-2.802758373	0.005066761	0.028697274
CDCA2	1.989017313	1.937971794	0.691932273	2.800811395	0.00509743	0.028853437
TMEM67	28.03547837	0.324525905	0.115866881	2.800851303	0.0050968	0.028853437
CTSD	127278.683	-0.302075738	0.107892796	-2.799776718	0.005113797	0.028937286
C7orf69	4.251450077	1.55003481	0.553688076	2.799472984	0.00511861	0.028955731
SFXN4	218.1587254	0.210663343	0.075255605	2.799304381	0.005121284	0.028962064
PQLC2	856.2624233	0.225669359	0.080643344	2.798363092	0.005136234	0.029037798
DISC1	58.82793006	-0.395444728	0.141321148	-2.798199243	0.00513884	0.029043721
DPY30	610.0081968	-0.236387142	0.084495512	-2.797629576	0.005147911	0.029086168
PTBP1	2554.562039	0.301005522	0.107603567	2.797356367	0.005152267	0.029086857
RPS6KA4	457.9882426	-0.332337719	0.118800469	-2.797444507	0.005150861	0.029086857
TRPM7	508.3252684	-0.212868727	0.076097158	-2.797328199	0.005152716	0.029086857
DOCK3	154.981667	0.436853336	0.156176784	2.797172061	0.005155207	0.029092105
TSPAN32	21.60834281	-0.683645411	0.244430442	-2.796891437	0.005159687	0.029108569
ARPC2	20318.47171	0.185833488	0.066461067	2.796125572	0.00517193	0.029168809
HSPE1	1190.401449	-0.188249395	0.06733163	-2.795853825	0.005176281	0.029184512
CPQ	464.7047979	-0.225662351	0.080730091	-2.795269376	0.005185649	0.029228486
FBP1	3755.108325	0.356196324	0.127534845	2.792933373	0.005223245	0.029430394
MTHFD1L	131.6778193	-0.479468088	0.171677137	-2.792847642	0.005224629	0.029430394
ATHL1	36.79178611	-0.457791311	0.163957289	-2.792137598	0.005236108	0.029486142
HNMT	1851.478218	-0.225606802	0.080810557	-2.791798623	0.005241597	0.02950813
PLAA	382.5060446	0.25420389	0.091068006	2.791363287	0.005248653	0.029538928
GUSBP11	83.12021363	-0.307997161	0.110346234	-2.791188685	0.005251485	0.029545945
SRD5A1	102.4110497	0.317561308	0.11378242	2.790952321	0.005255321	0.029558605
PON2	74.6136575	-0.612839823	0.219681869	-2.789669565	0.005276186	0.029667004
POP1	25.03706143	0.480081505	0.172107185	2.789433247	0.005280038	0.029679707
TMED1	349.5985926	0.376546403	0.135034635	2.788517209	0.005294993	0.029754797
ALDH5A1	76.65384975	-0.44308088	0.15894087	-2.787708908	0.005308222	0.02982014
ARL8B	6657.36751	0.22333572	0.080132354	2.787085489	0.005318445	0.029868565
KIAA0930	3960.715491	-0.20940252	0.075140148	-2.786826039	0.005322704	0.029883481
TSHZ1	22.59136059	-0.492399102	0.17676283	-2.785648437	0.005342077	0.029983214
POLR2A	1936.552199	0.250595723	0.089973893	2.785204867	0.005349391	0.030015224
NAA40	130.7167352	-0.325346326	0.116832376	-2.784727477	0.005357273	0.030050398
ADI1	684.9619572	-0.272821497	0.098010274	-2.783600988	0.005375912	0.030145878
ELOVL6	8.901181462	0.759593718	0.272906615	2.78334667	0.005380129	0.030160444
LOC92249	63.67434299	-0.466005567	0.167439168	-2.783133559	0.005383664	0.030171186
ATP9B	624.5248038	0.137267067	0.049376085	2.780031385	0.005435365	0.030445809
SYNM	12.41601227	0.830935579	0.298897979	2.77999732	0.005435935	0.030445809

ENTPD7	259.7430587	0.363579265	0.130891062	2.77772416	0.005474107	0.030650392
TRIB2	93.43159265	0.384511436	0.138445347	2.777351823	0.005480382	0.030676312
RARA	153.6724178	-0.547585283	0.19718061	-2.777074701	0.005485057	0.03069326
TBL2	473.7058605	-0.186857026	0.067324315	-2.775476064	0.005512096	0.030835302
MTCH2	977.5714264	-0.161730262	0.058275005	-2.775293839	0.005515185	0.030843326
KAT5	580.3743502	0.204577784	0.07373909	2.774346456	0.005531274	0.030924019
ANKRD24	11.11664547	0.772142905	0.278329254	2.774206786	0.005533649	0.03092802
GTF3C5	197.7607088	-0.288756806	0.104161947	-2.772190936	0.005568037	0.031109633
TMEM140	640.249201	0.515922734	0.186112167	2.772106421	0.005569482	0.031109633
HDAC10	330.590529	-0.235307067	0.084887879	-2.771974869	0.005571734	0.031112882
MICU1	1023.014828	0.144875646	0.052270959	2.771627873	0.005577676	0.031136733
DAAM1	181.9058822	0.256067647	0.092450018	2.769795541	0.005609149	0.03130305
NEK6	119.9738741	0.385558756	0.139288147	2.768065806	0.005639007	0.031441428
TECPR2	179.974372	0.331206608	0.119651338	2.768097834	0.005638453	0.031441428
ZBED2	6.495766511	2.584633743	0.93373128	2.768070213	0.005638931	0.031441428
FAM186B	4.738271546	1.171908112	0.423391307	2.767907828	0.005641741	0.031447263
NUS1	1716.259062	0.356844992	0.128929083	2.767761795	0.005644269	0.031451948
GTDC1	247.8840128	-0.28572886	0.103299731	-2.76601747	0.005674549	0.031599613
NETO2	314.9421263	0.252489549	0.09128518	2.765942386	0.005675856	0.031599613
PSMB5	476.391923	0.248716941	0.089917674	2.766051775	0.005673953	0.031599613
TSC2	530.9814258	-0.220402822	0.079687744	-2.765830874	0.005677797	0.031600978
TAOK2	385.4742902	-0.245756589	0.088859841	-2.765665404	0.005680679	0.031607575
AMOTL1	275.909851	-0.264902127	0.095797129	-2.765240783	0.005688079	0.031639304
ENTPD5	188.6508432	0.263993417	0.095515566	2.763878474	0.005711881	0.031761783
TRIP10	308.9189729	0.436609156	0.157975047	2.763785567	0.005713507	0.031761783
KRBA1	21.52667036	-0.476411824	0.1723959	-2.763475367	0.005718941	0.031782507
HERC1	401.9159211	-0.272227577	0.098521647	-2.763124494	0.005725093	0.031805602
TRAP1	344.023372	0.173292074	0.062717819	2.763043673	0.00572651	0.031805602
NCF2	11779.96189	0.214959407	0.077816926	2.762373405	0.005738281	0.03186148
NISCH	205.5343461	-0.326757572	0.118297467	-2.762168794	0.005741879	0.031871958
CCSAP	783.0014692	-0.178558967	0.064649879	-2.761938123	0.005745937	0.031884986
FAM102A	55.9397287	-0.454877638	0.164719215	-2.761533539	0.005753061	0.031905516
TERF1	26.52297316	0.56836385	0.205812501	2.761561362	0.005752571	0.031905516
GOLGA5	626.3976952	0.19129707	0.069338881	2.758871599	0.005800132	0.032156995
PORCN	118.5473869	-0.418217266	0.151680923	-2.757217316	0.005829559	0.032310532
ACAD8	224.0064765	-0.245802455	0.089152121	-2.757112818	0.005831423	0.03231125
LATS2	152.4560112	0.23738679	0.086107044	2.756880021	0.005835576	0.03232465
PYCR1	5.479720525	0.966697871	0.350677065	2.756661233	0.005839482	0.032336671
DLX4	6.217790029	-1.093492195	0.3968851	-2.755185812	0.005865881	0.032473212
LRWD1	107.0368749	0.315511184	0.114581194	2.753603571	0.005894312	0.03262091
GALNT14	7.1453559	1.589067732	0.577533263	2.751473956	0.005932774	0.032815079
LOC729851	252.4155934	-0.269325231	0.097884268	-2.751465965	0.005932918	0.032815079
ZNF702P	98.42276	0.493063372	0.179248254	2.750729014	0.005946281	0.032879229
TTYH2	461.479088	0.304965255	0.110873338	2.750573395	0.005949106	0.032885092
BDH1	123.9647373	0.288864695	0.105040359	2.750035296	0.005958885	0.032929376
LOC389634	6.49420314	1.282131677	0.46628436	2.749677639	0.005965392	0.032955563
LIPT1	9.758227376	-0.747985776	0.272060454	-2.749336649	0.005971602	0.032980092
KLHDC2	338.536439	-0.244465029	0.088928825	-2.748996508	0.005977802	0.033004554
ELP4	80.49714998	-0.286652843	0.104295143	-2.748477394	0.005987276	0.03304707

C1QB	26069.03887	0.270843618	0.098547277	2.748362275	0.005989379	0.033048887
HP	26.45930642	-1.291867525	0.470139481	-2.747838838	0.005998949	0.033091892
NCAPD3	135.765087	-0.237882188	0.086584507	-2.747399	0.006007001	0.033119335
PRPS1	378.2709755	-0.199101941	0.072469937	-2.747372922	0.006007478	0.033119335
DESI2	140.6139113	-0.351951435	0.128143079	-2.746550469	0.006022562	0.03319267
COG2	226.0968551	-0.188748071	0.06872684	-2.746351643	0.006026213	0.033202975
LOC64285:	27.45944083	-0.343219616	0.124990269	-2.745970687	0.006033215	0.033231728
MFAP1	622.4849843	0.190599322	0.069413796	2.745842074	0.006035581	0.033234934
LAYN	7.647061493	0.854243864	0.311186519	2.745118479	0.006048906	0.033298465
ASAH1	16399.57393	-0.262172514	0.095521175	-2.744653367	0.006057484	0.033335842
SF3B14	315.2477657	-0.137929604	0.050269253	-2.743816469	0.006072948	0.033411076
ZNF417	81.59087421	-0.295323827	0.107639304	-2.743643047	0.006076157	0.033418863
CYB5A	1130.214399	0.248016193	0.090421108	2.742901495	0.006089895	0.03348454
MAD2L1BF	316.9476813	0.294995225	0.107565866	2.742461304	0.006098063	0.033519562
NAGA	1441.567481	-0.218989404	0.079857062	-2.742267227	0.006101668	0.033529484
ARPC4	2272.247903	-0.155938665	0.05687476	-2.741790297	0.006110534	0.033556604
MOCOS	44.11792787	0.388320138	0.141639224	2.741614409	0.006113807	0.033556604
NANOG	125.4926879	-0.460926764	0.168122196	-2.741617555	0.006113748	0.033556604
ZNF93	67.37117866	-0.400742505	0.146155126	-2.741898391	0.006108523	0.033556604
ABCA7	21.46198487	-0.661424288	0.241275262	-2.741368023	0.006118393	0.033571892
PTER	87.94324671	-0.27091304	0.098845579	-2.740770432	0.006129532	0.033623107
CMTM8	11.07288267	-0.711756015	0.259786022	-2.739777956	0.00614807	0.033704956
EEFSEC	111.3514952	-0.22152387	0.080854385	-2.739787952	0.006147883	0.033704956
RGMB	38.62120945	-0.41349178	0.150961186	-2.739060227	0.006161509	0.033762578
SH3PXD2A	164.0595326	-0.568106904	0.207412238	-2.739023068	0.006162205	0.033762578
CEBPE	12.88105079	-0.73968414	0.270103591	-2.738520199	0.006171637	0.033804316
KIAA0391	299.5046507	-0.235446392	0.085984141	-2.738253702	0.006176641	0.033821781
TRIM37	87.40730243	-0.337997905	0.123466224	-2.737573849	0.006189422	0.033881813
AK1	398.6440279	0.265426177	0.097025767	2.735625643	0.006226181	0.034063024
NAF1	218.4057458	0.400281154	0.14632082	2.735640446	0.006225901	0.034063024
CXorf26	809.3346194	0.187798208	0.068652403	2.735493593	0.00622868	0.034066692
LOC40132:	35.43114217	-0.604507	0.221027386	-2.734986876	0.006238276	0.034109167
RCL1	110.8181706	-0.309582529	0.113201703	-2.734786868	0.006242068	0.034119886
PMP22	417.433758	-0.3115002	0.113907429	-2.734678523	0.006244123	0.034121108
KDM4B	207.6082679	-0.388788221	0.142211608	-2.733871217	0.006259452	0.034184827
STAU2	267.4281166	-0.192077997	0.070258524	-2.73387464	0.006259387	0.034184827
STOML1	25.25348417	0.537365982	0.196602768	2.733257464	0.006271129	0.034238564
TAMM41	114.186219	-0.260063822	0.095157265	-2.732989663	0.00627623	0.034256378
ANXA11	3944.809434	0.217789682	0.079817007	2.728612493	0.006360139	0.034704198
ARSK	52.4973803	-0.418763174	0.153511742	-2.727890181	0.006374082	0.034759922
RPL23AP8:	247.0286714	-0.45058454	0.165173917	-2.727940035	0.006373119	0.034759922
ACTN1	6522.073951	0.37728808	0.138387862	2.726309049	0.0064047	0.034906457
SMYD3	36.56679912	-0.537825913	0.19727186	-2.726318453	0.006404517	0.034906457
EFR3B	20.81338094	0.783732004	0.287500026	2.726024111	0.006410232	0.03492639
ALDH4A1	44.0122839	-0.425851464	0.156251597	-2.725421507	0.006421944	0.034969758
TMBIM4	1544.304784	-0.120193736	0.044100247	-2.725466274	0.006421074	0.034969758
TMEM218	3.773736637	-1.161619501	0.426396597	-2.724270103	0.006444378	0.035081664
HELB	45.41435495	0.430834371	0.15819787	2.723389209	0.006461588	0.035154814
NEDD4L	108.8886692	0.425081446	0.156083691	2.723419996	0.006460986	0.035154814

UBB	25367.19625	0.205863629	0.075609552	2.722719851	0.006474694	0.035215833
LGALS8	842.90194	0.157310758	0.057812137	2.721068031	0.006507137	0.035381963
RPL36AL	1182.816773	-0.34305643	0.126107032	-2.720359241	0.006521103	0.035447558
EED	405.3282261	0.187044451	0.068772529	2.719755303	0.006533024	0.035502004
AVIL	16.05000425	0.632760677	0.232691265	2.719314264	0.006541742	0.035539016
AP4E1	140.1802087	0.316309597	0.116350311	2.718596923	0.006555945	0.035605791
EPAS1	1363.866595	-0.28207871	0.10377353	-2.718214463	0.006563528	0.035636591
FAM54B	434.8586772	-0.215698528	0.079374845	-2.717467078	0.00657837	0.035706771
MAX	357.0981662	0.353676335	0.130158017	2.71728428	0.006582005	0.035716096
VSIG10	39.26907227	-0.468315858	0.172389526	-2.716614338	0.006595341	0.035778045
SH3BP1	1489.781215	0.231913912	0.085417004	2.715078962	0.006625997	0.035928116
TRIM65	296.418249	-0.182390503	0.067177938	-2.715035762	0.006626861	0.035928116
POLE3	380.7219099	-0.279370099	0.10290323	-2.714881712	0.006629945	0.035934377
STIM1	670.0488113	-0.289396103	0.106632352	-2.713961551	0.006648388	0.036023863
HIST1H2BT	87.02442853	-0.554302452	0.204253833	-2.713792172	0.006651788	0.036031809
GK3P	6.072383555	0.859606974	0.317108429	2.710766714	0.006712784	0.036351645
KIF1C	1270.634169	-0.245031303	0.090413391	-2.710121812	0.00672585	0.036411822
STAM	235.1863663	-0.330759937	0.122062991	-2.709747917	0.006733436	0.036442303
TOB1-AS1	4.492676844	-1.027736633	0.379432878	-2.70861249	0.00675652	0.03655662
CTSL2	12.03952572	0.720204359	0.265975931	2.7077802	0.006773487	0.036633026
TRAPPC9	473.3227681	-0.147012215	0.05429359	-2.707726931	0.006774574	0.036633026
DUSP28	28.53440174	-0.460475666	0.170092763	-2.707203157	0.006785272	0.036680232
HSPA1A	6876.624627	0.267779457	0.098926258	2.70685926	0.006792305	0.036699847
WDR35	54.18799765	-0.35466217	0.131024764	-2.706833114	0.00679284	0.036699847
TRAPPC6A	161.2505676	-0.385589295	0.142489781	-2.706083851	0.006808185	0.036772094
RUNX1	124.6442909	0.52505081	0.19407616	2.705385394	0.006822519	0.036838832
OR2A20P	614.6824572	0.474735375	0.175509488	2.704898633	0.006832524	0.036882168
LAMC1	304.532574	0.296590986	0.10971218	2.703355135	0.006864336	0.037032438
TLN1	3360.384771	-0.205191086	0.075900515	-2.703421516	0.006862965	0.037032438
ATP11B	859.1335306	0.185095997	0.068503749	2.701983466	0.006892719	0.037174798
CIITA	1114.073906	-0.332813196	0.123188916	-2.701648872	0.006899658	0.037201457
RNF144A	2.191552005	1.611213053	0.596456037	2.701310665	0.006906679	0.037228539
HPCAL1	1695.940881	-0.30032288	0.11119168	-2.700947419	0.006914227	0.037258445
ANP32AP1	8.264060591	-1.003858737	0.371726378	-2.700531347	0.006922881	0.037293028
POR	1939.473457	-0.186854622	0.069193973	-2.700446501	0.006924647	0.037293028
SNX8	1103.638677	0.176525761	0.065417213	2.698460431	0.006966102	0.037494611
TMCO6	59.21118838	-0.290609702	0.107693126	-2.698498159	0.006965312	0.037494611
CES2	330.3520102	-0.147106191	0.054540176	-2.697207839	0.006992361	0.037621635
NPTX2	4.211647252	2.330506085	0.864064963	2.69714221	0.00699374	0.037621635
ARSB	922.5941955	0.184805243	0.068555458	2.695704305	0.007023999	0.037762607
CHST13	2.396510618	-1.556734732	0.577485458	-2.695712437	0.007023827	0.037762607
CERS5	261.6505061	0.252434796	0.093659573	2.695237529	0.007033847	0.037793744
PLCG1	112.3514541	-0.38329479	0.142211789	-2.695239202	0.007033812	0.037793744
ZNF438	267.5182874	0.155820487	0.057822489	2.694807683	0.007042927	0.037831622
SYNC	57.25787058	0.549673907	0.204058291	2.693710238	0.007066157	0.037945464
CD300LF	1104.497555	0.352838088	0.131014496	2.693122504	0.007078625	0.037994333
PLK1S1	54.66076044	-0.353400499	0.131224957	-2.693089095	0.007079335	0.037994333
CAMLG	379.8886597	-0.234349554	0.087029834	-2.692749642	0.007086546	0.038022084
CENPP	65.8702047	-0.328858492	0.122156059	-2.692117719	0.007099988	0.03808324

KLRB1	30.44407802	-0.962451333	0.357558411	-2.691731764	0.007108209	0.038116365
C10orf12	371.3599204	0.252035934	0.093682038	2.690333588	0.007138063	0.038265437
RBM22	430.5284301	0.17326106	0.064424163	2.689380095	0.007158486	0.038363884
CSPP1	6.401843578	-1.012783891	0.376694467	-2.688608356	0.007175055	0.038441623
TBRG4	368.2414028	0.180286757	0.067063583	2.688295907	0.007181772	0.038466555
MDN1	164.517417	-0.230783484	0.085874669	-2.687445389	0.007200087	0.038553572
DRAP1	1822.39264	0.298568407	0.111106503	2.687227103	0.007204795	0.038567695
AHCY	563.5751355	-0.274927362	0.102325611	-2.686789353	0.007214243	0.038607183
TFAP2E	30.42254011	-0.328818722	0.122417381	-2.686046037	0.007230313	0.038682069
ENG	4385.574813	-0.183555661	0.068356722	-2.68526129	0.007247312	0.038754901
LIMD1-AS1	4.990186406	-1.004746295	0.374175743	-2.685225626	0.007248086	0.038754901
PRR3	75.31296333	0.274975288	0.10242249	2.684715903	0.007259148	0.038802916
DHX34	215.6097088	0.370462992	0.138060318	2.68334159	0.00728905	0.038951578
RAB8A	1963.399135	0.326237217	0.121588403	2.683127728	0.007293713	0.038965322
GSTP1	7329.607052	-0.289708427	0.108020287	-2.681981643	0.007318748	0.03908786
BRD2	1027.926504	0.173599541	0.064737363	2.681597359	0.007327159	0.039116269
ERVK13-1	86.85302599	-0.28957686	0.107992597	-2.681451024	0.007330364	0.039116269
TRERF1	118.1906013	-0.311773459	0.116267718	-2.681513525	0.007328995	0.039116269
PTPN13	20.37222165	-0.704104911	0.262649178	-2.680780945	0.007345058	0.039183456
NBPF14	217.0533598	-0.23468451	0.087547056	-2.680667075	0.007347558	0.039185572
HIST1H1D	160.0932259	-0.406891398	0.151837686	-2.679778697	0.007367085	0.039278236
ME1	489.0926661	-0.47792957	0.178352896	-2.679684934	0.007369148	0.039278236
ADAMTSL4	1147.146205	0.302689469	0.112979943	2.6791434	0.007381078	0.039329813
IMPDH2	305.5799527	-0.266393808	0.09943577	-2.679054105	0.007383046	0.039329813
HERC2P2	285.4158547	-0.242176977	0.090426177	-2.678173341	0.00740249	0.039422119
LOC65365	21.48893425	0.682902257	0.25511497	2.67684118	0.007431985	0.039567891
F11R	4530.064976	-0.126690648	0.047347035	-2.675788442	0.007455369	0.039681047
FAM98C	95.41450427	-0.352497304	0.131759658	-2.675305243	0.007466124	0.039726942
PDK2	226.5691331	-0.24170581	0.09036895	-2.674655527	0.007480607	0.039792644
AGGF1	280.6582415	-0.216669278	0.081035001	-2.67377399	0.007500298	0.039886003
LOXHD1	3.181727086	1.957492423	0.732203905	2.673425272	0.0075081	0.039916102
C7orf49	105.787104	-0.2853383	0.106737328	-2.673275644	0.00751145	0.039922522
TMEM158	98.04257101	0.517993333	0.193810997	2.672672555	0.007524966	0.039982954
SLC4A1AP	311.0228868	0.237569653	0.088892931	2.672537055	0.007528006	0.039987703
FAM210A	118.8202402	0.247863072	0.092751133	2.672345489	0.007532305	0.039987743
HIST1H3D	71.91977935	0.449905533	0.168355501	2.672354216	0.007532109	0.039987743
POLH	84.80708929	-0.300053026	0.11228484	-2.672248774	0.007534477	0.039987878
SMCHD1	544.584341	0.255422223	0.095590018	2.672059583	0.007538726	0.039999038
NAT9	141.135181	-0.215251056	0.080564181	-2.671796007	0.00754465	0.040019073
KIAA0319	18.04445598	0.666496776	0.249508391	2.671239925	0.007557161	0.040074029
TFDP2	88.27167123	-0.326764746	0.12238993	-2.669866279	0.007588146	0.040226888
PLP2	740.1468983	0.191450483	0.071713498	2.66965758	0.007592864	0.040240449
FBXO3	260.7245989	-0.288728647	0.108203391	-2.668388152	0.007621615	0.040369862
MARVELD2	7.072040789	0.984484037	0.36893057	2.668480514	0.00761952	0.040369862
CTAGE15P	8.528578429	0.896430254	0.3360498	2.667551816	0.007640611	0.040458977
FPR2	172.3932303	0.588095373	0.220585356	2.666067155	0.007674436	0.040615008
PARP11	180.4073078	0.377621951	0.141637553	2.666114632	0.007673352	0.040615008
APOC1P1	3.57705668	-1.251759229	0.469842777	-2.664208729	0.007716966	0.040828492
FBXO48	41.63671069	0.374709625	0.140682213	2.663518143	0.007732824	0.040900779

CPNE9	8.572924084	-0.854940673	0.321065128	-2.662826323	0.00774874	0.04097333
FAM168B	664.155933	-0.221818448	0.083324511	-2.662103205	0.007765407	0.041049811
LOC100121	16.87842404	-0.721264452	0.27097155	-2.661771885	0.007773054	0.041078583
C11orf74	43.80669697	-0.306448583	0.115168016	-2.660882704	0.00779361	0.041175541
FOXD2	16.59956201	0.738486968	0.277652974	2.659748094	0.007819911	0.041302786
MSL1	286.2807068	-0.18019589	0.067779502	-2.658560239	0.007847532	0.041436926
ZNF383	77.43128824	-0.386761155	0.145542209	-2.657381383	0.00787503	0.041570341
DDHD2	277.2486269	-0.451670101	0.170056218	-2.656004632	0.007907253	0.041727064
MB21D1	299.8553508	0.476573859	0.179438219	2.655921695	0.007909198	0.041727064
HYPK	571.1720306	0.144623129	0.054464318	2.655373884	0.007922055	0.041783066
HLA-DQA2	6.766583656	1.947854257	0.73367539	2.654926529	0.007932568	0.041826678
EIF4EBP3	294.6063946	-0.246512689	0.092863697	-2.654564682	0.007941081	0.041847882
PLXNA1	907.9232533	0.261240201	0.098410968	2.654584202	0.007940622	0.041847882
CREB3	192.9124942	0.292964976	0.110370538	2.65437663	0.007945509	0.041859375
KLHL24	251.0225773	-0.259304271	0.097717878	-2.653601114	0.007963791	0.041943831
FUT8	150.8256449	-0.239447079	0.09024334	-2.653349025	0.007969741	0.041963312
C2orf71	20.48701818	0.905314177	0.341298999	2.652554448	0.007988524	0.042050328
LOC100501	2.683816478	2.087029169	0.787202764	2.651196444	0.008020718	0.042207865
CD28	17.83112113	0.578985244	0.218413484	2.650867678	0.008028529	0.042237043
DUSP23	667.8740679	-0.264254458	0.099695308	-2.650620801	0.008034399	0.042255995
PGM5P2	43.83670344	-0.461751181	0.174235312	-2.650158434	0.008045403	0.042301931
PMFBP1	2.128179875	-1.715784028	0.647518063	-2.649785583	0.008054287	0.042334252
UQCRFS1	1901.74392	0.251932978	0.095079461	2.649709781	0.008056094	0.042334252
DPP7	1159.273448	-0.261630446	0.098755877	-2.649264577	0.008066715	0.042378114
TRAF4	53.8953267	0.454331554	0.171551196	2.648372993	0.008088023	0.04247808
C3orf38	481.1169477	0.213599292	0.080667117	2.647910333	0.0080991	0.042512292
CDK20	18.34661297	-0.545676943	0.206072445	-2.64798597	0.008097289	0.042512292
ARSG	4.365077031	-1.241142106	0.468857545	-2.647162486	0.008117034	0.042594428
PRKACA	474.610411	-0.244430808	0.09236439	-2.646374963	0.008135958	0.042681711
SIPA1	599.7344575	-0.185425334	0.070126017	-2.644173209	0.008189074	0.04294827
DOCK6	38.5896507	0.489119594	0.185009505	2.643753863	0.008199226	0.042989411
LOC550641	545.2581528	-0.315741479	0.119438502	-2.643548559	0.0082042	0.043003391
MDGA1	8.795341442	1.108210398	0.419252846	2.64329845	0.008210263	0.043023071
ZNF140	213.4875652	0.164123806	0.062095312	2.643094972	0.008215199	0.043036833
AKT3	1264.267959	0.219860333	0.083195688	2.642689023	0.008225054	0.043076351
DEPDC7	13.35655418	-0.52823511	0.199903856	-2.642445825	0.008230963	0.043095186
KHNYN	565.0223068	0.164528619	0.062284107	2.641582718	0.008251965	0.043193012
HIST1H2AC	333.5193153	-0.411086922	0.155677564	-2.640630487	0.008275192	0.043302422
CA5B	29.02387546	-0.42886306	0.162420136	-2.640455	0.008279479	0.043312691
GPR162	17.88769982	-0.784195516	0.297020419	-2.640207423	0.00828553	0.043332182
NIPAL4	3.986216433	2.56063636	0.969905186	2.640089357	0.008288417	0.043335119
COL6A1	424.9642878	0.345353175	0.130826327	2.639783466	0.008295901	0.043362083
ZBTB33	269.3067265	-0.27369947	0.103781664	-2.637262302	0.008357818	0.043673465
ATP6V1E1	3444.857296	0.136036018	0.051587391	2.637001309	0.008364251	0.043694828
TMA7	455.0117798	-0.426826835	0.161927069	-2.635920217	0.008390946	0.043821997
MNS1	1.991222928	-1.481691969	0.562180797	-2.635614693	0.008398504	0.043849179
LIPC	19.86851992	-0.69415073	0.263486396	-2.634484139	0.008426524	0.043983151
GNG12	563.7208997	-0.156395466	0.059368553	-2.634314942	0.008430725	0.043992754
UTP20	85.00758212	-0.255054301	0.096881034	-2.632654609	0.008472045	0.044195995

TNFRSF1B	1621.065227	0.226884601	0.086232355	2.631084365	0.00851129	0.044388297
CRAMP1L	95.07040845	0.271549419	0.103219545	2.630794573	0.008518551	0.044413732
KITLG	12.17495279	-0.63091368	0.240044821	-2.628316146	0.008580873	0.044726148
PFDN5	4264.888046	-0.241530863	0.091904416	-2.628065915	0.008587187	0.044746547
MSI2	54.22094235	-0.337774208	0.128545306	-2.627666607	0.008597273	0.044786577
SUV420H1	337.6871316	-0.231669374	0.088178333	-2.627282318	0.008606989	0.044824661
TMEM184I	1000.897207	-0.291340821	0.11089917	-2.627078449	0.008612148	0.044838994
SRF	486.3217199	0.122504007	0.046636438	2.626787404	0.008619517	0.044864826
ATP6V1F	143.3691889	0.216432008	0.082415613	2.626104454	0.008636831	0.044907692
NT5E	4.33534953	2.05381266	0.782082358	2.626082331	0.008637392	0.044907692
SHFM1	1826.996127	0.24765207	0.094302777	2.626137628	0.008635989	0.044907692
TWISTNB	178.5331282	0.27042816	0.102971239	2.626249469	0.008633152	0.044907692
USP27X	56.57115288	-0.366116899	0.139550549	-2.623543231	0.00870204	0.04523119
TPK1	416.7807434	0.246790576	0.094087329	2.622994817	0.00871606	0.045291428
LANCL2	247.813769	0.219171309	0.08356244	2.622844783	0.008719899	0.045298744
ZNF84	88.57387592	-0.285322202	0.108806907	-2.622280231	0.008734358	0.045361211
KLHL5	358.7613339	0.182342431	0.069556194	2.621512492	0.008754055	0.045450841
CLIC6	11.32993807	1.139844441	0.434846083	2.621259536	0.008760554	0.045471912
GAMT	5.438794186	-1.149827027	0.438757354	-2.620644454	0.008776374	0.04554134
BLMH	179.5436677	-0.309545039	0.118125618	-2.620473388	0.008780778	0.04555151
VPS36	696.9925862	-0.141957652	0.054181776	-2.620025826	0.008792311	0.045598642
C19orf73	11.81540671	-0.774156842	0.29553157	-2.619540243	0.008804838	0.045650906
NDUFA9	1021.856706	0.272378178	0.104009901	2.618771646	0.0088247	0.045741157
ELP2	111.4670873	-0.41690915	0.159268883	-2.617643465	0.008853926	0.045879883
PCDHGB8F	12.49544263	-0.771143746	0.294652115	-2.617132908	0.008867181	0.045935793
PRKCA	127.8256908	-0.28334314	0.108325303	-2.615669034	0.008905283	0.046120357
FAM176C	8.355916927	-0.906611667	0.346663537	-2.615249573	0.008916228	0.046164209
SLX4	70.92050955	0.31409079	0.120185631	2.613380544	0.008965142	0.04640457
RPA1	560.883477	-0.200043348	0.076565335	-2.612714334	0.008982635	0.046482204
PDK3	54.30703823	-0.640540636	0.245211135	-2.612200446	0.008996149	0.046522042
PRDX6	2871.58164	0.212618525	0.081393216	2.612238886	0.008995138	0.046522042
PURB	323.3538196	0.269492826	0.10316949	2.612136833	0.008997823	0.046522042
DNPEP	237.8019126	0.330483206	0.126544261	2.611601689	0.009011918	0.046581993
NOTCH3	105.0992176	0.452685834	0.173343115	2.611501673	0.009014555	0.046582699
SMG1P1	1571.584472	-0.225356628	0.08633491	-2.610260777	0.009047323	0.046739065
KCTD2	252.7898364	-0.188475115	0.072214542	-2.609932985	0.009055996	0.046770907
SPIN4	182.3369259	0.404840027	0.155129642	2.609688395	0.009062473	0.046791389
MED8	365.523499	0.187005863	0.07166259	2.609532567	0.009066602	0.046799738
HCST	1029.21713	0.210411018	0.080641254	2.609223039	0.009074807	0.046803749
SCGB1A1	13.7188764	1.366163496	0.523567791	2.609334491	0.009071852	0.046803749
TMEM41B	249.3695886	0.355720967	0.136333595	2.609195238	0.009075545	0.046803749
ZNF569	54.78366871	-0.347561495	0.133210017	-2.609124323	0.009077426	0.046803749
PLEKHG4	12.05997841	-0.738072277	0.282967779	-2.608326218	0.00909862	0.04690005
KCNS3	1.692789282	1.917863043	0.735383078	2.607978211	0.009107875	0.046934775
PCDHGA12	16.41483521	0.668835101	0.256544693	2.607089988	0.009131536	0.047043693
ASF1A	298.3661736	-0.255953317	0.098266941	-2.604673694	0.00919618	0.047337461
PARK2	8.934603848	-0.875024992	0.33593406	-2.604752231	0.009194072	0.047337461
RPL23A	274.789786	0.257558983	0.098882636	2.604693747	0.009195641	0.047337461
SDC3	334.0353912	-0.356057497	0.1367115	-2.604444375	0.009202336	0.047356068

CYBB	13787.73318	0.272181479	0.104540042	2.603609817	0.009224771	0.047458416
SUZ12P1	89.51473354	-0.249517239	0.095864775	-2.60280419	0.009246475	0.047556945
NUCB2	119.0262535	-0.27471767	0.105572468	-2.602171518	0.009263551	0.047621073
TJP2	107.6918991	0.300780681	0.115589166	2.602152879	0.009264054	0.047621073
HMGN3	57.56803642	-0.524476607	0.201599301	-2.601579498	0.009279556	0.047680786
PSENE1	453.9558806	-0.172792196	0.066419351	-2.601533933	0.009280788	0.047680786
MARK4	199.805678	-0.218565421	0.0840325	-2.600962965	0.009296249	0.047747051
SRP68	397.1278744	0.167633251	0.064480969	2.599732189	0.009329654	0.047902192
ZNF35	57.63645064	-0.334732913	0.128760228	-2.599660758	0.009331596	0.047902192
AKTIP	303.691323	-0.246805442	0.094958986	-2.599074121	0.009347559	0.047967405
TMEM30A	2465.219728	-0.149547816	0.057540417	-2.599004743	0.009349448	0.047967405
ESYT1	3482.603226	-0.179412885	0.0690388	-2.598725423	0.009357059	0.047993237
GTF2A2	668.2700267	-0.160538269	0.061812082	-2.597198885	0.009398749	0.048193804
FOLR2	4.472509353	-1.378687536	0.531036058	-2.596222076	0.009425512	0.048317743
RNASE2	4.728410205	-1.286548705	0.495820657	-2.594786415	0.009464972	0.048506678
PMF1	342.7884326	-0.164741932	0.063498154	-2.594436561	0.00947461	0.048542721
HS6ST1	166.5107956	-0.201488767	0.077697145	-2.593258307	0.009507134	0.048695967
CPNE3	544.265898	-0.280517972	0.108188252	-2.592869067	0.0095179	0.048710944
LOC154093	18.76252027	0.609252048	0.234962728	2.592973165	0.009515019	0.048710944
SUPT3H	43.70958661	-0.324169732	0.125021399	-2.592913971	0.009516657	0.048710944
SIRT1	116.3634959	-0.302954357	0.116848042	-2.592720861	0.009522002	0.048718557
MIB2	45.20613212	-0.353724682	0.136435222	-2.592619978	0.009524795	0.048719471
SESN1	218.5632943	-0.49501298	0.191081651	-2.590583535	0.009581336	0.048995232
KCNK6	30.27967546	-0.729173915	0.281565353	-2.589714634	0.009605552	0.049105586
EDA	8.953027126	-1.013390928	0.391484942	-2.58858214	0.009637196	0.049253842
TYW5	23.33008403	0.507600675	0.196109962	2.588347225	0.009643772	0.049273934
MIIP	639.6656225	0.157796265	0.060966996	2.588224381	0.009647212	0.049277999
LOH12CR1	262.5710835	0.187143452	0.072327443	2.587447372	0.009668996	0.049375741
GPAM	63.64249775	-0.333984392	0.12908777	-2.587265948	0.009674089	0.049388214
CYTH2	270.696884	0.21174893	0.081857345	2.586804288	0.00968706	0.049439009
TRMT6	173.8004601	0.23326331	0.090177151	2.586722987	0.009689345	0.049439009
FAH	123.3301882	-0.324979127	0.125640319	-2.586583117	0.009693279	0.04944554
TRAPPC12	772.4940643	-0.199701437	0.077243796	-2.585339492	0.009728316	0.049610682
ENGASE	67.38876631	-0.445914485	0.172487744	-2.585195177	0.009732389	0.049617875
PARP4	1520.948808	-0.147090767	0.05691381	-2.58444771	0.009753509	0.049711951
PFKFB3	615.1946951	-0.383001118	0.148252569	-2.583436635	0.009782143	0.049844261
ATP1B3	2869.933835	0.189528294	0.073366745	2.583299766	0.009786025	0.049850409
UBR5	383.4489487	-0.227122379	0.087931557	-2.582945049	0.009796092	0.049888053
LHPP	334.9664673	-0.274444495	0.106284296	-2.582173532	0.00981802	0.049958763
MOGAT1	25.06014812	-0.504108725	0.195212352	-2.58236079	0.009812694	0.049958763
ZNF174	128.832971	-0.263871624	0.102189267	-2.58218531	0.009817685	0.049958763