

Supplemental Table S4

	baseMean	log2FoldChan	lfcSE	stat	pvalue	padj
SEZ6L	7644.27755	-1.3828236	0.11640023	-11.879905	1.51E-32	1.07E-28
KCTD12	3507.97434	-1.6316529	0.13893407	-11.74408	7.57E-32	3.60E-28
MYO10	6864.2791	-0.7022987	0.06482502	-10.833759	2.38E-27	8.50E-24
NUDT4	6484.36526	-1.2265587	0.11855752	-10.345684	4.38E-25	1.25E-21
ADAMTSL2	1140.27125	-1.3847389	0.1378143	-10.047861	9.39E-24	1.91E-20
C12orf75	5018.92541	-1.4663943	0.15599519	-9.4002529	5.44E-21	8.63E-18
TMEM45B	7614.63966	-0.7377087	0.08110715	-9.0954826	9.42E-20	1.34E-16
TSPAN2	3747.12343	-1.1025167	0.12193734	-9.0416658	1.54E-19	1.84E-16
RAB3B	7464.59268	-0.7971116	0.08808473	-9.0493738	1.44E-19	1.84E-16
GCH1	7205.27655	-0.899438	0.10146493	-8.8645203	7.68E-19	8.44E-16
LRRFIP1	5840.56956	-0.5896626	0.06666947	-8.8445675	9.19E-19	9.37E-16
SLC16A12	800.188448	-1.3111319	0.15019661	-8.7294373	2.56E-18	2.44E-15
ARFGEF3	10985.1505	-0.5030531	0.05838533	-8.6160883	6.93E-18	6.18E-15
PLXDC2	741.355766	-1.6410884	0.19221625	-8.5377195	1.37E-17	1.15E-14
ISL1	10481.753	-0.6551218	0.07697062	-8.5113224	1.72E-17	1.29E-14
NFASC	3401.42046	-0.5884193	0.07055017	-8.3404373	7.40E-17	5.28E-14
IDS	29752.9962	-0.6266323	0.07647296	-8.1941678	2.52E-16	1.64E-13
ECI2	1822.46141	-1.0575491	0.1294371	-8.1703703	3.07E-16	1.91E-13
PARM1	30651.3829	-0.4723068	0.0580031	-8.1427865	3.86E-16	2.30E-13
HSPA1A	24920.2602	-0.656521	0.08240214	-7.9672801	1.62E-15	9.26E-13
EXTL3	2140.58656	-0.6431231	0.08217722	-7.8260513	5.03E-15	2.66E-12
QDPR	7477.64384	-0.5121402	0.06633165	-7.7209036	1.16E-14	5.89E-12
TNFRSF21	10284.1289	-0.493673	0.06420279	-7.6892763	1.48E-14	7.28E-12
SLC30A8	29078.7202	-0.7943871	0.10553647	-7.5271339	5.19E-14	2.47E-11
PTPRT	1794.3405	-1.3471754	0.17970833	-7.4964552	6.56E-14	3.02E-11
NPNT	11138.5117	-0.6900398	0.09235363	-7.4717123	7.92E-14	3.53E-11
CYP4F3	211.508051	-3.7123553	0.49905834	-7.4387202	1.02E-13	4.40E-11
KCNA5	1344.68473	-1.3645636	0.18364965	-7.4302544	1.08E-13	4.55E-11
HSPA1B	14193.6656	-0.5457647	0.07383593	-7.3915874	1.45E-13	5.92E-11
ARHGAP1	4486.63396	-0.5835766	0.07959541	-7.3317866	2.27E-13	9.00E-11
USH2A	330.857357	-1.4390314	0.19899971	-7.231324	4.78E-13	1.75E-10
TMEM59	38472.8074	-0.3875062	0.05357487	-7.2329842	4.72E-13	1.75E-10
CAMK2G	641.037332	-1.779354	0.24720806	-7.1977995	6.12E-13	2.18E-10
ADCY2	1572.9232	-1.5377715	0.21607437	-7.1168622	1.10E-12	3.75E-10
GLT8D2	341.524346	-1.7682689	0.25144873	-7.0323238	2.03E-12	6.74E-10
SSR1	10496.3387	-0.4046996	0.05776923	-7.0054519	2.46E-12	7.81E-10
SDC2	7343.72319	-0.743344	0.10617687	-7.0009977	2.54E-12	7.89E-10
PCP4	885.091784	-1.5995948	0.23122141	-6.9180222	4.58E-12	1.36E-09
CALY	1818.98268	-0.7426859	0.10730466	-6.9212824	4.48E-12	1.36E-09
DNAJC6	1401.64795	-0.7546321	0.10914848	-6.9138123	4.72E-12	1.37E-09
GPX4	7852.38743	-0.6756296	0.0982124	-6.8792703	6.02E-12	1.72E-09

IRF6	2879.83711	-0.5779244	0.08410197	-6.8717106	6.34E-12	1.78E-09
ATP5G2	3571.5987	-0.7666793	0.11172445	-6.8622336	6.78E-12	1.86E-09
ENPP4	3163.28892	-0.5880314	0.0862672	-6.816397	9.34E-12	2.47E-09
SCGN	15753.6491	-0.6934153	0.1018988	-6.8049407	1.01E-11	2.62E-09
CD164	33398.688	-0.4352363	0.06463525	-6.7337299	1.65E-11	4.22E-09
NFIC	1744.83787	-0.8459136	0.1267167	-6.6756282	2.46E-11	6.16E-09
NAAA	862.263489	-0.8382373	0.12666427	-6.6177875	3.65E-11	8.67E-09
PAK3	10007.8606	-0.5789957	0.08756849	-6.611918	3.79E-11	8.73E-09
CD14	1743.25865	-0.7373668	0.11159816	-6.6073383	3.91E-11	8.87E-09
ARF1	15678.3174	-0.717265	0.10871537	-6.5976412	4.18E-11	9.32E-09
NBEAL2	980.680209	-0.7455446	0.11388041	-6.5467332	5.88E-11	1.27E-08
KLHDC8A	361.938048	-1.8201612	0.27840483	-6.5378218	6.24E-11	1.31E-08
GPR119	3568.26949	-0.9134954	0.13967259	-6.5402628	6.14E-11	1.31E-08
RAB26	2100.25211	-0.8920667	0.13806908	-6.4610172	1.04E-10	2.12E-08
RFX6	5664.50983	-2.2730907	0.3536347	-6.4277933	1.29E-10	2.60E-08
MUC13	33356.2238	-0.4733081	0.07393529	-6.4016529	1.54E-10	3.05E-08
PLCE1	3761.47812	-1.0317084	0.16286035	-6.3349264	2.37E-10	4.64E-08
SLC5A1	2673.88863	-2.2058982	0.35026173	-6.2978567	3.02E-10	5.82E-08
CD99	33886.0537	-0.3363469	0.05349108	-6.287905	3.22E-10	6.12E-08
GPR148	125.212034	-2.6342729	0.42165474	-6.2474643	4.17E-10	7.84E-08
DSP	22652.7292	-0.4514674	0.07256275	-6.2217518	4.92E-10	9.11E-08
AF011889.5	9341.51987	-0.6941778	0.11254635	-6.1679276	6.92E-10	1.25E-07
CTSB	45807.6505	-0.5448483	0.08837275	-6.1653426	7.03E-10	1.25E-07
FAM84A	3536.86562	-0.5049901	0.08190469	-6.1655827	7.02E-10	1.25E-07
CXCL1	2389.72752	-1.0088294	0.16441897	-6.135724	8.48E-10	1.48E-07
EPG5	1234.97544	-1.1769002	0.19193159	-6.1318733	8.69E-10	1.49E-07
GALNT13	1687.91354	-0.9012351	0.14708859	-6.1271587	8.95E-10	1.52E-07
NCAM1	3665.09763	-0.5535478	0.09045703	-6.1194562	9.39E-10	1.58E-07
NOMO2	9664.02219	-0.6340074	0.10377935	-6.1091864	1.00E-09	1.64E-07
HEPACAM2	5331.91828	-0.6206595	0.10277804	-6.0388338	1.55E-09	2.49E-07
SLC22A17	1818.00899	-0.66865	0.1107743	-6.0361471	1.58E-09	2.50E-07
UCN3	589.599546	-1.280674	0.21224325	-6.0339915	1.60E-09	2.51E-07
RGS9	2443.12481	-0.8618146	0.1432694	-6.0153431	1.80E-09	2.79E-07
RAPGEF4	749.060661	-1.1036447	0.18365428	-6.0093602	1.86E-09	2.86E-07
CPSF6	4207.69283	-0.4213748	0.07019867	-6.0026039	1.94E-09	2.95E-07
SUMF2	6286.55775	-0.5940475	0.09939309	-5.9767483	2.28E-09	3.42E-07
TGFBR1	1391.71392	-0.5888033	0.09873854	-5.9632575	2.47E-09	3.68E-07
SSTR2	4941.84186	-0.5060173	0.08537293	-5.9271398	3.08E-09	4.54E-07
AGT	6805.08697	-0.4356324	0.07357521	-5.9209135	3.20E-09	4.66E-07
BAMBI	1432.59137	-0.7527618	0.12876601	-5.8459665	5.04E-09	7.26E-07
PDE4DIP	7804.11098	-0.4219663	0.0723746	-5.8303085	5.53E-09	7.90E-07
FAM46C	2992.70881	-0.5911875	0.10222575	-5.7831561	7.33E-09	1.02E-06
FLNB	7021.70273	-0.4505457	0.07799712	-5.7764402	7.63E-09	1.05E-06

EIF4B	4097.97719	-0.410096	0.07108732	-5.7689045	7.98E-09	1.08E-06
MGAT4A	3254.11871	-0.5605986	0.09749865	-5.7498095	8.93E-09	1.19E-06
BTG3	2615.83904	-0.5603569	0.09762103	-5.7401245	9.46E-09	1.25E-06
MOB1B	3399.86149	-0.563491	0.09827869	-5.733603	9.83E-09	1.29E-06
REEP4	1397.72553	-0.7608044	0.13347184	-5.7001119	1.20E-08	1.55E-06
TPST2	687.916736	-1.553819	0.27305027	-5.6905968	1.27E-08	1.63E-06
DZIP3	3111.48527	-0.4497732	0.07928843	-5.672621	1.41E-08	1.79E-06
MBOAT2	4049.08083	-0.5557226	0.09803309	-5.668725	1.44E-08	1.82E-06
FBN1	486.643989	-1.2536817	0.22184552	-5.651147	1.59E-08	1.98E-06
HSPH1	8187.0534	-0.3747999	0.06639952	-5.6446171	1.66E-08	2.04E-06
TIAM1	1645.15418	-0.6117165	0.10847288	-5.6393495	1.71E-08	2.08E-06
LMAN1	11183.7155	-0.3662606	0.06515668	-5.621229	1.90E-08	2.29E-06
GCNT1	2923.35823	-0.5249364	0.09357346	-5.6098853	2.02E-08	2.43E-06
PLK2	20569.7667	-0.571959	0.10342603	-5.5301266	3.20E-08	3.74E-06
ELL2	22701.8134	-0.3495737	0.06330467	-5.5220846	3.35E-08	3.89E-06
ANKRD36C	1559.77426	-0.5272203	0.0966388	-5.4555763	4.88E-08	5.57E-06
GPX3	56201.9835	-0.4907962	0.09032021	-5.4339576	5.51E-08	6.19E-06
SIGLEC15	119.657158	-2.8201705	0.51928314	-5.4308917	5.61E-08	6.25E-06
PEG10	13068.2323	-0.4864841	0.08995699	-5.4079632	6.37E-08	7.05E-06
PTGER4	929.90853	-1.1614528	0.21561279	-5.3867528	7.17E-08	7.82E-06
RIMBP2	2222.54743	-0.569416	0.10698991	-5.3221464	1.03E-07	1.09E-05
MAGED1	9785.0303	-0.358105	0.06766608	-5.2922379	1.21E-07	1.28E-05
PRSS23	2880.69437	-0.6927732	0.13119603	-5.2804428	1.29E-07	1.34E-05
CHGA	96703.1149	-0.5274378	0.09990409	-5.2794416	1.30E-07	1.34E-05
TMX1	3445.63042	-0.4246682	0.08043927	-5.2793645	1.30E-07	1.34E-05
BAIAP3	941.762805	-1.3436756	0.25529969	-5.2631305	1.42E-07	1.45E-05
PELI3	1162.61477	-0.8010574	0.15286222	-5.2403881	1.60E-07	1.63E-05
DHRS2	1788.32554	-0.7836816	0.14977064	-5.2325451	1.67E-07	1.68E-05
MLXIPL	756.953957	-0.692047	0.13242906	-5.2257938	1.73E-07	1.73E-05
KCNMA1	7331.17234	-0.3789887	0.07271947	-5.211654	1.87E-07	1.84E-05
ASXL3	1276.539	-0.8023736	0.15521489	-5.1694369	2.35E-07	2.28E-05
LDB2	353.751564	-2.1619397	0.41933481	-5.155641	2.53E-07	2.44E-05
NOMO1	12368.7438	-0.6170885	0.11991443	-5.1460739	2.66E-07	2.53E-05
NTRK2	694.681026	-0.8855201	0.17332851	-5.1089123	3.24E-07	3.04E-05
KLHL41	2530.99262	-0.7482296	0.14745643	-5.0742422	3.89E-07	3.61E-05
HIPK2	4221.5464	-0.3277314	0.06503312	-5.0394536	4.67E-07	4.30E-05
SCARB2	35609.5244	-0.3363431	0.06690045	-5.0275164	4.97E-07	4.55E-05
SLC25A53	1203.03566	-0.6798824	0.13758098	-4.941689	7.74E-07	6.82E-05
IVNS1ABP	7258.83201	-0.3635434	0.07370079	-4.9326936	8.11E-07	7.10E-05
ETFDH	3136.49832	-0.3706986	0.07524104	-4.926814	8.36E-07	7.27E-05
SLC14A1	77.5246003	-4.6568285	0.95180907	-4.8926078	9.95E-07	8.40E-05
CDCP1	3428.72555	-0.3689773	0.07546646	-4.8892886	1.01E-06	8.50E-05
DCK	1811.94579	-0.5298065	0.1086861	-4.8746481	1.09E-06	9.10E-05

BAG3	1872.50061	-0.4533542	0.09304026	-4.8726674	1.10E-06	9.12E-05
PAM	52998.1058	-0.3489341	0.07162205	-4.8718811	1.11E-06	9.12E-05
LMBRD1	4067.19052	-0.4314967	0.08860814	-4.8697185	1.12E-06	9.17E-05
PTPRN	58857.1752	-0.3666364	0.07557674	-4.85118	1.23E-06	0.00010011
WFS1	7769.3729	-0.3135666	0.0649172	-4.8302547	1.36E-06	0.00010997
APLP2	15890.2423	-0.2545924	0.0528916	-4.8134743	1.48E-06	0.00011895
MAP1A	2029.48895	-0.8227212	0.17138682	-4.800376	1.58E-06	0.00012629
NOMO3	3348.70833	-0.5030238	0.1048603	-4.7970851	1.61E-06	0.00012696
OPN3	2102.69654	-0.4626029	0.09641311	-4.7981325	1.60E-06	0.00012696
CACNA2D2	759.014369	-0.6793685	0.14187535	-4.7884887	1.68E-06	0.00013036
SORT1	9099.51842	-0.4585399	0.09574621	-4.7891175	1.68E-06	0.00013036
C21orf58	552.020457	-1.0761476	0.22494705	-4.7840042	1.72E-06	0.00013258
RPL3	20168.1391	-0.2518301	0.05310095	-4.7424772	2.11E-06	0.00016202
FXYD5	5612.13666	-0.6056053	0.12798142	-4.7319782	2.22E-06	0.00016972
ABCG2	813.741948	-0.8152398	0.17261501	-4.7228788	2.33E-06	0.00017655
TGOLN2	10741.9961	-0.3145699	0.06662959	-4.7211743	2.34E-06	0.00017709
SPTAN1	3509.93954	-0.4083111	0.08672384	-4.7081761	2.50E-06	0.00018582
RBP4	2900.47491	-0.5664688	0.12075604	-4.6910184	2.72E-06	0.00019697
CCNY	2443.84348	-0.5225661	0.11133902	-4.6934678	2.69E-06	0.00019697
USP38	2490.37936	-0.4739155	0.10102457	-4.6910915	2.72E-06	0.00019697
TMEM200A	4865.84147	-0.5250011	0.11254808	-4.664683	3.09E-06	0.00022171
EFR3A	4961.51952	-0.4010859	0.08703159	-4.6085094	4.06E-06	0.00028378
TMED3	9429.72675	-0.3153356	0.06844052	-4.6074402	4.08E-06	0.00028385
ITGB8	1627.27793	-0.5825385	0.1265378	-4.6036721	4.15E-06	0.00028763
F13A1	62.2685373	-4.3812421	0.95227036	-4.6008384	4.21E-06	0.00029017
KMO	537.218278	-0.8427485	0.1835215	-4.592097	4.39E-06	0.00029903
RNASET2	603.261425	-0.7238188	0.15791278	-4.5836623	4.57E-06	0.00030619
STAT4	1127.56272	-0.6613115	0.14446947	-4.5775169	4.71E-06	0.00031385
MAFB	7472.22279	-0.3947918	0.08714667	-4.5302001	5.89E-06	0.00038408
DNAJB1	10536.9718	-0.4767447	0.10548463	-4.5195657	6.20E-06	0.00039666
NUCB2	7338.16402	-0.267283	0.05913919	-4.519558	6.20E-06	0.00039666
CTNND2	1576.93169	-0.6151525	0.13638207	-4.5105087	6.47E-06	0.00041211
GYG2	406.605773	-1.102718	0.24534468	-4.4945665	6.97E-06	0.00043643
CREB3L2	2312.00646	-0.5245155	0.1171826	-4.4760527	7.60E-06	0.00047188
KCTD3	2595.59547	-0.4220875	0.0944578	-4.4685293	7.88E-06	0.00048667
SEC24D	8183.6631	-0.4039407	0.09052923	-4.4619917	8.12E-06	0.0004996
GCLM	4139.16257	-0.4903727	0.11004789	-4.4559938	8.35E-06	0.00050938
PRDX4	9487.2624	-0.37506	0.08415465	-4.4567948	8.32E-06	0.00050938
DAZAP2	5982.22851	-0.3287583	0.07393871	-4.4463629	8.73E-06	0.00052601
IGFBPL1	792.288726	-0.635351	0.14311812	-4.4393473	9.02E-06	0.00054117
HOMER2	684.864323	-0.6823572	0.15394139	-4.4325777	9.31E-06	0.00055149
SCG3	13184.4506	-0.2908491	0.06560486	-4.4333461	9.28E-06	0.00055149
ADAMTS2	876.846795	-1.1064768	0.25102454	-4.4078432	1.04E-05	0.00061077

C22orf42	148.000798	-2.2637788	0.51390574	-4.4050468	1.06E-05	0.00061618
ENPP1	3471.52607	-0.4648742	0.10571486	-4.397435	1.10E-05	0.00063559
FAM46A	11991.2281	-0.2952345	0.0671945	-4.393731	1.11E-05	0.0006413
TMED10	17090.7387	-0.2342315	0.05345636	-4.3817331	1.18E-05	0.00066956
DSCAML1	704.655031	-0.6424417	0.14744213	-4.3572467	1.32E-05	0.00074309
SLC22A4	761.153734	-0.8009631	0.1840082	-4.352866	1.34E-05	0.00075215
USP37	973.685185	-0.565916	0.12999137	-4.3534886	1.34E-05	0.00075215
CTSO	983.010559	-0.6998515	0.16087943	-4.3501617	1.36E-05	0.00075851
ALDH1A1	42475.1268	-1.9366707	0.44576122	-4.3446369	1.40E-05	0.00077389
PRKCE	1106.08088	-0.7528223	0.17329957	-4.3440517	1.40E-05	0.00077389
ELOVL4	1020.41234	-0.5080317	0.1172698	-4.3321612	1.48E-05	0.00081061
RNASE4	872.113524	-0.7257687	0.16769363	-4.3279444	1.51E-05	0.00082036
MATN2	894.901937	-0.6037089	0.13949418	-4.3278432	1.51E-05	0.00082036
CSRNP3	1003.59845	-0.5687055	0.13144699	-4.326501	1.51E-05	0.00082223
CACNA1A	871.130167	-0.6904711	0.15974585	-4.3223097	1.54E-05	0.00083169
CAPN2	5919.05962	-0.4371445	0.10118235	-4.3203634	1.56E-05	0.0008359
ANGPTL4	1302.15026	-0.8490845	0.19685932	-4.3131538	1.61E-05	0.0008572
LGI3	181.219396	-1.5115816	0.35122263	-4.3037706	1.68E-05	0.00088819
CPE	154141.623	-0.2360435	0.05484724	-4.3036525	1.68E-05	0.00088819
CXorf57	1727.03068	-0.518647	0.12074622	-4.2953476	1.74E-05	0.0009187
FGF14	1448.60345	-0.508669	0.11875152	-4.2834737	1.84E-05	0.00096558
PVR	6131.84545	-0.2579264	0.06028949	-4.2781316	1.88E-05	0.00098183
METTL9	2984.15315	-0.3105067	0.0728877	-4.2600692	2.04E-05	0.00106076
SGMS2	4060.5463	-0.4338652	0.10227383	-4.2421922	2.21E-05	0.00114475
CD320	2200.60714	-0.4468108	0.10563828	-4.2296298	2.34E-05	0.00120621
SRRM2	12328.9091	-0.2981001	0.07049823	-4.2284765	2.35E-05	0.00120805
TTC3	8885.83859	-0.2354866	0.05583831	-4.2172939	2.47E-05	0.00126045
MAN1A1	20038.1634	-0.3336785	0.07916338	-4.2150607	2.50E-05	0.00126846
MACF1	10033.58	-0.2903602	0.06893218	-4.2122594	2.53E-05	0.00127975
TUBA1A	46845.0807	-0.3944382	0.0941248	-4.1905872	2.78E-05	0.00139842
SUN1	7728.75843	-0.4851972	0.11591699	-4.1857297	2.84E-05	0.00142365
CDH10	2459.11421	-0.3643231	0.08707303	-4.1841098	2.86E-05	0.00142883
EPHX2	1373.38956	-0.4563083	0.10938658	-4.1715202	3.03E-05	0.00150486
HIP1R	2436.71397	-0.4924256	0.11886622	-4.1426871	3.43E-05	0.00168374
NT5DC3	719.687768	-0.7641641	0.18479747	-4.1351437	3.55E-05	0.00172814
MDH2	12967.9927	-0.2817341	0.06839883	-4.1189901	3.81E-05	0.00182888
CNPY2	4976.65641	-0.4989164	0.12116713	-4.1175889	3.83E-05	0.00183386
SYTL2	268.947076	-1.4669661	0.35721096	-4.106722	4.01E-05	0.00190945
EPPK1	318.479968	-0.9845937	0.24046543	-4.0945332	4.23E-05	0.0019928
UCP2	1113.48707	-0.9726186	0.23863405	-4.0757744	4.59E-05	0.0021393
CYS1	18.866928	-4.7215157	1.16068785	-4.06786	4.74E-05	0.00220605
ZBTB41	1886.16953	-0.4631679	0.11421009	-4.0554025	5.00E-05	0.0022897
CBFB	2927.55272	-0.3653684	0.09042588	-4.040529	5.33E-05	0.00242434

TMEM132D	1041.05741	-0.5911101	0.14638893	-4.0379422	5.39E-05	0.00243571
PTPRN2	10398.5504	-0.3779385	0.09387744	-4.0258707	5.68E-05	0.00255603
HLTF	2299.46002	-0.4014572	0.0998001	-4.0226128	5.76E-05	0.00258351
EIF4EBP2	1979.74859	-0.4502187	0.11204468	-4.0182064	5.86E-05	0.00260768
HSPA8	49863.3665	-0.214474	0.05340859	-4.0157214	5.93E-05	0.002619
RGPD6	1970.35568	-0.5244644	0.13071103	-4.0123956	6.01E-05	0.00264799
JAK2	760.051478	-0.6135609	0.15340173	-3.9997	6.34E-05	0.00277699
SNED1	877.51864	-0.61305	0.15337152	-3.9971569	6.41E-05	0.00279839
CAPN6	87.2686305	-2.7286015	0.68347473	-3.9922494	6.54E-05	0.00283959
RP13.58209.6	38.0529476	-4.1934629	1.05228058	-3.9851186	6.74E-05	0.00291737
USO1	4618.83667	-0.2782113	0.07003838	-3.97227	7.12E-05	0.00305159
PHKA1	779.706782	-0.6810407	0.17152572	-3.9704872	7.17E-05	0.00305616
MACC1	757.441945	-0.6219717	0.15663978	-3.9707135	7.17E-05	0.00305616
ARHGEF9	966.147324	-0.6457525	0.16268803	-3.9692686	7.21E-05	0.00306269
MYO5B	3058.9687	-0.353842	0.08932799	-3.961155	7.46E-05	0.00314062
IRF2	719.659562	-0.6693513	0.16926285	-3.954508	7.67E-05	0.00321972
EXPH5	2845.93776	-0.4279972	0.10835441	-3.9499754	7.82E-05	0.00326212
NCALD	2208.26551	-0.4757431	0.12050035	-3.9480641	7.88E-05	0.00327868
MMRN1	1335.4287	-1.8571173	0.47206994	-3.9339876	8.35E-05	0.00346676
LDHA	21124.2253	-0.3353096	0.08542411	-3.9252337	8.66E-05	0.00358318
HIST1H2BC	825.865971	-0.5908382	0.15118226	-3.9081186	9.30E-05	0.00381533
PDE8A	1613.62649	-0.3856255	0.09893345	-3.8978275	9.71E-05	0.00395837
LRRTM2	600.472432	-0.6292443	0.16150278	-3.8961824	9.77E-05	0.00397398
ALDH2	1770.44707	-0.6038861	0.15507781	-3.8940849	9.86E-05	0.00398581
THUMPD1	1515.84528	-0.4288599	0.11026932	-3.8892043	0.00010057	0.00405533
SYT4	12753.1298	-0.2761284	0.07106556	-3.8855453	0.0001021	0.00409377
PCSK1	5371.41235	-0.571566	0.14720649	-3.88275	0.00010328	0.00412953
CTSE	130.464325	-2.1212873	0.54773204	-3.8728559	0.00010757	0.00427683
C15orf48	1058.16064	-0.8635119	0.22300383	-3.8721841	0.00010786	0.00427683
FOXP2	1117.88785	-0.5997698	0.15492959	-3.8712411	0.00010828	0.00427722
RCAN3	2423.29567	-0.395146	0.10221002	-3.8660206	0.00011063	0.0043381
IFNB1	41.4889923	-3.4313434	0.89034541	-3.8539464	0.00011623	0.0045083
SEL1L3	3074.11949	-0.3342282	0.08669591	-3.855178	0.00011565	0.0045083
EPCAM	24968.4571	-0.178206	0.04631078	-3.8480459	0.00011906	0.00459329
CADPS	4903.40102	-0.2583034	0.0672492	-3.8409889	0.00012254	0.00471464
ZNF618	997.372431	-0.4986497	0.12986448	-3.8397701	0.00012315	0.00472537
ALDH4A1	94.5354544	-1.3918796	0.36547397	-3.8084233	0.00013986	0.00535201
FEV	1458.27687	-0.5977158	0.15704589	-3.8059948	0.00014124	0.00539036
CACNA1C	1476.04562	-0.4032809	0.10606226	-3.8023036	0.00014336	0.00544222
ATRAID	7775.10163	-0.2458628	0.06465808	-3.8025069	0.00014324	0.00544222
SMPDL3B	869.573421	-0.5527082	0.14565657	-3.7945985	0.00014788	0.00558433
FKBP2	5105.0469	-0.3074399	0.08108113	-3.791757	0.00014959	0.0056319
SPINT2	33703.1474	-0.2049266	0.05415305	-3.7842117	0.0001542	0.00576178

DERL1	4094.32531	-0.2963051	0.07869635	-3.765169	0.00016644	0.00620291
ADGRG2	1166.18405	-0.7510286	0.19955109	-3.7635904	0.00016749	0.00622596
FOLR1	23.6767551	-4.5815776	1.2175733	-3.7628762	0.00016797	0.00622756
EYS	530.692174	-0.969704	0.25797446	-3.7589147	0.00017065	0.00631059
VIM	21970.1171	-1.2449465	0.33165089	-3.7537859	0.00017418	0.00642454
TBC1D23	2214.29802	-0.34483	0.09199591	-3.7483192	0.00017802	0.00654925
RFX3	906.135141	-0.4848129	0.12945705	-3.744971	0.00018042	0.00662015
NRCAM	4316.57648	-0.4162354	0.11123651	-3.7418956	0.00018264	0.00668453
RPS2	13501.537	-0.3380679	0.09048547	-3.7361563	0.00018686	0.00682139
FAM114A1	835.499007	-0.5478581	0.14674205	-3.7334772	0.00018885	0.0068768
PDIA5	338.120404	-1.0729826	0.28752995	-3.7317247	0.00019017	0.00690721
NDUFA7	1548.30225	-0.4877459	0.13095528	-3.7245228	0.00019569	0.00705356
GOLM1	5551.29165	-0.2396268	0.06433024	-3.7249476	0.00019536	0.00705356
ANKHD1.EIF4	456.584075	-0.6677185	0.17936619	-3.7226556	0.00019714	0.00708804
RAP1GAP2	2095.55451	-0.4198714	0.11282833	-3.7213293	0.00019818	0.00708966
SLC7A8	4197.69748	-0.3559081	0.09563438	-3.7215499	0.000198	0.00708966
NPTX2	1158.54882	-0.7895637	0.2134838	-3.6984713	0.0002169	0.00770164
FRK	1182.13669	-0.4413345	0.11932165	-3.6986963	0.00021671	0.00770164
KAT6B	1639.49793	-0.3707574	0.1008127	-3.6776852	0.00023536	0.00831567
ALDOB	122.857969	-2.4303694	0.66150922	-3.6739766	0.00023881	0.00841654
SEPHS1	1694.67653	-0.3778123	0.10306711	-3.6656925	0.00024667	0.00863726
ITGAV	7501.57682	-0.3329031	0.09086427	-3.6637404	0.00024856	0.00867464
SMARCA2	8963.53422	-0.2225915	0.06089188	-3.6555202	0.00025666	0.00891382
GIT1	2200.67818	-0.3745367	0.10250447	-3.6538568	0.00025833	0.00895002
GLUL	11139.8881	-0.4102722	0.11257382	-3.6444727	0.00026794	0.00923813
ACLY	10787.0861	-0.3688295	0.10143228	-3.6362142	0.00027667	0.00951626
CDH2	356.67488	-0.7356971	0.20276938	-3.6282458	0.00028535	0.00972109
TANC2	1319.77635	-0.3869286	0.10698721	-3.6165876	0.00029851	0.01012106
F3	665.617155	-0.9376475	0.25941651	-3.614448	0.00030099	0.01018082
RFX5	1221.8222	-0.6497439	0.17984879	-3.6127231	0.000303	0.01019893
LPCAT1	2563.61842	-0.344928	0.095491	-3.6121515	0.00030367	0.01019893
NECAB2	320.535712	-0.8557496	0.23713806	-3.6086559	0.00030779	0.0102889
TMEM64	1288.69312	-0.4427953	0.12274091	-3.6075606	0.00030909	0.01030828
TUBA1B	35532.8408	-0.2176259	0.06038702	-3.6038515	0.00031354	0.01041414
P4HTM	10586.5824	-0.2321421	0.06448346	-3.6000251	0.00031819	0.01051341
SERPINB1	4293.56898	-0.2616013	0.07272275	-3.5972415	0.00032161	0.01060199
SHROOM3	1200.0696	-0.4760295	0.13235826	-3.596523	0.0003225	0.0106068
FOXN3	1181.92465	-0.6992139	0.19524286	-3.5812523	0.00034195	0.01118625
CLCN4	1253.44871	-0.3970571	0.11110663	-3.5736582	0.00035203	0.01147227
PANX1	2597.24799	-0.4115988	0.11539438	-3.5668873	0.00036125	0.01166615
TMEM132B	376.661815	-0.8866182	0.24994667	-3.5472294	0.00038931	0.01245952
VWA5A	12591.9224	-0.2313459	0.06521208	-3.5475922	0.00038877	0.01245952
UGGT1	2588.21404	-0.4227586	0.12008684	-3.5204411	0.00043083	0.01357585

F2	55.1802513	-1.8347894	0.52311602	-3.5074234	0.00045247	0.01413246
NDFIP1	7230.58801	-0.2422131	0.06904504	-3.5080445	0.00045141	0.01413246
ANKRD37	515.295441	-0.650149	0.18644787	-3.4870283	0.00048842	0.0151222
CLINT1	2855.40159	-0.27445	0.07871875	-3.4864629	0.00048945	0.0151222
TECR	5856.92894	-0.302392	0.08677877	-3.4846317	0.00049282	0.01519317
HINT3	1123.17606	-0.4973807	0.14283485	-3.4822081	0.0004973	0.01526542
SLC29A1	4256.22143	-0.3655541	0.10502298	-3.4807063	0.00050009	0.01531832
COBL	507.203117	-0.6413231	0.18462566	-3.47364	0.00051345	0.01569374
C21orf91	264.513928	-0.7210912	0.20777877	-3.4704756	0.00051954	0.01577847
NET1	2135.7377	-0.2899988	0.08363576	-3.4674026	0.00052551	0.01592609
YIPF2	2189.75617	-0.3004902	0.08667837	-3.4667262	0.00052684	0.01593239
S100A10	2311.8771	-0.40414	0.11668122	-3.463625	0.00053295	0.01608312
UBE2J1	2851.36476	-0.3248244	0.09384696	-3.4612137	0.00053775	0.01618581
APCDD1L	951.500819	-0.742147	0.21465907	-3.4573291	0.00054556	0.01635756
CACNB2	1507.15768	-0.3724356	0.10773995	-3.4568016	0.00054663	0.01635756
C2orf70	68.9325126	-2.2994954	0.66588926	-3.4532699	0.00055384	0.01653857
DDX24	8326.94511	-0.2152679	0.06244107	-3.4475377	0.00056572	0.01685826
KIF19	848.139508	-0.5872527	0.17114739	-3.4312689	0.00060077	0.01770053
PDE8B	464.694493	-0.54763	0.15961374	-3.4309704	0.00060143	0.01770053
ALDH7A1	639.488688	-0.5047589	0.14722846	-3.428406	0.00060714	0.01783183
KDELC2	443.671442	-0.7793624	0.22751742	-3.4255065	0.00061365	0.01786837
TUSC3	16415.5782	-0.1911911	0.05580974	-3.4257666	0.00061307	0.01786837
LAPTM4A	14257.9383	-0.234494	0.06847682	-3.4244287	0.00061609	0.01787423
SERPINA5	216.675845	-1.775008	0.51860621	-3.4226508	0.00062014	0.01795504
TIPARP	1353.28688	-0.4316212	0.12621794	-3.4196499	0.00062702	0.01811751
PGRMC1	3180.30961	-0.2497701	0.07319854	-3.4122285	0.00064434	0.01850567
GRK3	2194.78453	-0.4045098	0.11857431	-3.4114456	0.00064619	0.01852163
RP11.190A12	13.8548811	-6.1717541	1.81344978	-3.4033223	0.00066572	0.01892917
GRSF1	6692.95046	-0.2277804	0.06692696	-3.403418	0.00066548	0.01892917
CXCL5	358.910049	-1.0860478	0.31941391	-3.4001267	0.00067355	0.01907579
HEXB	11549.5273	-0.1908223	0.05619831	-3.3955166	0.00068499	0.01929608
CYP4V2	1920.04341	-0.3121783	0.09204742	-3.3914943	0.00069513	0.01949358
TTLL6	125.020154	-1.3876524	0.40930527	-3.3902628	0.00069826	0.01954297
SMOC1	4550.28913	-0.433061	0.12782341	-3.3879633	0.00070414	0.01966898
PEMT	14382.0226	-0.2888312	0.08534905	-3.3841169	0.00071408	0.01986885
ITGB1	30096.9592	-0.2565224	0.07581951	-3.3833301	0.00071613	0.0198871
TMEM98	492.023706	-0.8418334	0.24947895	-3.3743663	0.00073986	0.02046655
PAPPA2	2811.20239	-0.3222453	0.09557079	-3.3717971	0.00074679	0.02061846
C8B	417.1247	-0.7612006	0.22614234	-3.3660241	0.0007626	0.02097372
SLC24A3	81.3979352	-1.6819901	0.50043393	-3.3610632	0.00077643	0.02131302
FABP5	6726.10261	-0.3619729	0.10784917	-3.3562881	0.00078996	0.02164284
BTG2	5505.85822	-0.3940701	0.11792279	-3.3417633	0.00083248	0.02276403
SND1	6985.49933	-0.2039515	0.06107761	-3.3392183	0.00084015	0.02284234

CDH1	19030.7798	-0.1676897	0.05025954	-3.3364745	0.00084848	0.02302516
MFSD6	5271.19927	-0.2171283	0.06511939	-3.3343115	0.00085511	0.02316095
LGALS4	44.5919623	-2.7018522	0.81077429	-3.3324345	0.0008609	0.02320199
FGF18	87.1152665	-1.8264847	0.54806771	-3.3325896	0.00086042	0.02320199
CITED4	185.28325	-0.8231849	0.24703653	-3.3322397	0.0008615	0.02320199
MAGI1	1149.50959	-0.3983195	0.11977463	-3.3255745	0.00088237	0.02371917
HTR1F	599.839423	-0.5112737	0.15400398	-3.3198736	0.00090058	0.02408785
IL1R2	88.6493767	-1.3217859	0.39860256	-3.3160497	0.000913	0.02434915
KIAA1549L	614.101724	-0.6490361	0.19658134	-3.3016158	0.0009613	0.02545741
ALDH1B1	1127.09775	-0.5023934	0.15227471	-3.2992568	0.00096941	0.02560795
MGST3	1998.92449	-0.4362966	0.13242507	-3.2946676	0.00098538	0.02595081
TGFB3	95.0719153	-1.6367889	0.49739012	-3.2907548	0.00099919	0.02626599
RNF170	655.867213	-0.5286186	0.1607134	-3.2892006	0.00100472	0.02636292
WDFY2	1182.75624	-0.3596856	0.10944178	-3.2865472	0.00101424	0.02656372
FAM163A	386.911634	-0.8679389	0.26489538	-3.2765345	0.0010509	0.02737312
ABCB10	1354.45465	-0.4837923	0.14768725	-3.2757892	0.00105367	0.02739547
TVP23B	4445.1035	-0.2728015	0.08336486	-3.2723801	0.00106646	0.02762734
SYDE2	1063.54049	-0.4673519	0.14305401	-3.2669612	0.00108709	0.02803307
MRGBP	723.545238	-0.5112544	0.15659978	-3.26472	0.00109572	0.02813014
ATP13A2	2379.2296	-0.3822022	0.1171748	-3.2618128	0.00110702	0.02830186
RBM3	1490.10127	-0.3039147	0.09318333	-3.2614702	0.00110836	0.02830186
SNX33	267.899653	-0.8797239	0.26986201	-3.2599029	0.0011145	0.02835946
CRTAC1	996.936591	-0.5705737	0.175029	-3.2598809	0.00111459	0.02835946
GNG2	3734.24237	-0.294324	0.09032775	-3.2584011	0.00112042	0.02845705
TMBIM6	63479.0202	-0.1373559	0.04218663	-3.25591	0.0011303	0.0286061
XRCC6	13313.596	-0.2127293	0.06547135	-3.249197	0.00115731	0.02918637
USP25	3744.33726	-0.2996306	0.09225444	-3.2478723	0.00116271	0.02924622
GGA2	7080.11286	-0.284165	0.08756072	-3.2453483	0.00117307	0.02937615
PCYOX1	3754.40641	-0.336602	0.10390616	-3.2394807	0.00119748	0.02987605
TMCO3	5218.99624	-0.2935739	0.09063599	-3.2390438	0.00119931	0.02987605
MAPK6	1972.62076	-0.3966053	0.12265679	-3.2334555	0.00122302	0.03030806
C5orf49	214.04169	-0.9159725	0.2833449	-3.2327122	0.00122621	0.03033436
TSPAN1	514.884561	-0.9010094	0.2790703	-3.2286109	0.00124393	0.03071948
RPS25	4983.33021	-0.3001391	0.09307843	-3.2245827	0.00126156	0.03099409
TEAD1	1416.35999	-0.3464036	0.10751793	-3.2218211	0.00127379	0.0311336
MAP7	4401.81167	-0.2420554	0.07511965	-3.2222653	0.00127181	0.0311336
ABHD15	3649.2601	-0.2724358	0.08480434	-3.2125217	0.00131575	0.03210435
CXCL6	1593.82365	-0.6369945	0.19832995	-3.2117918	0.0013191	0.0321311
MBD2	1068.26863	-0.3785774	0.11796154	-3.2093295	0.00133045	0.03229733
LOXL4	24272.6989	-0.698581	0.21817422	-3.2019413	0.00136505	0.03302492
CHKA	2193.32032	-0.3172803	0.09917201	-3.1992923	0.00137765	0.03321729
PLPPR2	2180.55029	-0.2983591	0.09334416	-3.196334	0.00139186	0.03344337
KLF11	1976.14701	-0.2697318	0.08441269	-3.1953936	0.0013964	0.03344337

COX11	1721.09947	-0.2986182	0.09350422	-3.193633	0.00140495	0.03347946
HHLA2	89.4774416	-1.7541992	0.54962897	-3.1916062	0.00141484	0.03365906
PUM2	1910.69767	-0.3196644	0.10035859	-3.1852218	0.00144643	0.03418271
SLC22A16	15.0960111	-3.7960864	1.19238109	-3.1836184	0.00145447	0.03425916
VMA21	2656.45196	-0.3905606	0.12289042	-3.1781205	0.00148233	0.03468656
LONRF2	1440.45947	-0.4391036	0.13829016	-3.1752336	0.00149716	0.03497619
GPHN	905.68411	-0.4817979	0.15210386	-3.1675585	0.00153725	0.03579555
ARRDC4	5257.84248	-0.2115845	0.06681038	-3.1669414	0.00154051	0.03581317
TRIP12	3609.13104	-0.2361663	0.07467231	-3.1627027	0.00156312	0.0362207
HCN4	208.845799	-0.9815671	0.31045992	-3.1616549	0.00156875	0.03629236
TNRC6B	2491.94436	-0.3249576	0.10297781	-3.1556082	0.00160164	0.03681448
SLC25A6	9644.84838	-0.1702986	0.05398875	-3.1543357	0.00160864	0.03691595
DPP6	2807.45034	-0.3270064	0.10370438	-3.1532554	0.00161461	0.03699337
EMC10	1663.24221	-0.3496985	0.11119256	-3.144981	0.00166098	0.0378566
PIP5K1A	1452.47862	-0.3256065	0.1035739	-3.1437122	0.00166819	0.0378566
KIAA1147	1343.95853	-0.3150065	0.10040662	-3.1373083	0.00170507	0.03853846
CNTN1	15115.6157	-0.2835329	0.09041195	-3.136011	0.00171263	0.03855843
GDI1	4789.75581	-0.2709912	0.08679582	-3.1221684	0.00179524	0.03991477
TM4SF1	4921.41624	-0.3549869	0.11390453	-3.1165302	0.00182993	0.04055964
KIF12	1831.46768	-0.3674894	0.11794252	-3.1158343	0.00183425	0.04059245
PTGDR2	152.712645	-1.0079843	0.32374311	-3.1135313	0.00184863	0.04084725
TUBB	7146.15191	-0.2242029	0.07213874	-3.1079399	0.00188396	0.04143559
WDR37	690.630872	-0.4458125	0.14369568	-3.1024767	0.00191909	0.04209043
GOLGA3	1507.68917	-0.2931381	0.09448778	-3.1023921	0.00191964	0.04209043
TSPYL2	1971.45747	-0.3088255	0.09956462	-3.1017595	0.00192374	0.04211578
HS6ST2	876.601163	-0.6991988	0.22558175	-3.0995362	0.00193824	0.04220976
PLOD3	4140.1822	-0.2236202	0.07212364	-3.1005115	0.00193187	0.04220976
PRKCI	1214.10203	-0.3428817	0.11093133	-3.0909368	0.00199526	0.04321754
CLDN7	8652.90018	-0.2542622	0.08250293	-3.0818569	0.00205714	0.04442296
LNPEP	3485.09114	-0.2766611	0.08984732	-3.0792364	0.00207532	0.0447479
PIGT	17646.0433	-0.1545835	0.05022758	-3.077661	0.00208632	0.04484962
PERP	9913.39528	-0.1605352	0.05217014	-3.0771474	0.00208992	0.04485941
POF1B	163.879491	-0.934561	0.30387712	-3.0754569	0.0021018	0.04504676
SIPA1L1	1472.652	-0.3421437	0.11130993	-3.073793	0.00211356	0.04523082
MXRA5	91.5867756	-1.795945	0.58445902	-3.0728331	0.00212037	0.04530863
FGF19	52.5025221	-3.028958	0.98617012	-3.0714356	0.00213032	0.04545322
LSAMP	996.967197	-0.5795805	0.18892049	-3.0678544	0.00215602	0.04586436
TMSB10	3224.52889	-0.3648174	0.11899974	-3.065699	0.00217162	0.04601241
GLS	19530.3184	-0.1726989	0.05633525	-3.0655573	0.00217265	0.04601241
GPER1	354.013379	-0.684482	0.2233921	-3.0640386	0.00218371	0.04607408
FAM84B	1035.98051	-0.4430149	0.14459056	-3.0639271	0.00218452	0.04607408
SYT13	1848.53208	-0.3674345	0.1200744	-3.0600565	0.00221295	0.04652089
SDAD1	1790.6684	-0.273785	0.08948355	-3.0596122	0.00221624	0.04652144

MBD4	1914.26115	-0.274405	0.08977623	-3.056544	0.00223905	0.04686238
C1orf21	520.538928	-0.4836738	0.15832751	-3.0548941	0.0022514	0.04705195
MYO5C	869.165267	-0.504121	0.16517002	-3.0521338	0.00227221	0.04741739
IFT172	393.465314	-0.5296058	0.17376705	-3.0477919	0.0023053	0.04796761
NOL4	2339.17037	-0.3370817	0.11062311	-3.0471179	0.00231047	0.04800532
KCNIP1	985.551903	-0.4595382	0.15158298	-3.0315951	0.00243265	0.05010632
MLYCD	1583.9946	-0.3519422	0.11614406	-3.0302213	0.00244375	0.05018998
KIF3B	2917.47948	-0.2844141	0.09384662	-3.0306266	0.00244047	0.05018998
SERPINA4	59.416687	-2.2504539	0.74294038	-3.0291177	0.00245269	0.05022914
KRT13	54.7559002	-10.226685	3.37813883	-3.0273133	0.00246738	0.05038539
AP2B1	4952.29395	-0.2077942	0.06874126	-3.0228457	0.0025041	0.05098931
CCDC186	2759.04221	-0.2837791	0.09407584	-3.0164932	0.00255717	0.05189716
CDK16	1901.73147	-0.4450511	0.14762224	-3.0147974	0.00257151	0.05202168
BRD7	2014.4289	-0.2949039	0.09782459	-3.0146191	0.00257302	0.05202168
MTSS1	3032.58816	-0.2325259	0.07719441	-3.0122116	0.00259352	0.05228795
SPTBN1	5841.86836	-0.2155119	0.07165912	-3.00746	0.00263441	0.05303743
HERC1	2567.0919	-0.3468882	0.11536174	-3.0069604	0.00263874	0.05304985
AHSA1	3785.20955	-0.2521621	0.08394969	-3.0037282	0.00266693	0.05346604
GLRX	1119.89964	-0.501757	0.16717679	-3.0013554	0.00268781	0.05363789
SSU72	4742.61767	-0.2903922	0.09676876	-3.0008876	0.00269194	0.05363789
PPARGC1B	71.3233068	-2.0373431	0.67968851	-2.9974659	0.00272234	0.05404551
ERRF1	2399.87137	-0.3551581	0.11851264	-2.9967951	0.00272834	0.05408935
FNDC4	190.283808	-0.877886	0.29315665	-2.9945968	0.00274808	0.0544051
MAP4K5	2436.12495	-0.2480732	0.08287337	-2.9934002	0.00275888	0.05454323
ZCCHC18	278.058894	-0.8576582	0.28675438	-2.9909157	0.00278142	0.05491289
OCRL	2252.58068	-0.3790037	0.12682677	-2.9883574	0.00280481	0.05526122
C8orf76	1268.35651	-0.3481289	0.11650353	-2.9881401	0.00280681	0.05526122
CALCOCO2	7110.28409	-0.1865732	0.06248138	-2.986061	0.00282596	0.0555617
NBAS	1829.41435	-0.2766666	0.09269225	-2.9847868	0.00283776	0.0557169
ME3	414.856924	-0.7463921	0.25010443	-2.984322	0.00284208	0.05572497
MS4A8	401.365928	-0.5525316	0.18546256	-2.9792083	0.00288994	0.05658579
ALDH1A3	372.24414	-1.3524643	0.45512648	-2.9716229	0.0029623	0.05761694
TAGLN3	287.438312	-0.6898317	0.23214077	-2.9716094	0.00296243	0.05761694
TM9SF2	17737.9015	-0.1351273	0.04547332	-2.9715726	0.00296279	0.05761694
PMM2	1248.35577	-0.3366462	0.11350918	-2.9658062	0.00301891	0.05854874
AFAP1	509.376726	-0.4810158	0.16269484	-2.9565522	0.003111	0.0600898
ACAA2	3747.52756	-0.2288304	0.07750139	-2.952597	0.00315113	0.06078275
CYP4F12	80.5613746	-1.9776184	0.67009895	-2.9512334	0.00316508	0.0608872
SLK	4358.81254	-0.2366599	0.08025507	-2.9488467	0.00318962	0.0612768
ZNF511	750.085782	-0.4073073	0.13824714	-2.9462255	0.00321678	0.06163261
ERAP1	2485.01365	-0.2595733	0.08819197	-2.9432754	0.00324759	0.06213962
LRRC42	1437.62955	-0.4425066	0.15046713	-2.9408856	0.00327275	0.06253721
ERICH3	241.365283	-0.939581	0.31960895	-2.939783	0.00328442	0.06267625

USP45	388.784072	-0.5557849	0.18923966	-2.9369365	0.00331472	0.06316998
UBR2	1959.62654	-0.2914291	0.09930027	-2.9348266	0.00333734	0.06343171
NR0B1	764.286709	-0.7319198	0.24946034	-2.9340129	0.0033461	0.06351366
PLXNA3	738.243767	-0.388368	0.13242105	-2.9328269	0.00335891	0.0636721
GOSR2	2695.56748	-0.2306568	0.07869962	-2.9308502	0.00338036	0.06399366
CRIM1	752.058015	-0.5205732	0.17768829	-2.9296992	0.0033929	0.06414608
OTUD3	394.636517	-0.5594356	0.19105387	-2.9281563	0.00340979	0.06429496
SLC5A3	677.247535	-0.4638682	0.15840564	-2.9283567	0.00340759	0.06429496
ANAPC15	548.147232	-0.5067751	0.17310156	-2.927617	0.00341571	0.06432161
RP11.977G19	395.845101	-0.6726064	0.23006677	-2.9235268	0.0034609	0.06508688
SMPD3	403.923592	-0.6891716	0.23582514	-2.9223837	0.00347363	0.06513218
TMSB4X	23832.7718	-0.2827062	0.09679889	-2.9205525	0.00349411	0.06531578
MAP7D3	589.541076	-0.4579694	0.15694282	-2.9180653	0.00352211	0.06566213
EEF2K	294.847758	-0.6879957	0.23601315	-2.9150737	0.00355605	0.0660065
PROS1	666.929457	-0.7192116	0.24710493	-2.9105513	0.00360792	0.06679562
TRIO	1022.88408	-0.3406141	0.11712938	-2.9080156	0.0036373	0.06715703
ACAT1	3619.08513	-0.2356757	0.0810512	-2.9077383	0.00364053	0.06715703
HSP90B1	26629.2672	-0.1797581	0.06195067	-2.9016326	0.00371224	0.06819622
LRP11	10501.8929	-0.2496092	0.08604427	-2.9009389	0.00372046	0.06825951
ZNF169	40.0643167	-2.3536616	0.81170112	-2.8996653	0.00373561	0.06836171
FGFR1	9658.51409	-0.2588139	0.08930829	-2.8979834	0.00375571	0.0686414
MAP3K4	1294.9051	-0.3011782	0.1040061	-2.8957741	0.00378225	0.06903809
AAED1	1339.93218	-0.3495551	0.12073645	-2.8951908	0.00378928	0.06907816
SLC38A8	116.649165	-0.9947649	0.34382735	-2.8932105	0.00381326	0.0692499
HPSE	776.588472	-0.4902623	0.1697259	-2.8885532	0.00387019	0.06992788
KIAA0922	363.892899	-0.6518577	0.22592273	-2.8853125	0.00391025	0.07056253
MAP6	2866.53654	-0.2172031	0.07533782	-2.8830547	0.00393839	0.07098053
SLC29A4	6575.88548	-0.2558327	0.08886795	-2.8787956	0.00399197	0.07158465
AZI2	1803.89879	-0.252094	0.08782245	-2.8704967	0.00409828	0.07276529
HSP90AB1	45198.686	-0.1538544	0.05377316	-2.8611739	0.00422076	0.07428738
MEP1B	101.581381	-1.7023141	0.59514477	-2.8603361	0.00423192	0.07439218
LDLRAD1	51.8029845	-2.2476747	0.78640622	-2.8581599	0.00426106	0.07462862
CKMT1B	1270.43142	-0.4647798	0.16264988	-2.8575479	0.00426928	0.07468105
TPPP3	1289.1264	-0.3890273	0.13631902	-2.8538005	0.00431997	0.07534455
MYO1B	8955.35212	-0.1835182	0.06432046	-2.8531861	0.00432833	0.07534455
GTPBP4	2423.723	-0.2494889	0.08761661	-2.847507	0.00440631	0.07651545
BRS3	375.171814	-0.7704259	0.27068803	-2.8461766	0.00442477	0.07666027
TOM1L2	991.363463	-0.3483703	0.12241127	-2.8459005	0.0044286	0.07666027
KIAA1109	1776.48641	-0.2741979	0.09635365	-2.8457452	0.00443076	0.07666027
TRPC4	364.137892	-0.6505119	0.22876422	-2.843591	0.00446083	0.07699376
OTOGL	149.875192	-0.9541542	0.33575	-2.8418592	0.00448513	0.07722646
FAM213A	3325.89918	-0.2046425	0.0723088	-2.8301187	0.00465307	0.08002165
IKBKAP	1934.67275	-0.3311226	0.11702974	-2.8293885	0.0046637	0.08010796

PCSK2	31370.5794	-0.2737431	0.09677901	-2.8285382	0.00467611	0.08022456
CRB1	89.5345556	-1.6332052	0.57798697	-2.8256783	0.00471806	0.08040733
ZNF28	1327.27541	-0.4693647	0.16608876	-2.8259868	0.00471352	0.08040733
CLCN5	1747.17268	-0.3316956	0.11752118	-2.8224327	0.00476608	0.08108588
CELSR2	374.183339	-0.5261364	0.18663979	-2.8189935	0.00481745	0.0818554
TRNP1	1378.85819	-0.3589985	0.12736594	-2.8186384	0.00482278	0.0818554
TTR	698131.649	-0.1812204	0.06435372	-2.816005	0.00486249	0.08243136
APOLD1	34.8812878	-1.769533	0.62899971	-2.8132493	0.00490436	0.08304254
HSPA5	39840.9004	-0.1611831	0.05734792	-2.8106185	0.00494464	0.08342762
CPA4	45.3158813	-2.8181649	1.00351178	-2.8083028	0.00498034	0.08393075
LIPG	345.515077	-0.8977965	0.31979825	-2.8073842	0.00499456	0.08407122
KL	2420.16383	-0.2855352	0.10187981	-2.8026671	0.0050682	0.08471128
SPOCK3	2552.7302	-0.2655988	0.09476048	-2.8028431	0.00506543	0.08471128
KARS	4209.58108	-0.233047	0.08325148	-2.7993139	0.00512113	0.08549596
SPRED3	227.171944	-0.7158	0.25574825	-2.7988463	0.00512855	0.08551984
CNIH2	361.844589	-0.5310028	0.18981818	-2.7974285	0.00515112	0.08569586
ZC3H12C	547.004644	-0.4364094	0.15598333	-2.7977951	0.00514528	0.08569586
MUC20	522.966967	-0.7447676	0.26658212	-2.7937644	0.00520984	0.08637493
FAM210A	479.948538	-0.4503054	0.16118319	-2.7937491	0.00521009	0.08637493
FFAR3	171.397455	-0.768781	0.27524359	-2.7930931	0.00522067	0.08644988
KSR2	369.731875	-0.572402	0.20561116	-2.7839053	0.00537087	0.08851554
LRRC49	389.162062	-0.5300492	0.19042062	-2.7835706	0.00537642	0.08851554
AGFG2	722.370955	-0.4679012	0.16812627	-2.7830343	0.00538531	0.08855984
ALDH6A1	403.916969	-0.4995057	0.17962145	-2.78088	0.00542118	0.08894469
TTLL12	837.71077	-0.5020228	0.18063236	-2.7792515	0.00544843	0.08928923
FAT4	107.794757	-1.4126854	0.50848284	-2.778236	0.00546549	0.08940688
CPD	7998.89178	-0.1871732	0.06737507	-2.7780787	0.00546814	0.08940688
PDK4	38666.3092	-0.6043997	0.21787121	-2.7741148	0.00553522	0.09019367
YTHDF3	4583.28831	-0.255434	0.09206614	-2.7744624	0.0055293	0.09019367
C3orf80	160.885313	-1.1445093	0.41324744	-2.7695498	0.00561338	0.09106793
NLN	377.998609	-0.604173	0.21858385	-2.7640332	0.00570917	0.09221713
ZNF107	559.176777	-0.4219353	0.15263337	-2.7643713	0.00570326	0.09221713
FAT3	69.1707283	-1.9567964	0.70862507	-2.7613988	0.00575543	0.09272355
APOH	1425.77359	-0.2815373	0.10217295	-2.7554971	0.0058603	0.09398872
ATP8A1	794.61087	-0.5313275	0.19308733	-2.751747	0.00592783	0.09475234
SDF2L1	1786.65147	-0.3067595	0.11159326	-2.7489071	0.00597943	0.0953636
MEAF6	3542.87794	-0.2082595	0.0757532	-2.7491846	0.00597437	0.0953636
PPL	3688.00396	-0.2239969	0.08156113	-2.7463683	0.00602591	0.09582749
CD55	11806.0853	-0.214991	0.07832001	-2.7450324	0.00605049	0.09606755
NKRF	397.569165	-0.541348	0.19750595	-2.7409201	0.00612674	0.09695465
HSP90AA1	31491.8202	-0.184137	0.06726607	-2.7374421	0.0061919	0.09776903
ZKSCAN1	7137.35753	-0.1762264	0.06436919	-2.7377451	0.0061862	0.09776903
TEF	584.529975	-0.397511	0.14533898	-2.7350613	0.00623687	0.0981762

PDIA6	12436.8168	-0.1514296	0.0555011	-2.7284067	0.00636411	0.09938871
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