

Supplementary Table 1

P0 lung metastasis signature:

Gene	baseMean	log2 Fold		stat	pvalue	padj
		Change	lfcSE			
NEU4	261.745	3.12	0.6077	5.1277	2.93E-07	0.00021
DPEP1	841.309	3.05	0.4712	6.46992	9.81E-11	8.15E-07
KRT13	174.509	2.91	0.6199	4.6897	2.74E-06	0.00106
CACNA1C	18.5196	2.76	0.59499	4.63466	3.58E-06	0.00126
PPP1R14D	53.6854	2.75	0.481	5.72651	1.03E-08	2.13E-05
FXYP4	220.669	2.73	0.62416	4.38125	1.18E-05	0.00293
TNFRSF1B	190.354	2.73	0.51631	5.28555	1.25E-07	0.00012
PSCA	1139.38	2.71	0.56169	4.8333	1.34E-06	0.0007
RAB37	394.091	2.71	0.55642	4.87174	1.11E-06	0.00059
DIO3OS	199.075	2.64	0.59088	4.4639	8.05E-06	0.00222
FABP1	103.524	2.62	0.6414	4.0881	4.35E-05	0.00812
RXFP4	19.4374	2.61	0.5449	4.78581	1.70E-06	0.00081
LINC01342	8.86361	2.56	0.61313	4.17531	2.98E-05	0.00618
SLC12A3	40.0974	2.55	0.63152	4.04041	5.34E-05	0.00944
CREB3L1	784.953	2.54	0.53372	4.75154	2.02E-06	0.00088
TFF1	1864.76	2.54	0.55526	4.56657	4.96E-06	0.00156
SPNS2	168.915	2.52	0.49459	5.09389	3.51E-07	0.00024
KLK13	17.4768	2.50	0.64064	3.90456	9.44E-05	0.01414
LGALS9C	26.276	2.49	0.63039	3.95768	7.57E-05	0.01198
SLC51B	188.94	2.49	0.5023	4.96	7.05E-07	0.00045
RBBP8NL	91.6983	2.49	0.5561	4.47778	7.54E-06	0.00213
CREB3L3	11.3545	2.46	0.62572	3.93943	8.17E-05	0.01281
C8G	103.735	2.46	0.61082	4.02079	5.80E-05	0.01004
MUC5AC	11695.4	2.45	0.51488	4.76762	1.86E-06	0.00084
ALDOB	269.273	2.45	0.56508	4.33927	1.43E-05	0.0035
CD22	60.8822	2.45	0.55845	4.38307	1.17E-05	0.00293
GBGT1	87.0682	2.43	0.49485	4.91937	8.68E-07	0.0005
PRSS36	46.2055	2.43	0.59039	4.12008	3.79E-05	0.00723
PHGR1	733.814	2.41	0.59513	4.05573	5.00E-05	0.00903
MIR192	9.83579	2.40	0.60302	3.97663	6.99E-05	0.01151

PRAP1	2204.85	2.38	0.5957	3.99729	6.41E-05	0.01076
MUC5B	7932.8	2.35	0.47716	4.92529	8.42E-07	0.0005
PTH1R	40.4586	2.32	0.54398	4.27401	1.92E-05	0.00437
TFF3	3370.02	2.32	0.65135	3.5639	0.00037	0.03797
TMEM82	40.0278	2.32	0.63538	3.64372	0.00027	0.03041
TPO	9.73318	2.31	0.63803	3.6213	0.00029	0.03267
AMN	1099.84	2.30	0.5143	4.47862	7.51E-06	0.00213
FXYD3	1957.55	2.28	0.58491	3.89617	9.77E-05	0.01451
MAMDC4	562.603	2.27	0.49794	4.56565	4.98E-06	0.00156
GUCA2A	319.415	2.27	0.47605	4.76904	1.85E-06	0.00084
RORC	202.577	2.27	0.56666	4.00337	6.24E-05	0.01059
SLC17A4	31.0901	2.27	0.4908	4.61862	3.86E-06	0.00131
HS3ST6	18.2849	2.27	0.64752	3.49943	0.00047	0.04481
DLL4	27.5235	2.26	0.50177	4.51198	6.42E-06	0.00198
SMOC1	290.365	2.25	0.57278	3.93001	8.49E-05	0.0132
ADAMTS2	184.403	2.23	0.53422	4.1827	2.88E-05	0.00606
FXYD6	58.571	2.23	0.64156	3.47999	0.0005	0.04683
SSTR5	80.8536	2.23	0.6204	3.59074	0.00033	0.0356
CCR10	16.0865	2.21	0.63883	3.46454	0.00053	0.04768
SCARA5	95.4992	2.21	0.44831	4.9332	8.09E-07	0.0005
LDLRAD1	166.227	2.20	0.39778	5.53173	3.17E-08	4.30E-05
GAL3ST2	50.6837	2.19	0.57622	3.79906	0.00015	0.01979
MYL3	19.28	2.18	0.52367	4.15702	3.22E-05	0.00654
TRPV6	3.72212	2.17	0.64894	3.34992	0.00081	0.0628
HSD11B2	85.1563	2.15	0.63543	3.38898	0.0007	0.05794
VTN	146.854	2.15	0.63449	3.39251	0.00069	0.05757
LOC729966	13.9552	2.15	0.5718	3.75924	0.00017	0.0221
HOXC5	3.95556	2.14	0.65469	3.2738	0.00106	0.07464
ALPI	176.058	2.12	0.57324	3.70611	0.00021	0.02554
SLC22A11	13.4794	2.12	0.55407	3.82812	0.00013	0.01835
AATK	1030.59	2.11	0.4455	4.7402	2.14E-06	0.00091
UNC5B	107.536	2.11	0.60957	3.46285	0.00053	0.04768
KLK1	16.1974	2.10	0.64766	3.2469	0.00117	0.07862
F7	56.1572	2.10	0.62969	3.3357	0.00085	0.06489

BDKRB2	359.913	2.09	0.4448	4.69791	2.63E-06	0.00106
PPP1R16B	9.96029	2.07	0.60514	3.42362	0.00062	0.05323
ZNF703	213.247	2.07	0.59906	3.45779	0.00054	0.04816
ANPEP	1111.38	2.07	0.577	3.58396	0.00034	0.03607
TM4SF5	324.055	2.07	0.60124	3.4392	0.00058	0.05128
CATIP	7.06976	2.07	0.64107	3.22239	0.00127	0.08329
GLTPD2	162.511	2.05	0.57905	3.5463	0.00039	0.0396
DEGS2	260.54	2.05	0.61293	3.34465	0.00082	0.06371
MUC20	198.091	2.05	0.55019	3.71866	0.0002	0.02466
PRR22	21.8207	2.03	0.58032	3.50629	0.00045	0.04392
SFTA2	111.223	2.03	0.56561	3.59269	0.00033	0.0356
LOC100133669	7.88463	2.02	0.63936	3.16286	0.00156	0.09566
GJB1	469.189	2.02	0.63439	3.18559	0.00144	0.09097
CD82	322.684	2.01	0.4878	4.12708	3.67E-05	0.0071
ARX	7.37667	2.01	0.61936	3.24572	0.00117	0.07862
CCDC108	8.67598	2.01	0.5961	3.36896	0.00075	0.06031
HMCN2	28.4787	2.01	0.5407	3.7098	0.00021	0.02536
SLCO4A1-AS1	35.6121	1.99	0.58545	3.39436	0.00069	0.05747
LCN12	13.3836	1.99	0.61181	3.24704	0.00117	0.07862
SSPO	25.8128	1.98	0.61929	3.2029	0.00136	0.08666
TMPRSS6	85.5405	1.98	0.54267	3.65353	0.00026	0.02986
ERN2	310.934	1.98	0.5952	3.32191	0.00089	0.06726
MGAT3	208.309	1.97	0.47825	4.12755	3.67E-05	0.0071
RCN3	43.7653	1.97	0.5668	3.47137	0.00052	0.04704
INHBB	411.021	1.97	0.55919	3.51535	0.00044	0.04346
FAM83E	454.448	1.96	0.54283	3.61986	0.00029	0.03267
MSMB	27.476	1.96	0.55002	3.56006	0.00037	0.03814
STARD8	146.36	1.96	0.41766	4.68103	2.85E-06	0.00106
HPN	1040.55	1.95	0.6057	3.22209	0.00127	0.08329
IHH	10.858	1.95	0.58658	3.32495	0.00088	0.06683
LOC115110	70.7351	1.95	0.54854	3.5538	0.00038	0.03873
GDPD2	38.115	1.94	0.45181	4.29556	1.74E-05	0.00402
NPDC1	236.336	1.94	0.58469	3.30999	0.00093	0.06925
SCN8A	159.769	1.94	0.54082	3.57839	0.00035	0.03658

SHH	45.6782	1.93	0.52877	3.65689	0.00026	0.02986
MYO1A	580.96	1.93	0.52328	3.68639	0.00023	0.0272
GPR55	8.35386	1.92	0.58548	3.28278	0.00103	0.07334
GDF15	337.81	1.92	0.57973	3.30661	0.00094	0.06947
PTPRN2	81.9467	1.91	0.58881	3.25094	0.00115	0.07862
ADGRD1	28.5683	1.91	0.56268	3.38804	0.0007	0.05794
CYP2S1	477.848	1.91	0.48156	3.95877	7.53E-05	0.01198
GPT	61.6269	1.89	0.50388	3.75847	0.00017	0.0221
SLCO4A1	151.706	1.89	0.55258	3.42515	0.00061	0.0532
BMP2	19.2111	1.89	0.55508	3.4088	0.00065	0.05479
PDZD3	191.802	1.89	0.51465	3.67122	0.00024	0.02867
SCIN	50.6416	1.88	0.52008	3.61325	0.0003	0.03329
BEGAIN	37.2528	1.88	0.55417	3.38367	0.00072	0.05858
ADGRG5	67.087	1.87	0.54675	3.41636	0.00063	0.05411
CAPN9	473.173	1.86	0.4127	4.49478	6.96E-06	0.00207
CA9	195.804	1.85	0.52851	3.49189	0.00048	0.04563
SLC47A2	111.668	1.85	0.52936	3.48621	0.00049	0.04628
DOK7	98.9645	1.84	0.44533	4.14058	3.46E-05	0.00686
SLC39A5	527.675	1.84	0.55203	3.33956	0.00084	0.06429
ATP2A3	1693.46	1.83	0.53477	3.41931	0.00063	0.0538
ENTPD8	205.102	1.83	0.46691	3.90934	9.25E-05	0.01399
NPAS1	44.3054	1.81	0.55918	3.23668	0.00121	0.08059
SLC17A9	613.088	1.81	0.56308	3.2122	0.00132	0.08455
CLDN15	147.389	1.80	0.44302	4.07423	4.62E-05	0.00847
PRR15L	651.91	1.77	0.45225	3.91349	9.10E-05	0.01388
SPOCD1	18.0005	1.76	0.53664	3.28385	0.00102	0.07334
KCP	678.484	1.76	0.45147	3.88899	0.0001	0.0147
LOC100130705	220.531	1.75	0.43406	4.03598	5.44E-05	0.00952
ZMYND15	58.2539	1.75	0.51129	3.42624	0.00061	0.0532
TST	409.058	1.75	0.55394	3.15022	0.00163	0.09775
HABP2	11.6084	1.74	0.52727	3.30033	0.00097	0.07011
ADAP1	775.039	1.71	0.454	3.77388	0.00016	0.02145
SLCO2B1	772.372	1.70	0.4108	4.14214	3.44E-05	0.00686
SMIM5	94.5575	1.68	0.5168	3.2454	0.00117	0.07862

RAB40B	66.3347	1.67	0.50773	3.29334	0.00099	0.07125
ACSS1	288.094	1.66	0.51464	3.23425	0.00122	0.08078
IRX4	58.0754	1.65	0.52604	3.14571	0.00166	0.09837
SPIRE2	201.987	1.64	0.52185	3.14787	0.00164	0.098
CACNA1H	559.604	1.63	0.50689	3.22036	0.00128	0.08333
F10	109.379	1.63	0.49378	3.30517	0.00095	0.06952
CEACAM5	624.968	1.63	0.50247	3.24729	0.00117	0.07862
SFI1	330.863	1.60	0.43001	3.73083	0.00019	0.02386
VWA7	159.732	1.60	0.42801	3.73951	0.00018	0.02322
VILL	736.855	1.59	0.47201	3.36982	0.00075	0.06031
ZNF497	46.0895	1.59	0.4859	3.27344	0.00106	0.07464
LOC101928738	78.181	1.57	0.48335	3.25532	0.00113	0.07862
KCNK5	582.139	1.57	0.47094	3.34053	0.00084	0.06429
TRIM15	75.4641	1.57	0.49418	3.16995	0.00152	0.09517
SMPD3	203.981	1.57	0.49454	3.16539	0.00155	0.09566
PROC	56.3492	1.56	0.46442	3.35967	0.00078	0.06119
KLK11	1123.32	1.56	0.47471	3.27884	0.00104	0.07406
UPK1B	1390.69	1.53	0.47997	3.19468	0.0014	0.08883
PRSS22	94.2426	1.51	0.38212	3.96375	7.38E-05	0.01198
SPEG	206.967	1.49	0.46403	3.20715	0.00134	0.08572
CAPN8	839.88	1.45	0.44604	3.24712	0.00117	0.07862
SH3PXD2A	101.265	1.44	0.41147	3.5072	0.00045	0.04392
ADORA2B	147.523	1.43	0.4547	3.14967	0.00163	0.09775
NPB	34.0368	1.43	0.45085	3.16176	0.00157	0.09566
PNPLA1	49.6723	1.38	0.42594	3.23605	0.00121	0.08059
MRGPRX3	102.509	1.29	0.40162	3.21954	0.00128	0.08333
AKR7L	132.085	1.25	0.37065	3.38089	0.00072	0.05888
B3GNT3	661.405	1.25	0.35049	3.55941	0.00037	0.03814
SLC25A25	609.245	1.20	0.35025	3.41268	0.00064	0.05448
ERBB3	1098.94	1.15	0.33125	3.47733	0.00051	0.04689
TACC2	684.39	0.94	0.2992	3.15318	0.00162	0.09775
NREP	76.3816	-1.25	0.37258	-3.3663	0.00076	0.0606
MSN	1365.31	-1.28	0.40256	-3.1795	0.00148	0.09255
PRSS23	2036.54	-1.28	0.39956	-3.2139	0.00131	0.08437

KIRREL	184.983	-1.30	0.3928	-3.3113	0.00093	0.06922
MSRB3	162.863	-1.32	0.41082	-3.2246	0.00126	0.08322
CHST3	1118.15	-1.35	0.39952	-3.3695	0.00075	0.06031
FLNA	14960.2	-1.42	0.42932	-3.3136	0.00092	0.06898
TUFT1	863.094	-1.42	0.40355	-3.5274	0.00042	0.04202
GPR1	35.0638	-1.43	0.45375	-3.1497	0.00163	0.09775
CAP1	1292.1	-1.48	0.38919	-3.813	0.00014	0.01902
OSMR	624.611	-1.50	0.46535	-3.2186	0.00129	0.08333
NEDD9	314.447	-1.51	0.4598	-3.2934	0.00099	0.07125
IFFO2	91.1083	-1.52	0.45317	-3.3634	0.00077	0.06084
NUAK1	177.76	-1.53	0.42486	-3.5916	0.00033	0.0356
SCPEP1	59.0404	-1.55	0.40844	-3.7952	0.00015	0.01994
BHLHE40	540.183	-1.57	0.3632	-4.3279	1.51E-05	0.00363
PTRF	839.47	-1.58	0.33697	-4.681	2.85E-06	0.00106
FAM171A1	93.9657	-1.58	0.46056	-3.438	0.00059	0.05128
PDGFB	125.527	-1.61	0.44131	-3.6378	0.00027	0.03089
TPM1	1483.46	-1.61	0.38199	-4.2145	2.50E-05	0.0054
MCAM	206.463	-1.61	0.4812	-3.3543	0.0008	0.06209
LHFP	33.7713	-1.61	0.51221	-3.1528	0.00162	0.09775
CTGF	405.275	-1.62	0.4511	-3.5855	0.00034	0.03607
TUBB3	694.942	-1.64	0.5035	-3.2668	0.00109	0.07599
ADAMTS1	254.717	-1.67	0.50674	-3.3004	0.00097	0.07011
CTSV	74.9074	-1.70	0.40072	-4.2376	2.26E-05	0.00494
ZBED2	275.414	-1.71	0.44848	-3.8052	0.00014	0.01947
CYR61	159.438	-1.72	0.49447	-3.4737	0.00051	0.04689
CALD1	867.453	-1.73	0.41613	-4.1576	3.22E-05	0.00654
CHST11	208.952	-1.73	0.47458	-3.655	0.00026	0.02986
AMIGO2	1336.46	-1.77	0.44148	-4.0067	6.16E-05	0.01055
MLLT11	157.053	-1.80	0.47921	-3.762	0.00017	0.0221
RAB31	93.5456	-1.81	0.52214	-3.4689	0.00052	0.04722
PYGL	701.131	-1.82	0.39212	-4.6291	3.67E-06	0.00127
DKK3	120.758	-1.83	0.355	-5.1615	2.45E-07	0.00019
TNFRSF19	20.6076	-1.83	0.56029	-3.273	0.00106	0.07464
COL4A2	4385.01	-1.84	0.52512	-3.5108	0.00045	0.04392

NNMT	527.935	-1.85	0.56	-3.3067	0.00094	0.06947
LCP1	27.205	-1.86	0.54501	-3.4117	0.00065	0.05448
DSE	60.7451	-1.89	0.54437	-3.4806	0.0005	0.04683
NKILA	27.6171	-1.91	0.54424	-3.5073	0.00045	0.04392
PMEPA1	2173.88	-1.91	0.4687	-4.0732	4.64E-05	0.00847
LTBP1	119.614	-1.91	0.5096	-3.7576	0.00017	0.0221
CTPS1	275.654	-1.92	0.47602	-4.0411	5.32E-05	0.00944
LBH	681.008	-1.94	0.5075	-3.8257	0.00013	0.01837
ADAMTS15	54.3377	-1.95	0.61781	-3.1629	0.00156	0.09566
TUBA1A	71.0137	-1.97	0.52231	-3.773	0.00016	0.02145
TRIML2	66.9824	-1.97	0.52963	-3.7222	0.0002	0.0245
C1S	135.685	-1.97	0.51615	-3.8237	0.00013	0.01837
AOX1	23.7613	-1.98	0.58598	-3.3734	0.00074	0.0602
GLIPR1	37.6468	-1.98	0.58814	-3.3626	0.00077	0.06084
CASC15	58.8501	-1.98	0.52733	-3.7534	0.00017	0.02231
ROCK1P1	6.78857	-1.99	0.6223	-3.1899	0.00142	0.08995
COL5A1	521.908	-1.99	0.62863	-3.1654	0.00155	0.09566
IGFBP7	45.8496	-2.00	0.63196	-3.1613	0.00157	0.09566
ANKRD1	101.228	-2.00	0.37164	-5.3876	7.14E-08	7.86E-05
PHLDB2	200.68	-2.04	0.57195	-3.5753	0.00035	0.03658
DPYSL3	161.587	-2.05	0.64549	-3.1692	0.00153	0.09517
FERMT2	208.581	-2.06	0.48407	-4.2579	2.06E-05	0.00457
TFPI2	88.2583	-2.07	0.39496	-5.2378	1.63E-07	0.00014
SERPINE1	1022.1	-2.07	0.53699	-3.8637	0.00011	0.016
ETS1	212.368	-2.08	0.49653	-4.1893	2.80E-05	0.00597
SEMA7A	208.858	-2.09	0.60092	-3.4752	0.00051	0.04689
PXDNL	20.6173	-2.09	0.52347	-3.9922	6.55E-05	0.01088
BEAN1	25.0933	-2.09	0.55945	-3.7418	0.00018	0.02319
NIPAL4	4.50927	-2.11	0.64911	-3.2498	0.00115	0.07862
LOXL2	121.294	-2.11	0.57801	-3.6499	0.00026	0.03008
COL4A1	2054.49	-2.12	0.59813	-3.5425	0.0004	0.03994
BST1	12.0756	-2.12	0.60728	-3.4915	0.00048	0.04563
SLCO2A1	37.3946	-2.13	0.65572	-3.2489	0.00116	0.07862
LINC00862	15.3481	-2.15	0.59082	-3.6435	0.00027	0.03041

ZEB2	7.18906	-2.17	0.65004	-3.3311	0.00087	0.06568
MAFB	14.8497	-2.18	0.59305	-3.6684	0.00024	0.02878
BDNF	53.3058	-2.19	0.55402	-3.9604	7.48E-05	0.01198
INHBA	41.5954	-2.20	0.56809	-3.8641	0.00011	0.016
CCL2	18.1801	-2.22	0.63852	-3.4752	0.00051	0.04689
CDH19	8.5672	-2.27	0.6555	-3.4619	0.00054	0.04768
QPCT	11.7012	-2.27	0.63541	-3.5754	0.00035	0.03658
COL8A1	19.2051	-2.27	0.64498	-3.5224	0.00043	0.04258
ARHGAP28	38.9458	-2.32	0.62783	-3.6967	0.00022	0.02631
CAV1	470.068	-2.33	0.43154	-5.3918	6.98E-08	7.86E-05
RBP1	391.701	-2.35	0.60546	-3.8886	0.0001	0.0147
LTBP2	470.533	-2.37	0.52634	-4.5056	6.62E-06	0.002
GFRA1	30.0334	-2.43	0.62171	-3.9151	9.04E-05	0.01388
HEG1	99.838	-2.46	0.51428	-4.7895	1.67E-06	0.00081
VIM	1795.62	-2.47	0.57078	-4.3247	1.53E-05	0.00363
CDH2	47.6039	-2.49	0.56449	-4.4063	1.05E-05	0.00275
KRT6A	2291.55	-2.50	0.58103	-4.3025	1.69E-05	0.00395
THBS1	1876.77	-2.55	0.58042	-4.3997	1.08E-05	0.00277
SLC2A3	514.795	-2.56	0.35419	-7.2209	5.16E-13	8.59E-09
GFPT2	18.7275	-2.56	0.58153	-4.4047	1.06E-05	0.00275
MMP2	104.745	-2.56	0.57485	-4.4609	8.16E-06	0.00222
MARCH4	44.2447	-2.57	0.57919	-4.4392	9.03E-06	0.00242
TNC	33.4172	-2.59	0.62795	-4.1177	3.83E-05	0.00723
FHOD3	27.7108	-2.59	0.57784	-4.4788	7.51E-06	0.00213
CACNG4	57.6615	-2.60	0.5006	-5.1865	2.14E-07	0.00017
TAGLN	1608.48	-2.61	0.54325	-4.797	1.61E-06	0.00081
DAW1	15.0873	-2.61	0.55856	-4.6806	2.86E-06	0.00106
CCDC80	91.415	-2.65	0.54099	-4.8997	9.60E-07	0.00053
EPHB2	218.377	-2.70	0.47997	-5.6196	1.91E-08	3.40E-05
CNN3	129.67	-2.70	0.48304	-5.5918	2.25E-08	3.40E-05
ADAM19	28.3651	-2.71	0.57352	-4.7315	2.23E-06	0.00093
KRT14	37.6445	-2.72	0.63768	-4.2713	1.94E-05	0.00437
WNT11	202.116	-2.73	0.49393	-5.5215	3.36E-08	4.30E-05
SPARC	49.0717	-2.73	0.58796	-4.6447	3.41E-06	0.00123

PLXDC2	148.669	-2.73	0.5174	-5.2845	1.26E-07	0.00012
NRCAM	12.0799	-2.75	0.60012	-4.5897	4.44E-06	0.00145
CD44	153.664	-2.80	0.55888	-5.004	5.62E-07	0.00037
KRT17	11953.2	-2.81	0.52268	-5.3772	7.57E-08	7.86E-05
TSPAN2	10.3837	-2.86	0.6223	-4.6003	4.22E-06	0.0014
SERPINA3	463.783	-2.93	0.55517	-5.2698	1.37E-07	0.00012
CYP24A1	507.651	-2.93	0.49282	-5.9432	2.80E-09	6.64E-06
TGFB1	2314.92	-2.97	0.49339	-6.0101	1.85E-09	5.14E-06
ANTXR1	32.7332	-3.17	0.51824	-6.1072	1.01E-09	4.21E-06
FSTL1	304.507	-3.21	0.53165	-6.0462	1.48E-09	4.93E-06
TGFB2	100.438	-3.33	0.52442	-6.3445	2.23E-10	1.24E-06
C5orf46	15.4214	-3.47	0.61952	-5.6049	2.08E-08	3.40E-05

P2 lung metastasis signature

Gene	baseMean	log2 Fold		stat	pvalue
		Change	lfcSE		
PSMB9	811.761	2.80	0.26017	10.7741	4.56E-27
UNC5B	222.82	2.67	0.2749	9.69792	3.08E-22
IFITM1	339.355	2.62	0.36469	7.17776	7.09E-13
TNFRSF1B	416.271	2.58	0.17716	14.5442	6.35E-48
DHRS2	251.629	2.52	0.24495	10.2817	8.52E-25
IFITM3	1614.96	2.46	0.27747	8.86953	7.35E-19
IFI44	519.232	2.41	0.3128	7.69463	1.42E-14
RTP4	47.9591	2.21	0.34683	6.36095	2.01E-10
CMPK2	872.635	2.20	0.31643	6.96321	3.33E-12
SPTSSB	41.3424	2.16	0.34726	6.2079	5.37E-10
UBE2L6	547.503	2.12	0.22236	9.51612	1.80E-21
IFIT3	1331.94	2.09	0.27621	7.56423	3.90E-14
BST2	2316.01	2.04	0.16563	12.31	8.00E-35
HERC5	220.642	2.02	0.33808	5.97982	2.23E-09
HLA-B	15913.9	1.99	0.23438	8.48266	2.20E-17
EPSTI1	827.535	1.98	0.328	6.04269	1.52E-09
OASL	578.039	1.91	0.33898	5.63142	1.79E-08
PSMB8-AS1	220.868	1.90	0.23332	8.16031	3.34E-16

GBGT1	339.192	1.88	0.29313	6.41398	1.42E-10
HERC6	984.777	1.86	0.21784	8.54721	1.26E-17
NCCRP1	1003.42	1.85	0.23225	7.95279	1.82E-15
HCP5	1198.55	1.83	0.19613	9.33304	1.03E-20
UBA7	99.0567	1.82	0.30517	5.96628	2.43E-09
RSAD2	458.181	1.79	0.30936	5.77201	7.83E-09
IFI44L	956.091	1.74	0.39366	4.4275	9.53E-06
ETV7	81.1211	1.73	0.37839	4.57006	4.88E-06
HCG26	154.151	1.72	0.29507	5.83248	5.46E-09
APOC3	20.8569	1.71	0.38664	4.43426	9.24E-06
BTN3A3	337.959	1.71	0.23021	7.4147	1.22E-13
KLK13	67.9636	1.69	0.2935	5.76938	7.96E-09
IFI16	1584.55	1.69	0.29117	5.79504	6.83E-09
HLA-F	1715.88	1.67	0.24352	6.85432	7.17E-12
LAMP3	902.081	1.66	0.31407	5.28124	1.28E-07
C9orf152	1228.82	1.65	0.23589	6.99647	2.62E-12
IFIT2	280.24	1.65	0.24413	6.75876	1.39E-11
GLI3	42.2435	1.64	0.35689	4.60067	4.21E-06
TEX19	76.0468	1.62	0.27118	5.98846	2.12E-09
SLC22A11	164.726	1.62	0.21955	7.39229	1.44E-13
BEST1	48.9914	1.60	0.32783	4.88148	1.05E-06
BATF2	727.329	1.60	0.21768	7.34572	2.05E-13
CKMT1B	243.876	1.59	0.25083	6.35531	2.08E-10
ANKRD20A19P	36.0299	1.57	0.373	4.21061	2.55E-05
MTRNR2L3	33.8876	1.56	0.39013	3.9939	6.50E-05
TKTL1	11.0641	1.54	0.39361	3.91484	9.05E-05
MX2	1727.99	1.53	0.39253	3.90214	9.53E-05
LGALS9	1894.21	1.53	0.19642	7.78706	6.86E-15
SAMHD1	428.821	1.53	0.24349	6.27761	3.44E-10
MSMB	148.405	1.53	0.37644	4.05774	4.96E-05
IFI35	1371.24	1.51	0.22647	6.67183	2.53E-11
ZMYND15	208.244	1.50	0.25998	5.78109	7.42E-09
MPZ	89.0583	1.50	0.31883	4.71291	2.44E-06
IFNL1	10.0005	1.48	0.38153	3.87273	0.00011

BRSK2	99.7874	1.48	0.24644	5.99217	2.07E-09
APCDD1	88.4617	1.46	0.36778	3.97296	7.10E-05
SBSPON	209.5	1.45	0.31255	4.63357	3.59E-06
DEFB1	775.954	1.44	0.21763	6.60796	3.90E-11
KL	21.0677	1.43	0.39293	3.64673	0.00027
NLRC5	838.758	1.43	0.26143	5.45097	5.01E-08
KIT	153.087	1.41	0.29922	4.71678	2.40E-06
CPS1	15979.7	1.41	0.21887	6.4224	1.34E-10
CETP	13.7699	1.40	0.39383	3.5508	0.00038
XAF1	1823.61	1.40	0.39034	3.57769	0.00035
SLC16A11	52.2819	1.39	0.3182	4.37607	1.21E-05
OAS1	3269.5	1.38	0.20147	6.8359	8.15E-12
CD22	187.967	1.37	0.23899	5.74735	9.07E-09
HMCN2	69.9313	1.37	0.30425	4.50341	6.69E-06
TM4SF20	5038.39	1.36	0.28603	4.75761	1.96E-06
MX1	5381.77	1.36	0.37983	3.58187	0.00034
C11orf53	189.411	1.36	0.34384	3.95627	7.61E-05
TRIM22	71.2347	1.36	0.37498	3.62743	0.00029
STAT1	6179.03	1.35	0.14436	9.38279	6.43E-21
CELF4	88.6766	1.34	0.31451	4.27448	1.92E-05
LINC01146	46.3766	1.34	0.34042	3.93649	8.27E-05
KAZALD1	323.531	1.31	0.19386	6.78279	1.18E-11
RARRES3	285.861	1.31	0.24702	5.31578	1.06E-07
LINC00570	70.4492	1.31	0.37208	3.52593	0.00042
C8G	598.628	1.30	0.25177	5.17938	2.23E-07
PLSCR1	1655.85	1.30	0.21055	6.19005	6.01E-10
IFI27	13348.4	1.29	0.25223	5.1269	2.95E-07
MESP2	31.7043	1.29	0.33784	3.82767	0.00013
PSMB8	2987.16	1.28	0.12332	10.4054	2.34E-25
DHX58	883.709	1.27	0.20982	6.07232	1.26E-09
SLC7A2	719.793	1.27	0.30185	4.21761	2.47E-05
USP18	869.874	1.27	0.23803	5.32171	1.03E-07
CNTD2	29.2165	1.26	0.39022	3.21991	0.00128
BTN3A1	589.721	1.26	0.18098	6.94042	3.91E-12

BTN3A2	1368.05	1.25	0.15887	7.85424	4.02E-15
AQP3	4168.78	1.25	0.1559	7.99454	1.30E-15
B2M	23870.6	1.24	0.20694	6.01227	1.83E-09
ARRB2	2806.67	1.24	0.22672	5.48517	4.13E-08
RPRM	13.3515	1.24	0.3896	3.1916	0.00141
LOC100419583	754.04	1.24	0.22703	5.47343	4.41E-08
NEIL3	457.846	1.24	0.29169	4.25825	2.06E-05
CDX2	1668.12	1.23	0.20242	6.06178	1.35E-09
LY6E	10213	1.23	0.29957	4.09008	4.31E-05
LOC101928994	748.577	1.22	0.32753	3.73724	0.00019
C19orf66	452.125	1.21	0.2384	5.06205	4.15E-07
GDF15	1368.48	1.21	0.18481	6.52898	6.62E-11
STOX1	69.044	1.20	0.27864	4.31162	1.62E-05
ODF3B	116.88	1.20	0.34501	3.47538	0.00051
NAT8	44.4331	1.20	0.36921	3.23946	0.0012
IFI6	8490.71	1.19	0.39383	3.03363	0.00242
TAP1	2352.56	1.19	0.26522	4.50411	6.67E-06
PARP9	3595.54	1.19	0.22708	5.25801	1.46E-07
IFIT5	1043.48	1.19	0.26884	4.4361	9.16E-06
IGFALS	658.681	1.19	0.23764	5.00764	5.51E-07
APOL6	536.736	1.19	0.19252	6.16556	7.02E-10
PSCA	2112.78	1.19	0.26831	4.42125	9.81E-06
ITPKA	363.681	1.18	0.24229	4.86338	1.15E-06
KITLG	107.466	1.18	0.25989	4.52604	6.01E-06
RUFY4	17.6127	1.17	0.39282	2.9836	0.00285
CCL15	29.2884	1.17	0.38087	3.0711	0.00213
FAM83F	10.5133	1.16	0.38888	2.9906	0.00278
BISPR	256.18	1.16	0.21179	5.48526	4.13E-08
DOC2A	165.758	1.16	0.34164	3.39999	0.00067
IFIT1	1518.7	1.15	0.39298	2.93807	0.0033
ST6GALNAC4	938.498	1.15	0.17926	6.42978	1.28E-10
CYP2B6	362.858	1.15	0.32535	3.54115	0.0004
TGM3	22.9515	1.15	0.38816	2.95018	0.00318
RFTN1	104.659	1.14	0.36483	3.1312	0.00174

LDLRAD1	686.228	1.14	0.17962	6.35744	2.05E-10
CFB	2024.08	1.14	0.30138	3.7888	0.00015
LOC100506125	14.4817	1.14	0.39333	2.88663	0.00389
ST6GAL1	2491.4	1.13	0.16853	6.72975	1.70E-11
OAS3	7691.76	1.13	0.2637	4.29593	1.74E-05
HSH2D	960.19	1.13	0.19036	5.94977	2.69E-09
CDC42P3	11.155	1.13	0.394	2.87234	0.00407
ATP8A1	530.32	1.13	0.24974	4.52279	6.10E-06
PRR15L	2434.82	1.12	0.21164	5.30691	1.11E-07
IL1RN	38.089	1.12	0.37033	3.02711	0.00247
FXYD6	142.472	1.11	0.32483	3.42915	0.00061
ASPHD1	432.334	1.11	0.20208	5.50145	3.77E-08
VSIG1	2403.19	1.11	0.25008	4.44371	8.84E-06
ISG15	2003.9	1.11	0.38496	2.88445	0.00392
ACSS1	1080.03	1.10	0.2066	5.34219	9.18E-08
EHF	2442.11	1.10	0.26192	4.2108	2.54E-05
SLC43A1	187.848	1.10	0.28323	3.89269	9.91E-05
SLCO4A1	475.441	1.10	0.25752	4.26612	1.99E-05
CKMT1A	251.697	1.10	0.21823	5.0298	4.91E-07
CORO2A	2872.45	1.09	0.1629	6.70264	2.05E-11
HLA-C	14918.6	1.09	0.18311	5.96009	2.52E-09
SEMA6A	81.9129	1.09	0.30433	3.58352	0.00034
ASRGL1	238.648	1.09	0.25868	4.20127	2.65E-05
CCDC42B	28.0211	1.09	0.37555	2.88997	0.00385
SLC51B	1350.41	1.08	0.31808	3.41048	0.00065
SYP	79.629	1.08	0.29561	3.6661	0.00025
DEGS2	547.738	1.08	0.20122	5.38538	7.23E-08
CD38	19.6465	1.08	0.39304	2.75347	0.0059
PLA2G4C	202.845	1.08	0.26403	4.09756	4.18E-05
RENBP	178.932	1.08	0.28092	3.84881	0.00012
CCDC34	524.19	1.08	0.21297	5.05878	4.22E-07
TMPRSS3	106.555	1.08	0.29021	3.70843	0.00021
SPRY1	332.166	1.07	0.21384	5.00207	5.67E-07
SP5	123.552	1.07	0.33659	3.17574	0.00149

MECOM	489.026	1.06	0.27101	3.91125	9.18E-05
KCNV1	91.794	1.06	0.28285	3.74302	0.00018
CEBPA	452.63	1.06	0.2487	4.25648	2.08E-05
KIAA1211L	280.899	1.06	0.27028	3.91519	9.03E-05
PDK4	200.593	1.06	0.26785	3.94448	8.00E-05
TMEM82	166.787	1.06	0.28323	3.72545	0.00019
CA11	354.426	1.05	0.28149	3.7392	0.00018
CATIP	22.3093	1.05	0.38054	2.76262	0.00573
SYBU	408.726	1.05	0.32678	3.20763	0.00134
NTHL1	698.962	1.05	0.23726	4.40645	1.05E-05
EPB41L4B	1073.22	1.04	0.25133	4.15018	3.32E-05
MAP1A	401.88	1.04	0.25989	4.01068	6.05E-05
HLA-A	22986.2	1.04	0.16543	6.28854	3.20E-10
LOC100133985	16.228	1.04	0.39005	2.66447	0.00771
FAM198B	63.0685	1.04	0.30964	3.3551	0.00079
FKBP5	1031.44	1.04	0.27315	3.7999	0.00014
PALD1	108.404	1.04	0.28465	3.64445	0.00027
ITGAM	127.441	1.04	0.33048	3.13406	0.00172
ASS1	5865.46	1.03	0.18937	5.46359	4.67E-08
OTUB2	81.7673	1.03	0.28281	3.64965	0.00026
LOC285740	36.843	1.03	0.36639	2.81549	0.00487
ANPEP	5045.61	1.03	0.14392	7.16566	7.74E-13
PSME2	2328.07	1.03	0.11829	8.71362	2.94E-18
LINC00565	18.0711	1.03	0.39397	2.60852	0.00909
LRRC73	55.2322	1.03	0.30431	3.37185	0.00075
C17orf82	10.8999	1.03	0.39398	2.60201	0.00927
ARMC12	17.8867	1.02	0.39148	2.61334	0.00897
DDX58	1966.58	1.02	0.28322	3.6088	0.00031
CREB3L1	6605.35	1.02	0.28905	3.52781	0.00042
SMOC1	1599.49	1.02	0.24984	4.08105	4.48E-05
PPP1R14D	270.181	1.01	0.27977	3.62071	0.00029
RTN4RL2	277.328	1.01	0.27489	3.66555	0.00025
PGR	24.2497	1.00	0.39138	2.56144	0.01042
LAP3	2329.26	1.00	0.15182	6.59643	4.21E-11

ELN	156.553	1.00	0.36833	2.71656	0.0066
SPATA18	66.4004	1.00	0.3804	2.62947	0.00855
KIAA1147	3702.8	1.00	0.20137	4.96651	6.82E-07
MSX2	300.62	1.00	0.20364	4.90454	9.36E-07
GPR37	202.446	1.00	0.21332	4.68172	2.84E-06
OAS2	1960.9	1.00	0.37459	2.66315	0.00774
CRB2	31.4101	1.00	0.34813	2.86232	0.00421
ADGRG5	433.25	1.00	0.22585	4.41156	1.03E-05
FAM46A	377.184	0.99	0.24957	3.98174	6.84E-05
LINC01485	30.8023	0.99	0.36911	2.68316	0.00729
TYMSOS	23.5377	0.99	0.36675	2.69801	0.00698
SLC5A11	1417.75	0.99	0.21364	4.61375	3.95E-06
RASSF9	123.482	0.98	0.26724	3.67557	0.00024
GRHL3	127.018	0.98	0.32562	3.01186	0.0026
GSDMB	188.972	0.98	0.3244	3.01988	0.00253
CEL	61.244	0.98	0.32863	2.96867	0.00299
MNX1-AS1	108.867	0.97	0.24704	3.94464	7.99E-05
HSPA4L	120.203	0.97	0.23243	4.17662	2.96E-05
CYP2J2	135.789	0.97	0.27373	3.54504	0.00039
MNS1	200.289	0.97	0.26474	3.65168	0.00026
RASGEF1B	84.4123	0.97	0.29485	3.27311	0.00106
TMEM151A	878.669	0.96	0.31659	3.04495	0.00233
C4orf33	493.365	0.96	0.20776	4.63646	3.54E-06
CCDC78	149.412	0.96	0.22867	4.2102	2.55E-05
SLC27A2	341.376	0.96	0.19076	5.03353	4.82E-07
NHSL1	611.746	0.96	0.19702	4.87278	1.10E-06
GULP1	853.58	0.96	0.19756	4.85517	1.20E-06
NMI	877.428	0.96	0.20819	4.6001	4.22E-06
EOMES	18.5895	0.96	0.39337	2.43421	0.01492
CCDC144NL-AS1	9.39307	0.96	0.39276	2.43743	0.01479
TMED6	115.824	0.96	0.3006	3.18442	0.00145
SMOC2	2523.73	0.95	0.29919	3.18858	0.00143
TRPV2	10.7579	0.95	0.39371	2.42253	0.01541
RAPGEF3	216.82	0.95	0.19861	4.79609	1.62E-06

SGK2	866.979	0.95	0.19102	4.97521	6.52E-07
EGFR-AS1	398.034	0.95	0.19318	4.89486	9.84E-07
GAS6-AS1	55.4633	0.94	0.30539	3.08793	0.00202
PAPSS2	690.696	0.94	0.29855	3.1541	0.00161
LRRC66	507.431	0.94	0.21893	4.29732	1.73E-05
TESC	1298.95	0.94	0.26901	3.49563	0.00047
VSTM2L	305.878	0.94	0.23724	3.95837	7.55E-05
ADGRD1	411.484	0.94	0.22802	4.11762	3.83E-05
HOXD4	17.2168	0.94	0.3832	2.44999	0.01429
PHACTR1	30.1925	0.94	0.35245	2.66203	0.00777
MTRNR2L10	2097.67	0.94	0.22565	4.15608	3.24E-05
CA8	32.0127	0.94	0.37865	2.47649	0.01327
MUC2	123.628	0.94	0.37394	2.50709	0.01217
TRIM14	4758.35	0.94	0.14346	6.52437	6.83E-11
RBM11	64.1022	0.94	0.27272	3.43022	0.0006
IFIH1	1622.49	0.93	0.27582	3.38992	0.0007
RORC	594.956	0.93	0.19401	4.81103	1.50E-06
THEMIS2	120.077	0.93	0.25023	3.72291	0.0002
SGPP1	1236.88	0.93	0.17762	5.2416	1.59E-07
PNPLA1	146.74	0.93	0.22024	4.22628	2.38E-05
EVA1C	1390.38	0.93	0.25201	3.68784	0.00023
LINC01410	33.6483	0.93	0.32845	2.82655	0.00471
P2RX5	31.4852	0.93	0.34432	2.69287	0.00708
B3GNT7	2024.67	0.93	0.224	4.13767	3.51E-05
RDH10	938.604	0.93	0.31551	2.93273	0.00336
NRGN	25.8992	0.92	0.36053	2.56129	0.01043
HMGN5	408.897	0.92	0.30362	3.04098	0.00236
BIRC3	1244.13	0.92	0.20021	4.58754	4.48E-06
WNT4	136.353	0.92	0.22524	4.07116	4.68E-05
COLCA2	524.77	0.92	0.33548	2.73208	0.00629
LOC643201	129.183	0.92	0.33107	2.76502	0.00569
PIP5K1B	275.086	0.91	0.32081	2.85076	0.00436
GATA2-AS1	174.012	0.91	0.33378	2.73577	0.00622
GRAMD1C	125.011	0.91	0.2692	3.38986	0.0007

GPR27	22.6461	0.91	0.36581	2.49064	0.01275
RSPH1	55.1832	0.91	0.30801	2.9473	0.00321
TLR3	183.489	0.91	0.25464	3.56321	0.00037
TGFBR3	163.796	0.91	0.25033	3.6242	0.00029
SLCO3A1	990.193	0.91	0.25455	3.55823	0.00037
VAV3	243.295	0.91	0.31546	2.87052	0.0041
HOXC5	35.7246	0.91	0.35773	2.5303	0.0114
MUC5B	34097.2	0.90	0.22136	4.07205	4.66E-05
SLC45A4	5170.82	0.90	0.11806	7.62543	2.43E-14
LRIG1	361.576	0.90	0.22026	4.08322	4.44E-05
ERN2	1681.4	0.90	0.26139	3.43937	0.00058
SLC15A3	21.9953	0.90	0.37468	2.39758	0.0165
CXCL1	510.566	0.90	0.31832	2.82038	0.0048
ATP6V0E2-AS1	26.1765	0.90	0.36012	2.48923	0.0128
KCNK3	95.5755	0.90	0.32654	2.74246	0.0061
WNK4	192.872	0.90	0.21378	4.18669	2.83E-05
ST3GAL4-AS1	108.239	0.89	0.27048	3.30426	0.00095
PRR22	69.8854	0.89	0.303	2.94733	0.00321
ADAMTS14	78.3564	0.89	0.3022	2.95424	0.00313
SCN8A	1494.57	0.89	0.19942	4.46969	7.83E-06
APIP	295.808	0.89	0.21174	4.20862	2.57E-05
MYB	87.1103	0.89	0.32031	2.77955	0.00544
HOXA10	155.39	0.89	0.23665	3.754	0.00017
LINC01124	55.7618	0.89	0.30186	2.94285	0.00325
PLEKHB1	530.141	0.89	0.18184	4.87859	1.07E-06
CNNM1	660.779	0.89	0.25885	3.42643	0.00061
CTSS	361.639	0.89	0.31278	2.83279	0.00461
SAMD9L	851.909	0.89	0.27335	3.24071	0.00119
ACTL8	64.838	0.89	0.32827	2.69598	0.00702
IFI30	238.555	0.88	0.21285	4.13478	3.55E-05
TMPRSS2	356.876	0.88	0.30793	2.858	0.00426
BRCA2	738.304	0.88	0.14613	6.01978	1.75E-09
TNFSF10	293.478	0.88	0.33861	2.58615	0.00971
TAP2	1846.25	0.87	0.17495	4.99856	5.78E-07

CCDC64	519.011	0.87	0.16268	5.37554	7.64E-08
CDR1	161.042	0.87	0.32225	2.71004	0.00673
PRKCQ-AS1	393.463	0.87	0.16256	5.3611	8.27E-08
FAM81A	23.0568	0.87	0.36353	2.3928	0.01672
ADH6	656.458	0.87	0.25795	3.36375	0.00077
RASL11A	110.886	0.87	0.27601	3.14236	0.00168
CEACAM5	5742.32	0.87	0.21449	4.0395	5.36E-05
GNAI1	577.629	0.86	0.14772	5.85271	4.84E-09
CYSTM1	3259.79	0.86	0.22524	3.83712	0.00012
LOC115110	245.946	0.86	0.21265	4.05954	4.92E-05
GAL3ST2	436.66	0.86	0.23266	3.70377	0.00021
SLC1A7	169.815	0.86	0.30428	2.83095	0.00464
SORBS1	241.044	0.86	0.21818	3.93865	8.19E-05
CGREF1	524.305	0.86	0.18423	4.66269	3.12E-06
HOXD13	69.5165	0.86	0.31879	2.69331	0.00707
DOK7	433.365	0.86	0.21322	4.01991	5.82E-05
GPR19	29.2528	0.86	0.35566	2.40929	0.01598
MUC5AC	70701.6	0.86	0.25246	3.39175	0.00069
SLC12A2	1631.88	0.85	0.2114	4.04391	5.26E-05
PEX5L	107.795	0.85	0.30571	2.79512	0.00519
IRX3	217.992	0.85	0.21921	3.89249	9.92E-05
CD27-AS1	106.205	0.85	0.32201	2.64929	0.00807
LINC01342	32.5629	0.85	0.34316	2.4818	0.01307
RELL2	34.044	0.85	0.33819	2.51648	0.01185
CLPSL1	57.448	0.85	0.33043	2.57486	0.01003
EXOC3L4	166.559	0.85	0.28483	2.98558	0.00283
PHACTR3	292.181	0.85	0.34782	2.44074	0.01466
ARL11	261.415	0.85	0.23786	3.56457	0.00036
PDE10A	721.819	0.85	0.16986	4.9884	6.09E-07
TFF1	10905	0.85	0.18966	4.45936	8.22E-06
COL16A1	147.723	0.85	0.33416	2.52963	0.01142
GJB1	685.312	0.84	0.26159	3.22789	0.00125
ESCO2	301.343	0.84	0.21871	3.8498	0.00012
XXYLT1-AS2	250.885	0.84	0.32994	2.54299	0.01099

CCDC24	200.98	0.84	0.24754	3.38773	0.0007
GLYATL1	537.153	0.84	0.23077	3.63319	0.00028
MESP1	54.6113	0.84	0.33075	2.53425	0.01127
NAP1L2	138.808	0.84	0.26568	3.15473	0.00161
RPARP-AS1	262.639	0.84	0.20405	4.10569	4.03E-05
CYBRD1	483.393	0.84	0.30174	2.772	0.00557
HOXC6	170.997	0.83	0.2353	3.5479	0.00039
SNORA24	30.6738	0.83	0.33441	2.48995	0.01278
LRRCC1	405.685	0.83	0.18563	4.47464	7.65E-06
HLA-H	525.298	0.83	0.21268	3.90495	9.42E-05
PARP10	2269.25	0.83	0.23681	3.50386	0.00046
LYSMD2	158.44	0.83	0.20727	3.99966	6.34E-05
EIF2AK2	2393.92	0.83	0.21347	3.88169	0.0001
CD47	632.961	0.83	0.20294	4.07793	4.54E-05
AIM1	383.548	0.83	0.33449	2.47313	0.01339
ANK3	756.136	0.83	0.19936	4.14585	3.39E-05
COL9A2	41.2331	0.83	0.33008	2.50053	0.0124
TMEM198	149.184	0.82	0.30154	2.73468	0.00624
PNPT1	1533.06	0.82	0.16091	5.1247	2.98E-07
ARHGEF38	526.541	0.82	0.25798	3.19275	0.00141
TM4SF4	18900.4	0.82	0.16794	4.90303	9.44E-07
COMTD1	1477.55	0.82	0.14972	5.49522	3.90E-08
KIF20B	1293.18	0.82	0.17785	4.62488	3.75E-06
LOC101929412	326.077	0.82	0.3256	2.52487	0.01157
RNF43	1522.03	0.82	0.15186	5.41142	6.25E-08
TST	1091.52	0.82	0.14327	5.7188	1.07E-08
HPDL	156.025	0.82	0.24144	3.38299	0.00072
ST8SIA4	355.382	0.82	0.19596	4.16388	3.13E-05
LBX2-AS1	705.017	0.82	0.16812	4.85057	1.23E-06
ETFDH	693.842	0.81	0.14631	5.56714	2.59E-08
NSMCE4A	672.646	0.81	0.1301	6.24935	4.12E-10
ENPP1	101.917	0.81	0.29593	2.7322	0.00629
PPM1H	541.813	0.81	0.16179	4.99624	5.85E-07
NKX2-8	58.779	0.81	0.29786	2.70695	0.00679

TNFSF13	544.242	0.81	0.18232	4.42041	9.85E-06
COQ2	570.583	0.81	0.1451	5.55339	2.80E-08
CHCHD10	1160.47	0.81	0.14248	5.6545	1.56E-08
MND1	162.895	0.80	0.24718	3.2492	0.00116
COA6	392.68	0.80	0.16154	4.96792	6.77E-07
BCCIP	1841.59	0.80	0.19595	4.07777	4.55E-05
BCO1	220.387	0.80	0.24196	3.29716	0.00098
SULT1A2	615.608	0.80	0.18277	4.3604	1.30E-05
PARP14	5524.99	0.80	0.14519	5.48824	4.06E-08
TMEM253	480.304	0.80	0.21149	3.76596	0.00017
PYROXD2	295.543	0.80	0.21417	3.71503	0.0002
SDSL	487.094	0.79	0.18528	4.28429	1.83E-05
FBXO43	88.1398	0.79	0.2952	2.68894	0.00717
TSPAN8	8402.97	0.79	0.25316	3.13226	0.00173
IFT27	316.97	0.79	0.18306	4.32559	1.52E-05
LOC101927630	75.5984	0.79	0.31303	2.52635	0.01153
ARL14	552.035	0.79	0.2348	3.36412	0.00077
RAPGEFL1	3043.85	0.79	0.144	5.47596	4.35E-08
NAP1L5	66.407	0.79	0.30757	2.5553	0.01061
ISOC2	1710.89	0.78	0.18687	4.19636	2.71E-05
NPM3	696.054	0.78	0.17273	4.53439	5.78E-06
MPC2	2129.83	0.78	0.11768	6.65253	2.88E-11
RFX5	1198.03	0.78	0.13341	5.86821	4.41E-09
OAT	3568.8	0.78	0.16583	4.7205	2.35E-06
CADPS2	341.896	0.78	0.15534	5.03593	4.76E-07
CDK1	1087.08	0.78	0.16694	4.66856	3.03E-06
ZWINT	1538.02	0.78	0.16	4.86538	1.14E-06
HMGB2	2792.51	0.78	0.1724	4.50192	6.73E-06
PIR	398.456	0.78	0.15638	4.95907	7.08E-07
SFTA2	394.649	0.77	0.26159	2.96225	0.00305
TRANK1	417.159	0.77	0.21932	3.52999	0.00042
CA2	514.736	0.77	0.16404	4.71319	2.44E-06
HOXB5	296.584	0.77	0.2161	3.57749	0.00035
WBSCR27	317.258	0.77	0.177	4.36546	1.27E-05

KLK10	3789.7	0.77	0.27062	2.85483	0.00431
MFSD6L	140.752	0.77	0.32336	2.38672	0.017
BAX	1239.35	0.77	0.12985	5.94243	2.81E-09
DDX60L	1520.43	0.77	0.28509	2.6853	0.00725
PSAPL1	110.38	0.77	0.28847	2.65323	0.00797
LOC728743	202.484	0.76	0.22228	3.44151	0.00058
F7	277.694	0.76	0.2979	2.56625	0.01028
PHF11	856.06	0.76	0.17862	4.27195	1.94E-05
MUC13	23098.8	0.76	0.22394	3.40458	0.00066
C21orf58	369.343	0.76	0.20589	3.70214	0.00021
DCLRE1C	1056.23	0.76	0.17458	4.36447	1.27E-05
FOXJ1	407.925	0.76	0.26316	2.89115	0.00384
DGAT2	53.0075	0.76	0.31347	2.42604	0.01526
SKA3	725.745	0.76	0.15483	4.90567	9.31E-07
NPDC1	1266.57	0.76	0.13363	5.6828	1.33E-08
RPUSD1	1981.08	0.76	0.14918	5.0894	3.59E-07
SH3PXD2A	792.355	0.76	0.21168	3.58651	0.00034
RBBP8NL	411.254	0.76	0.16424	4.61778	3.88E-06
PSMB10	783.714	0.76	0.1734	4.37008	1.24E-05
ABCG2	265.038	0.75	0.21522	3.50273	0.00046
RIBC2	73.4421	0.75	0.28163	2.67374	0.0075
CPLX2	15905	0.75	0.26267	2.85958	0.00424
EDAR	261.289	0.75	0.30709	2.44198	0.01461
LOC101927027	406.682	0.75	0.18151	4.1293	3.64E-05
IL7	65.5943	0.75	0.28017	2.67273	0.00752
ZNF703	1723.39	0.75	0.19101	3.91973	8.86E-05
PHGR1	2180.2	0.75	0.29606	2.51756	0.01182
ESPN	528.683	0.74	0.16163	4.59081	4.42E-06
ATP5G1	1129.6	0.74	0.14779	5.01803	5.22E-07
IL15RA	264.101	0.74	0.22289	3.32177	0.00089
PCLO	682.721	0.74	0.20227	3.6548	0.00026
KIF24	370.755	0.74	0.21386	3.4473	0.00057
CENPK	353.319	0.74	0.20066	3.67007	0.00024
CREG1	3091.59	0.74	0.17779	4.13622	3.53E-05

MAGEF1	2685.34	0.73	0.19969	3.67154	0.00024
NAA38	1001.32	0.73	0.17003	4.30944	1.64E-05
TACC2	5425.38	0.73	0.14032	5.22144	1.78E-07
NMU	90.649	0.73	0.2907	2.51173	0.01201
TRIM38	1175.84	0.73	0.18093	4.03475	5.47E-05
SMC4	3125.98	0.73	0.19187	3.80428	0.00014
ADGRG2	72.8746	0.73	0.30171	2.41748	0.01563
DPY19L2	83.2129	0.73	0.27275	2.67273	0.00752
FTCDNL1	67.4055	0.73	0.27547	2.64339	0.00821
HMMR	562.975	0.73	0.15368	4.73578	2.18E-06
CAPN9	2395.01	0.73	0.16176	4.49708	6.89E-06
KIAA0101	690.843	0.73	0.13796	5.26388	1.41E-07
DNAJC12	64.4691	0.72	0.28035	2.58514	0.00973
CACNB2	181.437	0.72	0.24883	2.91056	0.00361
ZNF367	388.471	0.72	0.15419	4.68829	2.76E-06
NMB	765.399	0.72	0.24673	2.9247	0.00345
SEPHS2	2878.08	0.72	0.12205	5.91089	3.40E-09
OAF	167.385	0.72	0.28556	2.5257	0.01155
TAPBPL	220.763	0.72	0.17897	4.02631	5.67E-05
TREX1	329.759	0.72	0.19564	3.6819	0.00023
SLC45A3	1179.1	0.72	0.15838	4.54654	5.45E-06
XK	383.607	0.72	0.25647	2.80738	0.00499
VSIG10L	609.01	0.72	0.17562	4.09541	4.21E-05
GUCY1A3	131.168	0.72	0.24765	2.90359	0.00369
CISD1	703.105	0.72	0.15799	4.5425	5.56E-06
PABPC1L	1022.48	0.72	0.1715	4.17999	2.92E-05
GPT2	1506.49	0.72	0.10477	6.82818	8.60E-12
TDRD7	816.397	0.71	0.16622	4.29348	1.76E-05
BDKRB2	1042.44	0.71	0.2703	2.64005	0.00829
DUSP16	1451.2	0.71	0.1235	5.77568	7.66E-09
RAD51C	252.723	0.71	0.18889	3.77609	0.00016
DSCC1	203.184	0.71	0.22193	3.21292	0.00131
TYMP	1490.99	0.71	0.19199	3.71278	0.0002
CHTF18	1256.07	0.71	0.2427	2.93548	0.00333

BDH1	478.903	0.71	0.23107	3.07665	0.00209
RBM47	5711.82	0.71	0.09461	7.51394	5.74E-14
HAGHL	366.15	0.71	0.23028	3.06782	0.00216
SH3BGRL2	1072.02	0.71	0.20452	3.4526	0.00056
IRF9	2371.16	0.71	0.19032	3.70945	0.00021
HSDL2	912.112	0.70	0.16844	4.18354	2.87E-05
ELFN1-AS1	326.789	0.70	0.29161	2.41312	0.01582
STS	549.758	0.70	0.29507	2.38172	0.01723
OMA1	137.125	0.70	0.28192	2.48625	0.01291
FOXL2	174.498	0.70	0.24058	2.91323	0.00358
SLPI	2727.5	0.70	0.20494	3.41616	0.00064
B4GALT6	114.902	0.70	0.23092	3.02972	0.00245
MTRNR2L1	14265.9	0.70	0.09856	7.09491	1.29E-12
MASTL	1016.67	0.70	0.12938	5.40227	6.58E-08
MLKL	1028.34	0.70	0.22047	3.16662	0.00154
ISCU	1510.85	0.70	0.13339	5.21945	1.79E-07
GSTM4	503.293	0.70	0.23581	2.95033	0.00317
ANKRD18B	266.014	0.69	0.21595	3.20945	0.00133
DEPDC1	360.231	0.69	0.15998	4.32756	1.51E-05
AQP7	94.9295	0.69	0.264	2.62035	0.00878
TBXAS1	187.622	0.69	0.26315	2.62875	0.00857
KRT15	1432.84	0.69	0.2015	3.43023	0.0006
WDR89	453.686	0.69	0.1452	4.75811	1.95E-06
LOC100506100	58.434	0.69	0.28887	2.39057	0.01682
TTC39A	654.811	0.69	0.27129	2.54289	0.01099
DNPH1	2368.4	0.69	0.14104	4.8902	1.01E-06
ADCK3	819.277	0.69	0.21556	3.1993	0.00138
FBXL19-AS1	502.841	0.69	0.18876	3.65299	0.00026
F2	925.855	0.69	0.21443	3.20773	0.00134
RAB40B	644.388	0.69	0.15585	4.40964	1.04E-05
SPINK5	1530.81	0.69	0.22587	3.03639	0.00239
PHEX	130.46	0.69	0.27804	2.46596	0.01366
AKR7A3	2722.1	0.69	0.20615	3.32568	0.00088
FRAT2	151.103	0.69	0.26053	2.63074	0.00852

KRTCAP3	1299.99	0.68	0.24637	2.77957	0.00544
DTX3L	4163.67	0.68	0.18535	3.69435	0.00022
EXO1	624.981	0.68	0.24804	2.75691	0.00584
SASS6	215.742	0.68	0.23699	2.88444	0.00392
MAD2L1	879.267	0.68	0.14074	4.84722	1.25E-06
HELZ2	4878.42	0.68	0.28362	2.40462	0.01619
PBK	607.746	0.68	0.15363	4.43056	9.40E-06
SEMA3F	638.948	0.68	0.23288	2.92004	0.0035
FABP5	909.251	0.68	0.20527	3.30786	0.00094
ZC3HAV1	3868.44	0.68	0.13299	5.09404	3.51E-07
SPDEF	785.021	0.68	0.23689	2.85886	0.00425
C2orf72	2067.9	0.68	0.18831	3.59173	0.00033
CENPE	944.946	0.68	0.18536	3.64234	0.00027
CASP9	415.536	0.67	0.18375	3.67228	0.00024
PDCD4	910.063	0.67	0.13343	5.05319	4.35E-07
UBXN8	364.459	0.67	0.16269	4.14029	3.47E-05
CDKN3	820.611	0.67	0.20629	3.26456	0.0011
BAHCC1	823.075	0.67	0.21998	3.06061	0.00221
SP140L	641.666	0.67	0.17392	3.86665	0.00011
TFF3	5333.8	0.67	0.23383	2.87315	0.00406
DPP4	1204.49	0.67	0.24405	2.75192	0.00592
SP110	1798.91	0.67	0.19662	3.40993	0.00065
FAM96A	839.018	0.67	0.17839	3.75476	0.00017
SULT1A1	1825.62	0.67	0.18967	3.52314	0.00043
HLA-E	10436.1	0.67	0.17438	3.82743	0.00013
RFC3	621.755	0.67	0.178	3.74857	0.00018
GGCT	720.103	0.67	0.17482	3.81596	0.00014
SLC17A9	3226.96	0.67	0.1338	4.97497	6.53E-07
HNF4G	707.272	0.67	0.18759	3.54701	0.00039
LGALS3BP	23691.6	0.66	0.17806	3.7339	0.00019
ZDHHC11	347.792	0.66	0.24789	2.68041	0.00735
MGST2	512.976	0.66	0.17576	3.77979	0.00016
DAPP1	129.734	0.66	0.25901	2.56281	0.01038
ASF1B	722.581	0.66	0.15521	4.25803	2.06E-05

CLDN3	5107.29	0.66	0.12727	5.18284	2.19E-07
TSPO2	92.4778	0.66	0.2403	2.74028	0.00614
ZNF485	89.0672	0.66	0.25957	2.53498	0.01125
TC2N	1141.15	0.66	0.21616	3.04161	0.00235
GSTO2	527.619	0.66	0.26959	2.4335	0.01495
WASF1	177.561	0.65	0.23795	2.75011	0.00596
MAPK12	525.693	0.65	0.17734	3.68688	0.00023
PARM1	1185.13	0.65	0.19694	3.31727	0.00091
RPGR	261.984	0.65	0.21422	3.0472	0.00231
NT5C3A	1173.44	0.65	0.19876	3.28266	0.00103
CHEK2	169.78	0.65	0.19984	3.25882	0.00112
MIS18A	465.496	0.65	0.19237	3.38119	0.00072
STAT2	2349.61	0.65	0.14855	4.37781	1.20E-05
FAM111A	2452.92	0.65	0.15472	4.19816	2.69E-05
C2orf74	387.276	0.65	0.18159	3.57573	0.00035
BMP7	939.049	0.65	0.25256	2.56391	0.01035
POLR2K	1154.46	0.65	0.13199	4.89742	9.71E-07
ZMAT1	348.297	0.65	0.23689	2.72862	0.00636
MTRNR2L6	1365.56	0.65	0.13687	4.71912	2.37E-06
PRR26	1565.2	0.65	0.12999	4.96731	6.79E-07
CCDC159	176.65	0.65	0.22109	2.91948	0.00351
PCNA	1010.76	0.65	0.16664	3.87318	0.00011
ZDHHC14	217.59	0.64	0.26375	2.44326	0.01456
CD82	1474.15	0.64	0.2617	2.462	0.01382
RPS6KL1	219.404	0.64	0.26884	2.39384	0.01667
SSTR5	521.47	0.64	0.20763	3.09842	0.00195
ARRDC1-AS1	319.351	0.64	0.18012	3.57023	0.00036
LACTB2	531.94	0.64	0.20558	3.12721	0.00176
FGFBP3	80.6555	0.64	0.25377	2.53297	0.01131
GDAP1	218.9	0.64	0.25172	2.55259	0.01069
SAMD12	348.081	0.64	0.25348	2.53186	0.01135
TACC1	2688.96	0.64	0.21402	2.99761	0.00272
NANS	1587.15	0.64	0.18425	3.48029	0.0005
TMEM62	1015.17	0.64	0.11428	5.6016	2.12E-08

MNX1	408.531	0.64	0.18175	3.52151	0.00043
RIMKLB	1788.32	0.64	0.20917	3.05878	0.00222
FDXR	297.798	0.64	0.18674	3.42122	0.00062
RBM38	1301.21	0.64	0.2056	3.10649	0.00189
HS6ST1	2056.9	0.64	0.24367	2.6201	0.00879
SNHG8	1980.23	0.64	0.16181	3.93942	8.17E-05
SPIRE2	478.068	0.64	0.24115	2.64304	0.00822
PPFIA3	273.803	0.64	0.17651	3.60844	0.00031
SLC18B1	310.153	0.64	0.19127	3.32823	0.00087
BAG2	1014.5	0.64	0.13316	4.779	1.76E-06
SLC43A2	520.016	0.64	0.20928	3.04075	0.00236
CDC7	284.557	0.64	0.18654	3.40924	0.00065
ABCC5	1506.1	0.63	0.14727	4.30899	1.64E-05
LOC440028	118.846	0.63	0.25958	2.43881	0.01474
A1CF	403.468	0.63	0.23011	2.74958	0.00597
SFXN5	890.076	0.63	0.17713	3.57107	0.00036
PDZD3	543.561	0.63	0.21021	3.0083	0.00263
SPATA13	955.709	0.63	0.15088	4.18881	2.80E-05
FAM195A	699.251	0.63	0.13277	4.75769	1.96E-06
HNFB1A-AS1	1340.66	0.63	0.2354	2.68155	0.00733
TINAG	454.763	0.63	0.2351	2.67874	0.00739
PGBD2	154.44	0.63	0.23515	2.67699	0.00743
ACVR1B	1247.2	0.63	0.19098	3.29492	0.00098
FOPNL	1514.41	0.63	0.17998	3.48027	0.0005
PXMP2	356.089	0.63	0.18607	3.36152	0.00078
CXCL16	3825.82	0.62	0.12604	4.94813	7.49E-07
FN3K	1481.92	0.62	0.16534	3.77182	0.00016
RBBP8	642.69	0.62	0.17468	3.56413	0.00037
LARP7	2160.72	0.62	0.2192	2.82767	0.00469
PSME1	2516.63	0.62	0.14156	4.37596	1.21E-05
PIGP	566.718	0.62	0.15295	4.04732	5.18E-05
LHPP	1407.63	0.62	0.12085	5.12223	3.02E-07
PNPO	1481.69	0.62	0.11615	5.32538	1.01E-07
HOXA5	95.7397	0.62	0.23829	2.59299	0.00951

STAT5A	200.698	0.62	0.21725	2.83743	0.00455
LHX4-AS1	163.42	0.62	0.23676	2.60218	0.00926
PCBD1	3683.62	0.62	0.11964	5.14888	2.62E-07
SOWAHB	171.151	0.62	0.23465	2.62244	0.00873
PABPN1	348.066	0.61	0.17708	3.47157	0.00052
C17orf97	254.12	0.61	0.18183	3.38058	0.00072
ALDH16A1	1275.29	0.61	0.15667	3.91948	8.87E-05
PPARGC1B	354.389	0.61	0.20461	2.99993	0.0027
MDK	12741.2	0.61	0.16481	3.7234	0.0002
ZDHHC23	435.125	0.61	0.15142	4.05132	5.09E-05
GPD1L	718.404	0.61	0.20365	3.00908	0.00262
C10orf32	492.894	0.61	0.21876	2.79875	0.00513
CEP126	342.454	0.61	0.25163	2.43202	0.01501
THTPA	299.952	0.61	0.18364	3.33186	0.00086
FIGNL1	510.978	0.61	0.18042	3.38924	0.0007
SPSB2	823.554	0.61	0.19473	3.1199	0.00181
FAM107B	3146.06	0.61	0.18433	3.29548	0.00098
KCNK5	2245.1	0.61	0.15337	3.94545	7.96E-05
PBLD	884.286	0.61	0.1964	3.08073	0.00206
SFXN4	775.634	0.60	0.13043	4.63698	3.54E-06
RNASEH2C	546.058	0.60	0.16286	3.71251	0.00021
NUF2	335.28	0.60	0.19407	3.11017	0.00187
DLGAP1-AS1	234.588	0.60	0.18991	3.1781	0.00148
GMNN	643.73	0.60	0.15848	3.80456	0.00014
NUCB2	627.938	0.60	0.22789	2.64278	0.00822
ORMDL1	917.708	0.60	0.20924	2.87566	0.00403
BSPRY	871.132	0.60	0.14466	4.15924	3.19E-05
NDUFAF4	257.953	0.60	0.17667	3.40546	0.00066
SHROOM1	753.778	0.60	0.21766	2.76271	0.00573
C5orf34	124.625	0.60	0.25195	2.38476	0.01709
METRNL	1106.86	0.60	0.19744	3.04287	0.00234
TMEM51	628.947	0.60	0.1926	3.11592	0.00183
FOXRED2	486.131	0.60	0.22717	2.64159	0.00825
ATP10D	292.011	0.60	0.2384	2.51423	0.01193

PLK4	608.231	0.60	0.15629	3.82887	0.00013
LOC100507437	114.528	0.60	0.23611	2.53222	0.01133
HIBCH	795.211	0.60	0.20069	2.97788	0.0029
RMI2	624.585	0.60	0.14912	4.00644	6.16E-05
PNKD	10418	0.60	0.12215	4.88696	1.02E-06
TOE1	322.867	0.60	0.18214	3.27725	0.00105
LOC101928738	187.88	0.60	0.24788	2.40655	0.0161
ADAP1	4002.37	0.60	0.16395	3.63495	0.00028
BRCA1	887.263	0.60	0.17508	3.40303	0.00067
LOH12CR1	295.801	0.59	0.15806	3.76096	0.00017
MRPS26	570.985	0.59	0.152	3.89899	9.66E-05
ALDH18A1	2502.26	0.59	0.141	4.19611	2.72E-05
FKBP11	798.395	0.59	0.13515	4.37323	1.22E-05
TPSG1	704.789	0.59	0.23091	2.55616	0.01058
COA3	1595.73	0.59	0.17195	3.43072	0.0006
NDUFB5	1007.81	0.59	0.15642	3.76954	0.00016
FMO5	560.929	0.59	0.23701	2.48427	0.01298
HYLS1	518.368	0.59	0.13961	4.21261	2.52E-05
CFDP1	1581.97	0.59	0.1333	4.41026	1.03E-05
LSM3	696.563	0.59	0.17408	3.37711	0.00073
AGR3	643.426	0.59	0.15561	3.77522	0.00016
EPHA10	349.307	0.59	0.22527	2.60742	0.00912
ZNF688	266.772	0.59	0.21217	2.76734	0.00565
ATP5J	1817.98	0.59	0.13759	4.26487	2.00E-05
VWA7	496.826	0.59	0.20302	2.88981	0.00385
AGPAT9	1204.55	0.59	0.23231	2.52312	0.01163
NSUN6	336.6	0.59	0.18251	3.20938	0.00133
LSM4	2278.92	0.59	0.0965	6.06894	1.29E-09
SPAG1	1110.42	0.59	0.17862	3.27828	0.00104
RTKN2	278.806	0.59	0.21996	2.66181	0.00777
NADK	2834.42	0.59	0.1047	5.58846	2.29E-08
BACE2	1178.18	0.58	0.20142	2.90301	0.0037
SUOX	1027.25	0.58	0.1486	3.92886	8.54E-05
PARP12	1619.2	0.58	0.21724	2.68511	0.00725

	1-Mar	790.897	0.58	0.23297	2.50129	0.01237
SLC39A8		516.705	0.58	0.16933	3.4409	0.00058
LGR4		6096.11	0.58	0.16614	3.50594	0.00045
CD9		8847.07	0.58	0.20215	2.86768	0.00413
AKR7L		977.558	0.58	0.19081	3.0328	0.00242
ZSCAN12P1		156.478	0.58	0.23753	2.43569	0.01486
C6orf136		571.4	0.58	0.14611	3.95792	7.56E-05
ANO5		260.887	0.58	0.23355	2.47513	0.01332
KBTBD6		380.278	0.58	0.1745	3.30757	0.00094
RHNO1		1067.55	0.58	0.13366	4.31267	1.61E-05
C9orf142		667.149	0.58	0.16332	3.5292	0.00042
SLC25A45		482.288	0.58	0.20283	2.84138	0.00449
PMS1		468.967	0.58	0.21421	2.69003	0.00714
ABHD3		367.993	0.58	0.1944	2.9625	0.00305
C15orf62		211.717	0.58	0.23358	2.46492	0.0137
PSIP1		949.954	0.58	0.14646	3.9271	8.60E-05
DDC		1506.31	0.57	0.20536	2.79193	0.00524
EME1		292.977	0.57	0.19777	2.89448	0.0038
HRSP12		222.108	0.57	0.19657	2.91201	0.00359
DEPDC1B		407.563	0.57	0.21638	2.63426	0.00843
UBE2C		1666.97	0.57	0.13891	4.0912	4.29E-05
RPGRIP1L		218.096	0.57	0.22136	2.56277	0.01038
LOC101928766		104.234	0.57	0.2382	2.38111	0.01726
CCNG1		840.668	0.57	0.12883	4.39816	1.09E-05
UBE2S		2861.81	0.57	0.13913	4.07179	4.67E-05
H2AFX		3672.97	0.57	0.09913	5.71374	1.11E-08
HMG3		427.055	0.57	0.18273	3.09621	0.00196
TMEM180		159.882	0.56	0.21	2.68673	0.00722
FLJ32255		116.575	0.56	0.23212	2.42592	0.01527
STAU2		968.01	0.56	0.22318	2.52296	0.01164
PI4K2B		715.363	0.56	0.17168	3.27842	0.00104
EXOC6		415.793	0.56	0.16274	3.45821	0.00054
CISD2		1152.46	0.56	0.13872	4.05672	4.98E-05
CDC25A		199.099	0.56	0.21435	2.62495	0.00867

NR2F2	2465.69	0.56	0.1473	3.81871	0.00013
SERINC4	141.807	0.56	0.21015	2.67546	0.00746
TAF6L	407.156	0.56	0.18872	2.97364	0.00294
IL6R	958.63	0.56	0.17106	3.27961	0.00104
CDCA5	1428.23	0.56	0.16652	3.36781	0.00076
DCAKD	930.471	0.56	0.13136	4.26581	1.99E-05
SGOL2	574.887	0.56	0.16279	3.44151	0.00058
SLFN5	865.381	0.56	0.21537	2.59863	0.00936
C9orf40	384.198	0.56	0.16333	3.42571	0.00061
DANCR	602.932	0.56	0.18719	2.98431	0.00284
TMEM263	1382.95	0.56	0.20318	2.74894	0.00598
GSTA4	470.153	0.56	0.1947	2.86268	0.0042
CAMKMT	118.459	0.56	0.22443	2.4828	0.01304
NAT1	237.98	0.56	0.19556	2.84906	0.00438
CEBPD	862.959	0.56	0.19544	2.85046	0.00437
CMBL	5267.69	0.56	0.23388	2.3792	0.01735
MYO1A	2730.28	0.56	0.19485	2.8539	0.00432
CYCS	3487.38	0.55	0.11647	4.76451	1.89E-06
MANSC1	800.508	0.55	0.1735	3.19551	0.0014
MAP9	900.609	0.55	0.23027	2.40691	0.01609
NEU4	2920.67	0.55	0.14552	3.80837	0.00014
HJURP	2751.47	0.55	0.20491	2.70111	0.00691
MUTYH	252.705	0.55	0.21447	2.57621	0.00999
FAM178A	1126.05	0.55	0.15651	3.52835	0.00042
POLQ	616.442	0.55	0.2022	2.72833	0.00637
SLC39A5	2216.84	0.55	0.12914	4.27168	1.94E-05
MAP3K10	265.82	0.55	0.18835	2.92068	0.00349
GOT1	1227.9	0.55	0.15264	3.60309	0.00031
DNA2	362.501	0.55	0.20183	2.72477	0.00643
NDUFA7	595.92	0.55	0.14987	3.66893	0.00024
SMIM22	1393.27	0.55	0.11538	4.76229	1.91E-06
LYSMD1	511.604	0.55	0.15475	3.55018	0.00038
CLSPN	687.484	0.55	0.19889	2.75724	0.00583
GRB14	441.01	0.55	0.16118	3.40106	0.00067

FEN1	1948.42	0.55	0.15006	3.65165	0.00026
KIAA1524	440.898	0.55	0.17415	3.13974	0.00169
POC1A	281.201	0.55	0.19104	2.86049	0.00423
EFHD2	4399.48	0.55	0.12796	4.27004	1.95E-05
GOLGA2P5	304.003	0.55	0.19654	2.77914	0.00545
CEP55	1832.75	0.55	0.13172	4.14297	3.43E-05
CENPA	316.261	0.55	0.15557	3.50607	0.00045
POR	4413.02	0.55	0.1879	2.9014	0.00371
EPHX2	416.474	0.54	0.1652	3.29801	0.00097
KIF12	1442.59	0.54	0.17022	3.20052	0.00137
ING3	280.589	0.54	0.19725	2.76138	0.00576
DDX10	939.573	0.54	0.12864	4.23063	2.33E-05
LOC100130238	524.81	0.54	0.1652	3.29406	0.00099
PRSS16	1056.17	0.54	0.11241	4.82774	1.38E-06
RAB3IP	1899.17	0.54	0.15643	3.46661	0.00053
RARG	334.376	0.54	0.18686	2.90075	0.00372
KIF11	1456.73	0.54	0.20342	2.6646	0.00771
DNAJC30	588.467	0.54	0.14367	3.77216	0.00016
HELLS	474.901	0.54	0.19644	2.75529	0.00586
NAPA	2793.62	0.54	0.12864	4.20688	2.59E-05
AP1S1	2733.26	0.54	0.1151	4.69392	2.68E-06
HDHD2	555.879	0.54	0.15121	3.56472	0.00036
NFIC	2062.08	0.54	0.19804	2.71953	0.00654
ASPM	1841.5	0.54	0.17387	3.09606	0.00196
GAL3ST1	2555.08	0.54	0.17528	3.06988	0.00214
LYAR	878.032	0.54	0.17354	3.09939	0.00194
STRADB	572.154	0.54	0.20359	2.63935	0.00831
DHFR	2388.48	0.54	0.13556	3.96352	7.39E-05
ACBD4	553.641	0.54	0.14765	3.63743	0.00028
SPTSSA	548.056	0.54	0.14405	3.72754	0.00019
TMEM70	642.517	0.54	0.15254	3.51588	0.00044
XBP1	3454.11	0.54	0.10032	5.34191	9.20E-08
PTTG1	803.454	0.54	0.16079	3.32862	0.00087
CALML4	3307.25	0.53	0.17736	3.0161	0.00256

PWWP2B	835.569	0.53	0.18776	2.8482	0.0044
LYRM5	215.957	0.53	0.21009	2.54434	0.01095
SMIM11	449.843	0.53	0.17228	3.10191	0.00192
MIEN1	855.735	0.53	0.12265	4.34259	1.41E-05
ANAPC13	1504.65	0.53	0.10472	5.08071	3.76E-07
F8	190.156	0.53	0.20324	2.61606	0.0089
PPARA	2175.28	0.53	0.10844	4.90263	9.46E-07
MRPL4	1382.49	0.53	0.14576	3.6475	0.00026
AGMAT	298.013	0.53	0.213	2.49504	0.01259
HPN	2527.11	0.53	0.16538	3.19875	0.00138
ARHGEF2	6997.8	0.53	0.1417	3.73192	0.00019
NDC80	222.603	0.53	0.20722	2.5509	0.01074
ACADM	379.395	0.53	0.16157	3.2699	0.00108
CAMK1D	1203.42	0.53	0.17417	3.03253	0.00243
LINC01184	346.981	0.53	0.15863	3.32404	0.00089
NCAPG	762.855	0.53	0.15753	3.33615	0.00085
TMEM125	758.553	0.53	0.18522	2.83493	0.00458
LRIG3	150.902	0.52	0.21862	2.39799	0.01649
FOXD2	128.119	0.52	0.21412	2.44748	0.01439
ZWILCH	491.962	0.52	0.17335	3.01926	0.00253
NBN	1378.02	0.52	0.1239	4.22236	2.42E-05
DUT	1695.45	0.52	0.12989	4.01964	5.83E-05
HAGLR	734.191	0.52	0.21197	2.46225	0.01381
C1orf122	410.18	0.52	0.18675	2.79257	0.00523
DHTKD1	1443.83	0.52	0.10937	4.76496	1.89E-06
TMEM106B	1743.41	0.52	0.13316	3.91035	9.22E-05
DSN1	717.845	0.52	0.13151	3.956	7.62E-05
PTP4A1	9250.39	0.52	0.13197	3.9413	8.10E-05
FNIP2	688.092	0.52	0.14635	3.55258	0.00038
TMPO	4148.01	0.52	0.13037	3.98766	6.67E-05
SLC18A2	671.23	0.52	0.12969	4.0056	6.19E-05
EEF1A2	4804.52	0.52	0.20957	2.47394	0.01336
SLC43A3	739.047	0.52	0.12554	4.12621	3.69E-05
CBR4	582.103	0.52	0.16037	3.22235	0.00127

FDX1	805.678	0.52	0.16815	3.07216	0.00213
C11orf54	963.218	0.52	0.16438	3.14221	0.00168
RAD51AP1	399.53	0.52	0.17258	2.99031	0.00279
TMEM38B	248.4	0.52	0.17833	2.89253	0.00382
HINT2	813.909	0.52	0.17519	2.94435	0.00324
SFMBT2	327.066	0.52	0.18418	2.79957	0.00512
CEP290	940.786	0.52	0.18381	2.80256	0.00507
CAT	1241.83	0.51	0.17946	2.86622	0.00415
PANK1	167.945	0.51	0.20563	2.48932	0.0128
OCIAD1	2457.99	0.51	0.1557	3.28559	0.00102
MPHOSPH9	531.663	0.51	0.16988	3.00664	0.00264
ACTR6	304.323	0.51	0.20899	2.44318	0.01456
MYO3A	131.869	0.51	0.21311	2.39504	0.01662
ETFB	6386.57	0.51	0.1908	2.67114	0.00756
CHAF1B	665.515	0.51	0.18438	2.76295	0.00573
TCF19	1082.95	0.51	0.1305	3.90344	9.48E-05
CKAP4	5312.36	0.51	0.12105	4.20716	2.59E-05
FAM104B	383.306	0.51	0.15526	3.27843	0.00104
GPR180	426.19	0.51	0.17387	2.92585	0.00344
COMMD8	231.123	0.51	0.18925	2.68743	0.0072
FAS	305.959	0.51	0.20551	2.47385	0.01337
TOR3A	806.238	0.51	0.11292	4.50029	6.79E-06
CENPU	845.295	0.51	0.16682	3.04563	0.00232
RNASEH2B	500.708	0.51	0.15008	3.382	0.00072
APOL1	1000.22	0.51	0.14378	3.52927	0.00042
ADAL	280.139	0.51	0.15983	3.17224	0.00151
SLC9A3R1	4821.85	0.51	0.10484	4.83027	1.36E-06
MAGOHB	516.042	0.51	0.13559	3.72948	0.00019
IMPA2	1826.23	0.51	0.12436	4.06293	4.85E-05
CDCA3	554.145	0.50	0.20643	2.44514	0.01448
SPAG16	584.421	0.50	0.16339	3.08761	0.00202
ATPIF1	1687.39	0.50	0.11956	4.21889	2.46E-05
CCDC88B	318.465	0.50	0.19382	2.60146	0.00928
CDH17	22736.5	0.50	0.18631	2.7061	0.00681

BAIAP2L2	2706.54	0.50	0.14168	3.55716	0.00037
C1GALT1C1	546.047	0.50	0.18411	2.73584	0.00622
IRF2BP1	1138.97	0.50	0.14431	3.48892	0.00048
S100P	18218.7	0.50	0.15129	3.32154	0.0009
MDM2	2182.12	0.50	0.14701	3.41757	0.00063
BLVRA	1215.14	0.50	0.12268	4.09341	4.25E-05
C2CD5	915.572	0.50	0.15299	3.28197	0.00103
TDP2	5772.18	0.50	0.11667	4.30246	1.69E-05
HEXDC	688.111	0.50	0.13296	3.7714	0.00016
KCNK1	453.57	0.50	0.17604	2.8418	0.00449
RFC4	850.832	0.50	0.17213	2.90492	0.00367
SLCO1B3	959.981	-0.50	0.14668	-3.4116	0.00065
STXBP1	863.714	-0.50	0.1905	-2.6272	0.00861
SPTAN1	14678.8	-0.50	0.11028	-4.5394	5.64E-06
TULP4	523.688	-0.50	0.13621	-3.6775	0.00024
FBXO32	214.268	-0.50	0.2085	-2.4077	0.01605
TRIM47	3469.33	-0.50	0.17093	-2.9423	0.00326
RTN4	8644.86	-0.50	0.14297	-3.5189	0.00043
ATL1	372.289	-0.50	0.18936	-2.6596	0.00782
ZNF417	223.168	-0.50	0.19914	-2.5296	0.01142
LAMB2	4058.89	-0.50	0.19737	-2.5577	0.01054
RBFOX2	1451.77	-0.51	0.13588	-3.7191	0.0002
KRT7	32710.5	-0.51	0.17206	-2.9372	0.00331
COBL	3043.35	-0.51	0.20917	-2.4185	0.01558
PEAK1	299.892	-0.51	0.18226	-2.7758	0.00551
FARP2	572.883	-0.51	0.21086	-2.3997	0.01641
ACOX3	359.569	-0.51	0.17478	-2.8991	0.00374
CELSR1	6477.97	-0.51	0.19393	-2.6138	0.00895
APP	15415.6	-0.51	0.15931	-3.1855	0.00144
TMEM63B	1098.37	-0.51	0.19949	-2.5447	0.01094
PLXNA1	3615.45	-0.51	0.18686	-2.7192	0.00654
NOCT	402.292	-0.51	0.17248	-2.9464	0.00322
TLCD2	2734.38	-0.51	0.16396	-3.1017	0.00192
ARHGEF17	1736.2	-0.51	0.15405	-3.3069	0.00094

SLC3A2	12918.8	-0.51	0.16009	-3.1881	0.00143
SGPL1	2403.66	-0.51	0.1577	-3.2376	0.00121
APH1B	189.372	-0.51	0.20435	-2.4986	0.01247
PPM1M	282.205	-0.51	0.21087	-2.422	0.01544
HES6	235.422	-0.51	0.17708	-2.8844	0.00392
TBC1D4	450.149	-0.51	0.20993	-2.4337	0.01494
ACAT2	563.732	-0.51	0.213	-2.4002	0.01639
CBL	1030.04	-0.51	0.16628	-3.0757	0.0021
WASF2	4837.77	-0.51	0.12821	-3.9918	6.56E-05
ACACA	2449.6	-0.51	0.16777	-3.0563	0.00224
CSRNP2	638.734	-0.51	0.16822	-3.0482	0.0023
MEF2D	3902.77	-0.51	0.12365	-4.1476	3.36E-05
HHLA2	1549.16	-0.51	0.1535	-3.3418	0.00083
CFLAR	11718	-0.51	0.19505	-2.6306	0.00852
TNIP1	12019.5	-0.51	0.11701	-4.3861	1.15E-05
TMOD3	8311.51	-0.51	0.14829	-3.4641	0.00053
CEP112	290.214	-0.51	0.1779	-2.8881	0.00388
IRF6	2725.57	-0.51	0.18063	-2.845	0.00444
CD109	1051.47	-0.52	0.12905	-4.001	6.31E-05
FEM1C	933.495	-0.52	0.15161	-3.4081	0.00065
PPP2R3A	227.185	-0.52	0.19515	-2.6479	0.0081
PTMS	8170.97	-0.52	0.16773	-3.0895	0.00201
IVNS1ABP	2380.46	-0.52	0.12936	-4.0072	6.14E-05
MYO1C	14092.3	-0.52	0.14325	-3.619	0.0003
NEK6	4413.3	-0.52	0.2052	-2.5281	0.01147
SACS	995.959	-0.52	0.16841	-3.0852	0.00203
TP53I3	2767.11	-0.52	0.19011	-2.7334	0.00627
PVR	4777.84	-0.52	0.21527	-2.4171	0.01565
SYNE1	1374.97	-0.52	0.15797	-3.2944	0.00099
PTPN12	2558.45	-0.52	0.11596	-4.5009	6.77E-06
MIR22HG	1500.82	-0.52	0.21163	-2.4664	0.01365
SHB	1893.57	-0.52	0.15013	-3.4769	0.00051
NRBP2	913.419	-0.52	0.19664	-2.6547	0.00794
CCSER2	902.642	-0.52	0.19687	-2.6523	0.00799

FDPS	4929.18	-0.52	0.13275	-3.9416	8.09E-05
SLC7A7	4562.62	-0.52	0.18629	-2.81	0.00495
DAG1	3510.54	-0.52	0.17314	-3.0317	0.00243
DCTN2	3023.25	-0.53	0.14461	-3.6383	0.00027
IQSEC1	907.785	-0.53	0.18501	-2.8443	0.00445
DENND5B	1123.59	-0.53	0.18683	-2.8259	0.00472
NKX2-5	133.665	-0.53	0.21658	-2.4404	0.01467
ZNF250	363.59	-0.53	0.2036	-2.5961	0.00943
C18orf25	463.356	-0.53	0.15032	-3.52	0.00043
TRIM3	201.246	-0.53	0.21682	-2.4407	0.01466
WFS1	693.451	-0.53	0.21068	-2.5156	0.01188
MPP1	438.427	-0.53	0.18685	-2.837	0.00455
TRIM65	1362.55	-0.53	0.13927	-3.8081	0.00014
IBA57	803.489	-0.53	0.21517	-2.4668	0.01363
KLF6	8205.21	-0.53	0.19365	-2.741	0.00613
RLF	381.089	-0.53	0.18217	-2.9143	0.00356
LINC00641	361.874	-0.53	0.21464	-2.477	0.01325
MSMO1	2506.92	-0.53	0.20472	-2.6006	0.00931
PTPN21	1761.28	-0.53	0.16588	-3.2115	0.00132
PDLIM2	2120.73	-0.53	0.16589	-3.2126	0.00132
NOD1	529.626	-0.53	0.15596	-3.4217	0.00062
SNX29	388.391	-0.53	0.17499	-3.0542	0.00226
RSU1	1351.66	-0.54	0.16434	-3.2573	0.00112
CSNK2A2	465.665	-0.54	0.21948	-2.4395	0.01471
ZNF776	549.337	-0.54	0.13715	-3.9099	9.24E-05
PABPC1	18781.6	-0.54	0.12125	-4.4256	9.62E-06
IL11RA	137.768	-0.54	0.21279	-2.5219	0.01167
GAREML	390.155	-0.54	0.19268	-2.789	0.00529
IQGAP1	7197.41	-0.54	0.1383	-3.8862	0.0001
FDFT1	4247.55	-0.54	0.16264	-3.3069	0.00094
BCAM	3953.06	-0.54	0.16654	-3.2535	0.00114
RNF39	135.045	-0.54	0.21922	-2.4733	0.01339
FLII	11360.9	-0.54	0.17171	-3.1578	0.00159
MYOM3	4358.13	-0.54	0.11096	-4.8907	1.00E-06

CLN8	1680.98	-0.54	0.11602	-4.6789	2.88E-06
FLCN	1277.55	-0.54	0.14039	-3.8671	0.00011
GALNT10	3146.84	-0.54	0.2048	-2.6536	0.00796
AMFR	3695.75	-0.54	0.15744	-3.4526	0.00056
TPM4	18331	-0.54	0.13	-4.1823	2.89E-05
CRHR1-IT1	149.405	-0.54	0.21774	-2.5016	0.01236
GADD45A	493.813	-0.55	0.14956	-3.649	0.00026
SCARNA17	279.444	-0.55	0.22451	-2.4349	0.01489
MEX3D	1889.45	-0.55	0.17411	-3.1505	0.00163
EEF2	33868.8	-0.55	0.16724	-3.2873	0.00101
ACVR1	1535.19	-0.55	0.13253	-4.1741	2.99E-05
DIAPH1	9460.07	-0.55	0.15183	-3.6499	0.00026
MYO15B	6893.46	-0.56	0.19284	-2.884	0.00393
PLEKHG3	3850.49	-0.56	0.18322	-3.0401	0.00237
SYT17	1880.08	-0.56	0.16095	-3.4615	0.00054
STK10	633.339	-0.56	0.15076	-3.7156	0.0002
ATP7B	273.179	-0.56	0.20085	-2.7922	0.00524
RRAS	1921.78	-0.56	0.20879	-2.6894	0.00716
CARD10	2887.2	-0.56	0.17195	-3.2677	0.00108
FOS	1543.23	-0.56	0.2246	-2.5036	0.0123
DLG5	2367.19	-0.56	0.22563	-2.4967	0.01253
KCNN4	2635.65	-0.56	0.19931	-2.8273	0.00469
LRRFIP1	9349.7	-0.56	0.11332	-4.9846	6.21E-07
CYFIP1	4795.56	-0.57	0.19238	-2.9429	0.00325
MUC1	9090.51	-0.57	0.21976	-2.5772	0.00996
AIM1L	1372.17	-0.57	0.21112	-2.6901	0.00714
SNX33	1937.27	-0.57	0.22868	-2.4842	0.01299
ENO1	28522	-0.57	0.18996	-3.0017	0.00269
FGFR4	2186.3	-0.57	0.19245	-2.9637	0.00304
NMT2	541.556	-0.57	0.20939	-2.7242	0.00645
CASK	554.583	-0.57	0.15686	-3.64	0.00027
NIN	815.915	-0.57	0.18685	-3.0589	0.00222
LMNA	22716.5	-0.57	0.15565	-3.6755	0.00024
ACSL3	3196.9	-0.57	0.13537	-4.2267	2.37E-05

FKBP9	2900.25	-0.57	0.13233	-4.3262	1.52E-05
GNS	3095.9	-0.57	0.12497	-4.5848	4.54E-06
KRT18	81821.8	-0.57	0.14647	-3.916	9.00E-05
DISP2	262.339	-0.57	0.23613	-2.4321	0.01501
RARA	1217.68	-0.57	0.19309	-2.9775	0.00291
UBC	23134.8	-0.58	0.19562	-2.9422	0.00326
NCS1	569.764	-0.58	0.19113	-3.0118	0.0026
TRAF6	907.028	-0.58	0.15185	-3.7923	0.00015
SLC16A3	8231.25	-0.58	0.20853	-2.7653	0.00569
ACTB	171953	-0.58	0.14685	-3.9375	8.23E-05
CCDC50	3523.33	-0.58	0.16293	-3.5491	0.00039
FHL2	3873.94	-0.58	0.13932	-4.1559	3.24E-05
CDC42EP3	770.096	-0.58	0.16823	-3.4425	0.00058
ACSL1	129.377	-0.58	0.23457	-2.4695	0.01353
RND1	1407.71	-0.58	0.19914	-2.9093	0.00362
DOCK7	449.451	-0.58	0.16131	-3.5977	0.00032
FAM129B	13665	-0.58	0.13118	-4.4342	9.24E-06
NARF	1641.71	-0.58	0.17165	-3.3893	0.0007
CDC42SE1	3856.4	-0.58	0.12833	-4.5358	5.74E-06
SQLE	1989.09	-0.58	0.18248	-3.1915	0.00142
SNX25	280.615	-0.58	0.19167	-3.0405	0.00236
FBXL2	269.767	-0.58	0.2294	-2.5431	0.01099
BCL7A	603.711	-0.58	0.24161	-2.4196	0.01554
DIP2B	1671.65	-0.59	0.14718	-3.9799	6.89E-05
MVK	774.558	-0.59	0.17629	-3.3281	0.00087
H6PD	1963.05	-0.59	0.16651	-3.5334	0.00041
ACTN4	27585	-0.59	0.1124	-5.2362	1.64E-07
GPC1	1510.13	-0.59	0.15412	-3.8264	0.00013
PCDHGA1	138.737	-0.59	0.21843	-2.7004	0.00692
SCRN1	3764.45	-0.59	0.18778	-3.1412	0.00168
CNN2	12116.4	-0.59	0.1236	-4.7767	1.78E-06
SRF	1226.02	-0.59	0.12974	-4.5556	5.22E-06
ANKRD44	162.36	-0.59	0.21276	-2.7842	0.00537
INPP4B	453.583	-0.59	0.14549	-4.0751	4.60E-05

ARHGAP21	4280.78	-0.59	0.17173	-3.4636	0.00053
LEPROT	2279.17	-0.60	0.15917	-3.7384	0.00019
CMTM4	2295.06	-0.60	0.17174	-3.4702	0.00052
DGKA	2206.92	-0.60	0.22409	-2.6671	0.00765
ITGA3	14595.9	-0.60	0.18866	-3.1711	0.00152
WDR1	12204.8	-0.60	0.14254	-4.1992	2.68E-05
GRAMD1A	3122.02	-0.60	0.1181	-5.0751	3.87E-07
MAPK7	979.717	-0.60	0.15856	-3.7851	0.00015
IGSF3	1854.2	-0.60	0.22849	-2.6267	0.00862
KIFC2	1187.78	-0.60	0.21924	-2.7379	0.00618
KDM4B	595.353	-0.60	0.1724	-3.4904	0.00048
SPAG9	2691.11	-0.60	0.11877	-5.0683	4.01E-07
PIEZO1	25726.2	-0.60	0.21188	-2.8444	0.00445
PLCG1	1469.74	-0.60	0.16666	-3.6175	0.0003
PCNXL4	1455.9	-0.60	0.17595	-3.4282	0.00061
C1QTNF6	1251.57	-0.60	0.13085	-4.6113	4.00E-06
FERMT1	442.865	-0.60	0.19119	-3.1571	0.00159
DUSP1	5842.72	-0.60	0.20209	-2.9883	0.00281
ZNF134	349.114	-0.60	0.20459	-2.9527	0.00315
ITGB1	19208.5	-0.61	0.22325	-2.7103	0.00672
TPT1-AS1	227.512	-0.61	0.22925	-2.6403	0.00828
JAK1	1911.41	-0.61	0.13713	-4.419	9.91E-06
P2RY2	496.208	-0.61	0.23781	-2.5493	0.0108
AGPAT4	261.716	-0.61	0.19044	-3.1872	0.00144
VIL1	12011.2	-0.61	0.22999	-2.6402	0.00829
OPTN	6024.11	-0.61	0.1691	-3.5913	0.00033
JUP	30848.9	-0.61	0.15209	-3.9933	6.52E-05
SUN1	3272.6	-0.61	0.14301	-4.2496	2.14E-05
DHX32	1055.87	-0.61	0.20266	-3.0049	0.00266
C20orf194	193.954	-0.61	0.18641	-3.2682	0.00108
PLEKHO2	184.195	-0.61	0.21099	-2.8893	0.00386
DDAH2	1573.19	-0.61	0.15225	-4.0079	6.13E-05
TSPAN9	702.547	-0.61	0.13773	-4.4373	9.11E-06
IL18	1253.24	-0.61	0.16625	-3.6823	0.00023

RNF215	173.422	-0.61	0.18926	-3.2376	0.00121
TES	6593.98	-0.62	0.12373	-4.9733	6.58E-07
B3GNT5	888.875	-0.62	0.17707	-3.4789	0.0005
NEBL	3148.88	-0.62	0.25128	-2.4543	0.01411
BCAS4	121.411	-0.62	0.2367	-2.6056	0.00917
RPS6KA4	2269.97	-0.62	0.17537	-3.5217	0.00043
ALDOA	38066.1	-0.62	0.14452	-4.2865	1.82E-05
BTBD10	664.351	-0.62	0.18339	-3.3901	0.0007
PDXK	13026.3	-0.62	0.1768	-3.518	0.00043
FNBP1L	2021.04	-0.62	0.23212	-2.6807	0.00735
ANXA1	10542.9	-0.62	0.19492	-3.1931	0.00141
PAX8	460.757	-0.62	0.24671	-2.5237	0.01161
WWC1	4742.57	-0.62	0.16846	-3.6961	0.00022
TRIM29	14648.6	-0.62	0.20772	-3.0059	0.00265
PTPRK	1114.94	-0.62	0.16259	-3.8416	0.00012
GAPDH	94549.6	-0.62	0.17591	-3.5526	0.00038
PRICKLE4	258.988	-0.63	0.19951	-3.1388	0.0017
SLC7A6	1298.85	-0.63	0.11958	-5.2447	1.57E-07
C11orf95	322.921	-0.63	0.26021	-2.4197	0.01553
NOTCH2	1170.31	-0.63	0.15941	-3.9533	7.71E-05
CHDH	732.638	-0.63	0.20303	-3.1085	0.00188
EZR	20721.7	-0.63	0.16169	-3.9076	9.32E-05
SNAPC2	256.971	-0.63	0.18968	-3.331	0.00087
SLC35F2	1952.63	-0.63	0.16564	-3.8148	0.00014
HERPUD2	1255.85	-0.64	0.15339	-4.141	3.46E-05
PAWR	1061.62	-0.64	0.19961	-3.1831	0.00146
IDS	2851.59	-0.64	0.13589	-4.6772	2.91E-06
SHANK2	738.622	-0.64	0.19956	-3.1855	0.00144
RAB11FIP4	1683.72	-0.64	0.13023	-4.8825	1.05E-06
CD276	3394.53	-0.64	0.15254	-4.173	3.01E-05
ARHGEF10	3411.81	-0.64	0.17285	-3.6827	0.00023
PRKCA	1692.42	-0.64	0.11966	-5.3334	9.64E-08
FAM89B	829.04	-0.64	0.16547	-3.8654	0.00011
LMCD1	244.241	-0.64	0.22258	-2.8761	0.00403

IL32	8106.17	-0.64	0.20293	-3.1669	0.00154
ZNF185	1339.32	-0.64	0.19172	-3.3559	0.00079
CTNNA1	17833.1	-0.64	0.14841	-4.3448	1.39E-05
BMP8B	169.654	-0.65	0.23705	-2.7235	0.00646
ZNF512B	1524.41	-0.65	0.1339	-4.8253	1.40E-06
PCSK4	234.968	-0.65	0.18703	-3.4585	0.00054
IL22RA1	1953.75	-0.65	0.15656	-4.1331	3.58E-05
PLBD2	1150.85	-0.65	0.12947	-5.0033	5.63E-07
DAB2	630.668	-0.65	0.26411	-2.4541	0.01413
DOCK9	866.571	-0.65	0.19303	-3.3633	0.00077
SWAP70	860.281	-0.65	0.17219	-3.7743	0.00016
APLP2	12723.6	-0.65	0.21209	-3.0648	0.00218
MAMLD1	462.456	-0.65	0.14627	-4.4487	8.64E-06
PLXNA3	1560.32	-0.65	0.16131	-4.0427	5.28E-05
KATNAL1	584.807	-0.65	0.16223	-4.023	5.74E-05
SKIL	3009.73	-0.65	0.20573	-3.1748	0.0015
MGLL	11494.3	-0.65	0.17084	-3.8293	0.00013
CCND1	21066.7	-0.65	0.22181	-2.951	0.00317
RHBDF2	885.234	-0.66	0.27452	-2.3868	0.01699
PCYOX1	2170.45	-0.66	0.1914	-3.4244	0.00062
SUN2	1889.43	-0.66	0.12903	-5.0824	3.73E-07
CDSN	563.46	-0.66	0.21445	-3.0609	0.00221
IGF1R	12450.1	-0.66	0.23136	-2.858	0.00426
LTBP4	4105.82	-0.66	0.14623	-4.5373	5.70E-06
TMEM159	495.149	-0.66	0.20421	-3.2507	0.00115
HTRA1	352.069	-0.66	0.26699	-2.4888	0.01282
TLE1	843.796	-0.67	0.19243	-3.4659	0.00053
CTTNBP2NL	884.25	-0.67	0.18235	-3.66	0.00025
CEP170	727.356	-0.67	0.20385	-3.2805	0.00104
ETHE1	1259.08	-0.67	0.16828	-3.9816	6.85E-05
CYTH1	2736.7	-0.67	0.15591	-4.2989	1.72E-05
TSHZ1	609.58	-0.67	0.1393	-4.8125	1.49E-06
DUSP14	647.73	-0.67	0.18654	-3.5959	0.00032
LINC01322	154.161	-0.67	0.27112	-2.4742	0.01336

KREMEN1	409.935	-0.67	0.19297	-3.4819	0.0005
C14orf132	147.04	-0.67	0.23625	-2.8519	0.00435
MED15	3042.41	-0.67	0.13452	-5.013	5.36E-07
AGRN	12240.6	-0.67	0.15918	-4.2394	2.24E-05
DYNC1H1	17557.8	-0.67	0.19415	-3.4759	0.00051
MICA	835.431	-0.68	0.14315	-4.7232	2.32E-06
RIOK3	1703.1	-0.68	0.10863	-6.2255	4.80E-10
GAS5	3415.18	-0.68	0.1937	-3.4973	0.00047
PLCE1	119.789	-0.68	0.23694	-2.8592	0.00425
HMGCR	1833.55	-0.68	0.16178	-4.1957	2.72E-05
KIF1C	5159.54	-0.68	0.13553	-5.0104	5.43E-07
COTL1	886.242	-0.68	0.19464	-3.4913	0.00048
PACS1	4335.63	-0.68	0.16712	-4.074	4.62E-05
STEAP3	2074.25	-0.68	0.18749	-3.6317	0.00028
ACAA2	2580.16	-0.68	0.22091	-3.0855	0.00203
RAB30	245.8	-0.68	0.20891	-3.2716	0.00107
CTNNBIP1	355.321	-0.68	0.15763	-4.3399	1.43E-05
DSG2	6068.58	-0.68	0.13796	-4.9595	7.07E-07
GADD45B	898.539	-0.68	0.26395	-2.5946	0.00947
DUSP6	519.694	-0.68	0.26029	-2.6313	0.00851
MIR614	305.14	-0.68	0.21658	-3.1625	0.00156
MKL1	1782.27	-0.69	0.17674	-3.8775	0.00011
RND3	1716.15	-0.69	0.17599	-3.8946	9.84E-05
FLJ20021	127.532	-0.69	0.27043	-2.5352	0.01124
ZFHX3	3988.24	-0.69	0.14366	-4.774	1.81E-06
FXYD5	2771.22	-0.69	0.19627	-3.4947	0.00047
TNFRSF12A	4343.48	-0.69	0.21572	-3.1839	0.00145
PINK1	351.142	-0.69	0.19553	-3.5142	0.00044
PAM	1611.96	-0.69	0.22177	-3.0992	0.00194
GPI	12807.7	-0.69	0.19057	-3.6072	0.00031
CAPRIN2	556.265	-0.69	0.15728	-4.371	1.24E-05
ZNF71	356.401	-0.69	0.23363	-2.944	0.00324
PHYHIP	392.786	-0.69	0.18174	-3.791	0.00015
LIMK2	946.287	-0.69	0.21645	-3.1856	0.00144

ILK	3153.85	-0.69	0.169	-4.0832	4.44E-05
SLC12A4	2156.7	-0.69	0.16656	-4.1436	3.42E-05
PARVA	2064.76	-0.69	0.14138	-4.8881	1.02E-06
PTPRE	324.829	-0.69	0.15111	-4.5839	4.56E-06
LRRC3	137.486	-0.69	0.2606	-2.6583	0.00785
ABHD11-AS1	556.892	-0.69	0.23063	-3.0064	0.00264
AHDC1	850.951	-0.69	0.23595	-2.94	0.00328
TAGLN2	32345.7	-0.69	0.16667	-4.1627	3.14E-05
IL13RA1	3823.54	-0.69	0.20318	-3.417	0.00063
CATSPER1	166.429	-0.69	0.28179	-2.4649	0.01371
RTN4R	245.796	-0.69	0.25282	-2.7474	0.00601
YPEL1	207.983	-0.69	0.23022	-3.0181	0.00254
ATP8B2	131.263	-0.69	0.26396	-2.6327	0.00847
CLSTN1	3635.52	-0.70	0.14125	-4.9229	8.53E-07
HABP4	213.156	-0.70	0.24557	-2.8386	0.00453
APBA2	195.167	-0.70	0.24679	-2.8248	0.00473
MAP4	5168.95	-0.70	0.15156	-4.6002	4.22E-06
AK4	518.894	-0.70	0.17858	-3.913	9.12E-05
RGS10	250.282	-0.70	0.27198	-2.5721	0.01011
YPEL2	480.05	-0.70	0.23642	-2.959	0.00309
NCOR2	15726.9	-0.70	0.20983	-3.3342	0.00086
AMOT	165.884	-0.70	0.25532	-2.7403	0.00614
COL18A1	4135.71	-0.70	0.20809	-3.3641	0.00077
NFATC2	604.506	-0.70	0.2201	-3.1815	0.00147
SPECC1	1366.63	-0.70	0.1462	-4.7942	1.63E-06
DSP	24409	-0.70	0.16223	-4.3225	1.54E-05
RUNX1	2230.15	-0.70	0.10992	-6.3879	1.68E-10
SMAD7	854.325	-0.71	0.21202	-3.3264	0.00088
AFAP1	1541.69	-0.71	0.21659	-3.2577	0.00112
SOX9	1996.94	-0.71	0.16346	-4.3167	1.58E-05
PACSIN3	1547.88	-0.71	0.23433	-3.0144	0.00257
UNC13D	7607.79	-0.71	0.23028	-3.0729	0.00212
B3GLCT	373.464	-0.71	0.19585	-3.6193	0.0003
KLHL25	299.219	-0.71	0.19941	-3.5597	0.00037

PLEKHA8P1	126.14	-0.71	0.23764	-2.9963	0.00273
TNFAIP3	296.955	-0.71	0.2351	-3.0341	0.00241
MARK4	727.154	-0.71	0.18611	-3.8378	0.00012
CORO1C	5865.68	-0.72	0.16002	-4.4757	7.62E-06
ZNF778	163.106	-0.72	0.24352	-2.9466	0.00321
LDHA	31642.6	-0.72	0.12677	-5.6698	1.43E-08
KDM7A	456.572	-0.72	0.156	-4.6133	3.96E-06
PTPN14	2841.95	-0.72	0.19291	-3.7403	0.00018
SFXN3	5134.19	-0.72	0.20552	-3.5136	0.00044
STARD13	304.656	-0.72	0.22797	-3.1703	0.00152
FASN	12904.6	-0.72	0.17422	-4.1502	3.32E-05
FAM46B	238.631	-0.72	0.2066	-3.5006	0.00046
KLF12	238.946	-0.72	0.24248	-2.9838	0.00285
LIMS1	1134.82	-0.73	0.17557	-4.1379	3.51E-05
PCDHGB2	323.627	-0.73	0.24344	-2.9847	0.00284
ZNF496	596.9	-0.73	0.19113	-3.8104	0.00014
LSS	3181.78	-0.73	0.15385	-4.7351	2.19E-06
EVA1B	289.548	-0.73	0.21517	-3.3901	0.0007
TRIP10	2094.67	-0.73	0.16848	-4.3447	1.39E-05
LIMCH1	3633.58	-0.73	0.24424	-3.0011	0.00269
KDM6B	2148.65	-0.73	0.18099	-4.051	5.10E-05
AMOTL2	8287.23	-0.73	0.22136	-3.313	0.00092
PSORS1C3	87.5117	-0.74	0.30406	-2.4213	0.01546
PKM	40993.7	-0.74	0.15323	-4.8304	1.36E-06
CRIP2	808.104	-0.74	0.30358	-2.4416	0.01462
CD40	223.272	-0.74	0.23031	-3.2219	0.00127
FKBP1B	128.521	-0.74	0.24812	-2.9916	0.00278
PXDC1	1364.69	-0.74	0.18503	-4.0142	5.96E-05
SLC9A2	584.904	-0.74	0.21233	-3.5034	0.00046
TUBB2A	488.064	-0.74	0.2148	-3.468	0.00052
ID1	1272.91	-0.74	0.14115	-5.2775	1.31E-07
GDPD5	280.386	-0.75	0.17757	-4.1998	2.67E-05
FAM109A	1961.82	-0.75	0.25604	-2.9169	0.00353
SAT1	3456.98	-0.75	0.18652	-4.0091	6.09E-05

KANK2	771.809	-0.75	0.20637	-3.6311	0.00028
PVRL3	471.099	-0.75	0.2407	-3.1152	0.00184
LATS2	3088.39	-0.75	0.19319	-3.8842	0.0001
LAT2	224.851	-0.75	0.29121	-2.5768	0.00997
ODC1	4615.83	-0.75	0.16551	-4.5363	5.72E-06
PRICKLE1	132.98	-0.75	0.30141	-2.4945	0.01261
TRIM46	68.0988	-0.75	0.28813	-2.6135	0.00896
SGTB	267.205	-0.75	0.26725	-2.8182	0.00483
RHBDF1	1344.91	-0.75	0.17662	-4.2646	2.00E-05
HRH1	415.139	-0.75	0.20049	-3.7615	0.00017
PLOD1	1180.11	-0.76	0.19166	-3.9405	8.13E-05
NBPF18P	160.005	-0.76	0.22298	-3.3959	0.00068
RHOD	4653.24	-0.76	0.2046	-3.7041	0.00021
PMP22	310.416	-0.76	0.25476	-2.9799	0.00288
ACAP1	168.386	-0.76	0.19731	-3.8523	0.00012
DHCR7	3183.37	-0.76	0.17787	-4.2819	1.85E-05
MYO5A	164.817	-0.76	0.25173	-3.033	0.00242
SYT15	265.912	-0.76	0.26355	-2.8972	0.00376
GDF11	79.6706	-0.76	0.25937	-2.9479	0.0032
LINC00842	1339.08	-0.77	0.21194	-3.6101	0.00031
PGK1	10392.4	-0.77	0.17476	-4.3842	1.16E-05
TM4SF1	13769.4	-0.77	0.13851	-5.5376	3.07E-08
GLDN	55.2298	-0.77	0.30595	-2.5081	0.01214
CLCN4	768.589	-0.77	0.27384	-2.8036	0.00505
DUSP10	115.563	-0.77	0.22627	-3.3988	0.00068
FGD6	2132.73	-0.77	0.17561	-4.3823	1.17E-05
ECE1	6122.68	-0.77	0.20043	-3.8429	0.00012
ANKLE2	4892.33	-0.77	0.12993	-5.9321	2.99E-09
KRT80	6937.79	-0.77	0.24689	-3.1236	0.00179
RP1	70.1929	-0.77	0.29853	-2.5836	0.00978
IRS1	1025.26	-0.77	0.21037	-3.6787	0.00023
NMNAT2	329.722	-0.78	0.2547	-3.0449	0.00233
PLEC	56915	-0.78	0.12281	-6.3226	2.57E-10
SOCS3	289.045	-0.78	0.23834	-3.2699	0.00108

ITPR3	13173	-0.78	0.18683	-4.1735	3.00E-05
DBN1	5860.52	-0.78	0.14117	-5.5277	3.25E-08
DLX4	70.627	-0.78	0.304	-2.5679	0.01023
OSBPL10	824.13	-0.78	0.21606	-3.6242	0.00029
CACNB3	827.891	-0.78	0.21922	-3.5724	0.00035
FAXDC2	7848	-0.78	0.18179	-4.3103	1.63E-05
BTBD19	166.722	-0.78	0.23944	-3.275	0.00106
AHNAK	45380	-0.78	0.09129	-8.592	8.55E-18
MB21D2	392.757	-0.79	0.28731	-2.733	0.00628
CDCP1	1906.67	-0.79	0.17406	-4.5121	6.42E-06
C16orf74	427.819	-0.79	0.20825	-3.7739	0.00016
CLTB	7135.97	-0.79	0.24816	-3.1691	0.00153
KLHL5	1133.16	-0.79	0.18336	-4.2906	1.78E-05
DGCR11	73.8917	-0.79	0.2874	-2.7391	0.00616
LOC100132077	179.916	-0.79	0.2165	-3.6405	0.00027
LDLR	2583.63	-0.79	0.17224	-4.5809	4.63E-06
PGBD1	169.815	-0.79	0.22614	-3.4954	0.00047
NAB2	485.419	-0.79	0.28161	-2.8076	0.00499
DYSF	987.735	-0.79	0.32819	-2.4128	0.01583
MSC-AS1	40.1061	-0.79	0.321	-2.4672	0.01362
PSORS1C1	329.782	-0.79	0.23693	-3.3433	0.00083
MYADM	13154.9	-0.79	0.15236	-5.2092	1.90E-07
LIX1L	383.878	-0.79	0.25567	-3.1054	0.0019
CBLB	423.482	-0.79	0.16832	-4.7208	2.35E-06
HIVEP1	814.26	-0.80	0.17157	-4.6364	3.55E-06
TSNARE1	403.344	-0.80	0.16107	-4.9405	7.79E-07
RAB11FIP5	1346.77	-0.80	0.19762	-4.03	5.58E-05
HIVEP2	531.299	-0.80	0.1737	-4.5988	4.25E-06
SOWAHC	337.119	-0.80	0.26804	-2.9806	0.00288
TSC22D2	646.797	-0.80	0.13883	-5.7603	8.40E-09
ZDHHC3	1388.62	-0.80	0.14398	-5.5569	2.75E-08
ATXN1	1277.83	-0.80	0.17804	-4.506	6.61E-06
DMBX1	50.7646	-0.80	0.31699	-2.5312	0.01137
ATF3	851.424	-0.80	0.23553	-3.41	0.00065

FADS3	358.755	-0.80	0.18496	-4.3486	1.37E-05
SCEL	4039.98	-0.81	0.17276	-4.6788	2.89E-06
DCDC5	198.006	-0.81	0.24372	-3.3175	0.00091
ADRA2C	157.675	-0.81	0.33532	-2.4141	0.01577
KLHL26	184.356	-0.81	0.27504	-2.9522	0.00316
TMOD2	118.339	-0.81	0.28369	-2.8622	0.00421
SHROOM2	294.185	-0.81	0.31586	-2.5709	0.01014
PFKFB3	1682.52	-0.81	0.13331	-6.0995	1.06E-09
SYNE3	49.9334	-0.81	0.31404	-2.5898	0.0096
VAT1	9848.92	-0.81	0.17788	-4.5784	4.68E-06
ULBP2	39.1023	-0.82	0.34323	-2.3793	0.01734
GSN-AS1	64.1094	-0.82	0.29323	-2.7861	0.00533
TINAGL1	1487.05	-0.82	0.12746	-6.4133	1.42E-10
PMAIP1	224.8	-0.82	0.22237	-3.6768	0.00024
MMP14	116.018	-0.82	0.34115	-2.3982	0.01648
MTHFD1L	963.188	-0.82	0.15442	-5.3017	1.15E-07
MVD	2092.17	-0.82	0.15551	-5.2658	1.40E-07
R3HDML	50.3254	-0.82	0.33746	-2.429	0.01514
FARP1	1799.83	-0.82	0.19405	-4.231	2.33E-05
ESYT2	4962.13	-0.82	0.13419	-6.1202	9.35E-10
LOC654342	274.338	-0.82	0.22671	-3.6247	0.00029
TMEM150C	92.11	-0.82	0.2697	-3.0521	0.00227
PTGES	2474.36	-0.82	0.29612	-2.78	0.00544
PROS1	1712.68	-0.82	0.13004	-6.3309	2.44E-10
MXI1	503.227	-0.83	0.23873	-3.4602	0.00054
C19orf71	242.743	-0.83	0.28853	-2.8652	0.00417
EPB41L2	856.713	-0.83	0.18726	-4.4174	9.99E-06
TMEM43	1464.79	-0.83	0.20214	-4.1151	3.87E-05
HIF1A	1246.39	-0.83	0.16629	-5.0136	5.34E-07
VAV1	87.0692	-0.83	0.25843	-3.2284	0.00124
BMPR2	3046.14	-0.83	0.22192	-3.7622	0.00017
NUMBL	1405.64	-0.83	0.11321	-7.3748	1.65E-13
GAA	1969.8	-0.84	0.14753	-5.662	1.50E-08
FLNB	25651.6	-0.84	0.14758	-5.6644	1.48E-08

PCDHGA9	69.2226	-0.84	0.28692	-2.9163	0.00354
SDC3	1646.88	-0.84	0.25838	-3.2429	0.00118
HDAC7	2128.58	-0.84	0.18326	-4.5737	4.79E-06
CTPS1	940.865	-0.84	0.18593	-4.5103	6.47E-06
CNTNAP2	469.255	-0.84	0.2383	-3.5229	0.00043
CSPG4	93.0877	-0.84	0.27481	-3.0555	0.00225
GJB4	418.914	-0.84	0.28583	-2.9407	0.00328
IGFBP6	176.116	-0.84	0.32943	-2.5549	0.01062
ONECUT2	429.428	-0.84	0.21504	-3.9188	8.90E-05
ITGBL1	1206.51	-0.84	0.28733	-2.933	0.00336
MARCH2	355.76	-0.84	0.16817	-5.023	5.09E-07
BICD2	1108.43	-0.85	0.25469	-3.3183	0.00091
RASSF2	161.628	-0.85	0.25208	-3.3599	0.00078
LOC284581	281.824	-0.85	0.32046	-2.6486	0.00808
TBC1D16	996.315	-0.85	0.23839	-3.5657	0.00036
TMC7	452.333	-0.85	0.24608	-3.4601	0.00054
BAIAP3	226.859	-0.85	0.33791	-2.522	0.01167
MYO15A	43.7129	-0.85	0.3303	-2.5847	0.00975
DLGAP4	2811.44	-0.86	0.1693	-5.0577	4.24E-07
RGS20	127.993	-0.86	0.35156	-2.4408	0.01465
PCDHGC5	34.4959	-0.86	0.33634	-2.5529	0.01068
TIMP4	31.6579	-0.86	0.34369	-2.5053	0.01223
ACSS2	1134.09	-0.86	0.15392	-5.5974	2.18E-08
BCAR3	1094.18	-0.86	0.24397	-3.5377	0.0004
QSOX1	2299.76	-0.87	0.14168	-6.1098	9.97E-10
IL1RAP	120.434	-0.87	0.26598	-3.2552	0.00113
ANXA3	5683.52	-0.87	0.18409	-4.7048	2.54E-06
WWC3	1874.79	-0.87	0.2361	-3.6743	0.00024
HMOX1	290.442	-0.87	0.30818	-2.8262	0.00471
FBN2	24.7555	-0.87	0.36229	-2.4057	0.01614
FOLR1	241.735	-0.87	0.26115	-3.342	0.00083
CCDC102A	239.79	-0.87	0.27299	-3.2013	0.00137
NCF2	1371.73	-0.88	0.20569	-4.2669	1.98E-05
CPSF1	4223.3	-0.88	0.19976	-4.3966	1.10E-05

TARSL2	436.536	-0.88	0.20947	-4.1954	2.72E-05
USP2	24.1085	-0.88	0.36061	-2.438	0.01477
GLI2	1380.47	-0.88	0.27721	-3.1797	0.00147
LRP1	2896.26	-0.88	0.12536	-7.0435	1.87E-12
PDK1	787.795	-0.88	0.1696	-5.2065	1.92E-07
ACTG1	210126	-0.88	0.1638	-5.3911	7.00E-08
CD151	19905.7	-0.88	0.18457	-4.7893	1.67E-06
IGFBP4	19882	-0.89	0.19768	-4.487	7.22E-06
PCED1B	3213.45	-0.89	0.23047	-3.8584	0.00011
GPR155	274.864	-0.89	0.28427	-3.1297	0.00175
NRXN3	143.228	-0.89	0.35528	-2.5111	0.01203
ITPRIP	98.9498	-0.90	0.30951	-2.8962	0.00378
TIMP2	12124.5	-0.90	0.28186	-3.1825	0.00146
P4HA1	1694.84	-0.90	0.2461	-3.6506	0.00026
SLC38A2	3330.39	-0.90	0.17867	-5.0287	4.94E-07
SLC6A20	80.577	-0.90	0.36145	-2.486	0.01292
MEX3B	263.988	-0.90	0.24052	-3.7419	0.00018
S100A2	294.172	-0.90	0.23522	-3.8334	0.00013
MLC1	80.5567	-0.90	0.35794	-2.5206	0.01172
INSIG1	958.76	-0.90	0.17833	-5.0595	4.20E-07
MACF1	3192.7	-0.90	0.1771	-5.0978	3.44E-07
SEMA6C	146.583	-0.90	0.23325	-3.872	0.00011
ENAH	1626.82	-0.90	0.16629	-5.4403	5.32E-08
LOC100506548	579.625	-0.91	0.19244	-4.7114	2.46E-06
GABRA5	33.5295	-0.91	0.35889	-2.5301	0.0114
LOC284454	625.57	-0.91	0.21939	-4.1477	3.36E-05
KLC1	2616.58	-0.91	0.11692	-7.7873	6.84E-15
FAM160A1	84.2027	-0.91	0.2552	-3.5688	0.00036
MYCN	78.3346	-0.91	0.37884	-2.4055	0.01615
HSPG2	9031.12	-0.91	0.21156	-4.3081	1.65E-05
GJB3	2098.69	-0.91	0.21308	-4.2822	1.85E-05
CSRP1	8999.78	-0.91	0.1103	-8.278	1.25E-16
P4HA2	1023.84	-0.91	0.1732	-5.2751	1.33E-07
PCSK6	1864.98	-0.91	0.23797	-3.8442	0.00012

KLF4	3798.09	-0.92	0.15592	-5.8684	4.40E-09
GJC2	263.93	-0.92	0.37937	-2.4162	0.01568
LHX1	52.3762	-0.92	0.36882	-2.4871	0.01288
EVL	321.013	-0.92	0.17404	-5.2779	1.31E-07
ZDHHC8	461.145	-0.92	0.25572	-3.5949	0.00032
KANK4	124.778	-0.92	0.35921	-2.5609	0.01044
ADCY7	2061.54	-0.92	0.24911	-3.694	0.00022
STC2	2593.7	-0.92	0.17522	-5.2528	1.50E-07
GCSAM	88.2086	-0.92	0.25273	-3.6462	0.00027
LUZP1	937.482	-0.92	0.12852	-7.1716	7.41E-13
ADGRG1	13674.1	-0.92	0.17543	-5.255	1.48E-07
DAPK3	1363.76	-0.92	0.17533	-5.2586	1.45E-07
KIAA0754	254.284	-0.92	0.2176	-4.2432	2.20E-05
DACT1	12.1669	-0.93	0.38373	-2.4106	0.01593
JUNB	3351.4	-0.93	0.27617	-3.3525	0.0008
IFFO2	283.209	-0.93	0.21078	-4.3943	1.11E-05
UBL3	1449.38	-0.93	0.20839	-4.4564	8.34E-06
RECK	62.5023	-0.93	0.30983	-3.001	0.00269
KISS1	31.4438	-0.93	0.37184	-2.5032	0.01231
ZNF699	33.2253	-0.93	0.34496	-2.7027	0.00688
MSN	7143.13	-0.93	0.16238	-5.7457	9.15E-09
LIFR	37.7867	-0.93	0.35436	-2.6336	0.00845
TRIO	9033.07	-0.93	0.20304	-4.6037	4.15E-06
ACTN1	4054.48	-0.94	0.19729	-4.7403	2.13E-06
MATK	12.3124	-0.94	0.3807	-2.4641	0.01373
SERTAD4	212.295	-0.94	0.26939	-3.4861	0.00049
MACROD2	18.2453	-0.94	0.38271	-2.4572	0.014
SH3KBP1	1895.56	-0.94	0.13131	-7.1923	6.37E-13
AEBP1	18.7701	-0.94	0.37075	-2.5475	0.01085
LSAMP	126.253	-0.95	0.27836	-3.4039	0.00066
FNDC3B	1730.43	-0.95	0.19584	-4.8404	1.30E-06
SYNPO	8697.91	-0.95	0.21347	-4.4409	8.96E-06
LAMC1	5101.64	-0.95	0.1534	-6.1832	6.28E-10
PEG10	228.967	-0.95	0.22637	-4.1952	2.73E-05

ARHGEF18	2965.13	-0.95	0.23126	-4.1106	3.95E-05
VCL	5883.19	-0.95	0.19164	-4.964	6.90E-07
FGF1	413.41	-0.95	0.22861	-4.1679	3.07E-05
FAM20C	1191.05	-0.95	0.3869	-2.4642	0.01373
SP6	137.292	-0.96	0.32775	-2.9171	0.00353
ITGA6	6595.35	-0.96	0.22256	-4.2988	1.72E-05
KIF26B	48.0012	-0.96	0.38864	-2.4665	0.01365
STARD4	900.905	-0.96	0.1891	-5.0736	3.90E-07
LOX	25.5195	-0.96	0.37091	-2.5889	0.00963
LOC389602	159.41	-0.96	0.26569	-3.6141	0.0003
CADM4	398.695	-0.96	0.22403	-4.2944	1.75E-05
LOC100506990	832.328	-0.96	0.19359	-4.972	6.63E-07
IL31RA	68.445	-0.96	0.32727	-2.9473	0.00321
PIM1	1967.23	-0.97	0.15256	-6.3256	2.52E-10
TUBB6	1787.97	-0.97	0.17501	-5.5195	3.40E-08
MAFK	7814.28	-0.97	0.1804	-5.3549	8.56E-08
COL4A3	1991.04	-0.97	0.14066	-6.8692	6.46E-12
PID1	844.954	-0.97	0.27017	-3.578	0.00035
ANKRD29	65.4231	-0.97	0.36595	-2.647	0.00812
DNAJB2	3623.49	-0.97	0.19768	-4.9041	9.39E-07
BICC1	706.215	-0.97	0.32181	-3.0154	0.00257
TIAM1	48.6204	-0.97	0.31703	-3.0655	0.00217
PLCG2	84.8958	-0.97	0.2527	-3.8504	0.00012
LARP6	339.66	-0.97	0.2418	-4.0242	5.72E-05
TNFAIP1	3687.75	-0.97	0.14436	-6.7439	1.54E-11
ETNK2	127.078	-0.98	0.24642	-3.9578	7.56E-05
GRID1	323.149	-0.98	0.3352	-2.9097	0.00362
LOC154761	127.732	-0.98	0.22867	-4.2667	1.98E-05
MYH9	22367.2	-0.98	0.1277	-7.6533	1.96E-14
PCSK9	564.222	-0.98	0.27478	-3.56	0.00037
CLDN1	8824.74	-0.98	0.16875	-5.7973	6.74E-09
ZBTB46	117.687	-0.98	0.27251	-3.5907	0.00033
FZR1	1454.23	-0.98	0.20053	-4.8872	1.02E-06
EDIL3	20.8198	-0.98	0.3512	-2.793	0.00522

SLC7A5	29251.9	-0.98	0.19748	-4.9679	6.77E-07
KLHL21	929.348	-0.98	0.18416	-5.329	9.88E-08
SLC16A2	50.9281	-0.98	0.29841	-3.2921	0.00099
SAMD4A	608.237	-0.98	0.17674	-5.56	2.70E-08
TNFRSF21	2401	-0.99	0.22338	-4.4133	1.02E-05
TMEM74B	26.2285	-0.99	0.35876	-2.7501	0.00596
DNAH17	294.962	-0.99	0.19233	-5.1305	2.89E-07
SNTA1	376.195	-0.99	0.19795	-4.9896	6.05E-07
TCF7L1	217.81	-0.99	0.21124	-4.6788	2.89E-06
PLCD1	301.935	-0.99	0.24949	-3.9688	7.22E-05
KRT34	16.8975	-0.99	0.39211	-2.5265	0.01152
SCARA3	2259.63	-0.99	0.20187	-4.9179	8.75E-07
JUN	4229.37	-0.99	0.14632	-6.7865	1.15E-11
SYNC	19.8829	-0.99	0.37911	-2.6209	0.00877
TMCC1	2423.3	-0.99	0.22452	-4.4277	9.52E-06
ART4	49.1847	-0.99	0.39388	-2.525	0.01157
EFNA2	602.732	-1.00	0.30612	-3.2505	0.00115
MAPK8IP3	6700.37	-1.00	0.17027	-5.8453	5.06E-09
PITPNC1	73.7062	-1.00	0.28129	-3.5398	0.0004
RAG1	30.6965	-1.00	0.36937	-2.6988	0.00696
CRCT1	82.3726	-1.00	0.38464	-2.5947	0.00947
CSRNP1	823.547	-1.00	0.18139	-5.5224	3.34E-08
SPAG4	107.457	-1.00	0.23506	-4.271	1.95E-05
FUT11	829.301	-1.01	0.29162	-3.4471	0.00057
HSPA2	249.666	-1.01	0.21021	-4.7857	1.70E-06
FBN1	64.6988	-1.01	0.36317	-2.7705	0.0056
FBLIM1	2854.6	-1.01	0.15414	-6.5332	6.44E-11
CAP1	6505.5	-1.01	0.16998	-5.9365	2.91E-09
AKT3	144.524	-1.01	0.3639	-2.7731	0.00555
MIR181A2HG	21.0133	-1.01	0.38249	-2.6387	0.00832
FADS2	13061.1	-1.01	0.16096	-6.2723	3.56E-10
TGFBR1	2476.81	-1.01	0.20703	-4.88	1.06E-06
MICAL3	1068.48	-1.01	0.15363	-6.5795	4.72E-11
KCNA7	79.4947	-1.01	0.39142	-2.5892	0.00962

CAV2	1968.91	-1.01	0.19555	-5.1873	2.13E-07
NEK10	11.9658	-1.01	0.39325	-2.5805	0.00987
PCDHGB5	549.61	-1.02	0.22392	-4.5434	5.53E-06
TSC22D3	3471.17	-1.02	0.15269	-6.6643	2.66E-11
ADAMTS16	48.6151	-1.02	0.32789	-3.1043	0.00191
SPRR3	30.212	-1.02	0.38072	-2.676	0.00745
EEPD1	392.968	-1.02	0.18043	-5.6512	1.59E-08
SLMO1	70.3105	-1.02	0.32068	-3.1817	0.00146
PLCB4	251.032	-1.02	0.19113	-5.3408	9.25E-08
SOX8	11.7864	-1.02	0.3939	-2.5935	0.0095
PEA15	3415.77	-1.02	0.1787	-5.7217	1.05E-08
MOB3B	1214.78	-1.02	0.19518	-5.2414	1.59E-07
FAM178B	9.45411	-1.02	0.39394	-2.6017	0.00928
PCDHGB7	113.57	-1.03	0.22928	-4.4715	7.77E-06
AFAP1L1	357.78	-1.03	0.26285	-3.9043	9.45E-05
ITGA10	72.0734	-1.03	0.33793	-3.0394	0.00237
LOXL1	177.577	-1.03	0.2634	-3.9013	9.57E-05
PNCK	28.7961	-1.03	0.38393	-2.6767	0.00743
DIRAS1	84.0649	-1.03	0.32418	-3.1713	0.00152
PCDHGA4	70.1927	-1.03	0.27592	-3.7337	0.00019
AKAP12	2267.67	-1.03	0.29869	-3.4524	0.00056
PCDHGB1	170.643	-1.03	0.24133	-4.2742	1.92E-05
LSAMP-AS1	14.9326	-1.03	0.38841	-2.6579	0.00786
TMSB4X	25824.7	-1.03	0.17014	-6.0772	1.22E-09
RBMS2	5801.72	-1.03	0.18297	-5.6523	1.58E-08
ADTRP	42.2976	-1.03	0.3213	-3.2213	0.00128
PCBP4	568.638	-1.04	0.22638	-4.5721	4.83E-06
SLC2A14	17.2863	-1.04	0.39376	-2.6289	0.00857
FANK1	71.8269	-1.04	0.34065	-3.0424	0.00235
AUTS2	43.8218	-1.04	0.33101	-3.1355	0.00172
SH3PXD2B	2429.03	-1.04	0.20007	-5.195	2.05E-07
SMURF2	540.716	-1.04	0.19713	-5.2801	1.29E-07
GRK5	139.834	-1.04	0.26698	-3.9001	9.61E-05
ADM	1742.93	-1.04	0.23153	-4.4974	6.88E-06

LINC00312	21.5916	-1.04	0.37215	-2.8001	0.00511
PLAG1	100.538	-1.04	0.3409	-3.0581	0.00223
FZD2	121.876	-1.04	0.27903	-3.7377	0.00019
TRIM9	32.8467	-1.04	0.34126	-3.0596	0.00222
RBM24	28.1121	-1.05	0.35143	-2.9753	0.00293
NUAK1	552.245	-1.05	0.2336	-4.4829	7.36E-06
MXRA7	1322.76	-1.05	0.16547	-6.3339	2.39E-10
NPC1	867.4	-1.05	0.14483	-7.2468	4.27E-13
SLC4A3	80.6256	-1.05	0.29154	-3.6024	0.00032
SLC25A37	1317.4	-1.05	0.15185	-6.9184	4.57E-12
DSE	63.5939	-1.05	0.36857	-2.8521	0.00434
CASC10	78.6532	-1.05	0.3203	-3.2822	0.00103
TTYH3	2341.41	-1.05	0.17067	-6.1601	7.27E-10
BLACAT1	23.8967	-1.05	0.37491	-2.8065	0.00501
SERPINB9	338.239	-1.05	0.16036	-6.5728	4.94E-11
FOSB	288.037	-1.05	0.2985	-3.5334	0.00041
ERRFI1	3498.63	-1.06	0.14007	-7.5387	4.75E-14
SH3TC2	43.8181	-1.06	0.35618	-2.9654	0.00302
ENKUR	69.0156	-1.06	0.30304	-3.4871	0.00049
XYLT1	102.951	-1.06	0.34983	-3.0254	0.00248
FBXO2	125.264	-1.06	0.32971	-3.2144	0.00131
GPB1	805.448	-1.07	0.23044	-4.6361	3.55E-06
GALNT2	2931.92	-1.07	0.15226	-7.024	2.16E-12
ELK3	1699.42	-1.07	0.1679	-6.3748	1.83E-10
FBN3	10.8247	-1.07	0.39403	-2.7208	0.00651
SH3D21	913.854	-1.07	0.19509	-5.502	3.75E-08
PSG5	96.4263	-1.08	0.39237	-2.7432	0.00608
ZFP36L1	3818.75	-1.08	0.10638	-10.122	4.43E-24
NEDD9	1002.7	-1.08	0.2291	-4.7018	2.58E-06
TNFRSF11B	20.8884	-1.08	0.37331	-2.8857	0.00391
ITGB4	32558.8	-1.08	0.22355	-4.8208	1.43E-06
ERO1A	8842.36	-1.08	0.20676	-5.2165	1.82E-07
FURIN	4247.05	-1.08	0.21885	-4.9294	8.25E-07
FOXF2	13.9411	-1.08	0.39307	-2.7491	0.00598

ANO6	3127.94	-1.08	0.18072	-5.9856	2.16E-09
PIK3IP1	164.262	-1.08	0.21932	-4.9376	7.91E-07
FER1L4	146.301	-1.08	0.28945	-3.7428	0.00018
ALOX5AP	102.66	-1.08	0.28086	-3.8602	0.00011
KNDC1	157.864	-1.09	0.36141	-3.0045	0.00266
PRKACB	562.31	-1.09	0.27696	-3.9261	8.63E-05
SCG3	312.916	-1.09	0.19345	-5.6224	1.88E-08
GLIPR1	54.9173	-1.09	0.34481	-3.1547	0.00161
TBKBP1	109.351	-1.09	0.25851	-4.2098	2.56E-05
CLIC3	1605.91	-1.09	0.28791	-3.783	0.00015
PLAUR	5833.66	-1.09	0.1997	-5.4554	4.89E-08
HOMER3	561.258	-1.09	0.21156	-5.1531	2.56E-07
FLJ23867	139.794	-1.09	0.28451	-3.8331	0.00013
VEGFA	4557.48	-1.09	0.25798	-4.2289	2.35E-05
LHX8	27.7656	-1.09	0.36891	-2.9607	0.00307
CREG2	16.3287	-1.09	0.38826	-2.8152	0.00487
UBASH3B	886.205	-1.09	0.26815	-4.0788	4.53E-05
INHA	66.4478	-1.10	0.35528	-3.0838	0.00204
CCL24	60.2447	-1.10	0.3708	-2.9552	0.00312
LOC100288911	24.3371	-1.10	0.38692	-2.8345	0.00459
SEC14L2	151.366	-1.10	0.22649	-4.8424	1.28E-06
KCNH1	29.6751	-1.10	0.36339	-3.0182	0.00254
KISS1R	46.7309	-1.10	0.3938	-2.7904	0.00526
TNC	18.7788	-1.10	0.39394	-2.7902	0.00527
NYNRIN	125.842	-1.10	0.27917	-3.9442	8.01E-05
MIR210HG	471.907	-1.10	0.16692	-6.5972	4.19E-11
WTIP	399.886	-1.10	0.2811	-3.9199	8.86E-05
NFIX	288.503	-1.10	0.25986	-4.2478	2.16E-05
C8orf58	418.285	-1.11	0.22286	-4.9638	6.91E-07
MFSD12	2499.77	-1.11	0.24871	-4.4527	8.48E-06
SBK1	138.502	-1.11	0.30393	-3.6454	0.00027
NATD1	347.38	-1.11	0.19404	-5.7122	1.12E-08
MT1X	643.591	-1.11	0.20138	-5.5048	3.70E-08
TNFRSF10D	777.274	-1.11	0.1517	-7.3121	2.63E-13

THBD	1289.33	-1.11	0.19418	-5.7147	1.10E-08
LOC100505942	23.4072	-1.11	0.38624	-2.8747	0.00404
MASP1	20.1215	-1.11	0.37805	-2.9375	0.00331
B3GNT4	77.2246	-1.11	0.30011	-3.7115	0.00021
BNC1	21.8855	-1.11	0.39398	-2.828	0.00468
NAV1	233.119	-1.11	0.18385	-6.0623	1.34E-09
GPR132	71.1906	-1.12	0.36518	-3.0636	0.00219
TEAD2	671.669	-1.12	0.18829	-5.9466	2.74E-09
WIPF1	1697.44	-1.12	0.18846	-5.9426	2.81E-09
TNFAIP8	951.931	-1.12	0.31648	-3.549	0.00039
EFR3B	55.3141	-1.13	0.32945	-3.4195	0.00063
VGLL3	811.587	-1.13	0.27997	-4.0271	5.65E-05
DUOXA1	22.2963	-1.13	0.36993	-3.0524	0.00227
KDM3A	1900.05	-1.13	0.14499	-7.8069	5.86E-15
CYTH3	754.598	-1.14	0.20223	-5.6357	1.74E-08
ARID3A	961.316	-1.14	0.28476	-4.0024	6.27E-05
LRRC8A	5082.64	-1.14	0.2058	-5.5471	2.91E-08
UACA	1399.52	-1.14	0.2067	-5.5263	3.27E-08
HDAC5	365.319	-1.15	0.23667	-4.8463	1.26E-06
A4GALT	225.095	-1.15	0.37102	-3.0948	0.00197
SERPINA1	403.812	-1.15	0.35505	-3.2448	0.00118
ITGA2	1570.69	-1.15	0.2719	-4.2436	2.20E-05
IL20RB	1234.79	-1.16	0.24305	-4.7536	2.00E-06
ARHGAP23	1628.58	-1.16	0.26	-4.455	8.39E-06
LOC100507487	110.51	-1.16	0.25157	-4.6046	4.13E-06
RASSF5	110.625	-1.16	0.34377	-3.373	0.00074
NLGN2	45.0581	-1.16	0.31787	-3.6509	0.00026
TPM1	6210.99	-1.16	0.14883	-7.8158	5.46E-15
TNNC1	289.716	-1.17	0.29587	-3.9375	8.23E-05
CDK5R1	197.279	-1.17	0.31531	-3.7162	0.0002
EPPK1	5173.84	-1.17	0.19993	-5.8634	4.54E-09
VIM-AS1	27.1008	-1.17	0.36525	-3.2096	0.00133
PORCN	153.61	-1.17	0.30793	-3.8103	0.00014
ULK1	3486.37	-1.18	0.19403	-6.0659	1.31E-09

KIAA1549L	44.6902	-1.18	0.35539	-3.3121	0.00093
PLXND1	6383.34	-1.18	0.27788	-4.2395	2.24E-05
ITGAV	2423.93	-1.18	0.19469	-6.0687	1.29E-09
RAI14	922.97	-1.18	0.16172	-7.3107	2.66E-13
CALY	229.78	-1.18	0.34714	-3.4079	0.00065
NTF4	81.4834	-1.19	0.34383	-3.4485	0.00056
HBEGF	702.21	-1.19	0.28538	-4.157	3.22E-05
LAPTM5	27.1913	-1.19	0.38736	-3.0672	0.00216
SDC4	6332.89	-1.19	0.18344	-6.4833	8.97E-11
FAM101B	296.74	-1.19	0.22375	-5.3171	1.05E-07
PSG2	77.1339	-1.19	0.39395	-3.0238	0.0025
KRT14	10.9419	-1.19	0.38471	-3.0969	0.00196
CGB7	26.3613	-1.19	0.37032	-3.2186	0.00129
IGSF9	27.0899	-1.19	0.38093	-3.1365	0.00171
ABL2	2786.61	-1.20	0.16412	-7.282	3.29E-13
COL3A1	24.7299	-1.20	0.38683	-3.0923	0.00199
PLEK2	2393.36	-1.20	0.19677	-6.0804	1.20E-09
NGEF	1568.27	-1.20	0.15383	-7.779	7.31E-15
AMZ1	38.1772	-1.20	0.34015	-3.5187	0.00043
KLF7	4053.37	-1.20	0.1178	-10.161	2.96E-24
MSRB3	572.622	-1.20	0.20167	-5.9407	2.84E-09
PHLDA1	1736.73	-1.20	0.26538	-4.5299	5.90E-06
LINC-ROR	57.7266	-1.21	0.37121	-3.2502	0.00115
TENM3	369.807	-1.21	0.25787	-4.6799	2.87E-06
JARID2	344.101	-1.21	0.1717	-7.0347	2.00E-12
KCTD16	17.7256	-1.21	0.39005	-3.0988	0.00194
CNN1	10.2201	-1.21	0.37822	-3.1986	0.00138
SLC6A16	91.8338	-1.21	0.3473	-3.4872	0.00049
PRSS53	70.3924	-1.21	0.2978	-4.073	4.64E-05
PCDHGA11	147.919	-1.21	0.24833	-4.888	1.02E-06
ADAMTSL5	655.553	-1.21	0.27812	-4.3653	1.27E-05
TCN1	26.2386	-1.22	0.3893	-3.1273	0.00176
CLDN14	85.142	-1.22	0.29231	-4.1736	3.00E-05
FAM171A1	446.041	-1.22	0.23657	-5.1572	2.51E-07

C10orf55	20.5596	-1.22	0.37337	-3.2687	0.00108
RNF24	88.6877	-1.22	0.26642	-4.5829	4.59E-06
NDRG1	10118.9	-1.22	0.18652	-6.5619	5.31E-11
RRAD	46.6408	-1.23	0.38693	-3.1688	0.00153
MATN2	1942.63	-1.23	0.20714	-5.9201	3.22E-09
EFEMP1	53.7656	-1.23	0.34763	-3.5324	0.00041
C2orf82	553.631	-1.23	0.19835	-6.1927	5.91E-10
SERTAD4-AS1	57.7941	-1.23	0.32669	-3.767	0.00017
SCN5A	24.9636	-1.23	0.39344	-3.1376	0.0017
ZSWIM6	324.487	-1.24	0.20214	-6.1128	9.79E-10
MFGE8	1086.07	-1.24	0.18909	-6.5435	6.01E-11
SERPINE2	670.205	-1.24	0.25503	-4.8535	1.21E-06
RGMA	159.994	-1.24	0.32862	-3.7714	0.00016
SLC12A3	23.8325	-1.24	0.38499	-3.2247	0.00126
PPP1R3B	1483.45	-1.24	0.147	-8.4491	2.93E-17
GFPT2	27.3328	-1.24	0.37777	-3.2889	0.00101
PDGFC	994.473	-1.25	0.18184	-6.8481	7.48E-12
LPPR3	31.3261	-1.25	0.37196	-3.3539	0.0008
SLC7A1	6962.1	-1.25	0.1601	-7.8352	4.68E-15
RAB31	88.5058	-1.26	0.2879	-4.3673	1.26E-05
ZEB1	247.029	-1.26	0.20623	-6.0976	1.08E-09
AQP7P3	13.0373	-1.26	0.39398	-3.1935	0.00141
VLDLR	172.449	-1.26	0.22559	-5.5797	2.41E-08
COL1A2	47.0079	-1.26	0.37671	-3.3413	0.00083
B4GALNT2	28.4671	-1.26	0.38389	-3.2822	0.00103
UCN2	11.0468	-1.26	0.38819	-3.2485	0.00116
FAT4	403.909	-1.27	0.31378	-4.0317	5.54E-05
ESAM	56.0141	-1.27	0.31378	-4.0349	5.46E-05
NDST1	5085.5	-1.27	0.17783	-7.1233	1.05E-12
PTPRF	5472.98	-1.27	0.16072	-7.8851	3.14E-15
PNMA2	445.062	-1.27	0.26792	-4.7374	2.16E-06
FHL3	239.825	-1.27	0.24507	-5.196	2.04E-07
WNT9A	181.227	-1.28	0.30971	-4.1213	3.77E-05
BNIP3L	2891.29	-1.28	0.20607	-6.2205	4.95E-10

HDAC9	92.6579	-1.28	0.28934	-4.4331	9.29E-06
ITGB6	554.374	-1.28	0.33659	-3.8118	0.00014
EFEMP2	243.363	-1.29	0.30662	-4.1933	2.75E-05
PLK2	841.568	-1.29	0.19653	-6.5593	5.41E-11
ITGA5	353.198	-1.29	0.31659	-4.0756	4.59E-05
AMIGO2	9725.82	-1.29	0.23474	-5.5028	3.74E-08
COL4A4	4263.75	-1.29	0.12472	-10.381	3.02E-25
TMEM200C	56.3292	-1.29	0.39184	-3.3047	0.00095
CTSV	258.027	-1.30	0.23156	-5.5957	2.20E-08
RGL1	136.974	-1.30	0.25697	-5.0438	4.56E-07
SGK1	250.052	-1.30	0.2876	-4.5119	6.42E-06
CDK14	455.769	-1.30	0.24465	-5.3118	1.09E-07
STC1	9.46737	-1.30	0.38518	-3.3771	0.00073
FIBCD1	118.448	-1.30	0.27224	-4.7847	1.71E-06
TNXB	298.994	-1.30	0.26245	-4.9723	6.61E-07
FSTL3	14189.9	-1.31	0.22198	-5.8995	3.65E-09
ANXA8L1	1043.11	-1.31	0.25474	-5.1448	2.68E-07
EGFR	1836.73	-1.31	0.22107	-5.9376	2.89E-09
GPR157	172.587	-1.31	0.27842	-4.7164	2.40E-06
TSPAN5	19.1716	-1.31	0.37977	-3.4625	0.00054
CDH3	108.113	-1.32	0.32276	-4.075	4.60E-05
ATP10A	3352.54	-1.32	0.37902	-3.4907	0.00048
NID1	996.958	-1.33	0.27384	-4.8386	1.31E-06
PLEKHG2	1926.93	-1.33	0.16594	-8.0004	1.24E-15
COL7A1	1104.16	-1.33	0.28573	-4.6475	3.36E-06
AFAP1L2	920.405	-1.33	0.30656	-4.3344	1.46E-05
ENO2	811.167	-1.33	0.39385	-3.3747	0.00074
RPS6KA2	116.798	-1.33	0.25749	-5.1672	2.38E-07
RUSC2	1207.01	-1.33	0.16877	-7.887	3.09E-15
TANC2	1751.11	-1.33	0.18665	-7.1383	9.45E-13
LINC00941	179.012	-1.33	0.28799	-4.6355	3.56E-06
PPP1R18	2207.73	-1.34	0.26535	-5.0311	4.88E-07
ADAMTS1	1118.04	-1.34	0.18735	-7.1305	1.00E-12
SLC2A1	14762.6	-1.34	0.27265	-4.9145	8.90E-07

CASC8	37.1019	-1.34	0.39048	-3.438	0.00059
C8orf46	22.1642	-1.34	0.38111	-3.5253	0.00042
LIPG	69.7418	-1.34	0.36801	-3.6527	0.00026
GRIN3B	72.2013	-1.35	0.36233	-3.7131	0.0002
ZYX	6588.69	-1.35	0.13796	-9.7607	1.66E-22
PALM	1265.73	-1.35	0.2921	-4.6102	4.02E-06
TSPAN2	17.1379	-1.35	0.39387	-3.421	0.00062
MICALL1	1516.18	-1.35	0.13527	-9.9712	2.04E-23
GSN	3389.16	-1.35	0.23779	-5.6792	1.35E-08
NDUFA4L2	313.306	-1.35	0.33097	-4.0821	4.46E-05
SYDE1	31.6906	-1.35	0.37581	-3.5986	0.00032
CYP26B1	392.679	-1.36	0.2095	-6.4779	9.30E-11
AHNAK2	34845.2	-1.36	0.20255	-6.7198	1.82E-11
USP54	2029.61	-1.37	0.22279	-6.1575	7.39E-10
ACKR2	67.9232	-1.37	0.37056	-3.7053	0.00021
CDH11	238.109	-1.38	0.21529	-6.3895	1.66E-10
RASSF4	82.2755	-1.38	0.35359	-3.9038	9.47E-05
C15orf52	2712.63	-1.38	0.16012	-8.6244	6.44E-18
RTN2	229.779	-1.38	0.22064	-6.2723	3.56E-10
COX6B2	87.4971	-1.39	0.30335	-4.5705	4.87E-06
KRT5	49.8824	-1.39	0.37629	-3.6868	0.00023
NTN4	485.444	-1.39	0.32747	-4.2476	2.16E-05
PRR5L	249.067	-1.39	0.28219	-4.934	8.05E-07
ABTB2	473.504	-1.39	0.16147	-8.6296	6.16E-18
CXCR1	11.2161	-1.40	0.39127	-3.5666	0.00036
ZCCHC24	361.389	-1.40	0.21479	-6.4981	8.14E-11
OSMR	2747.5	-1.40	0.13579	-10.288	8.01E-25
OLFML2A	85.1139	-1.40	0.38095	-3.6699	0.00024
SHC2	734.748	-1.40	0.16937	-8.2557	1.51E-16
DPYSL2	561.6	-1.40	0.28686	-4.8822	1.05E-06
PITPNM3	79.7438	-1.40	0.2969	-4.7195	2.36E-06
PTK7	706.034	-1.41	0.23103	-6.0816	1.19E-09
CDKN1A	3941.79	-1.41	0.18802	-7.4806	7.40E-14
CSF1R	22.4717	-1.41	0.38777	-3.6388	0.00027

SLAMF9	10.9721	-1.41	0.38312	-3.6905	0.00022
MFAP4	47.2776	-1.42	0.33154	-4.279	1.88E-05
PCDH1	1006.48	-1.42	0.38986	-3.643	0.00027
MFI2	405.499	-1.42	0.20055	-7.085	1.39E-12
ID3	98.6364	-1.42	0.32525	-4.377	1.20E-05
PGM2L1	287.75	-1.42	0.31053	-4.5865	4.51E-06
NPC2	2032	-1.42	0.16388	-8.6938	3.50E-18
APBB2	1151.37	-1.43	0.28279	-5.0492	4.44E-07
PFKFB4	283.434	-1.43	0.22436	-6.3736	1.85E-10
TRPV4	348.422	-1.44	0.26053	-5.5381	3.06E-08
ARID5B	47.602	-1.44	0.34055	-4.2373	2.26E-05
LAMB3	22331	-1.44	0.11371	-12.705	5.57E-37
PRSS23	9855.15	-1.45	0.36467	-3.9681	7.24E-05
COL15A1	18.3548	-1.45	0.39185	-3.6962	0.00022
LGI3	55.5283	-1.45	0.34906	-4.1499	3.33E-05
WDR66	565.667	-1.45	0.32032	-4.5248	6.04E-06
HTR1D	349.568	-1.45	0.21243	-6.8385	8.00E-12
CLDN6	52.8949	-1.45	0.31239	-4.6511	3.30E-06
SERPINF1	858.217	-1.45	0.17126	-8.4889	2.09E-17
SHANK3	405.177	-1.46	0.21483	-6.7788	1.21E-11
EFNA3	300.684	-1.47	0.27899	-5.2529	1.50E-07
WDR54	486.246	-1.47	0.23395	-6.2657	3.71E-10
IGFBP7	43.0624	-1.47	0.36797	-3.9861	6.72E-05
CDH2	440.035	-1.47	0.22541	-6.5078	7.63E-11
SARDH	13.5265	-1.47	0.39381	-3.7335	0.00019
ADAM12	15.1397	-1.47	0.39368	-3.737	0.00019
CALD1	4451.75	-1.47	0.14549	-10.122	4.41E-24
FAM214B	963.037	-1.47	0.17225	-8.5503	1.23E-17
MFAP3L	177.701	-1.48	0.28437	-5.1885	2.12E-07
ANXA8	178.981	-1.48	0.28923	-5.1177	3.09E-07
IL11	119.227	-1.48	0.34562	-4.2908	1.78E-05
VANGL2	540.52	-1.48	0.16264	-9.128	6.98E-20
EFNB2	1554.72	-1.48	0.19816	-7.4921	6.78E-14
RAET1L	26.2802	-1.49	0.38214	-3.9045	9.44E-05

TRIML2	51.2948	-1.50	0.37505	-3.9864	6.71E-05
CTIF	491.136	-1.50	0.21994	-6.7987	1.06E-11
FAM171A2	26.6474	-1.50	0.37704	-3.9734	7.08E-05
CD59	6155.96	-1.50	0.14118	-10.642	1.91E-26
EMP3	6156.19	-1.50	0.14711	-10.215	1.70E-24
FOLR3	45.1186	-1.51	0.39346	-3.8343	0.00013
S100A4	3412.06	-1.52	0.28457	-5.3495	8.82E-08
TNS1	5575.57	-1.52	0.12599	-12.083	1.29E-33
TUBA4B	82.9064	-1.52	0.34407	-4.4261	9.59E-06
PDLIM4	48.9586	-1.52	0.32269	-4.7247	2.30E-06
COL8A1	14.3838	-1.53	0.39397	-3.8825	0.0001
PLOD2	2328.67	-1.54	0.2586	-5.9463	2.74E-09
LAMC2	39326.3	-1.54	0.15216	-10.138	3.75E-24
BHLHE40	3656.78	-1.55	0.1756	-8.8151	1.20E-18
UBTD1	70.7814	-1.55	0.3306	-4.69	2.73E-06
MXRA8	848.63	-1.55	0.39312	-3.9446	7.99E-05
EHD2	1289.08	-1.55	0.2937	-5.2934	1.20E-07
LTBP1	453.142	-1.56	0.28144	-5.5273	3.25E-08
HEG1	215.559	-1.56	0.26023	-5.9932	2.06E-09
KIRREL	881.684	-1.56	0.25894	-6.0264	1.68E-09
ECM1	715.625	-1.56	0.28706	-5.4374	5.41E-08
FAM65A	3208.03	-1.56	0.20878	-7.4781	7.54E-14
SLIT3	539.14	-1.56	0.33196	-4.7126	2.45E-06
PDLIM7	5709.88	-1.57	0.20016	-7.819	5.32E-15
SCD	14420.6	-1.57	0.2249	-6.9682	3.21E-12
CD37	68.9842	-1.58	0.34293	-4.598	4.27E-06
CLEC16A	1992.68	-1.58	0.17593	-8.9704	2.95E-19
C22orf23	360.141	-1.58	0.16441	-9.6282	6.08E-22
GLIPR2	38.593	-1.58	0.35183	-4.4997	6.80E-06
NEURL1B	2579.06	-1.59	0.26485	-5.9931	2.06E-09
ANTXR1	38.5531	-1.59	0.3781	-4.2143	2.51E-05
PPP1R13L	3178.05	-1.59	0.24263	-6.5729	4.93E-11
LOC101928841	1456.81	-1.60	0.20988	-7.6047	2.86E-14
SEMA3C	1666.18	-1.60	0.25005	-6.3879	1.68E-10

PYGL	2985.71	-1.60	0.1484	-10.766	4.97E-27
HSPA6	93.8581	-1.60	0.35168	-4.5454	5.48E-06
DDIT4	3754.01	-1.61	0.22311	-7.197	6.15E-13
SEMA4A	124.364	-1.61	0.24608	-6.5317	6.50E-11
ABHD12B	30.3523	-1.61	0.37623	-4.2796	1.87E-05
HK2	1302.78	-1.62	0.17481	-9.2468	2.31E-20
AATK-AS1	16.443	-1.62	0.39352	-4.1099	3.96E-05
CRIM1	2139.06	-1.62	0.24459	-6.6208	3.57E-11
CDKN1C	2146.22	-1.62	0.21944	-7.3919	1.45E-13
LINC01260	16.6978	-1.62	0.39403	-4.1191	3.80E-05
EFNA1	9722.69	-1.62	0.24384	-6.6593	2.75E-11
MYH16	70.3591	-1.63	0.28466	-5.7172	1.08E-08
CHST3	3954.87	-1.63	0.28907	-5.6317	1.78E-08
PTHLH	77.108	-1.63	0.34153	-4.7806	1.75E-06
DCBLD1	228.583	-1.64	0.22381	-7.3186	2.50E-13
PODXL	4130.75	-1.65	0.29288	-5.6178	1.93E-08
TUBB3	2820.17	-1.65	0.21068	-7.8105	5.69E-15
RASGRP1	88.4558	-1.65	0.28034	-5.8812	4.07E-09
CDA	2008.95	-1.65	0.18343	-8.9959	2.34E-19
PIK3CD	199.774	-1.65	0.26152	-6.323	2.57E-10
GPR17	30.0677	-1.65	0.36504	-4.5319	5.85E-06
PHLDB1	1877.9	-1.65	0.18239	-9.0726	1.16E-19
MN1	394.163	-1.66	0.33966	-4.8939	9.88E-07
ADAMTS15	59.6525	-1.66	0.30368	-5.4785	4.29E-08
LEMD1	14.4199	-1.67	0.38777	-4.2969	1.73E-05
KCTD11	1657.33	-1.67	0.2146	-7.7777	7.39E-15
KRT16	670.815	-1.67	0.27154	-6.1521	7.64E-10
SPTBN5	70.2523	-1.67	0.3751	-4.4551	8.39E-06
LDLRAD4	39.5806	-1.68	0.39349	-4.2583	2.06E-05
SMOX	439.121	-1.68	0.20366	-8.2604	1.45E-16
CYP27C1	127.918	-1.68	0.35384	-4.7617	1.92E-06
ARHGAP30	145.064	-1.69	0.24604	-6.8683	6.50E-12
SH3RF3	16.8113	-1.69	0.39398	-4.2903	1.78E-05
VCAN	21.8273	-1.69	0.39063	-4.3386	1.43E-05

BMP1	3087.88	-1.70	0.15423	-11.054	2.10E-28
ANGPTL4	1135.94	-1.72	0.16407	-10.471	1.17E-25
TMEM132A	377.006	-1.73	0.32877	-5.2627	1.42E-07
ALDOC	290.179	-1.73	0.31085	-5.5813	2.39E-08
LPAR5	503.312	-1.75	0.31084	-5.6206	1.90E-08
CLDN9	39.5835	-1.75	0.36102	-4.8493	1.24E-06
NES	52.0814	-1.76	0.35682	-4.9268	8.36E-07
GRB10	2512.62	-1.76	0.20466	-8.5953	8.30E-18
NKILA	82.023	-1.76	0.28785	-6.1225	9.21E-10
LINC00862	27.8125	-1.76	0.37737	-4.6703	3.01E-06
RGCC	23.7106	-1.76	0.38909	-4.5305	5.89E-06
LUM	72.1819	-1.77	0.38327	-4.6091	4.04E-06
LCK	16.0401	-1.77	0.39339	-4.4915	7.07E-06
SCN9A	740.544	-1.77	0.20745	-8.5296	1.47E-17
HSPB1	8096.77	-1.77	0.11846	-14.947	1.64E-50
KIAA1462	105.564	-1.77	0.27196	-6.5206	7.00E-11
FERMT2	749.447	-1.78	0.16637	-10.693	1.10E-26
CCNJL	189.353	-1.79	0.35625	-5.0333	4.82E-07
RBMS3	46.9512	-1.79	0.3932	-4.5624	5.06E-06
PSG4	255.295	-1.79	0.36202	-4.9564	7.18E-07
FLNA	49580	-1.81	0.24338	-7.4374	1.03E-13
NXPH4	118.364	-1.81	0.34211	-5.2972	1.18E-07
ACKR3	4113.49	-1.82	0.3731	-4.8815	1.05E-06
ATP2B4	2158.32	-1.83	0.24647	-7.4346	1.05E-13
SPHK1	620.529	-1.84	0.30026	-6.1245	9.09E-10
ADAMTS17	122.615	-1.89	0.3326	-5.6757	1.38E-08
ARHGAP31	151.429	-1.89	0.2628	-7.187	6.62E-13
GPC4	406.144	-1.89	0.33178	-5.7017	1.19E-08
CADM1	419.766	-1.89	0.32501	-5.8264	5.66E-09
MAML2	141.214	-1.90	0.35866	-5.2866	1.25E-07
PNPLA3	293.569	-1.90	0.22346	-8.5139	1.68E-17
RTL1	18.3954	-1.90	0.39228	-4.8503	1.23E-06
MYL2	14.248	-1.91	0.39245	-4.858	1.19E-06
CEP131	2559.42	-1.91	0.15638	-12.23	2.16E-34

ANKRD37	134.453	-1.93	0.2325	-8.2872	1.16E-16
ITGA11	31.3786	-1.94	0.37038	-5.2417	1.59E-07
CMTM3	1571.35	-1.95	0.18298	-10.662	1.52E-26
MKRN9P	22.4107	-1.95	0.38352	-5.0938	3.51E-07
KCNJ16	82.2673	-1.95	0.33933	-5.7584	8.49E-09
LRRN2	41.2578	-1.96	0.37769	-5.1822	2.19E-07
SLC35F3	85.723	-1.96	0.32138	-6.1085	1.01E-09
SULF2	316.474	-1.96	0.29755	-6.6038	4.01E-11
GPR87	30.1128	-1.97	0.38544	-5.1069	3.27E-07
CNN3	139.975	-1.98	0.30035	-6.5921	4.34E-11
SORCS2	51.5737	-2.00	0.39234	-5.0856	3.66E-07
SLC2A3	3948.13	-2.00	0.39371	-5.083	3.71E-07
ST8SIA2	33.8577	-2.01	0.37986	-5.2801	1.29E-07
LPCAT2	576.266	-2.01	0.28864	-6.9572	3.47E-12
CLTCL1	208.904	-2.04	0.22372	-9.1115	8.13E-20
COL6A2	4362.79	-2.07	0.24635	-8.394	4.70E-17
TUFT1	3904.38	-2.07	0.14768	-14.018	1.22E-44
LGR6	44.7937	-2.07	0.36627	-5.6533	1.57E-08
FAM49A	51.1815	-2.08	0.3566	-5.819	5.92E-09
AQP1	205.185	-2.08	0.253	-8.2096	2.22E-16
CHST11	646.321	-2.08	0.29231	-7.1128	1.14E-12
TSHZ3	17.9516	-2.08	0.3912	-5.3172	1.05E-07
MRAS	295.269	-2.10	0.20473	-10.235	1.39E-24
FBLN2	43.4847	-2.11	0.38347	-5.4985	3.83E-08
FN1	391.52	-2.11	0.20382	-10.366	3.54E-25
TNFRSF19	54.6715	-2.12	0.3492	-6.0678	1.30E-09
LAMA3	10212.1	-2.12	0.17917	-11.829	2.77E-32
TGFB1I1	1072.87	-2.12	0.28446	-7.4511	9.26E-14
PPFIA4	100.776	-2.13	0.28686	-7.4175	1.19E-13
MMP11	142.812	-2.13	0.30156	-7.0676	1.58E-12
KCNJ15	39.1014	-2.15	0.34128	-6.2918	3.14E-10
PHLDB2	361.847	-2.15	0.2862	-7.5189	5.52E-14
CSDC2	32.9892	-2.18	0.3524	-6.1926	5.92E-10
COL22A1	236.731	-2.20	0.26573	-8.2639	1.41E-16

CACNA1B	63.2769	-2.20	0.32884	-6.683	2.34E-11
ECEL1	261.379	-2.20	0.24682	-8.9166	4.81E-19
TGFB1	649.996	-2.22	0.34278	-6.4677	9.95E-11
HAPLN3	63.8933	-2.22	0.33226	-6.6955	2.15E-11
BDNF	213.539	-2.23	0.34755	-6.4187	1.37E-10
SERPINA3	191.221	-2.23	0.38603	-5.7836	7.31E-09
PDGFB	887.021	-2.24	0.29214	-7.6642	1.80E-14
GDF6	26.4941	-2.24	0.39367	-5.6972	1.22E-08
DKK3	348.596	-2.25	0.32069	-7.0096	2.39E-12
CACNG4	225.686	-2.25	0.28394	-7.9354	2.10E-15
SLC38A5	76.9717	-2.27	0.37183	-6.093	1.11E-09
ALPL	1585.42	-2.27	0.30643	-7.3962	1.40E-13
ADAMTSL4	519.513	-2.28	0.18304	-12.452	1.36E-35
DOCK2	29.6503	-2.28	0.3914	-5.8245	5.73E-09
PXDNL	23.7635	-2.30	0.38471	-5.97	2.37E-09
BMP6	66.0247	-2.31	0.37856	-6.0912	1.12E-09
COL4A2	13325.5	-2.31	0.26034	-8.8696	7.34E-19
PLAU	2910.68	-2.31	0.29854	-7.7405	9.90E-15
ATP8A2	100.014	-2.32	0.29294	-7.918	2.41E-15
COL4A1	4356.8	-2.33	0.26279	-8.8718	7.20E-19
SNAI2	304.557	-2.33	0.27169	-8.5869	8.93E-18
NOX4	216.268	-2.34	0.38362	-6.104	1.03E-09
SLCO2A1	23.4822	-2.35	0.38908	-6.0282	1.66E-09
ETS1	1180.21	-2.35	0.22566	-10.414	2.14E-25
CERCAM	461.044	-2.39	0.28714	-8.3171	9.01E-17
CGB5	22.5372	-2.47	0.38802	-6.3565	2.06E-10
LINC01279	37.5872	-2.50	0.35822	-6.9857	2.84E-12
SPOCK1	40.6782	-2.52	0.37329	-6.7473	1.51E-11
CTGF	3081.67	-2.52	0.11817	-21.343	#####
ANKRD1	472.547	-2.55	0.34052	-7.4858	7.11E-14
CRLF1	70.6485	-2.55	0.37965	-6.7224	1.79E-11
BIRC7	112.986	-2.57	0.32882	-7.8054	5.93E-15
PKP1	48.32	-2.61	0.39364	-6.6278	3.41E-11
C5orf46	27.1226	-2.63	0.39123	-6.7189	1.83E-11

IGFBP2	2241.14	-2.64	0.27655	-9.5459	1.35E-21
MFAP5	155.531	-2.65	0.38235	-6.9209	4.49E-12
EGLN3	1748.4	-2.66	0.31449	-8.4471	2.99E-17
TUBA1A	344.559	-2.67	0.20768	-12.844	9.33E-38
FRMD6	154.241	-2.67	0.25005	-10.688	1.16E-26
COL1A1	1179.99	-2.69	0.16425	-16.371	3.08E-60
ZBED2	1196.89	-2.70	0.31603	-8.5487	1.24E-17
PMEPA1	15420.5	-2.70	0.18668	-14.474	1.77E-47
LIMS2	312.244	-2.74	0.3027	-9.0533	1.39E-19
C10orf10	143.127	-2.77	0.30015	-9.2425	2.41E-20
EPHA4	253.356	-2.79	0.25634	-10.886	1.35E-27
TNS4	5850.02	-2.79	0.26541	-10.53	6.29E-26
COL12A1	730.346	-2.79	0.22421	-12.465	1.15E-35
LOXL2	160.194	-2.85	0.31263	-9.1287	6.93E-20
C5AR2	141.531	-2.88	0.35385	-8.141	3.92E-16
DKFZp434J0226	117.367	-2.88	0.25737	-11.21	3.66E-29
NPTX1	93.5619	-2.89	0.37824	-7.6318	2.32E-14
CYR61	1019.44	-2.91	0.16394	-17.74	2.06E-70
PTRF	1355.65	-2.99	0.25792	-11.585	4.90E-31
LTBP2	757.021	-3.00	0.21618	-13.866	1.01E-43
RBP1	599.415	-3.03	0.26261	-11.527	9.62E-31
JPH2	98.7935	-3.04	0.34288	-8.8737	7.07E-19
LBH	4310.48	-3.05	0.23642	-12.902	4.40E-38
MGAT5B	271.407	-3.05	0.27287	-11.195	4.32E-29
PVRL4	638.052	-3.07	0.22281	-13.78	3.35E-43
ALPK2	148.883	-3.08	0.30456	-10.112	4.89E-24
NNMT	1060.4	-3.10	0.32607	-9.4968	2.16E-21
KPRP	42.6939	-3.13	0.38169	-8.2129	2.16E-16
VASN	253.725	-3.14	0.27925	-11.235	2.75E-29
MARCH4	102.967	-3.16	0.32943	-9.6	7.99E-22
WNT11	1278.36	-3.22	0.29948	-10.747	6.15E-27
C6orf15	164.622	-3.24	0.37393	-8.6555	4.91E-18
FOXS1	48.9219	-3.34	0.35408	-9.438	3.80E-21
CAV1	1648.29	-3.35	0.243	-13.787	3.04E-43

FLJ16779	58.7289	-3.43	0.35965	-9.5284	1.60E-21
WNT5B	222.36	-3.45	0.26074	-13.235	5.52E-40
TGFBI	5777.58	-3.49	0.16872	-20.697	3.65E-95
TGFB2	67.8183	-3.50	0.35379	-9.8798	5.09E-23
SEMA7A	1250.26	-3.53	0.30119	-11.709	1.15E-31
INHBA	149.914	-3.55	0.2565	-13.842	1.42E-43
FSTL1	541.087	-3.55	0.23519	-15.115	1.29E-51
IGFL2	159.441	-3.56	0.37972	-9.386	6.23E-21
MAFB	96.0318	-3.69	0.34764	-10.619	2.42E-26
ADAM19	196.352	-3.83	0.28372	-13.509	1.38E-41
CGB8	96.9067	-3.89	0.34691	-11.212	3.56E-29
MYL9	1643.86	-3.95	0.16118	-24.496	#####
PLXDC2	548.713	-3.96	0.2038	-19.445	3.20E-84
THBS1	5006.59	-4.00	0.1605	-24.926	#####
VIM	8753.1	-4.04	0.2476	-16.316	7.62E-60
BEAN1	180.763	-4.06	0.297	-13.676	1.41E-42
KRT6A	9762.24	-4.45	0.27849	-15.977	1.86E-57
CST6	309.256	-4.64	0.2784	-16.662	2.46E-62
EPHB2	449.792	-4.70	0.22893	-20.533	1.09E-93
TAGLN	6294.16	-4.74	0.1122	-42.228	0
MAF	772.431	-4.81	0.28011	-17.182	3.63E-66
TIMP3	580.137	-4.84	0.33607	-14.4	5.20E-47
SERPINE1	1848.09	-4.99	0.23331	-21.403	#####
CCDC80	347.613	-5.13	0.26108	-19.656	5.18E-86
MMP2	398.356	-5.23	0.32227	-16.239	2.66E-59
KRT17	33576.9	-5.32	0.15932	-33.362	#####
COL5A1	1755.34	-5.83	0.28911	-20.18	1.47E-90

