

Supplementary File 3

Common DEGs in MSI-H vs control cases

Common DEGs in MSI-H vs normal comparisons			
Gene	GSE24551	GSE29638	GSE25071
DUSP3	-0.02773	-0.77353	-0.9294
EHHADH	-1.0974	0.24229	-1.2822
PDHA1	-0.65309	0.11438	-0.82718
CHP1	-0.69938	0.11016	-0.82586
CFTR	-2.2408	-0.03563	-2.052
FAR2	-0.73092	-0.03636	-0.79281
VIL1	-0.96277	0.051772	-1.0932
ABHD6	-0.89812	-0.03974	-1.0808
IYD	-0.97418	0.015305	-1.1839
OGN	-1.8616	-3.8036	
JUND		-1.5647	-1.23
KLF10	-0.76247	-1.0555	-0.46377
TSPAN11	-0.74498	-1.0307	
AHI1	-0.71624	-1.1526	-0.54241
B3GALT5	-0.96733	-1.5949	
ABHD3	-0.77091	-1.2717	-0.57507
MYLK	-1.0291	-1.8047	-0.66934
UCHL1	-0.65039	-1.1422	-0.4047
MLXIP	-0.60285	-1.0176	
METTL25	-0.88209	-1.4852	-0.38789
JAM2	-0.7031	-1.2935	-0.39777
PGM5	-1.169	-2.377	-0.48166
AGR3	-1.127	-2.1956	-0.57298
BNIP2	-0.64777	-1.4691	-0.37578
ETFRF1	-0.74339	-1.6828	
ZNF483	-0.609	-1.3767	
SORBS1	-0.50761	-1.825	-0.7394
NPTN	-0.28269	-0.92991	-0.65569
GLDN	-0.7106	-2.3865	
CD58	-0.60502	-1.1545	-0.6409
AOC3	-0.58572	-1.2022	-0.6506
OMD	-0.71942	-1.4967	
C4orf33	-0.64152	-1.3409	-0.77524
IL1R1	-0.59252	-1.2982	-1.0578
PMP2	-0.75471	-1.6734	
PRH1	-0.76692	-1.6965	
RPS27L	-0.6822	-1.5082	
COMMD6	-0.90954	-2.0227	
ZDHHC17	-0.27203	-0.64915	-0.80027
C8orf59	-0.60935	-1.4738	
ZNF737	-0.62966	-1.5177	

AKT3	-0.60104	-1.5933	
ZNF124	-0.3579	-1.0327	-1.433
INSL5	-1.401	-3.8257	
CHRDL1	-0.89961	-2.5217	
FABP4	-1.3025	-3.6291	
UGCG	-0.3174	-0.79477	-1.0192
FDXACB1	-0.856	-2.159	
POU5F1	-0.8934	-2.2705	
CPE	-0.76731	-1.9456	
B3GALT1	-3.1515	-3.1333	
ACAA1		-0.60376	-0.73457
TPH1	-4.4868	-4.3821	
RFLNA		-1.2128	-1.0101
PEX26	-1.1969	-0.68439	-0.20391
FCGRT	-1.7526	-1.1737	-0.38398
CACNB2	-1.2979	-1.5239	
CAMK2G		-0.63922	-0.73148
TMIGD1	-6.0333	-5.0354	
PCSK5	-2.3642	-1.8593	-0.61983
ARHGAP44	-2.1678	-1.5928	-0.53594
ACSM3	-1.7079	-1.4557	-0.23984
ZNF830	-0.84209	-0.72004	-0.06195
SLC25A16	-1.4576	-1.2818	-0.32743
TMEM127	-0.73102	-0.68458	-0.16258
MUSK	-1.6278	-1.5013	
RAB27A	-0.73186	-0.67484	-0.37466
SNRPA1	-1.8129	-1.6725	
LGALS3	-1.7454	-1.0789	-0.67056
SUCLG1	-1.407	-0.8501	-0.50051
SCN7A	-2.7053	-2.379	
DNM2		-0.72304	-0.76368
FRYL	-1.5135	-0.86776	
KLHDC2	-1.0735	-1.3292	-0.65871
UQCRQ	-0.79421	-0.77559	-0.46348
NEK3	-0.63624	-0.69913	-0.85671
IL6R	-1.1154	-1.2243	
MAMDC2	-2.6717	-2.932	
CCL28	-1.3269	-1.4931	-0.75679
ATP8B1	-0.91538	-0.96703	-1.4954
CLDN8	-4.1708	-4.4036	
GCG	-4.9033	-5.1368	
SRSF5	-1.4923	-1.559	-1.3849
CDC14A	-0.72697	-0.75967	

PRDX6	-1.2226	-1.3098	-1.022
GSTM5	-2.0526	-2.202	
MFAP4	-1.4174	-1.5578	-0.96226
CAPN13	-1.9332	-2.1168	-1.272
SNX24	-0.82416	-0.93277	-0.57712
CEP70	-0.89886	-0.90418	-0.59088
CALCOCO2	-0.74435	-0.8099	-0.61134
CDHR1	-2.1892	-2.2646	-1.7938
PLP1	-2.2613	-2.347	
ZDHHC7	-0.63118	-0.59275	-0.26537
CLMN	-1.7335	-1.6181	-0.74165
PLEKHH2	-1.5976	-1.4912	
LPAR6	-1.2613	-1.2373	-0.51182
P2RX4	-0.88642	-0.77535	-0.31243
PRELID2	-1.4548	-1.2802	-0.58567
ZNF75A	-0.97031	-0.89666	-0.30853
NUDT4	-1.0838	-1.0015	
NDUFA2	-0.85793	-0.77431	-0.2764
FAM102A	-0.92582	-0.83184	-0.29643
NIT1	-0.72172	-0.68571	-0.30125
KLF3	-0.89141	-0.84731	
ZNF528	-1.0505	-0.99859	
COX7B	-0.84522	-0.92986	-0.33043
MYO9A	-0.78056	-0.84498	-0.33927
SBDS	-0.77491	-0.85342	-0.36702
CD36	-1.835	-1.8726	-0.82863
RGS13	-1.7826	-1.8112	
BDH2	-1.8367	-1.8656	-0.83844
YPEL2	-0.93194	-0.94039	-0.4686
NDUFS4	-0.94666	-0.71305	-0.37245
SQOR	-1.0667	-0.77809	-0.42089
HDHD3	-1.5725	-1.2382	-0.67596
C15orf48	-2.489	-1.9315	-1.1346
ANO5	-2.0507	-2.3356	
MAP3K14		-0.74704	-0.87433
SMPD1	-1.1063	-0.86602	-0.79197
TAS2R4	-1.68	-1.3142	
SH3RF1	-0.92712	-0.71067	-0.51865
KIF16B	-0.86665	-0.67865	-0.45323
TMEM120A	-0.88637	-0.64232	-0.43463
CCL13	-1.2796	-1.0758	-0.76477
MT1M	-3.7081	-3.0596	
SECISBP2	-0.74087	-0.61166	-1.3368

CA7	-3.5342	-2.9231	
PCLO	-0.97517	-0.80768	
CCDC144B	-2.1083	-2.8877	
MAN2C1		-0.76112	-1.1489
COLEC12	-0.78076	-1.1494	-0.4154
EAF2	-1.2981	-1.6026	-0.53765
LGALSL	-1.2598	-1.5396	-0.587
CDA	-1.0316	-1.3826	-0.50326
MYL6	-0.75188	-1.0001	-0.41223
CMA1	-1.2079	-1.5338	-0.62407
FBXW7	-0.70174	-0.93358	-0.41394
TMEM9B	-0.65928	-0.85226	-0.69802
CP	-1.885	-2.4407	
ACACB	-1.1032	-1.4328	
SCNN1G	-1.1841	-1.5388	
MAP2K6	-1.5724	-0.75585	
SLC20A2	-1.2141	-0.58327	-0.90881
ZNF43	-2.1693	-1.0415	-1.4027
HSD17B11	-1.1542	-0.50095	-0.79129
ANKRD40CL	-1.8626	-1.0211	
PANK3	-0.71872	-0.39242	-0.95822
GHITM	-0.80598	-0.46167	-0.59011
PPARGC1A	-2.1872	-1.2138	-1.4502
DOP1A	-0.82768	-0.46635	-0.80794
GCOM1	-1.6181	-0.91199	
DOK4	-1.1971	-0.71985	-0.83895
ADGRL3	-2.3373	-1.8419	
DGLUCY		-0.63005	-1.4358
CPT1A	-1.1884	-0.60083	-0.71164
SULT1B1	-4.0996	-2.0456	
RNPC3	-1.733	-0.86506	-1.7602
ID3	-1.842	-0.75676	-0.92703
MICU2	-0.97092	-0.40548	-1.2401
AKR1B15	-4.0558	-1.694	
NOX1	-1.9416	-0.67584	-1.2671
TRIM36	-1.5873	-0.61772	-0.94148
CLK1	-1.065	-1.6515	-0.94413
CYP3A5	-1.2604	-1.8026	-1.1817
ANGPTL1	-1.4277	-2.0419	
SFRP1	-1.2141	-1.7339	
P3H2	-1.0657	-1.5826	-0.96196
FXYD3	-1.0343	-1.5149	-0.73222
SEMA3D	-0.91202	-1.3333	

CCDC69	-0.94751	-1.6103	-0.90788
ARHGAP15	-0.76763	-1.2905	-0.68942
LXN	-1.0601	-1.806	-0.91376
TSC22D3	-1.1436	-1.9221	-1.2206
S100B	-1.0203	-1.5358	-1.0365
MEIS1	-0.72136	-1.1019	-1.1213
CROCCP2	-0.66751	-1.0196	
SMG1P1	-1.6088	-2.46	
GKAP1	-0.73369	-1.1485	
MKNK2		-0.86114	-0.7763
CPA3	-1.3752	-1.9507	-1.3082
KLRA1P	-0.88227	-1.2516	
VLDLR	-0.81598	-1.13	-0.90477
PTPN22	-0.83125	-1.0961	-0.82977
FAM162A	-1.0273	-1.4133	-1.0363
BMP2	-1.3278	-1.7518	-1.5182
PTBP2	-0.96986	-1.2108	-1.0389
B3GNT5	-1.1279	-1.3908	-1.1848
CTSS	-0.80724	-0.92388	-0.7754
PDE8A	-0.97547	-1.1125	-0.93935
NTN4	-0.97889	-1.1168	
EPS8L3	-0.9541	-1.1097	-0.92742
N4BP2L2	-0.84107	-1.0611	-0.74325
C7	-1.868	-2.3406	
UBL3	-0.85626	-1.0728	-1.3121
SEMA4G	-1.0321	-1.2672	-0.98328
CCDC68	-1.6135	-1.996	-1.4418
ZBTB16	-1.3137	-1.6321	
TTL7	-1.3282	-1.6485	-1.1797
RETREG1	-1.7699	-2.0726	-1.4152
NDUFA1	-0.8257	-0.9139	-0.62347
RALGAPA1	-1.3652	-1.6722	-0.96826
ACADV1	-0.81804	-0.98155	-0.55823
KLRC3	-0.87473	-1.0496	
ASPA	-2.5368	-1.9151	
MGLL	-1.4691	-1.109	-1.3373
MPC1	-1.1334	-0.86136	-0.78012
RPS6KA5	-0.73962	-0.57154	-1.2827
NXPE1	-3.3993	-2.6266	
UGT2B17	-4.688	-3.4586	-2.8185
HNF1A-AS1	-1.5932	-1.4944	
ZCCHC24		-0.73871	-1.258
NBEAL1	-2.1507	-1.5081	

RWDD3	-0.92484	-0.60664	-0.64994
FMO5	-1.9811	-1.3372	-1.2428
TST	-1.57	-1.0264	-1
PDE3A	-2.4647	-2.4489	
RASSF7		-0.74438	-1.4969
GPM6B	-1.5629	-0.98926	
MGST3	-1.4147	-0.89492	-0.79857
MAPK3	-0.94343	-0.63911	-1.3005
ABCG2	-3.766	-2.5544	
BMP5	-2.6476	-1.8422	
TMEM220	-1.2604	-0.87584	-1.0721
ERBIN	-0.9589	-0.97066	-0.81411
IL18	-1.2402	-1.1604	-0.92429
EPHA7	-1.4066	-1.6052	
DTNA		-1.041	-1.0276
BRWD1	-0.87207	-0.84065	-0.67466
DST	-1.389	-1.18	
PCSK7	-0.8926	-0.75828	-0.72293
ETHE1	-1.7988	-1.4813	-1.1251
IHH	-1.0247	-0.82535	
PTPRH	-1.1712	-0.9433	-1.0387
TMEM100	-2.5147	-2.0238	
HAPLN1	-1.8165	-1.5334	-1.7427
HPGDS	-2.7475	-2.3179	
ITGA8	-1.6105	-1.3617	
ABCA6	-2.0923	-1.7675	
OXR1	-1.1642	-0.95012	-0.97328
TFCP2L1	-2.1301	-1.805	-1.451
OCLM	-1.3682	-1.1645	
CERK	-0.97377	-0.82799	-0.79237
CHPT1	-1.2331	-0.99622	-0.90968
GUCA2B	-3.4452	-2.81	
PNISR	-0.88114	-0.7188	-1.6958
CAT	-0.68956	-0.61965	-0.73298
USP53	-1.3546	-1.2174	
TTC14	-1.1511	-1.0473	
CD163L1	-2.0963	-1.9071	-1.2231
CNNM4	-1.2685	-1.174	
ATG4D	-0.80048	-0.74057	-0.65136
IFT57	-1.1341	-0.99801	-0.71603
PLEKHF2	-1.1593	-1.0019	-0.72497
EFNB2	-1.0085	-0.87816	-0.66484
TESK2	-1.1618	-1.0264	-0.80199

MALAT1	-1.0429	-0.92449	
LINC00597	-1.7624	-1.5604	
RAB9A	-0.80236	-0.70996	
DBNDD2	-0.88709	-0.77548	-0.7812
ZNF226	-0.82104	-0.64507	-0.95345
CCL15-CCL14	-1.5856	-1.2439	
SST	-2.4337	-3.0184	
TNRC6A		-0.6756	-1.8484
LRRFIP2	-1.2681	-1.1143	-1.0501
ME3	-0.85062	-0.73693	-0.92312
GLP2R	-1.4625	-1.2664	
TPD52	-0.97466	-0.68683	-0.84584
LCMT1	-1.1432	-0.81366	
UGT1A9	-1.9745	-1.406	
RSRP1	-1.3924	-0.9934	-1.2656
RPL5	-0.83787	-0.60595	
BCL2L11	-0.74001	-0.53596	-0.63064
TNFRSF17	-2.8065	-2.0851	
TRAPPC10	-0.64917	-0.48235	-1.4917
ZFP3	-1.7006	-1.263	
NOSTRIN	-1.4634	-1.0832	-1.2802
STAP2	-1.3043	-0.95582	-1.0682
ATP23	-0.98375	-0.72675	-0.80444
LGALS4	-1.2525	-1.0126	-1.1179
TSPAN1	-1.5139	-1.2067	-1.3026
ADAMDEC1	-3.5344	-3.0876	-3.2849
RMDN2	-2.015	-1.7167	-1.8576
EPHX2	-1.8792	-1.518	-1.8989
PLPP3	-0.76089	-0.64136	-0.76202
DHRS11	-2.4398	-1.8428	-2.1712
MAPRE3	-1.8331	-1.4265	-1.7424
BEST2	-2.3388	-1.8077	-2.1549
MYO7B	-0.79241	-0.8036	
GABRE		-0.60857	-2.5193
SLC17A4	-3.562	-3.17	
ABCA8	-3.4526	-3.0743	
PPARG	-1.5331	-1.1119	-1.4295
HRCT1	-1.4924	-1.0824	
TRDMT1	-0.73452	-0.73837	
TCF21	-1.3888	-1.3967	-1.177
TSPAN7	-3.0511	-2.8267	-3.0149
PLA2G10	-2.9742	-2.9254	-2.7357
ATP2A3	-1.0709	-1.0712	-1.3897

IGK	-2.0065	-2.0064	
PLEKHA6	-0.82771	-0.81065	-1.5057
SLC30A10	-2.5346	-2.4838	
NEDD4L	-1.4856	-1.4202	-1.4381
AKR1C2	-1.933	-1.7717	-1.6224
REPS2	-0.64775	-0.62404	-0.6067
SLC13A2	-1.1073	-1.0339	
ZNF256	-0.98662	-0.92133	-0.9648
ARHGAP21	-1.0816	-1.0054	
RSPO2	-1.2535	-1.1662	
CYGB	-0.62976	-0.58463	-0.86801
UGP2	-1.54	-1.546	-1.4054
MMP28	-1.2033	-1.2074	
SULT1A2	-1.8689	-1.9175	-1.7518
RNF152	-1.4628	-1.5034	
MON2	-0.8059	-0.8523	-0.98324
EXT1	-0.61409	-0.73412	-0.80173
EZH1	-0.76163	-0.90449	
PIP5K1B	-1.0909	-1.2953	-1.2539
CLK4	-0.93665	-1.0955	-1.2447
MPC2	-0.60299	-0.71658	-0.73709
C4orf19	-0.98718	-1.064	-1.0969
LGALS2	-3.4119	-3.7581	-3.2269
FGF7	-0.77484	-0.85702	
ARHGAP17	-0.66716	-0.7384	-0.66412
TDP2	-1.1783	-1.2891	-1.4609
RIOK3	-0.64246	-0.70102	-1.6824
CPA6	-2.0279	-2.2117	
WSB2	-0.54475	-0.60952	-0.69176
KLF4	-2.0579	-2.3522	-2.2836
SENP7	-0.75117	-0.846	-0.81961
CPNE8	-1.8661	-2.1241	-2.018
SMPDL3A	-1.9738	-2.1362	-2.0156
CKB	-2.1845	-2.4245	-2.2933
NAAA	-0.91286	-1.1146	-1.0607
SLC9A9	-0.7469	-1.2512	
FAM83E		-0.69455	-1.1553
ABRACL	-1.217	-1.5874	
LSP1	-0.04818	-1.1298	-0.76519
PRIMPOL	-0.16027	-1.0884	-0.94202
AKR1C1	-1.0042	-2.5063	-2.3924
PELI1	-0.43606	-1.0362	-0.95388
SVIL	-0.38896	-1.1941	-1.1449

LMOD1	-0.40901	-1.5941	-1.4261
FNBP1	-0.4386	-1.3989	-1.1656
EVI5	-0.40847	-1.0191	-1.2834
KCNMA1	-1.0016	-2.4665	
CMAHP	-1.729	-2.422	
ANKRD12	-0.80098	-1.1231	-1.6542
GIPC1	-0.87351	-1.2516	-1.2502
WNK4	-0.74406	-0.97461	
SLIT3		-1.3969	-0.9923
TRPC1	-0.65767	-1.049	
ADAMTS1	-0.67298	-1.1024	-1.018
SDHD	-1.1759	-1.8458	
TMCC3	-0.6424	-1.0079	-1.3694
FGD4	-0.7446	-1.112	-1.0335
BCL2L2	-0.36042	-0.77462	-0.82939
PER3	-0.69637	-1.3788	-1.5461
ADAM32	-0.7208	-1.4209	
NEUROD1	-0.91299	-1.7273	
RAB40B	-0.31529	-0.59832	-1.4776
RTL8C	-0.93282	-1.7595	
LMO3	-1.0109	-1.9018	
LGI1	-0.62332	-1.037	
CYP4F11	-0.74384	-1.2402	-1.1492
FRZB	-1.6297	-2.8383	-1.7284
PER2	-0.66759	-1.165	
ERN2	-0.6724	-1.1735	
CRACR2A	-0.98118	-1.7152	
LPAR1	-0.95596	-1.78	-1.4408
VAMP2	-0.60101	-1.1132	
B3GALT5-AS1	-1.4718	-2.7277	
FAM13B	-0.55678	-1.0076	-1.1385
DOCK10	-0.49768	-0.86205	-0.90362
DUSP1	-0.9283	-1.4642	-1.5116
HLF	-0.62274	-1.0166	-1.0756
VPS36	-0.48184	-0.76984	-0.82222
FHL1	-1.6776	-2.2739	-2.5014
IGF1	-1.0722	-1.4663	-1.7953
FXYD1	-1.071	-1.5509	-1.8658
KAT2B	-0.62763	-0.90294	
ZNF655	-0.74111	-1.0673	-1.1596
ZNF440	-0.79232	-1.1131	-1.4736
ITLN1	-2.9287	-4.0582	-4.6751
B3GNT7	-2.3388	-3.2412	

RCAN2	-0.88707	-1.3149	-1.4737
ST6GALNAC6	-1.7045	-2.596	-2.9576
REV3L	-0.51003	-0.83435	-1.2744
TPPP3	-0.95918	-1.5632	
HMBOX1	-0.3662	-0.59753	-1.7223
C1orf21	-0.62285	-1.0052	-1.4757
TBRG1	-0.43059	-0.64995	-0.96875
MCTP2	-0.91526	-1.1189	
INPP5J	-0.60999		-1.5006
ADH1B	-2.5726	-3.6845	-5.1976
SHROOM3	-0.66394	-0.90866	-1.3699
TSC22D1	-0.56573	-0.7816	-1.1595
KDM4C	-0.54151	-0.69766	-1.09
CXCL12	-0.91871	-1.1635	-1.7199
STIM1	-0.37368	-0.78558	-1.0541
BTBD7	-0.33079	-0.61871	-0.79916
AKAP7	-0.86849	-1.4925	-1.92
BTA1F1	-0.63913	-0.80823	-0.90038
STMN2	-2.0882	-2.5229	-2.9992
MCOLN2	-1.7378	-2.1688	-2.5064
DNASE1L3	-2.2877	-2.6587	-3.3644
SPATA20	-0.68895	-0.80826	-1.055
FNBP4	-0.56345	-0.72536	-0.92437
PDK4	-2.2591	-2.7467	-3.5992
CCNL1	-1.3515	-1.65	-2.1734
WSB1	-1.0509	-1.282	-1.6172
ZG16	-3.8325	-4.7748	-6.0792
GHR	-1.2625	-1.5937	-1.4496
ZNF767P	-0.85081	-1.0749	
C2orf88	-2.137	-2.7431	-2.9893
TP53INP1	-1.0968	-1.4011	
TOM1L2	-0.61974	-0.79257	
CARF	-0.80099	-1.0202	-1.3405
PMS2CL	-0.98186	-1.2508	
STARD10	-0.74358	-0.89142	-1.2544
KRCC1	-1.2709	-1.4847	-2.0803
CASD1	-1.4608	-1.6115	-2.3376
KLHDC1	-1.4378	-1.5944	-2.3329
PTGER4	-0.83198	-0.93022	-1.514
RAB30	-0.9447	-1.0899	
ARGLU1	-1.1637	-1.3424	-1.9746
BCHE	-1.2546	-1.4479	
ATO1H1	-1.5424	-0.31025	-3.3011

ATP2B1	-0.73244	-0.10271	-1.4811
PAPSS2	-1.023	-0.13853	-2.068
MT1H	-1.2264	-0.39616	-2.663
TDRD7	-0.72193	-0.21764	-1.4886
STX16	-0.79209	-0.16336	-1.9424
PDGFRA	-0.59866	-0.15982	-1.3604
CHN2	-0.96301	-0.25204	-2.2597
TMC4	-0.63059	-0.14912	-1.4878
TTC37	-0.76442	-0.25918	-2.0133
EYA2	-1.6699	-0.10564	-3.9289
STPG1	-0.77759	-0.09326	-1.7653
HIC2	-0.67431	-0.06277	-1.9083
PFKFB2	-0.87942	0.037211	-1.3582
KIFAP3	-0.93732	-0.07708	-1.5761
VILL	-0.90511	-0.10704	-1.6605
ROCK2	-0.75746	0.024473	-1.3742
SLC51A	-1.7103	-0.02067	-3.1199
ETNK1	-0.76719	0.086196	-1.4408
SLITRK6	-1.3448	0.21899	-2.6032
ZNF253	-0.71308	0.23788	-2.0855
MB	-0.79473	-0.10761	-2.7851
C1orf210	-1.0851	-0.06399	-3.9775
PPFIBP2	-0.88697	-0.33148	-1.571
ABCD3	-0.77496	-0.24122	-1.299
NGEF	-0.67285	-0.2112	-1.1403
CDS1	-0.71617	-0.13652	-1.2536
FCRL5	-0.67807	-0.16804	-1.1988
CGN	-0.7324	-0.13935	-1.3732
SEMA5A	-1.691	-0.82863	-3.8074
KLK1	-1.2034	-0.5116	-2.5994
EXPH5	-0.74013	-0.30956	-1.5882
ZNF595	-1.1162	-0.48878	-2.5273
PTP4A1	-0.71835	-0.39128	-1.6835
CCDC122	-0.68666	-0.39652	-1.6337
KDM6A	-0.71797	-0.38132	-1.5452
OGT	-0.74976	-0.41452	-1.6708
DCAF6	-0.60773	-0.32806	-1.3508
MTM1	-0.99976	-0.70262	-2.023
KMT2E	-0.99398	-0.7352	-2.0772
CHGB	-1.4567	-0.89159	-3.0203
CXCL14	-1.7895	-1.1478	-3.7098
CDH17	-0.79556	-0.55105	-1.8299
CNGA1	-0.6458	-0.27174	-1.2989

PRAP1	-1.2291	-0.54615	-2.4877
EPB41L3	-0.94271	-0.41099	-1.7924
METTL7A	-1.7903	-0.88598	-3.4268
CROT	-1.2697	-0.60098	-2.387
MT1A	-0.9442	-0.42683	-1.9076
P2RX1	-1.3206	-0.59659	
ANPEP	-2.6815	-1.447	-4.4711
PCDH20	-1.6327	-0.90859	-2.7677
EDN3	-1.8284	-0.98155	-3.2356
GOLGA8A	-1.4968	-0.76122	-2.6405
LRRCC1	-0.93304	-0.53564	-1.684
ACADM	-0.86807	-0.32354	-1.2592
ADH6	-1.2184	-0.5173	-1.8378
CNNM2	-0.77781	-0.33691	-1.2277
SLC25A20	-1.0709	-0.33465	-1.4623
SH3BGRL2	-0.98163	-0.28776	-1.3593
NRIP1	-0.62551	-0.196	-0.92622
ESRP1	-0.74612	-0.2088	-1.0883
SPAG1	-0.7666	-0.17047	-0.91845
VPS8	-0.61402	-0.1233	-0.6925
GPD1L	-1.4112	-0.4541	-1.6876
SCP2	-0.96535	-0.30011	-1.2211
CMAS	-0.84505	-0.28023	-1.08
C7orf31	-1.6239	-0.52973	-2.0663
PLS1	-0.95346	-0.16258	-1.328
SLC25A13	-0.87917	-0.13535	-1.2146
BTBD3	-0.81296	-0.13263	-1.0689
CORO2A	-1.0686	-0.14388	-1.5584
TMEM168	-0.62559	-0.08128	-0.94808
RASSF3	0.092668	-0.69835	-1.3502
MT1X	-0.20927	-0.823	-1.983
ZNF362	-0.14848	-0.70335	-1.601
SCG2	-0.22697	-0.68044	-2.08
ADGRD1	-0.18205	-0.64973	-2.1017
MYH11	-0.57776	-2.1042	-2.7832
ST3GAL4	-0.52504	-1.6923	-2.3096
DES	-0.53587	-1.7566	-2.3015
SYNE1	-0.2183	-0.70859	-0.94092
SYNC	-0.15927	-0.72821	-1.1851
CLEC3B	-0.53427	-1.1547	-2.3375
SLIT2	-0.65925	-1.4272	
PRAC1	-1.0893	-3.151	-5.494
CD69	-0.32795	-0.96086	-1.923

ELL2	-0.21818	-0.77808	-1.6058
WFDC2	-0.66301	-1.5282	-3.7193
BLOC1S1	-0.85981	-1.9822	
CFLAR	-0.53323	-0.73156	-3.4492
MTRF1	-0.6178	-0.60838	-2.8078
PKIB	-0.66316	-0.37551	-3.8939
LEFTY1	-0.77417	-0.45765	-4.3233
EPB41L4B	-1.381	-0.81524	
QPRT	-0.83883	-0.20653	-2.6142
ZNF493	-0.80876	-0.32514	-2.7228
BARX2	-0.70031	-0.40446	-1.8492
ECI2	-0.63761	-0.34624	-1.8088
ANXA13	-0.96954	-0.68751	-3.1302
NDNF	-0.73841	-0.53685	-2.3972
MATN2	-0.69428	-0.4282	-2.2351
PDZK1	-0.75406	-0.4107	-2.6804
SCIN	-0.97514	-0.63692	-3.8347
ZDHHC23	-1.0471	-0.68302	
LYVE1	-1.2254	-2.3933	-6.5297
ZNF383	-0.51729	-0.68981	-2.4166
ADH1A	-1.4598	-1.9783	-4.2778
MIR22HG	-0.94099	-1.2746	
CCDC146	-0.80775	-1.0888	
PYY	-1.8069	-2.5966	-5.3806
GNAO1	-0.77674	-1.1158	
NAP1L2	-1.2328	-1.1829	
CHP2	-2.3869	-2.2896	-6.3525
GNE	-0.91561	-0.85707	-2.8291
PIK3CG	-0.8184	-0.98801	
AIFM3		-0.77916	-3.3734
ZNF321P	-1.1913	-1.2876	
CNST	-0.859	-1.0346	-2.7498
HECTD4	-0.689	-0.77328	
CBFA2T2		-0.77185	-2.2049
R3HCC1L	-0.76606	-0.85822	
MICU3	-0.64349	-0.72089	
ZNF587	-0.80365	-0.72319	-2.0028
KLF9	-0.75863	-0.60548	-1.9172
CDKL1	-0.80401	-0.63663	
SLC25A36	-0.72968	-0.57667	-1.8912
CD79A	-1.0248	-0.76528	-2.7841
ZNF700	-0.67299	-0.51617	-1.8518
FHDC1	-0.72727	-0.49156	-1.8817

PDK2	-0.63163	-0.49133	-1.8155
ZNF789	-0.82064	-0.68955	-2.4644
CHGA	-3.0976	-2.6868	-5.3967
PCF11	-0.82116	-0.71299	
SCAND2P	-0.7525	-0.6531	
AGAP11	-1.8985	-1.6493	
TCEA3	-1.1291	-1.0234	-2.8897
IL18RAP	-0.72308	-0.65526	
PPP1R36	-1.0811	-0.96347	-3.3697
ZNF83	-0.94079	-0.82836	-2.8345
SLC18A2	-1.0146	-0.89319	
TTR	-0.89861	-1.1188	-2.5713
SOS2	-0.96609	-1.2097	
MTSS1	-0.62808	-0.78657	-2.2102
VIPR1	-1.2423	-1.3393	-3.4293
VIP	-1.6188	-1.9348	-4.7789
DMXL2	-0.78528	-0.92492	-2.2765
DMTF1	-0.95633	-1.1653	-2.9335
MUC4	-1.4508	-1.9275	-3.6879
RIMKLB	-0.78236	-1.0395	
DENND3	-0.4069	-0.6922	-1.5568
PPTC7	-0.37311	-0.60579	-1.3707
ZNF429	-0.61171	-1.0015	-2.2469
ACVRL1	-0.91253	-1.2749	-1.8756
PRKG1	-0.63537	-0.88851	
CEP85L	-0.6716	-1.1045	
CHFR		-0.83729	-1.9322
NKTR	-0.69805	-0.94677	-2.3982
CCL8	-0.94699	-1.2871	
RBM5	-0.66093	-0.86992	-1.8713
TP53INP2	-0.73595	-0.9508	-1.9354
PPP1R3C	-0.73172	-1.158	-2.0573
RETNLB	-1.3729	-2.1443	-3.7982
SH3BGRL	-0.4856	-0.83849	-1.4873
USP6	-0.46511	-0.82095	-1.4408
TLE4	-0.55401	-0.85662	-1.8866
ABI3BP	-1.0078	-2.1561	
PRADC1		-0.97432	-3.0596
CLIP4	-0.71451	-1.1115	
TAS2R19	-1.1242	-1.5339	
PILRB		-1.1291	-2.4206
WIPF3	-1.0808	-1.2794	
PDE9A	-2.0335	-2.3414	-4.3896

PDGFD	-1.1661	-1.2546	-2.8132
FOS	-0.75213	-0.82244	-1.727
CD177	-2.405	-2.6572	-5.5758
DMD	-1.6254	-1.8433	
INTS6L	-1.6473	-1.8666	-3.8065
CDC42BPA	-0.83889	-0.84393	-1.8016
SPINK5	-1.0253	-1.0775	-2.3811
AAK1	-0.65461	-0.66223	
SYTL2	-2.0384	-2.0627	-3.0846
RBM39	-0.76872	-0.73416	-1.5285
XFLT1	-0.71421	-0.68223	
ESRP2	-0.63746	-0.58027	-1.3262
GALNT12	-0.68848	-0.7849	-1.5227
MICALCL	-0.85988	-0.95259	-1.847
DEFB1	-1.9063	-2.0257	-3.3565
FLVCR2	-0.99436	-1.0575	
ZZEF1	-1.0849	-1.1517	
CPM	-2.3815	-2.0976	-3.7219
HAND2-AS1	-0.76132	-0.67138	
VAV3	-1.1074	-0.96953	-2.6574
CA4	-3.321	-3.0614	-5.4695
RASD2	-1.2177	-1.121	
MGAT4B	-0.8685	-0.87004	-2.4113
MTMR11	-1.812	-1.7194	
CES3	-1.2571	-1.1923	-4.0702
PTPN21	-0.64898	-0.60175	-1.4659
ATP5MD	-0.9013	-0.84067	-1.7091
ARMCX4	-0.66913	-0.62399	
PGM1	-0.7358	-0.3478	-0.75818
ACADS	-1.2323	-0.59072	-1.237
SLC39A5	-2.4861	-1.216	-2.4544
MT1G	-2.6366	-1.3649	-2.4736
CEACAM1	-2.4741	-1.2332	-2.2006
NOVA1	-1.6257	-0.80956	
AMACR	-0.73442	-0.36298	-0.79017
PBLD	-2.2853	-1.1161	-2.1975
FSIP2	-2.3621	-1.1499	
MALL	-1.8353	-0.75509	-1.4469
FMO4	-1.5645	-0.67995	-1.4195
UGDH	-1.5367	-0.63282	-1.6876
SLC4A10	-2.2673	-0.93362	
NUBPL	-1.1408	-0.46933	-0.97629
TTC38	-1.0698	-0.45296	-0.87453

HMGCL	-1.1397	-0.53018	-1.013
SATB2	-1.8044	-0.81638	-1.7554
ABCC13	-2.244	-1.0235	
CYP4F12	-2.4795	-1.2495	-2.1164
NTAN1	-1.0553	-0.51574	-0.88231
LRMP	-1.7108	-1.2887	
LLGL2		-0.7159	-1.6442
PLPP1	-1.1977	-0.70574	-1.4385
SUGCT	-1.7536	-1.0312	
AMPD1	-2.609	-1.4846	
ABCC3	-1.6643	-0.94718	-1.9895
NDUFA5	-0.78166	-0.48621	-1.0937
SLC9A2	-1.7208	-1.0713	
CDHR2	-2.0394	-1.2857	-1.8019
FUCA1	-1.6911	-1.1443	-1.5501
CFAP44	-1.5827	-1.0114	
MYORG	-1.0383	-0.66381	-1.2038
PCK2	-0.82358	-0.32996	-0.95127
DDC	-1.4065	-0.61365	-1.6514
PDLIM1	-0.61649	-0.27244	-0.75419
SLC22A18AS	-1.3991	-0.60089	-1.569
LYRM7	-0.66147	-0.28591	-0.71263
ID1	-2.0658	-0.71772	-2.3117
NR1I2	-1.2317	-0.43023	-1.468
PRKG2	-2.0781	-0.76244	
TINAG	-2.3434	-0.84691	-2.6636
GPAT3	-1.8133	-0.67679	-2.1561
ZNF10	-0.89866	-0.35093	-1.2189
HPSE2	-1.5568	-0.60814	
CMBL	-1.3885	-0.51738	-1.3799
MOGAT3	-1.5648	-0.58887	-1.5198
FLNB	-0.81291	-0.14836	-0.796
SMAP1	-1.3393	-0.35017	-1.263
HEPH	-0.70654	-0.22225	-0.72299
ETFDH	-1.615	-0.47074	-1.7339
TGFA	-0.98315	-0.2911	-1.0755
C5orf30	-1.2021	-0.35903	-1.3079
LGR4	-0.77683	-0.23213	-0.87372
GOLM1	-0.99109	-0.22582	-1.0568
C1orf115	-1.3407	-0.34193	-1.4243
USP2	-1.9374	-0.68767	-1.7138
MKKS	-0.95211	-0.33528	-0.86136
SLC35F5	-1.1668	-0.40686	-1.044

STX19	-1.8378	-0.6264	-1.6615
TMPRSS4	-1.0177	-0.18239	-0.86276
MICAL2	-0.8074	-0.937	
CD9		-0.61993	-0.92527
ITPRID2	-0.67966	-0.65542	
SOGA3	-1.1673	-1.5328	
MED13L		-0.68926	-1.4272
MAST2	-0.72853	-0.7153	-0.97747
ETFA	-0.89768	-0.9992	-1.1823
AFF1	-0.62441	-0.66002	-1.006
SLC22A23	-0.93626	-0.98976	
GBA2	-1.0844	-1.0807	-1.5295
MXD1	-1.284	-1.3695	
SIPA1L2	-0.9847	-1.05	-1.6385
SLC2A13	-0.98441	-1.1065	
RCOR3		-0.84689	-1.2011
CHL1	-1.2959	-1.2782	
FAM160A2	-0.92587	-0.91216	-1.3578
PLCL2	-1.0523	-1.0054	-1.385
BCLAF3	-1.2281	-1.1737	
MFSD11	-0.81093	-0.78154	-0.98769
KIF13B	-1.099	-1.0021	-1.2354
B4GALNT3	-1.0797	-0.9849	
PXMP2	-1.1356	-0.91146	-1.2304
WIP1	-0.93846	-0.77178	-0.99535
PRDM5	-0.9522	-0.81202	
FAM177A1	-0.87734	-0.74819	-0.98325
SLC46A3	-1.1397	-0.97411	-1.2368
FABP2	-3.2262	-3.0135	-3.3986
SLC36A1	-1.0195	-0.97066	-1.1122
MRPS36	-0.98809	-0.89395	
FAM3D	-2.1767	-1.9672	-1.7061
MYO15B	-1.5119	-1.5149	
LENG8		-1.1553	-1.5938
CA1	-6.8774	-6.0196	-8.2817
TMED6	-0.64229	-0.64317	-0.99752
IGLL5	-1.0999	-1.3202	
HSPA2		-0.75292	-1.712
SGK1	-2.5674	-2.478	-2.7092
CAPN9	-1.3816	-1.333	
PIWIL4	-1.2045	-1.1621	
PRKCD	-0.82114	-0.70909	-1.1292
ACTR3C	-0.8374	-0.72148	

MARCKS	-0.93154	-0.83254	-1.2972
MYSM1	-0.92479	-0.82697	
AMN	-1.221	-1.0896	-1.679
AHSA2P	-1.6768	-1.4369	-2.4262
LINC01559	-1.743	-1.4931	
PTGDR	-1.9219	-1.2922	
VSIG10	-0.90673	-0.61004	
PLCE1	-2.6307	-1.7667	
ODF2L	-0.71254	-0.4778	-1.2479
SRI	-2.0442	-1.2485	-1.7189
FABP1	-5.2724	-3.524	-4.5926
SCN9A	-2.2837	-1.5724	
ATP13A4	-1.9238	-1.3248	
HHLA2	-3.2975	-2.2692	-3.5962
SLC51B	-4.5575	-3.1358	
ADH1C	-4.6659	-3.2049	-5.7292
NR5A2	-1.6915	-1.162	-2.0847
PLAGL1	-1.6886	-1.165	-2.1394
HERC4	-0.66995	-0.45941	-0.84507
HSD11B2	-2.89	-2.0406	-3.0912
CLCA4	-7.1793	-5.0649	-7.8496
SLC26A3	-7.516	-5.4504	-8.7922
PLEKHG6	-1.4845	-1.048	-1.731
PIP5K1A	-0.68116	-0.48948	-0.77594
PSD3	-1.105	-0.81685	-1.283
ARL14	-2.8613	-2.1087	-3.2838
TTC39B	-0.63187	-0.42126	-0.75189
DHRS9	-3.2586	-2.1552	-3.1886
MISP	-1.2043	-0.78308	-1.0528
GPR52	-0.94728	-0.61633	
GRAMD2B	-1.6255	-1.086	-1.6956
MOGAT2	-1.4244	-0.9516	
AHCYL2	-2.0456	-1.352	-2.2264
MEP1A	-3.7161	-2.4469	-3.7829
ZNF137P	-1.3372	-0.85002	
MIER3	-2.1701	-1.3794	
C10orf99	-3.9196	-2.4972	-3.3497
ANKRD13A	-0.59799	-0.37786	-0.80261
PCK1	-3.5251	-2.1817	-3.7634
SUCLG2	-1.4261	-0.89204	-1.541
CHKA	-1.5125	-1.0961	-1.3314
CWH43	-4.4039	-3.241	-3.913
PRKAA2	-1.7374	-1.2539	

PAQR8	-1.1921	-0.85928	-1.3047
TPSG1	-0.8422	-0.60346	-1.1197
CAMK2N1	-1.3031	-0.9347	
CDX1	-1.0562	-0.83925	-1.1972
SMPD3	-1.3975	-1.1116	-1.6215
NXPE4	-5.2461	-3.9562	-5.9801
ACSS2	-1.4045	-1.0662	-1.6287
LRRC31	-1.6616	-1.2842	-1.9224
FGFR2	-1.3761	-1.0937	-1.8809
AKAP5	-1.4017	-1.4786	
CLHC1		-0.80724	-1.8037
ZNF347	-0.98215	-0.80237	-1.5627
GOLGA8B	-1.491	-1.2175	
SRGAP1	-0.94297	-0.76109	
OTOP2	-3.7762	-3.0501	-3.117
RAPGEFL1	-1.8669	-1.4428	-2.2901
RNF125	-1.2915	-0.99083	-1.6549
SLC26A2	-4.9558	-3.6721	-6.2851
CES2	-1.9522	-1.4335	-2.4859
PDE7B	-1.5106	-1.1087	
TRPM4	-0.84988	-0.62103	-1.2133
SLC44A1	-0.89414	-0.66324	-1.2743
EFHC1	-0.8729	-0.64763	-1.2565
RPS6KA6	-2.8097	-2.1215	
BEST4	-3.3541	-2.5323	-4.1535
VDR	-1.065	-0.66195	-1.2919
ZNF417	-0.78222	-0.48147	-0.93309
PRKACB	-2.5345	-1.3625	-2.4362
BDH1	-0.67493	-0.35256	-0.81388
CCDC89	-1.1192	-0.58647	
AVIL	-1.3591	-0.72374	
PGAP3	-0.84586	-0.44958	-1.0151
CEACAM7	-4.3436	-2.3482	-4.5269
RDH5	-1.3503	-0.76203	-1.4237
GDPD3	-1.7184	-1.0077	-1.8454
ADTRP	-3.5283	-2.0685	-3.7854
ITM2C	-1.8465	-1.0799	-1.9157
PCSK6	-0.78813	-0.43457	-0.9189
LRRC1	-1.0357	-0.5374	-1.1944
PPP1R14D	-2.0207	-1.127	-2.4464
GLTP	-1.3294	-0.70178	-1.5856
URGCP	-0.5969	-0.32049	-0.73166
GUCY2C	-1.7386	-0.96959	-2.6417

RASSF6	-1.097	-0.61476	-1.64
COL17A1	-1.5644	-0.83779	-2.4672
PRR5L	-1.487	-0.80263	-2.3641
KLC4	-1.0577	-0.57325	-1.6615
ACADSB	-0.61951	-0.36806	-0.9679
AICF	-2.299	-1.3384	-3.5698
RPS6KA1	-0.73861	-0.40984	-1.1924
ZNF141	-1.5491	-0.87877	-2.4158
STYK1	-1.1842	-0.65791	-1.8972
ZNF334	-1.2445	-0.69148	
CLCN2	-1.4109	-0.84552	-2.2896
AQP8	-4.7625	-2.7314	-6.8933
BDKRB2	-0.61768	-0.35735	-0.89767
ACAT1	-0.93209	-0.52994	-2.0383
EBLN2	-1.8411	-1.0472	
DGKA	-0.78071	-0.48666	-1.3836
ZNF224	-0.65659	-0.39602	-1.0968
ADCY6	-0.88355	-0.58128	-1.515
FASTKD1	-0.99567	-0.6374	-1.672
PLCG2	-0.91312	-0.57576	-1.6644
ABCC5	-1.1298	-0.74503	
PAQR5	-1.5631	-1.0299	-2.4781
ENTPD5	-2.0979	-1.3582	-3.4386
CLYBL	-1.2281	-0.78626	-1.9949
TRPA1	-1.858	-1.2639	-3.0656
MZB1	-1.2202	-0.8466	-2.0158
RHPN2	-0.66782	-0.45238	-1.1181
PRKAR2B	-0.87403	-0.61008	-1.53
AKAP9	-1.1276	-0.80566	-2.0083
BAZ2B	-0.8928	-0.63931	-1.4963
NADSYN1	-0.83005	-0.59402	
EIF4G3	-0.83262	-0.5847	-1.4412
RPL10L	-2.2159	-1.141	
UGT2A3	-4.9503	-2.5528	-5.7718
ALDH1A1	-1.1452	-0.56504	-1.8672
PLCD1	-1.3627	-0.66999	-2.2234
GCNT2	-1.8862	-0.90103	
PDCD4	-1.7061	-0.81571	-2.7369
ASTE1	-0.78789	-0.37143	-1.1548
SLC3A1	-1.7493	-0.84427	-2.464
CA12	-2.4062	-1.256	-3.5321
IMPA2	-1.011	-0.52227	-1.4438
RNLS	-1.4664	-0.64912	-1.9725

NAALADL2	-1.7698	-0.73848	-2.382
SOSTDC1	-2.4641	-1.1821	-3.1321
PCTP	-0.63754	-0.31481	-0.82901
SELENBP1	-2.9268	-1.5889	-3.7769
ANKRD9	-1.0322	-0.54342	-1.3073
ARPIN	-0.72715	-0.36509	-0.89087
EDNRB	-1.5027	-0.95974	-2.1349
ZNF350	-1.1962	-0.76387	-1.6802
AOC1	-1.8764	-1.2154	-2.7092
HPGD	-2.8227	-1.8801	-3.3054
WDR78	-1.7269	-1.1495	
NDRG2	-1.3051	-0.86989	-1.8078
ZNF649	-0.85926	-0.58795	-1.1505
CLCA1	-4.9446	-3.2151	-6.3037
TRAK2	-1.1917	-0.71369	-1.5169
PIGZ	-1.7286	-1.0039	-2.2074
DYRK2	-1.1976	-0.72544	-1.7472
ADAM28	-1.783	-1.0082	-2.4965
ACSF2	-2.1779	-1.5011	-3.2963
CYP3A4	-1.035	-0.67197	
NIPSNAP3B	-1.1096	-0.71985	
PCCA	-1.2641	-0.82187	-1.3877
BMX	-1.444	-0.9557	
MYO1A	-1.8362	-1.2149	-1.8151
UBE2A	-1.1631	-0.77037	
GPR21	-1.3405	-0.88964	
SGK2	-2.8442	-1.8882	-2.4785
HHIP	-1.9821	-1.317	
HMGCS2	-4.2472	-2.7179	-5.0436
PRKAG2	-0.76676	-0.85238	
FBLIM1		-0.78745	-1.3691
CHD9	-0.6146	-0.65664	
DENND5B	-0.87298	-0.92067	
LIFR	-2.3229	-2.4478	
TOGARAM1	-1.1491	-1.2098	-2.8142
PRPF39	-0.59818	-0.59625	-1.0838
ST6GALNAC1	-1.3119	-1.2973	-2.5824
C2orf40	-1.7162	-1.6952	
LPP	-0.71021	-0.71526	-1.2374
ALKBH7	-0.76123	-0.76709	
SELENOP	-2.9228	-2.8467	-3.7674
APPL2	-1.475	-1.4067	-1.4356
ST6GALNAC3	-0.76028	-0.72527	

MINDY1	-0.89388	-0.85697	-1.5857
KIAA1147	-1.2753	-1.2219	
KIAA1109	-1.05	-1.0052	
REV1	-0.72189	-0.72062	-1.3826
TRPM7	-0.61261	-0.611	-1.1417
ABCA5	-1.9378	-1.8364	-2.85
ZNF248	-1.08	-1.0216	
WASL	-0.72195	-0.64952	-1.2317
JCHAIN	-3.4148	-3.1118	-4.6926
LUC7L3	-1.4785	-1.3512	-1.5461
CPEB2	-0.78661	-0.71868	
GUCA2A	-4.807	-4.3775	-7.7924
P2RY14	-1.4873	-1.3593	-2.3916
CIPC	-0.76047	-0.7104	-1.2397
PHYKPL	-1.0319	-0.96655	-1.7683
CA2	-3.9037	-3.428	-4.3743
THRB	-1.3935	-1.2236	
CCNT2	-0.72477	-0.6227	-2.0045
ATAD2B	-1.656	-1.4229	
PARM1	-1.0679	-0.90736	-1.7605
HEPACAM2	-3.6635	-3.1471	-4.6956
SLC30A4	-0.9752	-0.86602	
FOXP2	-1.686	-1.4972	
SEMA6A	-2.5593	-2.2729	-2.3173
CCL19	-1.2968	-1.1676	-1.9467
KRT20	-3.8683	-3.5477	-5.9138
DAPK2	-1.0682	-0.93057	-1.5918
ZNF461	-0.80966	-0.88946	
RCAN1		-0.62945	-1.3811
MLH1	-1.3979	-1.3163	-2.0934
SKP1	-1.0574	-0.99516	
PADI2	-2.4556	-2.151	-3.8906
TP53TG1	-1.0416	-0.87061	
PLEKHA5	-0.79378	-0.6644	-1.5943
TCIM	-1.5872	-1.3754	-2.8466
SLC4A4	-3.7153	-3.024	-2.9843
TRIM40	-1.2165	-0.98786	
MS4A12	-5.8771	-4.7533	-7.2133
GAB1	-1.2185	-0.98704	
ANKRD36B	-1.0576	-0.85667	
VPS13A	-0.72063	-0.58415	-1.4333
AK3	-0.77576	-0.62062	-1.6054
RAVER2	-1.3802	-1.1044	

MPP7	-1.2254	-0.98005	
NUDT12	-0.77054	-0.61235	-1.5173
CCDC14	-1.3094	-1.0153	
LRRC19	-3.3609	-2.6072	-4.4338
RHOU	-1.1639	-0.9075	-2.6315
SLC38A11	-1.6039	-1.2496	
CALML4	-0.81631	-0.6541	-2.0607
DENND1B	-1.0105	-0.80947	
PHOSPHO2	-1.4383	-1.1522	
VSIG2	-2.5537	-2.1199	-4.6037
ARHGEF38	-0.9514	-0.78991	
TRPM6	-3.8454	-3.1973	
LYST	-0.62645	-0.5062	-1.0468
MS4A2	-1.1694	-0.96131	-1.5863
PDE1C	-0.78896	-0.64701	
CDHR5	-1.5684	-1.1802	-2.7227
HAVCR1	-1.9035	-1.4784	
SLC25A23	-1.008	-0.78309	-2.5493
NPHP3	-1.0768	-0.79816	-2.1154
BCAS1	-2.3372	-1.7534	-3.4027
ARHGAP42	-1.3847	-1.0363	
SCARA5	-1.3471	-1.0092	
CAMK2D	-0.68875	-0.52368	-1.326
FAM107B	-0.88177	-0.68182	-1.7058
CLIC5	-1.3829	-1.0638	-2.3984
ELF4	-1.0703	-0.8238	
SORBS2	-1.3168	-1.0242	-2.3749
SKAP2	-0.67048	-0.50813	-1.1471
KHDC4	-0.94122	-0.716	-1.6011
PLXNA2	-1.0504	-0.77913	-1.5403
PPARA	-0.6332	-0.43827	-1.4091
TMEM98	-1.3075	-0.90524	
KIAA0513	-0.83418	-0.6366	-1.3061
SMIM14	-0.96219	-0.75071	-1.5659
FCGBP	-2.8281	-2.1662	-4.2039
HKR1	-0.75345	-0.57061	-1.2043
PIGF	-1.0724	-0.81185	
PDZD3	-1.6819	-1.2823	-2.2298
FHL5	-0.65986	-0.59251	-1.1844
SLC22A5	-1.5279	-1.3331	
EPM2AIP1	-1.4304	-1.2493	-2.8915
SPIB	-1.9047	-1.6665	-2.9948
PID1	-1.2675	-1.1091	

VAMP8	-0.7856	-0.59896	0.045873
KLF6	-0.85801	-1.3208	-0.28824
ABL1	-0.64226	-0.98672	-0.19803
LAMTOR3	-0.6157	-0.95435	-0.19435
RAB5B	-0.75052	-1.3534	-0.13342
NIPSNAP3A	-0.86283	-1.5463	-0.30536
CASQ2	-1.1097	-1.9894	
GSTM2	-1.3217	-1.5965	-0.26749
KIT	-1.5407	-1.7856	-0.28642
B4GALT4	-0.63821	-0.82188	-0.09404
RASA2	-0.60869	-0.73853	-0.10562
DGKD	-0.71314	-0.86269	
RAB32	-0.83029	-1.0054	-0.1171
ENOSF1	-0.58538	-0.7065	-0.09035
NR3C1	-0.69558	-0.8503	-0.07978
TPM1	-0.83396	-1.246	-0.05888
COP1	-0.7807	-1.2038	-0.08069
COX20	-0.91799	-1.4391	-0.12682
GAS6	-0.7134	-1.035	-0.10361
CBWD3	-1.9706	-2.9705	-0.37819
DCTN2	-0.62109	-0.80034	-0.03287
TRIB1	-0.6449	-0.84525	-0.05103
RIC1	-0.65648	-0.86182	
CPED1	-1.1568	-1.5184	
PPP1R2	-1.0652	-1.024	-0.05109
VDAC2	-1.1914	-1.2082	-0.10845
AKAP10	-0.62898	-0.64866	-0.06459
COX6C	-1.1994	-1.1116	0.035241
SLC35D2	-1.0109	-1.026	0.024605
HINT1	-1.3477	-1.571	0.021056
PREX2	-0.73628	-0.85848	
CREBRF	-0.73827	-0.81382	0.042917
PIM1	-0.59168	-0.65817	-0.04924
SPAG9	-0.64579	-0.72657	-0.01649
MRPL41	-1.2751	-1.3731	-0.02072
TNFAIP8L3	-0.80997	-0.87198	
SGCE	-0.63692	-0.92772	0.054928
CFD	-1.1068	-1.5124	0.075282
GSN	-0.92576	-1.2276	0.13976
NEGR1	-1.0086	-1.3387	
SCGN	-1.9103	-2.4499	
DTWD1	-0.77395	-0.99316	0.1369
B3GNT3	-0.76673	-0.81679	0.1088

RBMS3	-1.0109	-0.96231	0.1962
COX6B1	-0.75521	-0.89879	0.25963
EIF4B	-0.94914	-1.2223	0.31719
ANAPC15	-0.6189	-0.80994	0.23373
CD48	-1.2611	-1.5527	0.32067
CASP5	-1.4461	-1.7054	0.47784
GREM2	-1.9667	-2.3267	
PRKY	-0.71824	-0.89786	
SECISBP2L	-0.66144	-0.82677	
CHIC2	-0.79719	-0.99574	0.18013
MFSD4A	-1.5665	-1.9566	
JAML	-0.79683	-1.0593	0.21197
APOD	-0.87885	-1.6414	0.047763
FKBP1A	-1.1766	-2.3986	-0.00622
LRMDA	-0.5883	-0.98629	0.057412
CFL2	-0.72427	-2.2496	-0.02457
MCEE	-0.73323	-0.72769	0.40206
AP4S1	-0.87517	-0.8716	0.5586
AS3MT	-0.97344	-0.96979	
EVI2A	-0.67048	-0.77205	0.36075
PAG1	-1.2847	-1.2421	
GPR15	-2.1514	-2.0837	
ORMDL1	-1.1136	-1.0805	0.68753
RHOC	-0.60532	-0.63163	0.30298
NEDD9	-0.96192	-1.0444	
CLEC2D	-0.95836	-1.0404	
CYB5R4	-0.79193	-0.86127	0.39833
LAMA2	-0.88139	-0.68011	0.56715
EDIL3	-2.1461	-1.6543	
MRPS18C	-0.66951	-0.85998	0.52248
AKR7A3	-1.1208	-1.0689	0.72217
RALGPS1	-0.78252	-0.75224	0.68158
TTLL6	-1.4155	-1.3604	
CXorf21	-0.94675	-0.9096	
TBC1D32	-0.91179	-0.87612	
FBLN1	-0.60555	-1.4016	0.76266
NDUFA4	-0.80934	-1.5442	0.59264
UXT	-0.67407	-1.3669	0.6651
NBEA	-0.72862	-1.4598	
AMY2B	-1.9898	-2.8062	0.69556
MORN2	-0.6426	-0.90602	
TAS2R20	-1.1263	-1.5919	
MBTD1	-0.72209	-0.93167	

HIGD2A	-1.0311	-1.3303	0.47999
FGL2	-1.1232	-1.5654	0.37464
LUZP2	-0.65735	-0.91548	
FOSL2	-0.68679	-1.2161	
CAB39L	-1.0567	-1.8746	
GABARAPL2	-0.64927	-1.1472	0.44124
CD209	-0.88582	-1.6124	0.4232
MYOCD	-1.0203	-1.8627	
SRPX	-0.62134	-1.3061	0.96589
ATL1	-0.6521	-0.77979	0.66035
RPS19	-0.11451	0.84891	0.85121
NIPAL3	-0.15937	0.61462	0.91741
KRTAP21-1	-0.12189	1.0047	1.3006
UBE2C	0.045127	0.92045	1.4263
MFAP1	0.37001	0.8424	1.0258
NMRAL1	0.32119	0.79611	0.96853
SRXN1	0.23491	0.74674	0.92146
WDR12	0.23849	0.94434	1.0067
TMEM102	0.15652	0.70895	0.73336
ICMT	0.18015	0.63823	0.89106
GPKOW	0.14025	0.65941	0.88215
G6PC3	0.15725	0.72701	0.99021
ADO	0.12531	0.716	0.85457
MSN	0.80692	-0.42635	1.4479
SRGN	0.73357	-0.59649	1.3117
CD74	0.60127	-0.45393	1.6267
TYROBP	0.76573	-0.66814	2.4689
SERPING1	0.84346	-0.35643	1.7629
NNMT	0.76861	-0.34223	1.6891
TGFB3	0.82444	-0.39976	1.8875
PLA2G7	0.80045	-0.41217	2.2369
BHLHE40	0.83632	-0.43017	2.1032
GAL	1.0422	-0.42199	2.6064
COPZ2	0.61304	-0.57814	3.3082
AEBP1	0.79403	0.2417	1.4499
ENO2	0.89657	0.29129	1.6712
MMP12	2.8953	0.89216	5.0549
CTSB	0.82242	0.20801	1.4847
ETV5	1.1115	0.27472	2.024
CXCL3	1.7856	0.43452	3.4247
CTSL	1.0501	0.29568	1.7506
ICAM1	1.4324	0.42518	2.2955
IFITM2	0.80266	0.20698	1.2533

LPCAT1	1.3394	0.33822	2.1344
AQP9	2.7582	0.48417	4.7783
MEIS2	0.61998	0.068421	1.0865
LYZ	1.3442	0.18928	2.4259
NFKB2	0.70284	0.11815	1.2686
CCL18	2.2389	0.28259	4.1419
SUPT4H1	0.89595	0.085885	1.6575
ALOX5AP	0.73896	0.2141	1.6618
CBR3	1.387	0.40852	3.1551
NCF2	1.6126	0.40228	3.2728
MFAP2	1.7171	0.40761	3.5269
SLC43A3	1.0342	0.24714	2.1604
DYRK3	1.2639	0.35059	2.5814
SDR16C5	1.1977	0.35211	2.4824
WASF1	0.60971	0.097229	1.3216
DDIT4	0.92828	0.14162	1.9739
SLCO4A1	1.0402	0.19076	2.1972
TMEM45A	1.1135	0.16335	2.5513
FBN1	0.80293	-0.1383	1.4084
C3	1.1837	-0.19229	2.2035
FCER1G	1.522	-0.3025	2.9113
DEGS1	0.71695	-0.14852	1.3063
PFKFB3	0.85282	-0.21982	1.6064
LAPTM5	0.7621	-0.0819	1.4188
GPR137B	0.81518	-0.11089	1.8774
C1orf162	0.67472	-0.11324	1.4234
HLA-DRA	1.1577	-0.05303	1.9179
RAB31	1.2275	-0.01617	1.9694
PLXND1	0.60387	-0.02511	0.93615
SLCO1B3	1.9452	-0.10683	3.3747
NCALD	0.89176	-0.03049	1.5771
GFPT2	1.0925	-0.1301	1.7544
ANTXR1	0.75829	-0.0754	1.246
MCUB	1.2649	0.03722	2.2312
MPP6	0.79632	0.0108	1.1783
ANXA1	0.72415	0.011543	1.5877
MNDA	1.5153	0.004208	3.2415
GUCY1A1	0.67584	-0.01742	1.3884
CD68	0.79646	0.061946	1.5783
PLA2G4A	0.75251	0.044798	1.4997
PKN1	0.70487	-0.0135	1.7254
CTSK	0.83622	0.099316	2.2493
DRAM1	0.90046	0.079235	2.4312

SPARC	1.1914	0.065413	2.8997
SEC22C	0.6714	0.045456	1.5661
SLC1A3	1.3592	0.14049	3.383
BATF	0.74993	0.098241	1.8977
TLR2	1.027	-0.06103	2.7931
GOLT1B	0.68211	-0.03743	1.9885
PARVB	0.59441	-0.1394	1.72
SLAMF8	0.79206	-0.15736	2.0336
GSDME	0.93235	0.17874	2.673
IFI30	1.0033	0.17546	2.9523
CHST11	0.60981	0.14527	1.8304
ELOVL5	0.85472	0.17556	2.2649
SERPINA3	1.0129	0.089986	3.038
IKBIP	0.78671	0.029684	2.3553
PLSCR3	0.59515	0.025954	1.9333
DBN1	0.59381	0.14651	2.1745
PLA1A	0.70094	0.090691	2.2748
HAVCR2	0.80216	0.12052	2.5665
TREM2	1.0906	0.25699	3.5104
EVA1A	0.8931	0.18637	3.0433
SKAP1	0.86587	0.27685	2.6343
TWSG1	0.88599	0.31983	2.9401
S100A8	1.6457	-0.6786	5.8966
GPX7	0.63488	-0.23706	1.8285
MEDAG	0.66679	-0.33085	2.0879
S100A9	1.2541	-0.24757	4.9358
RARRES3	0.70924	-0.09734	2.2273
SMIM3	0.61016	-0.04959	2.0571
PLEKHO2	0.63587	-0.16135	2.2727
CAVIN1	0.73437	-0.15017	2.4606
HILPDA	0.60536	-0.04108	2.6006
CERCAM	0.62601	-0.02767	2.7456
APOBEC3G	0.58615	0.075342	2.3237
LILRB3	0.72093	0.26789	2.7828
ADGRE2	0.66214	0.27063	2.7552
GNLY	0.84347	0.29844	4.1556
HOPX	0.59541	0.15649	3.4744
ACTN1	0.94196	0.29398	1.4488
LAMC1	0.60308	0.20076	0.89673
BCL2A1	1.5495	0.59236	2.4402
ISLR	1.3442	0.48148	2.0744
YBX3	0.91257	0.32768	1.3839
COL1A1	2.7069	1.0905	3.7433

GZMB	2.1145	0.83012	3.7828
OLR1	2.546	1.0071	
LIMS1	0.88573	0.36595	1.4388
SFRP4	2.6913	0.9625	3.7578
MME	1.4497	0.58258	1.7655
THY1	1.7552	0.66631	2.1699
VNN1	2.4783	0.8437	3.1307
CHRNA5	0.96768	0.41103	1.2442
PKM	1.2183	0.53048	1.5652
SERPINB5	2.6057	1.1513	3.2996
SIM2	1.3345	0.59539	
ZNFX1	0.60953	0.26613	1.0198
LBH	0.6076	0.27395	0.89087
CASP4	0.93005	0.19211	1.0782
CYBB	1.0042	0.2738	1.2358
IGFBP7	0.81486	0.052779	1.0858
ITGAX	0.86629	0.11983	1.24
TGDS	0.71929	0.1229	0.97407
HIST1H4D	1.2328	0.2912	1.6284
LCP1	0.75755	0.19355	1.118
SLC2A3	1.659	0.3952	2.3453
NUAK1	0.93637	0.19562	1.3545
HOMER1	1.407	0.39051	1.9214
PRDX4	0.68046	0.18901	0.98085
RWDD2A	0.99348	0.28117	1.3988
SERPINE1	1.595	-0.06545	1.9517
SEC24D	0.8168	-0.00587	0.95451
PLEK	1.289	-0.17016	1.5008
MSANTD3	1.3714	-0.1261	1.5172
GREM1	1.4946	-0.12728	1.3872
CFI	1.2876	1.2622	1.5956
AGT	0.96268	0.90263	1.1947
GPI	0.64377	0.61186	0.78994
PODXL	1.1857	1.0781	1.4294
LIPG	0.97515	0.91343	1.163
COL4A2	0.84559	0.71755	1.0676
KCNJ15	1.0373	0.88046	
GBP1	1.4323	1.2297	1.4961
PARP9	1.2158	0.98768	1.2288
PDCD2L	1.0735	0.87944	1.1368
FUT1	1.0403	0.94136	1.1331
MTHFD2	1.3565	1.2534	1.4936
LCN2	1.9639	1.8586	2.0312

IPO5	0.80057	0.79448	0.87981
PLS3	1.1898	1.137	1.099
SLC43A1	0.85316	0.81665	
PBK	1.0886	1.049	1.1535
COL6A3	1.3951	0.96524	1.4424
CALU	1.3407	0.79476	1.3284
FAP	3.3959	2.1563	3.4886
IFIT2	1.4289	1.0706	1.6762
STAT1	1.3729	1.0596	1.6247
CXCL11	4.0305	2.9595	4.5736
HSPA5	1.062	0.75977	0.89168
PCNA	0.88938	0.60116	0.77188
PLOD1	1.1216	0.82322	1.085
CXCL5	2.0756	1.5005	2.2728
TMPRSS3	2.0474	1.4799	
MYDGF	0.92994	0.65666	1.0222
RB1	0.82593	0.65474	0.71488
PCDH17	0.86714	0.68933	
MRPL9	0.75305	0.59887	0.72691
COL1A2	2.1824	1.018	2.3601
RCN1	1.0247	0.50538	1.1322
LYN	1.1766	0.48338	1.2284
TYRO3	0.79618	0.3229	0.78385
IDO1	1.8721	1.0693	2.3265
PHKA1	0.70984	0.39096	0.81954
APOL1	1.5739	0.81861	2.0735
ADAM12	2.7645	1.3205	
IFI44	1.1748	0.55688	2.5297
HAPLN3	1.3098	0.5959	1.5394
HNRNPD	0.5891	0.34747	0.78347
PPT1	1.2227	0.6901	1.6195
TAP1	1.1736	0.7025	1.6553
CXCL16	1.389	0.805	1.9286
CD44	1.3985	0.74852	2.1825
CXCL8	3.7336	2.072	5.3349
MMP7	3.4225	1.9035	5.024
MAD2L1	0.88722	0.50582	1.3417
GSTO1	0.66362	0.37931	1.0078
EIF5A2	1.3653	0.74927	2.073
SNTB1	1.0395	0.62291	1.6831
H2AFZ	0.78566	0.51248	1.2901
RDH11	0.74443	0.50524	1.2407
OAS3	1.3396	0.81786	2.0909

MTHFD1L	1.2131	0.73377	1.859
SERPINB9	0.63395	0.40264	1.0699
TDO2	0.87377	0.56426	2.3966
AJUBA	1.9461	1.2575	
P3H1	1.2342	0.77939	1.8877
DARS	0.81803	0.53228	0.92731
EPB41L2	0.64726	0.42099	0.79001
UBE2L6	1.6613	1.1152	2.039
CHI3L1	2.6314	1.9771	3.6609
CXCL9	3.4558	2.3195	4.6438
TGFBI	1.7043	1.1024	2.268
SULF1	2.479	1.7161	3.219
PIK3R3	1.3019	1.0846	2.1591
SPP1	4.1283	3.2731	6.3635
MMP14	1.2197	0.93303	1.8352
GDF15	1.3864	1.0584	2.0746
ERO1A	1.1697	0.90604	1.8347
CYP27B1	0.70575	0.58881	
CXCL1	2.2371	1.867	2.5361
GALNT6	0.80393	0.66146	1.3625
SELE	1.7078	1.3781	2.467
IFIT3	2.5616	2.1384	2.4457
PLA2G3	0.84965	0.70959	
PIWIL1	2.5412	2.0873	
ZBED2	0.74193	0.60873	
CAVIN3	0.62646	0.51358	1.8559
LONP1	0.60757	0.55548	0.99041
CTPS1	0.99403	0.67715	1.4278
LAMP3	1.1288	0.80121	1.6016
ANXA3	0.99437	0.68202	1.5084
MAP3K20	1.3295	0.94727	2.0844
NMI	0.67692	0.48168	1.008
PARP14	0.88361	0.62193	1.3149
SKA1	1.5487	1.1094	2.3311
KDEL3	1.557	1.4248	2.3081
SRP68	0.62806	0.52076	0.95126
FXD5	1.2424	1.0472	1.7685
EPHX3	1.0761	0.90727	
MMP1	3.3337	2.8119	4.1846
HSPA4L	2.3281	1.9387	2.9015
FAM57A	1.2015	0.97949	1.3824
PNPLA3	1.2042	0.9941	
ELOF1	0.58714	0.48527	1.0665

DCTD	0.65182	0.70773	0.8571
CDC6	1.3684	1.4894	1.9036
TIMELESS	0.82842	0.88667	1.1691
ETV4	1.7065	2.0009	2.1573
KIF14	0.98927	1.1839	
SUPT16H	0.84755	1.0143	1.1682
DNMT1	0.65979	0.74073	0.86344
SLC6A14	2.5079	2.9317	3.4071
XPOT	0.86039	0.99497	1.1468
GARS	0.53688	0.65024	0.70938
KCND2	0.62981	0.76283	
PRSS35	0.61764	0.74823	
CEP55	1.3478	1.5679	1.5349
PRPS1	1.0734	1.406	1.8809
HSPA8	0.69054	0.83141	1.15
ENO1	0.73744	0.88991	1.2781
CCT3	0.70549	0.87149	1.2366
UTP25	0.65746	0.8202	1.1566
KIF2C	1.1599	1.4432	
CDCA4	0.94708	1.1767	1.7097
CSTF2	0.62903	0.90319	0.94164
SUV39H1	0.70077	1.0226	1.0495
FEN1	0.88666	1.241	1.3235
INTS2	0.58047	0.79367	0.83475
GNS	0.49316	0.67966	0.78521
CHEK1	1.1261	1.5796	1.74
ASNS	0.86999	1.1717	1.0946
MGAT5	0.69821	0.93929	
RRM2	1.4497	1.9682	2.0322
WDCP	0.58522	0.77768	0.90606
FANCB	0.5931	0.78602	1.3896
STC2	0.95367	1.2656	
MYEOV	1.0447	1.3863	
PRPF8	0.58824	0.76308	0.92723
RCC2	0.85385	1.1029	1.3478
LYAR	0.91	1.1791	1.3125
IFITM1	0.87575	1.2785	1.4018
SMR3B	0.86962	1.2695	
ANLN	1.5207	1.6983	1.8225
SND1	0.62487	0.70697	0.78234
PJA1	0.95086	1.0364	1.1604
FANCI	1.0752	1.3175	1.3611
SHCBP1	1.3608	1.6866	1.836

ANP32E	1.2465	1.5156	1.6692
CDC20	0.95951	1.7571	1.9082
NUP93	0.52514	0.94773	1.06
SPON2	0.35587	0.63591	0.71588
RUVBL2	0.59749	1.0184	1.2138
KIF1BP	0.47057	0.87313	1.0173
AURKB	0.51543	1.0826	1.2332
MCAT	0.39313	0.8669	0.95944
NEIL3	0.61203	1.2284	1.3809
TRMT6	0.30842	0.63367	0.74805
LPCAT2	0.43568	0.87429	1.0472
PPP4C	0.41855	0.64368	0.78293
TMEM161A	0.53898	0.82391	0.995
CCT7	0.67179	1.037	1.237
CDC48	0.70538	1.0739	1.2487
MRTO4	0.70023	1.1074	1.3994
CDC25B	0.78278	0.96108	1.6136
BST2	1.4954	1.7453	2.8877
YARS	1.0554	1.2339	1.9898
CCND1	0.48587	0.60864	1.0972
CCNB1	1.4106	1.6235	2.1703
GLG1	0.87817	1.0128	
REG1A	4.1338	4.6815	7.7927
PSMB2	0.49947	0.5854	1.2123
EIF2B2	0.59171	0.67504	1.2168
SRM	0.67045	0.67737	1.1978
REXO2	0.59582	0.63725	1.1347
IL24	0.68405	0.68874	
SLC39A6	1.1482	1.1573	1.7004
TIPIN	0.85227	0.86542	1.6293
ANGPT2	1.4611	1.4421	2.8373
CCL20	1.3585	1.2962	2.5698
LMO4	0.62315	0.58975	1.1981
PLEKHS1	1.3973	1.2424	2.5022
PPID	0.67802	0.716	0.98373
REG1B	4.1736	4.4627	6.2132
PRMT5	0.75905	0.82551	1.1085
ACLY	0.60374	0.6063	0.88319
IL1A	2.0469	1.9251	
GJA4	0.69286	0.65122	
EPHX4	1.6888	1.5878	2.1651
E2F7	1.0319	0.96912	
TBCD	0.61145	0.61036	1.0079

SELL	1.2959	1.2807	2.1088
MAD2L2	0.92765	0.90915	1.4956
KCTD14	0.71093	0.69696	1.1464
ALG10	0.77049	0.74903	1.2704
TUBG1	0.72549	0.77316	1.2687
MMP3	3.4539	3.6922	5.6122
TRIP13	1.3769	1.5748	2.2291
CFB	1.6073	1.7965	2.0386
RFC1	0.62805	0.68732	
ACBD5	0.76211	0.83386	
KDELC1	0.69023	0.75389	0.87029
PARK7	0.52471	0.60036	0.90291
SRPRB	0.63883	0.71881	1.0747
GTSE1	0.65856	0.77306	1.1951
TRIM5	0.87014	1.0305	1.5351
SHMT2	1.371	1.8481	2.584
FNTB	0.59309	0.74828	1.1998
EPRS	0.86641	1.1443	
SERF1A	0.89976	1.1883	
MCM10	1.139	1.5048	2.0284
HIST1H2BO	0.71707	0.94024	
NFXL1	0.45819	0.60058	1.1609
CDCA5	0.7983	1.1044	1.6544
XPO5	0.66118	0.85875	1.2595
ZG16B	0.71183	0.93474	1.3507
FLT1	0.68748	0.96499	1.3067
PCLAF	0.63454	0.9148	1.2305
PIMREG	0.67062	0.95104	1.3181
TGFB2	0.58528	0.81276	
ERI1	0.6906	0.96023	1.1676
DCPS	0.6118	0.88196	1.1459
OGFOD1	0.76388	1.0971	1.369
SCAMP3	0.29085	0.5888	0.90492
TMEM33	0.3477	0.69981	1.1097
RFC5	0.44474	0.81385	1.0304
KARS	0.44621	0.79128	1.0425
ACD	0.44272	0.73937	0.9903
PSMB7	0.32072	0.60676	0.83669
INTS7	0.52027	0.93519	1.304
POLE3	0.41918	0.75208	1.0547
GPT2	0.4249	0.7498	1.0933
OTUB2	0.61629	1.1405	
PTRH1	0.57093	1.0575	1.7787

CCDC43	0.34771	0.62506	1.0202
ERP29	0.34357	0.69797	0.98439
RPUSD3	0.33347	0.67125	0.97469
PLK1	1.0624	1.6119	2.6856
RUVBL1	0.77558	1.1468	1.9605
NAT10	0.61121	0.93746	1.6351
EIF3D	0.42321	0.58692	1.0712
FTSJ1	0.50985	0.72266	1.3361
MPV17L2	0.44577	0.64008	1.1574
WDR3	0.71469	1.0839	1.6305
DDX23	0.4663	0.7753	1.167
LMNB2	0.50493	0.80106	1.2335
MRFAP1L1	0.3863	0.63103	0.97185
GINS3	0.83789	1.3202	1.999
DIAPH3	0.7291	1.0339	1.6489
ATG101	0.49435	0.72727	1.1812
BUD23	0.53401	0.78693	1.2525
P4HA1	1.7631	0.71476	3.1608
IKBKG	0.65365	0.32801	1.253
CXCL10	3.4289	1.8043	6.2151
REG3A	2.0485	1.1072	3.4642
PDPN	1.6827	0.91949	2.9468
ALDOC	1.1308	0.52747	1.9326
ITGB2	0.94187	0.39331	2.1258
KRT80	1.5848	0.65934	
MORC4	1.3041	0.57419	2.0493
CDH5	0.66345	0.4949	1.1005
CHN1	1.1868	0.90413	2.0669
FADS2	1.8606	1.4913	3.1844
KPNA2	0.62125	0.5175	1.1495
PMAIP1	1.0273	0.86076	1.8653
EDNRA	1.6165	1.1944	3.0241
MMP10	1.4531	1.0905	2.7038
VCAN	1.1898	0.92766	2.2109
GPN3	0.62722	0.51055	1.1821
CDH11	1.0226	0.72378	1.7057
MMP9	1.4477	1.0328	
CHSY1	0.62367	0.44454	1.7376
CTHRC1	1.5738	1.1089	2.6629
GPX8	1.3894	0.9583	2.4571
MX2	0.70648	0.67951	1.5628
LAMC2	0.77341	0.7498	1.8095
EXOSC9	0.59085	0.5717	1.4247

CDH13	0.75789	0.67354	1.6765
GRIN2D	1.0468	0.92844	
WISP1	0.80663	0.71099	
SETD7	0.79371	0.69985	
EBF2	0.69434	0.61409	
PSMC3IP	1.0582	0.96664	2.1938
NME1	0.78657	0.65654	1.5347
GRINA	0.68447	0.58802	1.1793
CBX8	0.73503	0.63302	
CLDN2	1.6015	1.3609	2.6364
XRCC5	0.71185	0.61833	1.4506
IPO9	0.75468	0.65423	
TMEM52B	0.8156	0.70534	
IFIT5	0.74598	0.62007	1.4828
TSPAN5	0.78616	0.70281	1.5321
TNFSF15	1.0469	0.95522	2.0293
PHGDH	1.2402	1.1174	2.3916
FUT8	1.001	0.79165	1.7889
HOXC6	0.75484	0.59695	
ME1	1.1934	0.89068	2.3737
RIPK2	1.1023	0.84374	2.1754
RRP15	0.58833	0.45074	1.1749
MIF	0.62548	0.47221	1.4584
COL4A1	1.3924	1.0093	2.9922
PLA2G16	1.3571	0.97339	2.5816
LRRC8E	1.0368	0.74625	
PDGFRB	0.8202	0.61401	1.7702
PDZK1IP1	1.0959	0.8058	2.2708
PHLDA3	0.7834	0.5801	1.6433
SNX10	1.1148	0.79653	2.2673
UBE2T	0.79743	0.55726	1.5352
BLVRA	1.1876	0.71943	2.425
COL15A1	0.96745	0.61371	2.1036
ADAMTS2	1.0692	0.67742	
CDH6	1.2416	0.81189	
HERC6	0.9913	0.64699	2.0519
TIMP1	2.0846	1.2934	3.7813
WNT2	1.7892	1.2061	3.6616
ESM1	1.7854	1.2039	3.7017
PANX1	0.82067	0.55328	1.711
IFT22	0.89956	0.59244	1.8637
WARS	1.4914	0.98653	2.5429
C6orf223	1.3474	0.8913	

CNTD2	0.98542	0.65352	
PAPSS1	0.81438	0.69268	1.9745
KRT23	0.65464	0.60392	1.6243
DPEP1	1.0711	0.87528	2.3582
SRD5A3	0.78538	0.65172	1.7303
STC1	1.3095	1.1137	3.039
MFSD12	0.80885	0.6599	1.8425
C1QBP	0.4371	0.6597	1.3178
CENPA	0.41442	0.62773	1.2778
WDR34	0.56588	0.82846	1.7256
BYSL	0.43239	0.61911	1.3778
PSMB9	0.75464	1.0717	2.3924
TMEM101	0.45483	0.64294	1.3941
GNPDA1	0.54091	0.87778	1.9142
PRMT1	0.44415	0.67203	1.5886
SLC1A4	0.65805	0.901	2.1549
GLA	0.50378	0.69098	1.7426
VWF	0.64134	0.83183	2.1666
LY6E	1.5907	1.7967	4.3824
IFI6	1.3089	1.6411	3.8314
WDR76	0.82223	1.0118	2.3271
EBNA1BP2	0.66558	0.87363	2.0057
AUNIP	0.92529	1.1132	2.7017
BIRC5	0.91043	1.1954	2.2713
NFE2L3	0.65446	0.82888	1.6194
SLC16A3	1.1171	1.3832	2.7373
TACC3	0.61434	0.77141	1.533
POLR2D	0.5351	0.58692	1.3506
PGD	0.72493	0.80489	1.6939
RFC2	0.55851	0.62915	1.3477
RANGAP1	0.8386	0.93859	1.9321
PFKP	0.55925	0.61967	1.3916
SIRPB1	0.65239	0.72299	
CHPF	0.69055	0.73032	1.6349
PEMT	0.59993	0.72801	1.5233
SLC2A1	0.64063	0.73333	1.596
CYB5R2	0.68779	0.79657	1.7142
FAM83D	0.59128	0.68612	1.6411
OSTCP1	0.69755	0.80932	
RFX5	0.60268	0.66644	1.3249
KLK10	1.4808	1.6071	3.2835
ALKBH2	0.92728	0.9941	2.0305
CD82	1.2264	1.271	

RMI2	0.62103	0.64371	2.0366
COL8A1	0.60721	0.49652	2.2324
FPGS	0.59083	0.47156	2.2288
LDHA	0.60346	0.50812	2.1457
TYMP	0.86475	0.55305	2.9826
RGS16	1.0525	0.6647	3.5128
AGTRAP	0.71069	0.43501	2.3649
CPXM1	0.74267	0.38269	2.2884
SOD2	0.73785	0.42819	3.1489
FPR1	1.085	0.75879	4.3814
TTYH3	0.74831	0.51172	2.9081
DUSP4	1.8159	1.0103	4.0686
SNRPC	0.62174	0.27201	1.4203
TACSTD2	1.4204	0.7663	3.3911
DIO2	0.89112	0.45418	2.0528
FKBP10	0.90901	0.44453	2.0757
G0S2	0.91319	0.45582	2.1377
FADS1	1.5622	0.65374	3.223
SPCS3	0.66692	0.26138	1.2995
TNFAIP6	1.231	0.59289	2.5788
CSGALNACT1	0.82393	0.374	1.705
TMEM132A	0.9645	0.47132	1.9664
ANXA5	0.90173	0.24967	2.3096
CKS2	0.93092	0.29235	2.2533
SCRN1	0.81716	0.23545	2.0161
IL6	0.90275	0.31995	2.2917
RAMP1	0.69819	0.25215	1.8552
PRAF2	0.64437	0.23168	1.7261
FAIM	0.60975	0.2444	1.542
ACSL6	0.89882	0.40738	2.4247
TNFRSF10C	0.65309	0.33178	1.7492
NT5DC2	0.70028	0.34295	1.8489
FKBP7	0.64072	0.2902	1.6566
INHBA	2.0169	1.8185	5.3607
PLAUR	0.62564	0.65901	1.9348
TMEM237	0.62591	0.68304	1.8413
COL5A1	0.71239	0.55346	2.0008
ANXA9	0.70493	0.60144	1.9822
CDH3	2.9438	2.363	7.8797
PPIL1	0.77787	0.61881	2.1326
DUSP14	1.0792	0.90505	2.8884
CITED1	0.66802	0.61105	1.8893
MANF	0.60713	0.56746	1.8832

CENPL	0.69582	0.64857	
NCOA7	0.66935	0.60644	1.9165
CXCL6	0.8498	0.64015	2.5404
COL10A1	2.0627	1.3527	4.9172
STRIP2	1.0103	0.66181	
KYNU	1.0263	0.72199	3.249
TRIB3	1.1566	0.79668	3.6558
CHST14	0.63622	0.43789	1.8452
KCNJ8	0.88102	0.50968	2.8875
SAA4	1.2342	0.7106	
PTGES	0.68735	0.37549	1.767
DUSP10	0.8858	0.51416	2.324
UBD	2.3397	1.4742	5.6312
PLK2	0.83013	0.4901	2.074
GZMK	0.76447	0.47413	2.0627
EGFL6	1.4452	0.90194	
FAM89A	0.69657	0.43597	2.9224
TMEM163	0.75709	0.47708	1.9342
SAA1	1.4966	0.99745	4.02
FOXRED2	0.60583	0.40451	1.648
PHF19	0.75644	0.48996	2.0373
PLAU	1.3988	0.98251	2.9823
LINC00346	0.92401	0.64919	
FBL	0.083643	0.80919	2.0444
AKR1B1	0.31381	0.80798	1.787
PFAS	0.26741	0.58577	1.3675
MRPL17	0.32574	0.76732	1.7751
MRPL49	0.15177	0.69928	1.6571
POLR3K	0.27808	0.9409	2.1155
PFDN6	0.12157	0.66511	1.324
LAGE3	0.12535	0.60967	1.0963
POLR3H	0.19398	0.7362	1.4266
DNASE2	0.38642	0.74686	1.3816
SPOUT1	0.35942	0.70833	1.2914
CSRP2	0.37001	0.72248	1.2622
EXOSC5	0.41071	0.75263	1.3209
AATF	0.43165	0.74018	1.2766
H2AFX	0.34966	0.61302	1.2023
PSMD7	0.31153	0.58887	1.1508
MTAP	0.36098	0.74181	1.4573
WNT5A	0.61559	1.2139	2.4073
MANEAL	0.32636	0.61484	1.2475
CCDC34	0.35917	0.76479	1.5255

DPP3	0.25387	0.59828	1.2352
CENPO	0.4058	0.85797	1.8034
BANF1	0.34622	0.89153	1.5393
CLEC11A	0.27877	0.62988	1.8929
CLSPN	0.58656	1.3271	
SDF2L1	0.37074	0.80812	1.5469
NUP160	0.25894	0.61424	1.1952
PLEK2	0.25092	0.62598	1.2129
EIF1AD	0.24003	0.59664	1.1229
DHX9	0.24289	0.77227	1.3048
FAM207A	0.17223	0.69373	1.0708
MAPK8IP2	0.26143	0.72412	1.1054
WDR74	0.32287	0.87341	1.3262
MCFD2	0.33075	0.88063	1.4066
VGF	0.033053	0.59285	2.2373
FOXD1	0.4034	0.93714	3.5401
ISG15	0.38102	0.73296	2.5992
NSUN5	0.29407	0.83759	2.5788
TNFSF9	0.77435	0.77664	4.1365
CCNO	0.41803	0.58977	2.8295
IGF2BP3	0.3242	0.64104	2.9157
ULBP2	0.33828	0.59312	3.192
PAFAH1B3	0.47869	0.7016	1.9838
LIG1	0.44771	0.61227	1.7406
BCAP31	0.48272	0.629	1.7891
SERPINH1	1.0485	1.2838	
PCSK9	0.71912	0.88058	3.6373
PHLDA1	0.76362	0.91458	3.0033
PSRC1	0.55578	0.6383	1.9725
MMP11	0.85265	0.85317	2.779
WDR54	0.81343	0.79152	2.9448
CMTM7	0.63805	0.62401	2.2425
EZH2	0.38043	0.66654	1.9138
EXOSC4	0.34457	0.61989	1.6933
PSMC3	0.28788	0.6278	1.7956
TIFA	0.29783	0.62177	1.8185
CDC45	0.64042	0.92604	2.8517
RNASEH2A	0.59439	0.88431	2.7495
CCT5	0.67412	0.89773	3.0525
UBTD1	0.47462	0.66348	2.2801
BGN	2.1683	1.1213	0.90415
SCD	1.4831	0.33027	1.0408
TNC	1.7257	0.58423	1.1117

PGK1	1.0673	0.36139	0.73627
PCDHB10	1.7627	0.70734	1.0837
S100A11	1.9755	1.1659	1.5019
COL5A2	1.4206	0.83052	1.8154
TRIM29	2.5724	1.5095	
BACE2	1.3313	0.81452	1.1338
COL3A1	1.7687	0.82869	1.5518
ARNTL2	2.1697	1.0811	1.7635
STXBP1	1.4982	0.78145	0.92015
GRIN2B	1.0397	0.62518	
THBS2	2.5808	1.5546	
SKA2	0.95501	0.57724	1.0507
TNS4	1.9319	1.1787	1.1049
BMP4	0.58944	1.1945	0.61908
RCC1	0.6398	1.3737	0.77608
BUB1B	0.63707	1.3256	0.82794
DPAGT1	0.50855	1.0559	0.67693
RFC3	0.74486	1.6973	1.0399
PNPO	0.48561	1.4278	0.71945
ATIC	0.20158	0.90289	0.66361
ATP5PD	0.19008	0.80664	0.58573
TUBA4A	0.48921	1.3313	0.94418
RPS2	0.80533	2.128	
UMPS	0.27594	0.73444	1.0736
ARL6IP1	0.32868	0.85905	0.67963
SORD	0.4293	1.3472	1.1273
CSTF1	0.31291	0.75042	0.70002
PSMC5	0.27808	0.66574	0.64687
SGO1	0.45816	1.1914	1.075
TRAP1	0.5261	1.1281	1.0266
SPDL1	0.59286	1.2553	1.18
CDK2	0.69768	0.98144	0.74627
DHCR7	0.82427	1.3498	1.0943
MKI67	0.96632	1.5633	1.2389
DKC1	0.70087	1.1131	0.87155
DTL	1.3689	2.1398	1.6724
SLC31A1	0.64597	0.96611	0.80286
TK1	0.79674	1.1795	0.99025
NEK2	0.7898	1.1767	0.90851
KIF23	0.83027	1.2417	0.97636
EFTUD2	0.62386	0.90608	0.85998
DEPDC1	0.86871	1.2613	
WDR36	0.73129	1.0969	0.887

TP53	0.80744	1.2586	1.0475
GRPEL2	0.7321	1.1396	
HACD3	0.69364	1.0196	0.91835
MCM2	0.86169	1.1616	0.9821
AURKA	1.0218	1.3206	1.1412
GMPS	0.81031	1.1027	0.89017
NCAPH	0.98562	1.318	1.0793
SLC3A2	0.5393	0.75169	0.64924
CKAP2	1.0426	1.4197	1.2267
DDIAS	1.1117	1.5135	1.3396
INTS13	0.89433	1.2736	1.1131
CCT4	0.80626	1.1136	1.0501
FBXO5	0.90009	1.1695	1.1293
PSAT1	2.4532	3.2757	3.1171
TWNK	0.69315	0.94177	0.86398
CCNA2	0.85384	1.5006	1.0988
MTHFD1	0.79439	1.3428	0.9752
ORC1	0.6928	1.1712	0.89458
KIF4A	0.83596	1.4846	1.0121
RPS15	0.51254	1.0111	0.71795
CNN2	0.61643	1.1634	
TKT	0.54848	1.0366	0.8662
PSPH	0.41916	0.78606	0.62421
MELK	0.67681	1.2312	0.93478
CLCC1	0.47044	0.92022	0.69726
G3BP1	0.5773	1.0162	0.82027
PERP	0.69429	1.1556	0.97401
DLGAP5	1.0485	1.842	1.2761
PPY2P	0.65427	1.1491	
STT3A	0.668	1.2297	1.0492
CHAC1	0.63396	1.1652	
POLR1B	0.62115	1.1075	0.98765
AASDHPPT	0.53258	0.89391	0.80669
TIGD2	0.50475	0.87591	0.77376
SKP2	0.67986	1.3697	1.0997
RFWD3	0.56864	1.0832	0.87595
MRPS2	0.37219	0.79596	0.92902
TIGD3	0.67256	1.4379	
ASF1B	0.64326	1.4265	1.0937
PTPA	0.5044	0.84243	0.79059
SMC1A	0.77158	1.3124	1.2249
MICB	0.83578	1.4169	1.1938
HNRNPM	0.59944	1.0161	

CKAP5	0.69596	1.1839	1.1837
TBL2	0.4172	0.74228	0.71826
MCM5	0.69831	1.0572	1.0028
POLA2	0.6752	1.0201	0.94269
CHAF1B	0.97497	1.6319	1.7157
NUF2	0.63948	1.0351	1.1145
HPS3	0.50276	0.86167	0.92171
FTSJ3	0.57151	0.90143	0.9182
AARS	1.0824	1.4301	0.78561
KNL1	0.93164	1.2312	
CSE1L	0.8643	1.141	0.63508
UTP4	0.77819	1.0095	0.53972
CENPI	0.76722	1.1247	0.6313
NCAPG	1.2111	1.7225	0.98512
CDK1	0.84588	1.0826	1.6643
CST1	2.4666	3.1596	
PSMD5	0.76896	0.94423	0.7353
HSP90AB1	1.1202	1.4597	0.81062
OR1D5	0.82441	1.0765	
CEP97	0.71396	0.93167	
HMMR	0.82689	1.0488	0.73873
IFIH1	0.80695	1.0255	
PPAT	1.2454	1.4777	1.0804
SHISA5	0.85273	1.0262	0.72766
MCM6	1.0653	1.4607	1.0104
COLGALT1	0.673	0.94791	0.64368
NCL	1.0151	1.3053	0.66907
KBTBD6	0.60813	0.78275	
CDK5	0.63693	0.74105	0.46351
SLC7A11	2.0065	2.3077	1.4412
RSL1D1	0.90421	1.0773	
ENOPH1	0.88917	1.0612	0.64833
RAB29	0.76173	0.85512	0.62619
BUB1	1.4192	1.6005	1.0566
SSR1	0.88981	0.99913	0.64165
NOP14	0.71176	0.80257	
REEP6	0.92106	1.0385	0.57411
TMEM92	1.2735	1.4165	0.98697
PRC1	0.79651	1.2071	0.75379
NDC80	0.65995	1.0019	0.6341
PRPF4	0.8168	1.2737	0.86495
TOMM34	0.87283	1.3674	0.90137
TPX2	1.1216	1.7145	1.204

PARP1	0.89523	0.9567	0.84741
IGFBP3	0.74385	0.79318	
SEPHS1	0.61109	0.65193	0.6433
GJB5	1.0749	1.1359	
RAD51AP1	0.73706	0.77869	0.88093
LPGAT1	0.63366	0.70683	0.67246
KRTCAP2	0.65826	0.72906	0.67476
CANX	0.80676	0.95114	0.78407
UHRF1	1.0951	1.2472	1.0833
STIL	1.118	1.3587	1.1555
NUSAP1	0.93289	1.1662	0.96822
LDHB	1.0938	1.2151	1.2441
NOB1	0.92743	1.0173	1.0091
IL1B	1.801	1.8456	1.8291
LCK	0.62456	0.61702	1.3743
RAET1L	2.1263	2.1008	
PTTG1	1.6481	1.6402	1.7229
VSNL1	2.6012	2.6298	2.0437
HIST3H2BB	0.94109	0.95319	
SEC61A1	0.68233	0.69659	0.82901
TCN1	3.0693	2.5843	2.4229
FARSA	0.58501	0.62496	0.51435
RPA1	0.67089	0.71056	0.59152
ERCC6L	1.5158	1.461	1.2704
CEMIP	2.3995	2.3383	
TMEM109	1.0782	1.0513	1.2559
NUDCD1	0.91489	0.89249	
KIF18A	1.3958	1.3323	1.2635
SLC6A20	1.2584	1.2605	
TSR1	0.98711	0.98915	0.82348
MSX2	2.1084	1.0215	0.18464
COL11A1	2.114	1.4408	
LRP8	1.0751	0.73295	0.51452
PITPNB	0.84819	0.65451	0.2614
MYC	1.3241	0.83204	0.13183
FOXQ1	0.88345	0.6153	0.1456
GLS2	1.1553	0.87642	0.11017
SLC12A2	0.96117	1.077	0.24757
ENC1	0.96768	1.2014	0.24184
APLNR	0.75373	0.92674	
LRRC59	0.70856	0.87151	0.22264
DDX21	1.0964	1.3148	0.35558
NOP2	0.79406	0.7573	0.22377

ECT2	1.7063	1.6384	0.56837
EIF2S1	0.70877	0.68392	0.23018
PODNL1	0.73749	0.73056	0.2459
TNFRSF10A	0.6689	0.69181	0.061616
GART	0.8242	0.88643	0.15272
ARMCX3	0.71972	0.77881	0.13848
SLC6A6	1.4858	1.5283	
HIST1H4B	0.96484	0.99145	0.24771
GEMIN4	0.77209	0.82126	0.1763
TRIM16	1.0005	0.99738	0.17254
OR51E1	0.99488	0.99176	
RPL4	1.1762	1.0587	0.2029
TMED10	0.69793	0.6444	0.16316
TESC	1.9584	1.7893	0.43422
ATP6V1B2	0.61712	0.62835	-0.0186
SLC29A1	1.2066	1.2293	
BBX	0.75042	0.84964	0.033091
CDCA2	1.0684	1.1755	-0.00578
SLC7A5	1.2243	1.5699	0.042857
GTPBP4	0.67285	0.89481	0.055748
IQGAP3	0.60466	0.79332	-0.02841
HS6ST2	1.1969	1.4848	0.18287
ILF2	0.88911	0.64741	0.59719
IARS	1.0455	0.84295	0.72078
CXCR2P1	1.0668	0.85928	
OSM	1.183	0.95259	
ADAM9	0.90665	0.75941	0.64841
OAS2	2.0591	1.5962	1.1906
ACSL4	1.1097	0.84113	0.95444
HCAR3	2.5156	1.9042	
POLD2	0.85634	0.71956	0.44486
PUS3	0.81207	0.61758	0.31862
SLC4A11	1.0688	0.82466	0.4523
EIF2S3	0.82181	0.92103	0.53314
PGF	0.75862	0.85518	0.47242
PRPF19	0.59509	0.69542	0.36389
CBFB	0.92043	0.90424	0.71447
GJA5	1.0764	1.058	
AHSA1	0.66673	0.65813	0.48313
ATAD2	0.93954	0.96032	0.57842
VWA2	0.79757	0.81614	
PXYLP1	0.77334	0.73663	0.47488
CCNF	0.8532	0.99546	0.35636

NEBL	1.5876	1.7966	0.76899
TMEM97	1.1728	1.3057	0.52469
COPZ1	0.5942	0.61883	0.29732
LARGE2	0.80694	0.87381	0.40242
PDIA4	1.0527	1.0496	0.50361
ADGRF5	1.1949	1.1394	0.59732
PA2G4	0.6758	1.1136	0.54866
SSB	0.92457	1.5465	0.76404
KIF20A	1.1313	1.8408	0.99151
TTK	0.68837	1.3991	0.45487
PNP	0.62047	1.1106	0.41156
PCDHB14	0.931	1.58	0.66436
HIST1H1E	0.73774	0.9526	0.48688
HIST1H3A	0.8756	1.1041	0.57298
FPR2	1.1208	1.4287	
TEX10	0.6051	0.771	
HIST1H2BM	1.0777	1.3718	0.58411
PSMC2	0.68103	0.90576	0.38613
HIST2H2AB	0.81109	1.0231	0.42399
FAM72D	1.1951	1.465	0.64471
TFDP1	0.65552	0.90669	0.43546
RPA2	0.52574	0.75689	1.2531
CLDN1	2.7054	3.8926	
JADE3	0.64934	0.91163	0.48126
TMEM230	0.62546	0.91577	0.38445
CNOT9	0.62453	0.94864	0.38818
STIP1	0.80379	1.236	0.4918
BUB3	0.6662	0.93522	0.34473
ZWILCH	0.61805	0.8336	0.31245
WDHD1	0.93755	1.4957	0.52462
KIF11	0.98337	1.6739	0.35867
TECR	0.73316	1.1787	0.31061
HJURP	0.75266	1.1992	0.29783
ARHGAP11A	1.0221	1.5634	0.45318
WDR75	0.70065	1.0444	0.30235
PRR11	0.84026	1.302	0.35767
AP3M2	0.59981	0.90119	0.20291
RNF219	0.63924	0.93685	0.22747
SNAI1	0.86584	0.72396	-0.95814
FOXM1	0.73787	0.75782	-0.83194
NUP210	0.84939	0.85261	-0.83239
NMT1	0.82012	0.71954	
DPF2	0.79848	0.69706	-0.77607

OR52M1	0.73278	0.63887	
SYNGAP1	0.66171	0.7713	-0.86675
KRT38	0.61643	0.69312	-0.50529
GEMIN5	0.65332	1.0325	-0.58048
CENPE	0.58748	1.0364	-0.22258
TOP2A	0.95888	1.6945	-0.34688
CENPF	0.77172	1.3988	-0.02594
ITGA2	1.0202	1.6758	-0.04238
HIST1H3D	0.5928	1.0122	-0.00575
RACGAP1	0.80992	1.4348	-0.08496
ASPM	0.78686	1.1679	-0.13028
EXO1	1.0917	2.1862	0.17534
NCAPD2	0.88787	1.3652	0.055216
SMC4	0.66957	1.1235	0.088826
NOLC1	0.75745	1.2056	0.18018
SF3B3	0.60752	1.0913	0.14716
CGREF1	1.5757	0.85451	-0.62873
HNRNPH2	0.79433	0.91379	-0.18273
ALCAM	0.97293	1.245	-0.27498
CKAP2L	1.0048	1.2119	-0.27878
GTF2I	0.86455	0.92794	-0.22746
RRP1B	0.65881	0.70044	
GPR84	0.86121	0.9159	-0.24625
CLCN4	1.1935	1.1164	
HTR1D	1.4459	1.3515	-0.74599
SMOX	0.85102	0.72608	-0.41165
HIST1H2AB	1.3354	1.2852	-0.55351
EXD2	0.74215	0.6697	-0.30994
CHST4	0.60613	0.6678	-0.28764
LYRM2	0.70068	0.64442	-0.26011
TTC26	0.96736	0.891	
LEF1	1.4713	1.0312	
ADAMTS12	1.6924	1.1838	
SLC9A7	1.131	0.79118	-0.19425
SKA3	1.2404	0.96801	-0.12089