

Supplementary File 2

Common DEGs in MSS vs control cases

Common DEGs in MSS vs normal comparisons				
Gene	GSE44076	GSE29638	GSE24551	GSE25071
PLEKHB1	1.0274	0.35507	1.1035	5.9285
PCSK9	0.49525	0.59183	0.59156	3.2783
TACSTD2	1.4041	0.95179	1.5885	5.3452
KLK10	1.3595	0.8865	1.1776	5.2923
MAGED2	0.59349	0.38533	1.0186	2.7
SAA1	0.71866	1.3463	0.79123	4.1304
KCNJ8	0.16259	0.58898	0.73302	2.3774
INPP5D	0.35738	0.81796	0.82079	2.2594
VGF	0.58769	0.63167	0.16793	2.5022
APMAP	0.7971	0.86973	0.34604	5.805
IGF2BP3	0.97527	0.703	0.24613	2.4493
IL23A	-0.26267	0.76303	0.76448	2.7508
SLC6A6	1.0009	1.9549	2.3834	
SLC16A4	0.68707	1.1764	1.4515	2.0138
GPR19	0.55145	1.0468	1.3872	1.463
LEF1	0.6601	1.0869	1.6857	
UTP25	0.60843	0.9358	0.84056	1.3116
TCN1	1.9294	2.5396	2.5165	3.9055
TMEM92	0.38577	0.70751	0.76083	1.044
FUT1	0.54725	0.98862	1.0583	1.3286
IFITM1	0.9758	1.3641	1.6606	2.2962
SLC6A14	1.2784	2.7612	2.2304	2.9259
REG1B	1.5879	3.8088	2.983	3.9072
UTP14A	0.65837	1.1385	0.96078	1.2009
HSPA8	0.44207	0.80613	0.68169	0.8896
PERP	0.56354	1.4618	0.90308	1.4269
TUBA4A	0.65798	0.88679	0.6174	0.94445
RFWD3	0.63045	0.83168	0.54258	0.83102
RAB29	0.78256	1.0088	0.91059	1.0507
LAS1L	0.71645	0.90464	0.7501	1.0686

PTTG1		1.2982	1.1108	1.402
CNN2	0.97724	1.0206	0.87642	
RCC2	0.64075	1.0721	0.68781	1.1005
RFC3	1.0015	1.5424	1.1139	1.5124
OTUB2	0.68258	1.0573	0.75423	
SUV39H1	0.60227	0.99212	0.79542	1.2089
CFI	0.98249	1.4439	1.2402	1.7539
EPDR1	0.587	0.89143	0.70562	1.225
CSTF1	0.57208	0.9341	0.69572	1.2215
SMC1A	0.2512	0.86046	0.69033	1.2287
FLT1	0.24508	0.87948	0.64249	1.1765
TMEM109	0.34189	0.92571	0.87343	1.2477
CFB	0.76437	2.0191	1.6228	2.6084
TPD52L2	0.65911	0.6008	0.65224	1.1127
KARS	0.59922	0.63292	0.59043	1.0998
NSDHL	0.90464	0.72602	0.87445	1.5799
SCRN1	0.74385	0.71619	0.99783	1.5545
PPT1	0.84266	0.53718	0.89025	1.3214
P3H1	0.92318	0.66308	1.0742	1.6388
PODXL	0.68503	0.69479	0.95802	1.2847
GRINA	1.0517	0.93579	1.2655	1.6403
ERVMER34-1	0.86161	0.70617	0.98198	
BACE2	0.82906	0.65039	0.93322	1.3607
ELMO2	0.66747	0.53137	0.80168	0.89886
CXCL5	2.0584	1.3421	1.9656	2.5129
ENOX2	0.85178	0.65088	0.83622	0.9969
CALU	1.093	0.87469	1.1403	1.4067
SULF1	1.5954	1.4877	2.4222	2.8069
KLK6	1.0006	0.97291	1.6015	1.8326
FAP	2.2294	1.7931	3.0425	3.5705
MMP14	0.85076	0.92374	1.4474	1.535
SEMA3A	0.58975	0.79648	1.1182	1.3172
CXCL11	1.765	2.1653	3.1402	3.6195
TGM2	0.77463	0.66493	1.1826	1.1889
COL1A2	1.2308	1.1487	2.16	1.9364
COL5A2	0.94758	0.93995	1.4477	1.3019
RB1	0.62094	0.63226	0.80895	0.9415

MOSPD3	0.59546	0.6097	0.8169	0.98666
VCAN	1.03	1.1021	1.2921	1.6972
ACSL4	0.73504	0.80758	0.94987	1.1675
JADE3	0.89927	1.0227	1.2054	1.3804
CXCL9	1.482	1.8559	2.2413	2.2225
COL4A2	0.714	0.81562	1.0472	1.0626
UHRF1	0.83536	0.89171	1.0015	1.1172
PJA1	0.96843	1.0775	1.1461	1.3357
CD82	0.90849	1.0428	1.132	
RLIM	0.75093	0.30947	0.82814	1.01
COL1A1	2.2679	1.1967	2.7005	2.9538
UMPS	0.73322	0.75961	0.31132	1.1083
TROAP	0.65509	0.61277	0.3246	1.017
NMRAL1	0.66864	0.6865	0.33874	1.1127
REG1A	3.3176	3.7761	2.1979	5.3493
PRPS1	1.203	1.1858	0.78395	1.89
NCBP2	0.73035	0.68507	0.47803	1.066
RUVBL1	1.5414	1.1339	0.86529	1.8751
SHMT2	1.5895	1.3486	0.86334	2.0357
SHCBP1	1.3203	1.1095	0.82897	1.6412
PHGDH	1.6578	1.4057	1.0153	2.1657
NOC4L	0.64694	0.60377	0.39375	0.83456
PRPF4	1.1208	1.004	0.80619	1.3152
SLC5A6	1.401	1.2952	1.0004	1.8575
NAT10	1.1797	1.0577	0.79005	1.491
RANGAP1	0.8897	0.79145	0.67101	1.15
MYBL2	1.6421	1.367	1.1865	2.0182
WDCP	0.68464	0.72196	0.52386	0.94828
IL1B	1.1785	1.2957	0.9344	1.6447
RUVBL2	0.70044	0.73816	0.61534	0.9623
OGFOD1	0.86281	0.87458	0.69553	1.1693
MOCS3	1.0716	1.106	0.85881	1.4301
PARP1	0.58632	0.72604	0.54826	0.91331
BMP4	1.1522	1.3345	1.1061	1.7925
XPO5	1.1573	1.0389	0.90321	1.6022
MAPRE1	0.74663	0.68875	0.65132	1.0599
TIMELESS	0.76174	0.64253	0.64559	1.0533

CBFB	1.0413	0.87413	0.86612	1.3949
WDR74	0.85191	0.84378	0.69584	1.3167
LCN2	2.0756	2.0986	1.7557	3.1072
ERO1A	0.86781	0.87811	0.80531	1.3903
FANCI	0.92605	0.8073	0.70572	1.4027
CDCA4	1.0469	0.90482	0.74923	1.552
WFS1	0.95787	1.2503	0.41186	1.4153
SLC11A2	0.75326	1.0374	0.5558	1.0915
ORC3	0.61952	0.80497	0.38399	0.81305
AASDHPPT	0.6815	0.77281	0.37329	0.84417
WDR3	0.6951	1.0042	0.61216	1.3531
APOBEC1	0.72095	1.1221	0.56583	1.4436
CDC20	0.76124	1.1701	0.46731	1.5563
VSNL1	2.352	2.3949	2.3038	3.1318
ELOVL5	1.1473	1.0169	1.1766	1.3398
TOMM34	1.7678	1.6043	1.4905	1.8291
CXCL1	2.2815	2.1234	1.9836	2.2057
PRPF6	1.0802	0.91722	0.90825	1.1965
IPO5	1.1402	0.9733	0.96212	1.2553
NELFCD	1.3979	1.1522	1.119	1.4722
ETV4	3.2024	2.5126	2.453	3.2301
SND1	1.017	0.83191	0.75439	1.0264
CKAP2	1.704	1.4811	1.3144	1.8002
CCT3	0.99119	0.83592	0.77156	1.062
TM9SF4	0.95963	0.90153	0.66133	1.0112
NUP93	0.8223	0.76663	0.54592	0.92045
SLC38A5	1.298	1.4295	0.84664	1.5659
PRR11	1.1259	1.16	0.77372	1.3958
CCT7	0.91599	0.93357	0.66058	1.081
XPOT	1.4279	1.3474	1.0635	1.3231
MCM2	1.0251	0.96398	0.74806	0.92925
SLC39A6	0.92305	0.98753	0.67596	0.91921
TKT	0.91719	0.89203	0.69325	0.92469
DHCR7	1.1314	1.0902	0.8049	1.1298
DDX27	1.1174	1.1801	0.87229	1.2056
POLR1A	0.73543	0.75672	0.63016	0.73151
CCT4	0.93599	1.0701	0.79235	0.99992

HPS3	0.76581	0.90276	0.56687	0.84922
TRAP1	1.2936	1.0728	0.57663	1.3624
RRM2	1.6977	1.2543	0.83618	1.6227
CTSV	1.6147	1.2333	0.76762	
CHEK1	1.5604	1.2168	0.72251	1.4899
RAD54B	1.0865	0.8363	0.62764	1.1554
NEK2	1.2648	0.9869	0.67165	1.4145
CCNB1	1.8457	1.3462	0.91976	1.9739
WDR46	1.0289	0.65027	0.5925	0.84113
TMEM161A	1.1753	0.76965	0.58806	0.90117
FEN1	1.1214	0.78412	0.56101	0.94709
ASNS	1.4872	1.0754	0.7347	1.176
PSPH	0.96183	0.85041	0.60619	0.90512
MACC1	2.0831	1.7208	1.2209	1.7382
AURKA	1.7573	1.4452	1.0927	1.5245
LMNB2	1.0394	0.726	0.58838	0.91781
KDM1A	0.83595	0.60378	0.47664	0.70308
TPX2	2.4102	1.869	1.5107	2.0192
ANLN	2.039	1.4715	1.2292	1.6152
NUFIP1	1.353	0.99402	0.9033	
CD3EAP	0.96661	0.72777	0.6594	0.91943
DKC1	1.7006	1.3588	1.0888	1.5882
KIF4A	1.234	1.1877	0.78662	1.0523
POLR1B	1.3492	1.1393	0.66608	1.0652
DTL	1.3767	1.3235	0.70882	1.1039
MYEOV	1.2062	1.1207	0.62815	
ATIC	1.203	1.122	0.61304	1.0677
CKAP5	1.2501	1.1252	0.65883	1.1482
NECTIN4	0.68702	0.70368	0.24583	0.84241
MCFD2	0.88934	0.79354	0.26829	1.0568
WDR12	0.83899	0.97173	0.33505	0.80177
SORD	1.2406	1.2285	0.38621	1.1542
ANP32E	0.9314	0.99588	0.32046	0.89618
ALG8	0.87336	0.94294	0.22938	0.86905
MTHFD1	1.0842	0.97107	0.41659	1.0283
DLGAP5	1.3037	1.265	0.53098	1.3124
DDX18	0.80355	0.72889	0.30335	0.85279

THY1	1.3731	0.68195	1.9055	1.4928
S100A11	1.9034	1.0191	2.2041	1.7702
SCD	1.6157	0.77096	1.9507	1.3413
RBMX2	0.8531	0.4578	1.0424	0.72209
TDGF1	2.8375	1.0127	2.1523	2.1311
RCN1	1.4685	0.68482	1.0602	1.2546
RNF113A	0.7994	0.35543	0.72744	0.77824
PTP4A3	1.8142	0.7645	1.5155	1.612
CYP2S1	1.3225	0.53919	1.0707	1.2317
UCHL3	1.0445	0.41014	0.82272	1.064
POLR1D	1.2008	0.57146	0.98664	1.2433
GPR180	0.89984	0.42757	0.7767	0.95014
ARNTL2	1.7323	0.81256	1.5544	1.9184
PMEPA1	1.982	1.2711	1.7211	1.4954
ZDHHC9	1.6072	0.88943	1.2384	0.96276
MYC	2.1029	1.1209	1.7992	1.3343
GARS	1.337	0.62856		0.89823
ALKAL1	1.4206	0.65427	1.0969	
LAMP2	0.60836	0.44594	0.64652	0.58889
YEATS2	0.80202	0.47139	0.71148	0.69496
PEA15	0.62594	0.31376	0.65356	0.61879
BCL2L1	0.74948	0.41726	0.74427	1.4456
AJUBA	1.929	1.116	1.9745	
DDX10	1.1451	0.75245	0.86264	1.0012
STIL	1.2768	0.59884	0.62232	1.0204
OSBPL3	1.4336	0.69212	0.74503	1.088
PMAIP1	1.9092	0.80817	1.0752	1.4868
YTHDF1	1.0987	0.44536	0.60705	0.90811
MTHFD1L	2.1462	0.84069	1.2055	1.803
KCTD14	1.267	0.44239	0.70286	1.0104
PDCD2L	1.9196	0.69157	1.0006	1.2992
NME1	1.8175	0.65728	0.94056	1.1896
DSCC1	1.4987	0.67003	0.94502	1.0548
SOX9	1.9354	0.77652	0.78147	1.1043
ATAD2	1.6995	0.82531	0.68757	1.0739
NFE2L3	2.6362	0.82286	0.87725	1.8814
PRDX4	1.5362	0.33586	0.69764	1.1302

FOXA2	1.4283	0.19759	0.62702	0.97929
GDF15	3.4319	0.8536	1.3925	2.0689
TGDS	1.2489	0.21739	0.78154	1.0737
NAP1L1	1.1296	0.21812	0.66292	0.90585
QPCT	1.7159	0.4321	1.3396	1.4659
DNTTIP1	1.329	0.18123	1.0304	1.2081
TRIM28	0.97506	0.31589	0.64896	1.1445
GTF3A	1.5687	0.42092	1.0594	1.7886
RUBCNL	1.5782	0.48455	0.95333	1.4835
MRGBP	1.697	0.43593	0.92281	1.5981
IRAK1	1.3667	0.2635	0.71693	1.294
CXCL2	2.2318	0.49386	1.4119	2.2635
S100P	1.9319	-0.02209	0.95618	1.7168
EEPD1	1.0956	0.028193	0.66356	1.035
SLC5A1	1.0978	0.80629	0.81106	1.4366
NUDCD1	1.5719	1.14	1.1557	
TWNK	1.2126	0.8231	0.80517	1.3466
LYAR	1.4149	0.9538	0.93629	1.4952
NIP7	0.8891	0.5774	0.69828	1.0339
KRT23	4.4614	2.9411	3.2468	5.0668
SRPX2	2.5159	1.6984	2.0147	3.2488
RIPK2	1.5089	1.0002	1.107	1.8426
TMEM9	0.88145	0.70059	0.6725	1.1562
SQLE	1.5534	1.1286	1.1731	1.5976
E2F7	0.9228	0.67015	0.68845	
KDELC1	0.99041	0.74471	0.83312	1.2877
ERP27	1.78	1.3531	1.5209	2.3845
ACLY	0.70251	0.54659	0.6038	0.8708
FXYD5	1.387	0.94674	1.2517	1.8771
WDR35	0.89723	0.6158	0.75647	1.3089
FTSJ1	0.96441	0.65804	0.75316	1.3853
RAE1	1.4009	0.86501	1.1248	2.1116
DUSP10	0.95747	0.58809	0.83204	1.4701
TSPAN5	1.4558	0.90678	0.95146	1.9847
PSMA7	1.1053	0.72568	0.70865	1.5063
TNFRSF11B	1.1112	0.64782	0.78646	1.5067
CHI3L1	3.1012	1.8277	2.1943	4.1024

AGT	1.8161	1.1102	1.3224	2.446
CHPF	1.0927	0.68136	0.75933	1.3845
AZGP1	2.7705	1.7722	2.0479	3.683
SRM	1.3301	0.61311	0.76307	1.3195
URB2	1.2511	0.62042	0.64283	1.1321
EXOSC5	1.4191	0.73274	0.76215	1.3816
TRIP13	1.9971	1.1973	1.0634	1.976
CDC6	1.5866	0.92865	0.90409	1.6341
GLA	1.1983	0.67806	0.6562	1.2971
NUSAP1	1.2666	0.70508	0.60308	1.1148
CAD	1.4782	0.84933	0.74305	1.3182
SMARCC1	0.93415	0.53411	0.6335	0.95059
MMP1	3.5802	1.898	2.4286	3.4283
ERCC6L	1.7805	0.88355	1.2448	1.6582
COL5A1	1.3069	0.61877	0.8477	1.2907
KIF18A	1.6183	0.89212	0.97827	1.5172
FANCB	1.2642	0.67854	0.77806	1.1417
CTNBL1	1.0335	0.60789	0.63133	0.96958
FBXO5	1.351	0.71382	0.75712	1.2165
AXIN2	1.4867	0.91756	1.1018	1.4914
TGFBI	3.1975	1.5448	2.4313	3.7544
SLC22A3	1.5698	0.93163	1.2579	1.8619
DARS	1.1305	0.65318	0.92126	1.2224
GZMB	2.4076	1.001	1.5504	2.7681
PFDN2	1.0814	0.38996	0.71337	1.1774
CD44	1.6272	0.61624	1.0272	1.741
EPHX4	2.8067	1.1588	1.6912	2.9369
MAD2L2	1.3194	0.68019	0.79887	1.5448
GALNT6	2.0393	1.0131	1.2337	2.3337
CCL24	1.74	0.87253	1.0904	1.9482
CDC25B	1.8022	1.0539	1.1072	2.0815
CADPS	1.6506	0.8953	0.98787	1.8561
WDR77	1.469	0.73437	0.56015	1.272
PPIL1	1.3658	0.73909	0.70939	1.6913
DIAPH3	1.5833	0.94126	0.89783	1.9617
FAM83D	1.4747	0.85735	0.65868	1.8088
CPNE1	1.8476	0.92569	0.74393	2.0241

PAFAH1B3	1.7016	0.58606	0.63151	1.8147
DACH1	2.4851	0.80806	0.96853	2.5259
PHLDA1	2.4911	1.0162	1.1461	2.6986
CDK4	1.5854	0.53575	0.7349	1.5843
CCND1	1.6245	0.62582	0.54744	1.4706
TNFAIP6	1.011	0.47285	0.98882	1.5693
LYN	0.74086	0.2982	0.63506	1.1125
COL10A1	2.5376	1.0953	2.2789	3.8357
LPCAT1	1.0719	0.36772	1.0265	1.6615
FADS1	1.3635	0.53986	1.3847	2.1907
TP53RK	1.3547	0.61968	0.9084	1.7843
MMP10	1.8845	0.96977	1.5159	2.7966
ANXA3	1.4021	0.693	1.1046	2.0709
CTPS1	0.94135	0.5134	0.8229	1.3601
AREG	1.1741	0.65583	1.0258	1.6671
CXCL8	3.5113	1.4817	2.8035	4.6983
CELSR1	1.1709	0.42233	0.87116	1.4259
CYP39A1	1.2582	0.30023	1.1357	1.5006
ERGIC3	0.8464	0.27904	0.7557	0.99192
CETN2	0.9514	0.39082	0.86459	1.2075
UBE2C	2.4585	1.131	0.31856	2.198
SPDL1	1.347	0.78679	0.30157	1.1995
GPT2	1.2809	0.80627	0.39572	1.5702
EXOSC4	1.0812	0.73594	0.29026	1.3003
ASF1B	1.0355	0.77699	0.37658	1.2157
TNFSF15	0.49234	1.1603	1.3928	2.5711
PLEKHS1	0.6632	1.5934	1.7475	3.1222
SELE	0.58443	1.3892	1.3183	2.6986
LAMP1	0.2851	0.65627	0.73196	1.1405
SLC6A20	0.88363	1.139	1.5185	
MSLN	0.65419	0.81577	1.0949	2.4788
SALL4	0.70479	0.87373	1.0814	
EDNRA	1.0519	1.3013	1.6412	2.7018
SERPINE2	0.7277	1.1437	1.4696	2.8532
FAM3B	0.85919	1.3399	1.6746	3.0394
CDH11	0.61367	0.88261	1.1541	1.8464
WNT5A	0.77717	1.2008	0.74924	1.94

YARS	0.44403	0.92035	0.71977	1.8077
PLK1	0.82225	1.4696	0.89431	2.6273
BCAP31	0.57478	0.94171	0.69224	1.8404
REEP6	0.61721	0.88719	0.78309	1.735
CCL20	1.1554	1.9169	1.586	3.3852
XRCC5	0.50342	0.65545	0.67742	1.4977
EBNA1BP2	0.64302	0.70895	0.69709	1.7439
SLC2A1	0.79474	0.97671	1.0418	1.8745
TDRKH	0.56927	0.60862	0.66658	1.3482
PLOD3	0.77657	0.82292	0.90191	1.8423
ANGPT2	1.1682	1.2138	1.3726	2.6659
BUD23	0.63346	0.69654	0.55144	1.3685
CHAF1B	0.378	1.0491	0.60513	1.6642
ALDOB	0.64749	2.1159	1.6518	3.8484
SLCO1B3	0.69538	0.81736	1.7885	2.594
SFRP4	1.3034	1.2198	3.2743	4.7097
PLA2G16	0.60039	0.71218	1.5424	2.8218
MFAP2	0.82982	0.82119	2.1862	3.9652
SPP1	2.3705	1.5717	3.1572	5.3509
MAP3K20	1.306	0.87277	1.5814	2.8018
TMEM132A	0.92988	0.49773	0.99805	1.6505
TCF7	1.0595	0.59265	1.1718	1.8914
PLAU	1.3126	0.86238	1.4669	2.4566
EIF5A2	0.8526	0.58642	1.0775	1.7437
SERPINB5	1.5227	0.74983	1.8205	3.0276
GRB10	0.60838	0.28414	0.71085	1.2282
ESM1	1.9256	0.92806	2.0281	3.6018
MRPL17	0.77843	0.61899		1.5277
MMP7	3.7624	3.012	4.5235	7.3207
KRT80	1.0212	0.92459	2.1719	
SIM2	1.0292	0.62584	1.5327	
CXCL16	0.71848	0.38464	1.057	1.6144
WNT2	1.1884	1.195	2.0138	3.4798
EDAR	0.81152	0.8254	1.3662	2.256
COL4A1	0.92682	1.048	1.5028	2.6417
PDPN	0.81214	0.82796	1.6312	2.534
CSGALNACT1	0.60868	0.46915	1.0059	1.597

ICAM1	0.65791	0.25468	1.002	1.5136
SLCO4A1	1.5847	0.32813	1.3842	3.2187
SPARC	1.1634	0.18522	1.1508	2.5109
SFXN3	0.58805	0.074763	0.59035	1.2087
NT5C3B	0.80043	0.25395	0.67763	1.6872
PHF19	0.92991	0.27383	0.86058	2.2359
LMCD1	0.6502	0.12832	0.65004	1.5788
LIMS1	0.59542	0.17676	0.69002	1.5238
TREM2	0.992	0.18795	1.0268	2.8735
CD81	0.64856	0.19074	0.61884	1.7559
CTSH	0.68244	0.33794	0.87576	2.1721
SKAP1	0.83423	0.22934	0.61736	2.0541
FAM89A	1.2101	0.51773	0.74386	2.8987
TTYH3	0.97794	0.57775	0.9231	2.7626
RGS16	1.0565	0.55005	1.0786	2.8592
CTHRC1	1.8858	1.0031	1.4802	4.4988
ACSL6	1.477	0.57035	1.1444	3.4126
RMI2	0.64551	0.59166	0.52426	1.9302
LY6E	1.4117	1.1911	1.1706	4.0715
SERPINH1	1.0686	1.239	1.1353	
CCT5	0.67986	0.82182	0.75549	3.1188
SMOX	0.89215	0.80109	1.1959	
KLK7	0.71608	0.68784	0.99984	2.3415
TIMP1	1.3539	1.0889	1.9433	4.0097
GPX8	0.72379	0.57012	1.0069	2.0434
DUSP14	0.91529	0.78086	1.1536	2.7907
DIO2	0.85747	0.70627	1.2607	2.9371
DUOX2	0.96708	0.95334	1.6419	3.864
CXCL10	1.2126	1.1932	2.2321	4.2013
C6orf223	0.81391	0.79553	1.5195	
IFT22	0.7377	0.44825	0.83979	1.9252
JAG2	0.67119	0.47298	0.64246	1.634
CDH3	3.0247	2.5491	3.1832	7.998
POLR1C	0.86823	0.6107	0.59554	
MMP3	4.277	3.0304	2.8375	6.1253
NSUN5	1.1021	0.79807	0.56347	2.7104
SULT2B1	1.8716	1.2033	1.3086	3.5122

CEP72	0.80752	0.54396	0.58707	1.7248
UBD	2.6744	1.8008	2.2326	4.8893
INHBA	2.5619	1.8782	2.2049	4.9499
SNX10	0.82201	0.58928	0.78281	1.5348
SNTB1	1.3854	0.95381	1.3008	2.578
LRRC8E	1.2154	0.76136	1.1186	
CPXM1	0.92097	0.55761	0.84801	1.9036
PPA1	1.0733	0.56681	0.97456	2.0498
MMP11	1.9124	1.1038	1.7489	3.6189
FAM210B	0.70419	0.36528	0.61174	1.2692
POLR2D	0.81476	0.47521	0.60778	1.2998
PDZK1IP1	1.1626	0.70451	0.85006	1.9175
COMT	0.88606	0.48725	0.68803	1.4601
YAP1	0.73154	0.65291	0.70259	1.5202
NOP14	0.69276	0.59055	0.67788	
LTBP2	0.76268	0.63702	0.76331	1.4107
STC1	1.2884	1.1654	1.0883	2.5309
HM13	1.0114	0.79111	0.78741	1.7726
EHMT2	0.73254	0.5963	0.62472	1.329
FGFRL1	0.68167	0.56929	0.60493	1.4764
ALKBH2	0.85201	0.66343	0.64565	1.7158
UBAC2	0.75342	0.36092	0.71723	1.5477
TMED1	0.75312	0.31631	0.61539	1.4825
NMU	1.5081	0.55571	1.0761	2.883
APCDD1	1.6699	0.61294	1.2273	3.1047
TRIB3	2.0429	0.79317	1.2923	4.0378
EGFL6	2.0861	0.81958	1.3217	
AGTRAP	1.0216	0.40929	0.68205	1.956
CLDN2	2.6305	0.99271	1.6164	4.4943
FKBP10	1.6651	0.86762	1.1024	3.1918
ODAM	1.4861	0.69807	1.0308	3.0069
ADRM1	1.1393	0.53897	0.7638	2.2936
CNPY3	0.95781	0.417	0.61975	1.8894
ANXA9	1.6577	0.79228	0.93425	3.0807
TAF1A	0.92988	0.74716	0.21694	1.6359
SFTA2	1.2457	0.96496	0.36736	2.2742
FBL	1.0064	0.85853	0.34092	1.8545

PFDN6	0.66808	0.65157	0.2248	1.3117
SHLD1	0.93609	0.99791	0.45689	1.8341
INTS7	0.68638	0.76141	0.30382	1.3886
SLC1A4	0.67794	0.76868	0.47304	1.5584
NUDT21	0.65802	0.61332	0.41885	1.3563
BIRC5	0.93124	0.91642	0.53092	2.0487
PTRH1	1.2559	0.90567	0.58269	1.9356
CDC48	0.94202	0.67521	0.47521	1.5465
GEN3	1.1416	0.90024	0.53142	1.9214
DCPS	0.8204	0.65025	0.34927	1.2696
GNPDA1	1.1928	0.97915	0.76143	2.0778
AUNIP	1.1262	0.95652	0.78651	2.0306
MCM10	1.1867	0.93191	0.78035	1.9303
CDC45	1.0595	0.84673	0.67545	1.6464
AATF	0.87779	0.73765	0.50578	1.3583
LY6G6D	3.8509	0.90618	0.97769	4.4995
TEX30	1.4653	0.23713	0.73407	1.9122
HILPDA	2.2501	0.35382	0.9252	2.8509
EVA1A	2.1916	0.3236	1.0168	3.2355
FABP6	2.9629	0.57812	0.88359	4.3035
RNASEH2A	1.8256	0.71204	0.67575	2.7591
CXCL6	1.7056	0.71015	0.59711	2.4842
MFS12	1.2225	0.51102	0.73235	1.6353
PDRG1	1.3109	0.52885	0.71405	1.6783
DPEP1	4.4062	1.72	2.274	5.6703
CMTM7	1.4984	0.49046	0.727	1.8204
DSN1	1.2361	0.56417	0.69232	1.9012
DUSP4	1.9822	0.51624	1.0964	2.8089
DEFA6	2.1839	0.76938	1.3029	3.4143
TIMM50	0.79118	0.23931	0.6054	1.2722
MAP4K4	0.64993	0.16451	0.5879	1.1334
FARP1	0.71967	0.20841	0.71958	1.2544
IFT52	0.78156	0.21072	0.63515	1.0873
COPRS	0.64666	0.1263	0.61052	0.96704
POMP	0.86686	0.10274	0.65441	1.3719
MMP12	2.5495	0.12761	1.9655	3.7868
PFDN4	0.98297	0.064971	0.76671	1.7509

METTL1	1.09	0.021759	0.78481	1.8526
IFITM2	1.1537	0.014274	0.92435	1.8944
MPP6	1.241	0.16942	0.77224	2.0023
BATF	1.0874	0.17933	0.72448	1.7136
DRAM1	1.2551	0.21244	0.83252	1.8322
HOMER1	1.8351	0.21712	1.3173	2.3648
C19orf53	0.93703	0.058678	0.65744	1.056
CXCL3	3.1689	0.49892	1.8113	3.7031
CEBPB	1.3894	0.24949	0.82844	1.7285
CKS2	1.7753	0.14895	0.94652	2.1269
S100A9	1.7593	-0.06371	1.1852	4.2751
GPR137B	0.76242	-0.07925	0.59311	1.9047
GPX7	0.82912	0.049783	1.0226	1.9116
AQP9	0.68079	0.068929	1.8993	3.1592
PGK1	0.60972	0.27864	1.1005	0.82235
PCDHB10	0.72269	0.57928	1.7493	1.5398
MME	0.80966	0.86939	2.0466	2.121
ANOS1	0.89245	0.98337	2.2778	
STT3A	0.6273	1.1491	0.31514	0.74392
PNPO	0.59601	1.2355	0.32185	0.75643
LAPTM4B	1.0807	1.7556	0.66832	0.86012
PSAT1	1.945	2.8629	1.4274	2.2552
NCAPG	0.7424	1.1548	0.51424	0.92255
PFKM	0.80925	0.95336	0.52937	0.71856
MCM6	0.87196	0.97604	0.62354	0.68549
SHISA5	0.38606	0.97855	0.78268	0.63146
NCL	0.57223	1.3102	1.149	0.84986
RPN2	0.34908	0.92406	0.71521	0.72026
RPS15	0.33099	0.78525	0.58671	0.6769
EFTUD2	0.35756	0.82948	0.59252	0.65602
HDAC2	0.40042	0.96622	0.69592	0.66269
RNF219	0.65303	1.0018	0.98409	0.9183
NEBL	1.3098	2.0377	1.8653	1.8441
RSL1D1	0.80457	1.0283	0.97671	
PLS3	1.2235	1.5595	1.5333	1.365
IL1A	1.396	1.7689	1.7353	
TFDP1	0.86481	0.81585	0.78777	0.65311

RNF43	1.4169	1.4026	1.5058	1.2133
STAU1	0.66304	0.71455	0.70536	0.65579
NMT1	0.65317	0.70188	0.68127	
ARMCX3	0.77437	0.87368	0.91506	0.77511
EIF3H	0.60069	0.59555	0.63701	0.63588
HSPH1	1.5669	1.4702	1.743	1.5156
TECR	0.6562	1.1192	0.84872	0.59442
SSB	0.86392	1.4674	1.0292	0.95247
GART	0.66175	1.0735	0.84146	0.72144
PA2G4	0.58146	0.88476	0.663	0.67191
GMPS		0.86563	0.63925	0.99256
FREM2	0.81296	1.4635	1.076	
HSP90AB1	1.1157	1.3599	1.1037	0.87805
SEPHS1	0.5176	0.59935	1.059	0.6077
BGN	1.1632	1.1414	2.2155	1.1025
CST1	1.9802	2.9284	3.5368	
AAR2	0.51242	0.75371	0.88064	1.2877
TOP2A	1.7188	1.6755	0.87213	0.56552
SLC7A11	1.3705	1.4316	0.9589	0.69653
PRKDC	1.1495	1.3316	0.81228	0.62116
RACGAP1	1.1298	1.2586	0.65532	0.57506
CCT6A	1.1516	1.1172	0.74754	0.45503
MCM3	1.0017	1.1322	0.81288	0.69333
MARCKSL1	0.86898		0.69245	0.60207
NCAPD2	1.0416	1.3539	0.71117	0.65037
AARS	0.97694	1.3643	0.73604	0.6685
STMN3	0.81268	1.0115	0.7392	0.39774
MKI67	0.83605	1.1027	0.74874	0.41867
SF3B3	0.85187	1.1484	0.82477	0.51178
FERMT1	1.0226	1.4095	0.91519	0.62932
DDIAS	0.91095	1.2338	0.91881	1.4307
CLDN1	3.2928	4.446	3.5237	
RCBTB1	0.7036	0.70834	0.72151	0.90461
KBTBD6	0.81175	0.807	0.83253	
CEMIP	2.559	2.5463	2.5986	
IQGAP3	0.62524	0.67582	0.64089	0.43366
ILF2	0.74427	0.58518	0.68648	0.37281

EIF2S3	0.96824	0.91766	1.0193	0.38749
TTK	1.4757	1.1118	0.56216	0.96967
TBL2	0.91929	0.68838	0.35126	0.67056
MCM4	1.2283	1.0121	0.36358	0.86199
CCNA2	1.4116	1.053	0.36293	0.88872
MSH6	1.0068	0.72948	0.35863	0.81733
NKRF	1.5366	0.91752	0.64578	0.85983
MTHFD2	1.4106	0.95719	0.67043	0.96345
HACD3	1.1049	0.77318	0.56635	0.69378
CEP55	1.9525	1.1757	0.84498	1.3207
TOP1MT	1.4966	0.95172	0.87509	0.91158
ZBTB33	1.0618	0.7454	0.65946	
IARS	1.1795	0.84	0.74036	0.76935
KIF2C	1.4516	1.0066	0.88024	
UTP4	1.3693	0.98307	0.97573	1.0369
POLD2	1.126	0.8459	0.84577	0.84096
NOB1	1.3115	1.004	0.89962	0.92081
SET	0.76791	0.59068	0.60381	0.5393
EIF3B	0.92434	0.72574	0.72627	0.65506
PPAT	1.4714	1.2951	0.92579	1.0126
ITGA2	1.6255	1.4217	1.0773	1.0675
CSEIL	1.7798	1.5674	1.2069	1.3487
INTS13	1.1817	1.0976	0.70823	0.85007
SLC3A2	1.1979	0.86172	0.76567	0.62197
NANP	0.87794	0.70368	0.6077	0.49513
ECT2	1.7527	1.3689	1.217	0.982
DGAT2	1.2005	0.91147	0.83319	0.61692
TMEM41A	1.0811	1.1022	0.57518	0.6993
NONO	1.1421	0.86268	0.48569	0.58744
NUP155	1.1414	1.0378	0.57279	0.69772
KIF20A	1.6768	1.4119	0.79164	0.92319
CDCA7	1.3909	1.1614	0.69072	0.90538
GTPBP4	1.298	0.85869	0.69796	0.5395
HJURP	1.2091	0.85325	0.68072	0.62662
BUB1	1.9748	1.252	0.98888	0.97815
ENOPH1	1.0795	0.8573	0.58511	0.53168
CKAP2L	1.4545	0.92779	0.59603	0.60276

CENPF	1.4813	1.0847	0.66651	0.59535
NOP2	1.4248	0.70251	0.77373	0.24211
KIAA1549	1.3267	0.66717	0.75347	
TMEM97	1.4244	1.1568	0.97318	0.30309
LMBR1	1.0103	0.81775	0.65938	0.25008
ENC1	1.8083	1.3964	1.1153	0.73515
DDX21	1.3968	1.1061	0.91639	0.47225
LARGE2	1.5266	0.93264	1.1456	0.46067
GPR143	1.5435	0.92952	1.1904	
TESC	3.966	1.554	2.1301	1.4585
SOX4	1.6022	0.71121	1.0826	0.62259
GDPD5	1.879	0.6855	0.98247	0.97346
ETS2	1.1496	0.38226	0.67943	0.60315
CXXC5	1.0646	0.45624	0.72025	1.1944
COL11A1	3.2	1.4008	2.2308	
CDK5	1.1163	0.64611	0.79109	0.57163
LRP8	2.1447	0.4985	0.99406	0.91373
AHCY	1.9763	0.41881	0.83014	0.91363
CGREF1	1.5861	0.86197	1.7383	0.8333
TCTN1	0.67513	0.10052	0.74344	0.80922
MSANTD3	1.1672	-0.08132	1.1098	1.1749
PCBD1	0.70578	0.049949	0.74074	1.0145
OSER1	0.76356	-0.08607	0.67259	1.0847
BHLHE40	1.111	-0.16239	1.2454	1.709
LYRM4	0.62821	-0.76309	0.70825	1.3182
RGCC	0.83842	-0.49447	0.80784	1.5449
HAUS1	0.59088	-0.41433	0.64377	1.2034
DOCK11	0.68607	-0.25696	0.71519	1.1274
CCDC59	0.65205	-0.32338	0.60556	0.65712
STAT1	0.11992	0.90009	0.79803	0.75045
IFIT3	-1.0694	1.1692	1.7629	2.1823
STIP1	0.92522	1.08	0.73652	0.19876
NOLC1	1.2176	1.0277	0.75093	0.071144
PGF	0.81822	0.98065	0.80109	0.054197
HS6ST2	1.0365	1.0249	1.112	0.16238
G6PD	0.59242	0.6006	0.6349	-0.03152
MTDH	0.6643	0.60414	0.59991	-0.01956

CCNF	0.9982	0.83626	0.80693	0.044894
GRIN2D	0.75994	0.84582	1.0377	0.034011
STC2	1.4425	1.4753	1.2081	
SLC7A5	1.5875	1.6145	1.3238	-0.55762
C2	1.6259	1.5695	1.8092	-0.69027
GEMIN5	1.0078	0.97066	0.71508	-0.9106
FOXM1	1.1624	0.69549	0.70196	-0.64939
FOXQ1	5.1722	0.82573	1.2513	0.27364
ASCL2	3.622	1.2776	1.3656	-0.23665
UNC5CL	1.4806	0.6972	0.70857	-4.0531
CCDC86	1.048	0.63253	0.71258	-2.2678
TCOF1	0.65039	0.6265	0.68444	-0.86923
SNAI1	0.73177	0.81579	1.0619	-1.0332
CDCA3	0.79307	0.83527	0.67735	-1.4915
APLN	0.85533	0.73731	0.93206	-1.4777
FRMD3	-1.8421	-1.228	-1.1958	3.026
SLC16A1	-0.89178	0.70434	-0.96505	-1.867
TMCC3	-2.8305	-1.0515	-0.5854	-1.7537
PTN	-2.2752	-0.58814	-0.132	-1.1406
CLEC3B	-4.0239	-0.97813	-0.42872	-1.5861
MT1E	-2.4665	-0.37657	-0.73718	-3.1421
PKIB	-4.4634	-0.39471	-0.6831	-4.0316
ITPKA	-1.8908	0.014985	-0.70117	-1.7722
ACOX1	-1.5239	-0.11214	-0.94424	-0.64315
VAPA	-0.93508	-0.67163	-1.1452	-0.36366
TNFRSF17	-2.4237	-1.5422	-2.9547	
HMGCL	-0.95649	-0.65367	-1.1808	-0.92224
ZNF43	-0.71227	-0.77608	-1.8815	-0.99523
B4GALNT2	-0.97588	-0.99964	-2.4236	
BCL2	-0.55996	-0.58511	-1.2469	-0.58562
ITPRID2	-0.78211	-0.87912	-0.81706	
SELENOS	-0.60945	-0.70084	-0.64782	-0.29863
MTMR11	-0.95069	-1.1002	-0.98391	
SCGN	-1.849	-2.1853	-1.7989	
RELL1	-0.64603	-0.76072	-0.61781	
MFSD4A	-1.432	-1.7521	-1.4175	
NEDD9	-1.0713	-1.181	-0.98438	

CLMN	-1.372	-1.5118	-1.2989	-0.59461
CMA1	-1.1435	-1.529	-1.1266	-0.57724
SLC9A2	-2.2801	-1.9318	-2.445	
SDHB	-0.65192	-0.56296	-0.69665	-0.59384
HAND2-AS1	-0.76438	-0.66366	-0.82898	
SLC17A4	-2.8266	-2.7881	-3.2349	
MT1M	-3.5319	-3.4885	-3.9924	
KLK1	-1.4092	-1.3977	-1.5659	-1.5882
PRELID2	-0.88381	-1.3076	-1.3715	-0.58542
RASD2	-0.7153	-0.91782	-1.0374	
MRPS36	-0.6916	-0.86354	-0.96718	
NOSTRIN	-1.0787	-1.4396	-1.6342	-0.76722
LIFR	-1.5661	-2.0632	-2.3602	
TOX	-0.90354	-1.3174	-1.4293	
LRRFIP2	-0.72241	-1.0807	-1.1761	-0.82076
DST	-0.58609	-0.88382	-0.94045	
LINC00597	-1.024	-1.5038	-1.7156	
ERBIN	-0.57118	-0.84195	-0.80918	-0.6274
SLC9A9	-0.71739	-1.0128	-0.94483	
FFAR4	-1.1826	-1.6067	-1.4887	-0.82126
NEDD4L	-1.1848	-1.5453	-1.4165	-1.3845
MAMDC2	-2.0932	-2.7477	-2.5205	
FAM102A	-0.61985	-0.80999	-0.76485	-0.47181
ARHGAP15	-0.77326	-1.173	-1.0118	-0.6318
SDHD	-1.019	-1.7378	-1.0929	-0.66044
LMO3	-1.0022	-1.6663	-1.0537	
KLF6	-0.72271	-1.2116	-0.69612	-0.43101
LXN	-1.2238	-1.9336	-1.171	-0.83932
LGALSL	-0.89701	-1.4354	-0.77351	-0.61246
PGM5	-0.90852	-1.9113	-1.0048	-0.53257
ANK2	-0.73084	-1.4251	-0.80741	
FRZB	-1.1307	-2.0238	-1.2282	-0.37764
SEMA3E	-0.72581	-1.2629	-0.91723	
ARHGEF26	-0.64039	-1.1137	-0.83125	
CCDC69	-0.82956	-1.5446	-1.0523	-0.36214
MYOCD	-0.64925	-1.6718	-0.82643	
CYP3A5	-0.81085	-2.1523	-1.1476	-0.74782

PCSK5	-1.1111	-2.0961	-2.4074	-1.3103
KCNIP4	-0.72672	-1.3538	-1.5051	
WIP1	-0.3979	-0.76261	-0.88958	-0.77359
MS4A2	-0.60359	-1.0752	-1.2971	-1.2295
ATP8A1	-0.81087	-1.5047	-1.9297	
SLC35A1	-0.63975	-0.90162	-1.2243	-0.86277
ATP23	-0.56449	-0.77064	-0.95118	-0.73648
SUCLG1	-0.4745	-0.95689	-1.3056	-0.7569
TESK2	-0.42612	-0.78928	-1.072	-1.015
ASPA	-1.0615	-1.8885	-2.6544	
CD163L1	-0.64464	-1.5964	-2.0936	-1.2684
UQCRQ	-0.30277	-0.96718	-0.77784	-0.59614
NDUFA2	-0.2864	-0.89946	-0.69855	-0.69591
PTBP2	-0.47257	-1.1204	-1.0715	-0.92318
SRSF5	-0.68892	-1.4382	-1.3905	-1.3378
CP	-0.85768	-1.82	-1.6763	
CMAHP	-1.1848	-2.3361	-1.996	
B3GNT5	-0.64765	-1.2738	-1.0983	-1.2079
TTL6	-0.58553	-1.3212	-1.3624	
EAF2	-0.56853	-1.3889	-1.4079	-0.7777
SIDT1	-0.58764	-1.2393	-1.2629	
AKAP5	-0.76576	-1.5971	-1.6204	
CEP70	-0.71329	-1.3196	-1.3761	-0.7355
RNPC3	-0.35454	-0.92238	-1.5481	-1.2882
AKR1C2	-0.4915	-1.4334	-1.7875	-1.4006
GON7	-0.92254	-1.2772	-1.3986	-0.40304
HPGDS	-1.4967	-2.2895	-2.7635	
CD48	-0.79703	-1.3656	-1.6193	-0.61558
SLC30A10	-0.75916	-2.2831	-2.4667	
BDH2	-0.48979	-1.664	-1.82	-0.71707
JUND	-0.66687	-1.443		-0.84242
ABCA8	-1.2893	-2.7398	-3.3175	
BMP5	-0.79499	-1.5251	-2.3532	
TPMT	-0.78261	-1.2492	-1.0705	-1.0439
SPECC1	-0.70953	-1.1797	-0.94364	
SHROOM3	-0.69068	-1.0835	-0.90288	-1.0443
WSB2	-0.51685	-0.67459	-0.65629	-0.65239

PRKAR2B	-1.0347	-1.3764	-1.2662	-1.2732
SELENOP	-1.5751	-1.9766	-1.8081	-1.7451
UAP1	-0.79044	-1.0109	-0.72312	
ST6GALNAC6	-1.7831	-2.2439	-1.638	-1.978
RNF138	-0.72159	-0.92072	-0.70885	
NAAA	-0.89058	-1.1886	-0.89716	-1.2837
SEMA4G	-1.2646	-1.3437	-1.0415	-1.6529
TNFRSF11A	-0.97352	-1.1765	-1.0336	-1.5031
SLC22A5	-1.1123	-1.4465	-1.1924	
SECISBP2L	-0.66294	-0.88505	-0.73062	
PLA2G10	-2.5848	-3.335	-2.6649	-1.9722
ERN2	-1.158	-1.5828	-1.2428	
C18orf32	-0.86146	-1.1625	-0.91852	
TCEA3	-1.1375	-1.6266	-1.3667	-1.8587
SCNN1G	-0.82629	-1.159	-1.0094	
FAM160A2	-0.65267	-0.92509	-0.7617	-1.2196
CPNE8	-1.2457	-1.9161	-1.5734	-2.2956
SOS2	-0.7597	-1.007	-0.89102	
ANKRD12	-0.91899	-1.2315	-1.0539	-1.568
SYTL2	-1.4693	-1.8213	-1.7437	-2.0503
PDE4D	-0.76418	-1.0068	-0.99261	
ETFA	-0.79988	-1.0568	-1.0368	-1.1952
SH3RF1	-0.75823	-0.83821	-1.0212	-1.3211
GFRA1	-0.65373	-0.76931	-0.81183	
ATP2A3	-1.046	-1.2494	-1.3122	-1.5387
SUCLG2	-0.67246	-1.1069	-1.4008	-1.4206
GNE	-0.75093	-1.0147	-1.1471	-1.2474
ZNF256	-0.42316	-0.70989	-0.63275	-0.84091
SORBS2	-0.5603	-0.90532	-0.80589	-1.2596
SEMA3D	-0.78476	-1.206	-1.0841	
FGD4	-0.66358	-1.1443	-1.0005	-1.2315
FHL5	-0.4721	-0.69263	-0.73407	-0.92022
KIF13B	-0.56362	-0.90132	-0.93906	-1.3122
ST6GALNAC1	-1.0901	-1.9599	-2.0363	-2.4758
KIT	-0.71434	-1.2427	-1.3796	-1.5285
SULT1A2		-1.7484	-1.6086	-1.6586
NEGR1	-0.77399	-1.0355	-0.95303	

SLC2A13	-0.67584	-1.2311	-1.1994	
VIPR1	-0.95215	-1.3878	-0.96251	-2.071
TSC22D3	-1.0672	-1.5796	-1.187	-1.956
SOGA3	-0.78393	-1.1929	-0.92498	
CDH19	-0.85258	-1.366	-0.98612	
B3GALT5	-0.97203	-1.5127	-1.0594	
PER3	-0.61656	-1.3346	-0.73611	-1.8217
AKAP7	-0.60031	-1.3881	-0.97215	-1.863
EFNB2	-0.61852	-0.90521	-0.43268	-1.0944
UGT2A3	-2.4098	-2.2195	-3.8621	-4.306
RPS6KA5	-0.61346	-0.55558	-1.0449	-1.2039
CLCA4	-3.8154	-3.7479	-6.6375	-6.7866
TRAK2	-0.83005	-0.79067	-1.2322	-1.2763
SLC4A4	-3.1278	-3.048	-4.7162	-4.984
FAM177A1	-0.70771	-0.68591	-1.0818	-1.1948
PPARGC1A	-1.3567	-1.479	-2.2436	-2.3679
ACSM3	-0.96169	-1.0269	-1.6237	-1.6794
RNF125	-1.3653	-1.2164	-2.0451	-1.7523
BMX	-0.99408	-0.88022	-1.5113	
TRIM40	-0.69928	-0.87122	-1.2998	
SPIB	-1.0707	-1.4368	-1.9802	-2.9958
ACAT1	-0.672	-0.74247	-1.1963	-2.2221
USP53	-0.89059	-1.0463	-1.1779	
MT1A	-0.91885	-1.0472	-1.2346	-2.804
HLF	-0.58174	-0.76999	-0.72988	-1.9054
TCIM	-1.043	-0.98241	-1.2853	-2.6747
ABCC3	-0.83133	-0.7888	-1.0238	-2.0434
RETNLB	-1.6591	-1.6957	-1.5887	-2.788
PTGS1	-0.9245	-0.84564	-0.9727	
NXPE4	-3.9158	-3.5662	-4.1762	-4.5848
PADI2	-2.1745	-1.7998	-2.2363	-3.9109
PLXNA2	-0.9615	-0.75909	-0.87059	-1.7889
PLCD3	-0.8062	-0.62517	-0.74679	-1.5236
ACSF2	-1.5126	-1.1681	-1.526	-2.7921
SCARA5	-1.2273	-0.97175	-1.28	
TP53TG1	-0.70784	-0.62413	-0.71549	
ANKRD9	-0.86139		-0.87915	-1.2966

CCL13	-1.4361	-1.2318	-1.5083	-1.9923
MUC4	-1.8531	-1.9813	-1.8029	-3.7125
CNST	-0.91728	-0.93861	-0.84919	-1.8419
NTAN1	-0.69539	-0.51625	-0.83166	-1.1589
TMEM220	-1.1561	-0.79298	-1.4268	-2.1224
SATB2	-0.70045	-0.48565	-0.91924	-1.3599
VILL	-0.84223	-0.60389	-1.0963	-1.51
EXPH5	-0.77112	-0.52645	-1.0221	-1.4294
IMPA2	-0.87012	-0.70281	-1.2339	-1.6913
DGKA	-0.66438	-0.59506	-0.95171	-1.2847
CPM	-1.9504	-1.7853	-2.5024	-3.6742
RDH5	-1.1505	-0.66413	-1.299	-2.1315
FEM1C	-0.8443	-0.48708	-0.95643	-1.4484
HAPLN1	-1.118	-1.3409	-1.6412	-2.4849
SCN9A	-1.5719	-1.8252	-2.4044	
CES3	-1.4124	-1.6202	-2.1522	-4.1503
CPEB3	-0.52634	-0.63378	-0.78514	-1.5765
ECI2	-0.63948	-0.65133	-1.0813	-1.5161
RELCH	-0.72577	-0.9748	-1.1309	-1.5835
CLCN2	-0.52584	-0.71197	-0.89346	-1.1541
ABCA5	-1.2623	-1.6658	-2.0415	-2.7536
FRYL	-0.85442	-0.99314	-1.4234	
FASTKD1	-0.58497	-0.70887	-0.98549	-1.513
ARHGAP42	-0.79665	-1.004	-1.3759	
SPDEF	-1.3485	-1.3427	-1.6138	-0.97129
RAVER2	-1.1451	-1.1344	-1.3632	
TST	-1.3766	-1.2418	-1.5738	-1.0997
FABP2	-2.8782	-2.5586	-3.291	-2.501
RNF152	-1.2856	-1.4022	-1.7908	
FAM3D	-1.1958	-1.253	-1.6075	-1.1957
MGST3	-0.79994	-0.85624	-1.1557	-0.8453
C15orf48	-1.7094	-1.7898	-2.369	-1.821
UQCRC1	-0.59086	-0.59444	-0.63913	-0.54858
LPCAT4	-1.0389	-1.0438	-1.0643	-0.94856
SYTL4	-0.78121	-0.84352	-0.9465	-0.95703
KIAA1109	-0.84909	-0.95591	-1.0397	
PDK4	-1.8108	-2.0927	-2.087	-2.5258

CCL8	-1.5779	-1.774	-1.7935	
GCG	-3.8822	-4.4667	-4.618	
FLVCR2	-1.1567	-1.2403	-1.2897	
TFCP2L1	-1.0903	-1.293	-1.2302	-0.97488
AGR3	-2.4664	-3.0122	-2.833	-2.4097
PRKACB	-1.5291	-1.1263	-1.8567	-1.619
UGT2B17	-4.4393	-3.417	-5.1609	-3.9073
MT1G	-3.0337	-2.1788	-3.2888	-2.635
RMDN2	-1.7047	-1.3391	-1.9647	-1.6593
MFSD11	-0.81061	-0.61581	-0.82841	-0.75515
FUCA1	-1.6294	-1.2975	-1.7768	-1.6132
SEMA6D	-1.2883	-1.1907	-1.7681	
SRI	-1.2644	-1.1431	-1.6428	-1.2974
GPM6B	-1.0617	-0.96864	-1.3976	
VPS13D	-0.63331	-0.6164	-0.81781	-0.79867
GHITM	-0.67129	-0.65331	-0.89206	-0.82471
MIER3	-1.7067	-1.447	-2.1789	
CMBL	-1.282	-1.0998	-1.7284	-1.8079
PTGDR	-1.9542	-1.5166	-2.6271	
ACADM	-1.0991	-0.82203	-1.419	-1.5047
PSD3	-0.7677	-0.9275	-0.98262	-1.0807
CASD1	-1.3249	-1.4192	-1.6641	-1.7755
HEPACAM2	-3.5787	-3.5097	-4.2273	-3.6269
PDZD3	-1.0739	-1.1754	-1.3756	-1.3627
CAPN9	-1.3158	-1.4547	-1.718	
ARHGAP44	-1.2288	-1.4589	-1.7928	-1.4699
PEX26	-0.734	-0.67836	-1.1645	-0.74083
MIER1	-0.95868	-0.78889	-1.3745	-0.87423
HADH	-0.70669	-0.64616	-1.0783	-0.60858
FTH1	-0.66234	-0.67042	-0.96881	-0.49229
SUGCT	-0.64649	-0.8673	-1.5949	
TRIM36	-0.94673	-1.1586	-1.9351	-1.4105
RSRP1	-0.57644	-0.81518	-1.3152	-1.1473
DENND1B	-0.63406	-0.87014	-1.3622	
ADGRL3	-1.0233	-1.3599	-2.1248	
LRMP	-1.0932	-1.1161	-1.9858	
LGR4	-0.60228	-0.58692	-1.0766	-1.1885

CYP4F12	-1.135	-1.1185	-2.1537	-1.7118
GCNT2	-1.0411	-0.92943	-1.8981	
ABCC13	-1.1611	-1.0214	-2.1429	
AMPD1	-1.4125	-1.189	-2.5727	
CYCS	-0.6105	-0.46504	-1.1108	-0.8474
CROT	-0.6343	-0.45307	-1.1423	-1.2037
CNTN4	-1.1522	-0.70514	-1.9271	
S100A14	-1.1621	-0.24714	-1.4951	-1.2738
GATD3A	-0.71035	-0.34756	-0.77487	-0.78164
MAPK6	-0.95338	-0.46988	-0.99624	-1.0402
XK	-0.75686	-0.32879	-0.8485	-0.94983
SLC20A1	-1.1427	-0.54611	-1.4562	-1.4322
ETFDH	-1.6241	-0.78893	-1.8973	-1.956
GPD1L	-1.1131	-0.44589	-1.382	-1.2
MCU	-0.73398	-0.47321	-1.0815	-0.99114
ATP5IF1	-0.58501	-0.36195	-0.77478	-0.69349
NRIP1	-0.6252	-0.27148	-0.81531	-0.92752
UGDH	-1.6873	-0.79981	-2.0383	-2.417
BTBD3	-0.75037	-0.31001	-0.90356	-1.1106
ATP5F1A	-0.86966	-0.20328	-0.85678	-1.095
ATP2B1	-1.1298	-0.35555	-1.2679	-1.5665
A1CF	-1.2961	-0.39725	-1.2537	-1.4678
MTM1	-1.0046	-0.65469	-0.92198	-1.5741
SLC25A23	-1.2517	-0.83817	-0.96755	-1.9531
RGS13	-2.2875	-1.6467	-1.859	
CA2	-5.2214	-3.6692	-4.2869	-6.3692
SIPA1L2	-1.544	-1.3343	-1.3767	-2.1292
KRT19	-0.69608	-0.6033	-0.62695	-0.99322
GALNT12	-1.5484	-1.167	-1.2304	-1.9604
CNNM4	-1.5522	-1.1662	-1.243	
PTP4A1	-1.1019	-0.56434	-1.0423	-1.4823
FAM107B	-1.4386	-0.77889	-1.426	-2.0263
SLC35A3	-1.0407	-0.67121	-0.91042	-1.4382
PPP2CB	-0.86767	-0.52595	-0.74907	-1.1256
PPP2R3A	-1.3718	-0.80731	-1.2058	
P2RY14	-2.0179	-1.2076	-1.7575	-2.0561
CA12	-2.9461	-1.6536	-2.7115	-3.4989

PCK1	-2.8199	-1.8685	-2.9047	-3.6831
HMGCS2	-3.0834	-1.9903	-2.9147	-3.7182
ASTE1	-0.64737	-0.38826	-0.59963	-0.72725
PIGR	-2.3709	-1.5561	-2.3732	-3.4789
PTK2B	-0.59494	-0.43023	-0.59067	-0.79601
NR5A2	-1.4871	-1.1145	-1.5136	-2.1237
ANKRD13A	-0.63407	-0.48347	-0.66384	-0.94308
VDR	-0.86496	-0.78859	-0.69934	-0.98261
SMPD3	-1.1357	-1.0631	-0.94096	-1.3692
GBA2	-1.2716	-1.1369	-1.0993	-1.5298
TEP1	-0.75464	-0.71611	-0.70429	-1.9262
PLP1	-2.3835	-2.2751	-2.3003	
NECTIN3	-0.93864	-0.88692	-0.94033	-1.1747
KRT20	-2.1953	-2.067	-2.2237	-2.7347
SYNJ2BP	-0.82756	-0.74737	-0.69934	-0.87224
SLC22A23	-1.2313	-1.0989	-1.0749	
FAM83E	-0.72623	-0.6514	-0.63119	-1.1016
CCDC68	-2.5928	-2.3024	-2.4338	-2.8482
SEMA6A	-2.3091	-2.3459	-2.197	-3.0007
DOCK10	-0.82529	-0.85372	-0.78956	-1.1202
C1orf21	-1.0388	-0.94843	-1.0161	-1.3948
LRRC31	-1.2391	-1.2349	-1.2618	-1.4257
SGK1	-2.6424	-2.1023	-2.6631	-3.2646
MCOLN2	-1.9834	-1.6492	-1.8664	-2.4032
SLC26A2	-3.9659	-2.9075	-3.7401	-4.623
FGFBP1	-1.9988	-1.3392	-1.7812	-2.2145
ARPIN	-0.82273	-0.54721	-0.77745	-0.94749
IL18	-1.3562	-1.0401	-1.1101	-1.4347
ARL14	-2.9539	-2.0683	-2.4619	-3.1662
TTC38	-0.85318	-0.62022	-0.99196	-1.1474
SLC26A3	-4.2729	-2.766	-4.709	-4.9998
STYK1	-1.4436	-1.005	-1.5422	-1.7638
DYRK2	-1.0617	-0.7149	-1.0649	-1.2098
CAMK2D	-1.0689	-0.73016	-1.103	-1.2501
NXPE2	-1.9479	-1.6223	-2.2394	
PPP1R36	-1.2809	-1.0761	-1.5157	-1.4723
JCHAIN	-2.9798	-2.4904	-3.5067	-3.4095

RASSF6	-1.0416	-0.92403	-1.2933	-1.3532
CHL1	-1.1596	-0.99653	-1.4013	
WDR78	-1.4666	-1.1861	-1.6881	
ATP8B1	-1.2878	-1.0188	-1.4933	-1.6823
MOGAT2	-0.97082	-0.77482	-1.1605	
DHDDS	-0.99374	-0.80164	-1.2019	-1.2246
MON2	-0.6194	-0.62419	-0.8489	-0.96604
NXPE1	-2.7047	-2.7488	-3.3983	
KIAA0513	-0.7129	-0.73164	-0.90634	-1.9569
CLCA1	-4.284	-4.0471	-5.2938	-4.9206
CA1	-5.0725	-4.8206	-6.3656	-7.1469
ADAMDEC1	-2.4624	-2.5305	-3.5136	-3.6042
PRDX6	-1.4614	-1.0716	-1.1479	-1.238
PDE8A	-1.3014	-0.9869	-1.0111	-1.1924
IL6R	-1.4121	-1.0814	-1.1167	
PXMP2	-1.4768	-0.99543	-1.2621	-1.3922
SMPDL3A	-2.8118	-1.8284	-2.226	-2.377
LRRC19	-2.9957	-2.1054	-2.493	-2.7355
DHRS11	-2.4855	-1.7373	-2.0285	-2.1376
TRPM4	-0.93056	-0.75064	-0.83641	-0.92304
MPC1	-1.3771	-1.1119	-1.3384	-1.4298
BCAS1	-2.3669	-1.9117	-2.1873	-2.5423
TSPAN7	-2.5693	-1.8156	-2.4484	-2.3078
IQGAP2	-1.9664	-1.3406	-1.8067	-1.6985
RPS6KA1	-0.93234	-0.65622	-0.81932	-1.3442
PLCE1	-2.4669	-1.818	-2.2246	
EPHX2	-1.6973	-1.304	-1.6642	-1.4187
ACAA2	-1.4511	-1.1796	-1.3419	-1.2133
LRRC1	-1.2069	-0.63512	-0.99739	-1.0523
IMPA1	-1.1373	-0.53895	-0.93511	-0.96495
SLC46A3	-1.5141	-0.77697	-1.0679	-1.2745
SLC51B	-4.2328	-2.4887	-3.4341	
MS4A12	-6.5875	-3.8059	-5.2117	-6.0958
AVPI1	-1.0562	-0.58534	-0.80496	-1.2095
CLIC5	-1.6959	-0.99662	-1.2688	-1.6705
BEST4	-4.1622	-2.2346	-3.2215	-4.0097
TUBAL3	-2.2969	-1.0324	-2.329	-1.9559

SLC41A2	-1.6924	-0.75444	-1.6676	-1.3555
STX12	-0.99201	-0.40297	-0.96824	-0.81139
GOT1	-0.94289	-0.48098	-1.0341	-0.89363
PLS1	-1.2954	-0.6067	-1.2021	-1.1027
TRAF3IP2	-0.93825	-0.43475	-0.83042	-0.82758
C11orf54	-0.95377	-0.43313	-0.88574	-0.87131
SMIM14	-1.9762	-1.0786	-1.8283	-1.627
NDRG2	-1.2378	-0.69666	-1.2079	-1.0597
MMUT	-0.71807	-0.4347	-0.69937	-0.62694
PBLD	-2.0017	-1.099	-1.8801	-1.7897
PLCL2	-1.8553	-1.1452	-1.6831	-1.8425
HHLA2	-3.1873	-2.0445	-2.8932	-2.2242
EFNA5	-1.2489	-0.80384	-1.1237	
MAOA	-1.7973	-1.1224	-1.7694	-2.0291
BMP3	-2.2252	-1.4115	-2.1863	
FCGBP	-4.0609	-2.3866	-3.9324	-4.1708
ABCG2	-3.895	-2.2548	-3.7159	
HSD17B11	-1.1073	-0.71107	-1.1851	-1.1287
CWH43	-3.8604	-2.3014	-4.0522	-3.8893
ALDH1A1	-1.4303	-0.94589	-1.4779	-1.3675
USP2	-1.5618	-0.5884	-1.7707	-1.3217
FMO4	-1.2297	-0.39848	-1.2727	-0.95669
ITM2C	-2.5394	-1.1064	-1.9843	-1.8591
DHRS9	-4.848	-2.0404	-3.4248	-3.5608
SLC39A5	-1.2138	-0.34892	-1.0556	-1.083
C5orf30	-1.4285	-0.40535	-1.2206	-1.394
CEACAM7	-4.9248	-1.6952	-3.8583	-3.9395
ADTRP	-3.974	-1.3211	-3.3171	-3.3959
GALM	-0.80403	-0.19941	-0.76511	-0.62999
ACVR2A	-0.82026	-0.15347	-0.68598	-0.65092
TPSG1	-1.1565	-0.5318	-0.8635	-1.0215
TDRD7	-0.9435	-0.38363	-0.64752	-0.81137
ANPEP	-4.3516	-1.8109	-3.0392	-3.927
AHCYL2	-2.9226	-1.1511	-2.3359	-2.7659
PDCD4	-1.8505	-0.8139	-1.5778	-2.1081
GLTP	-1.6141	-0.74019	-1.4717	-2.0166
PLCG2	-1.3337	-0.44596	-1.0555	-1.4276

MTUS1	-1.0412	-0.35013	-0.85251	-1.2413
PAPSS2	-2.0107	-0.7497	-1.6122	-2.4288
GPAT3	-2.8781	-1.0832	-2.256	-3.3407
FLNB	-1.0701	-0.44263	-0.80816	-1.2308
METTL7A	-2.3725	-0.97062	-1.7568	-2.5257
BAIAP2L2	-0.84657	-0.33679	-0.63308	-0.91151
GAREM1	-1.1673	-0.56728	-0.9148	-1.386
RHOA	-1.397	-0.60345	-0.81187	-1.4074
PANK3	-1.1639	-0.5974	-0.83783	-1.393
IL1R2	-2.7004	-1.3266	-1.8229	-2.4803
GNA11	-1.6728	-0.79099	-1.1155	
ENTPD5	-2.7344	-1.1832	-1.7638	-2.6961
AQP8	-6.5807	-2.5313	-4.4216	-6.4368
PLPP3	-0.88211	-0.45844	-0.72717	-0.87667
SELENBP1	-2.5918	-1.2573	-2.2006	-2.5805
ADH1C	-5.0825	-2.5541	-4.2616	-5.1024
PRR5L	-1.1982	-0.62728	-1.0184	-1.2486
KRT12	-1.1274	-0.58633	-0.98524	
BCL10	-0.91602	-0.51152	-0.77381	-0.94774
CDH17	-0.80838	-0.40242	-0.62493	-0.88634
PHYKPL	-1.5266	-0.95341	-1.0309	-1.6962
PLEKHG6	-0.95637	-0.65608	-0.67196	-0.94409
THRB	-1.3853	-0.9208	-0.96986	
CHMP1B	-1.0328	-0.68929	-0.74282	-1.0559
CCL15-CCL14	-1.79	-1.1881	-1.2757	
DEFB1	-2.0959	-1.3562	-1.4503	-1.7057
GUCA2A	-6.0257	-3.7619	-4.119	-5.4411
EXT1	-0.85988	-0.53244	-0.61561	-0.75388
AMN	-1.7551	-1.0297	-1.0649	-1.6499
CHGA	-4.688	-2.2498	-2.8963	-4.3615
SPON1	-1.8032	-1.7665	-1.3054	
TMEM9B	-0.84469	-0.84083	-0.59219	-0.90746
MYO7B	-0.85729	-0.87181	-0.62307	
SOCS6	-1.1113	-1.0808	-0.95261	-1.0369
ZZEF1	-1.5515	-1.3017	-1.2984	
ETHE1	-2.0012	-1.6662	-1.6782	-1.594
SNX24	-1.1833	-1.0688	-1.0743	-1.0928

DNASE1L3	-2.571	-2.1916	-2.3009	-2.2428
KLF4	-2.8275	-2.532	-2.2415	-1.4271
CADM3	-0.80379	-0.70998	-0.63589	
RETREG1	-1.5782	-1.7194	-1.3799	-1.0625
TRPM6	-3.3375	-2.638	-2.9147	
DISP2	-1.0803		-0.93358	-1.602
NBEA	-1.1733	-1.357	-0.94549	
KRCC1	-1.1607	-1.293	-1.1616	-1.0814
UGP2	-1.6063	-1.4629	-1.44	-1.0959
ACADVL	-1.1943	-0.98819	-1.0037	-0.79663
ITLN1	-4.1934	-3.7625	-3.7707	-3.208
LGALS2	-3.6657	-3.4854	-3.0777	-2.398
FAM118B	-0.82402	-0.82702	-0.81417	-0.59433
NANS	-0.76824	-0.8493	-0.78301	-0.6198
CAPN13	-1.6072	-1.7239	-1.5613	-1.3274
ATG4D	-0.75349	-0.80126	-0.72193	-0.61941
PIP5K1B	-1.2522	-1.2406	-1.0811	-0.96424
ANGPTL1	-1.8573	-1.8155	-1.6797	
ACSS2	-1.1212	-1.0983	-1.016	-1.176
TCF21	-1.3516	-1.1043	-1.0835	-0.76069
ZBTB16	-1.9603	-1.5003	-1.4008	
RALGAP1		-1.6489	-1.5406	-0.98485
CD36	-2.2339	-1.7907	-2.0109	-1.3674
STAP2	-1.2691	-0.94596	-0.9534	-0.78178
PCSK7	-1.0718	-0.7831	-0.81395	-0.64753
TLN2	-1.0085	-0.80436	-0.78829	-0.62318
MINDY1	-0.9155	-0.71971	-0.67705	-0.58883
MGLL	-1.4547	-1.0122	-1.113	-1.0461
HSD11B2	-2.5947	-1.8688	-1.9863	-1.8372
CALCOCO2	-0.9757	-0.70655	-0.72811	-0.66574
FHL1	-2.2787	-1.8061	-1.48	-1.5359
C4orf19	-1.6352	-1.22	-1.0865	-1.233
BCHE	-1.8113	-1.3437	-1.201	
APPL2	-1.742	-1.2384	-1.1939	-1.2697
GSTZ1	-1.0928	-0.90855	-0.62803	-0.63866
FXD3	-1.5645	-1.4272	-0.91631	-1.0247
CKB	-2.2833	-2.2469	-1.3361	-1.4276

ZG16	-5.0129	-4.3042	-3.4014	-4.8223
MISP	-0.95978	-0.82802	-0.66926	-0.7707
GNA14	-0.9956	-0.90888	-0.73338	-0.88687
TDP2	-1.814	-1.514	-1.171	-1.5547
ABHD3	-2.1415	-1.7541	-1.4885	-1.8751
VPS37B	-0.93556	-0.93688	-0.65298	-0.85986
FAS	-1.6585	-1.5707	-1.0562	-1.5553
PPARG	-0.95425	-1.0269	-0.726	-1.0404
LPAR1	-1.5607	-1.713	-1.0313	-1.5897
ADAMTSL3	-1.099	-1.1566	-0.73928	
ASAP2	-0.79419	-0.77416	-0.49205	-0.89047
LPP	-0.97092	-0.77311	-0.58008	-0.9745
RCAN2	-1.4201	-1.0954	-0.74008	-1.2624
FXYD1	-1.767	-1.3704	-0.93137	-1.5698
ADH1B	-4.3753	-3.1746	-2.3917	-3.8508
BMP2	-2.3386	-1.5536	-1.2081	-2.1704
MAST2	-1.1648	-0.79305	-0.65265	-0.96414
C2orf88	-4.3265	-2.8293	-2.3945	-3.4427
ST3GAL4	-1.4895	-1.5516	-0.68324	-1.2913
RFLNA	-0.96275	-1.112	-0.52849	-0.92851
NEUROD1	-1.1633	-1.4188	-0.68726	
DUSP1	-1.1306	-1.4207	-0.73711	-1.5438
B3GALT5-AS1	-2.0311	-2.4623	-1.3019	
STAB1	-0.9203	-1.3609	-0.8382	-0.88732
STARD5	-0.98126	-1.5049	-0.74972	-0.9207
C12orf57	-0.6881	-1.1293	-0.5862	-0.63115
NFKBIA	-0.71329	-1.1236	-0.45174	-0.72552
C4orf33	-0.9271	-1.4007	-0.78411	-1.1409
S100B	-1.229	-1.5927	-0.84926	-0.75392
LARGE1	-0.7244	-0.92489	-0.55233	-0.62383
DNM2	-0.68884	-0.83802	-0.52851	-0.59538
CPED1	-0.86841	-1.164	-0.73197	
CASQ2	-1.3644	-1.7543	-1.1474	
SYNC	-1.1978	-0.72911	-0.28775	-1.3461
VIP	-4.1839	-1.786	-1.734	-2.8461
ENDOD1	-2.0063	-0.85151	-0.7235	
CHP2	-4.3399	-2.0837	-1.845	-3.9667

PYY	-3.6924	-2.0822	-1.7358	-4.8107
GREM2	-3.3628	-1.9315	-1.6507	
ADAMTS1	-1.618	-0.76542	-0.69961	-2.0625
F2RL1	-1.3856	-0.83655	-0.53195	-1.5001
GPM6A	-1.2913	-0.74508	-0.67974	
DNAJB4	-1.1385	-0.66223	-0.61776	-1.2198
KCTD9	-1.0424	-1.0214	-0.47407	-1.3869
NLGN4X	-0.70896	-0.65277	-0.53675	-1.0846
GHR	-1.5828	-1.3319	-1.0812	-2.2966
PTGER4	-1.0322	-0.97055	-0.73193	-2.2184
FAM107A	-1.5038	-1.4301	-1.1107	
AKAP13	-0.69891	-0.70962	-0.52863	-1.4256
VSTM2A	-0.9186	-0.65565	-0.59184	
MPPE1	-0.97998	-0.71005	-0.63851	-1.3084
AFG3L2	-0.90829	-0.70665	-0.6207	-1.1944
DQX1	-1.3751	-0.88562	-0.90597	-1.6971
PDE9A	-3.2306	-2.1365	-1.7212	-3.1355
DAO	-1.25	-0.83436	-0.68113	
PLEKHA6	-0.80475	-0.59328	-0.4296	-1.203
CALML4	-1.0149	-0.74014	-0.60185	-1.5253
FBLIM1	-0.96485	-0.79273	-0.55389	-1.4747
LGI1	-1.1331	-0.93131	-0.59864	
ASAP3	-1.216		-0.64753	-1.6402
TMEM120A	-0.98554	-0.60391	-0.59175	-0.38214
SLC13A2	-1.1783	-0.71189	-0.69049	
SMPD1	-1.6693	-0.8708	-0.93252	-0.56315
ITM2A	-2.3104	-1.1695	-1.21	-0.61555
P2RX4	-1.5531	-0.74223	-0.97619	-0.43716
MMP28	-2.7093	-1.1627	-1.2851	-0.94798
PLAC8	-3.0775	-1.6368	-2.9886	-2.021
TP53I3	-1.5259	-0.7132	-1.1919	-0.57964
TSPAN1	-2.6842	-1.9805	-2.0517	-1.3984
NAP1L2	-1.5876	-1.065	-1.1651	
CCL28	-2.1491	-1.4177	-1.5895	-0.82042
SERINC2	-1.28	-0.75955	-0.90154	-0.57159
SDCBP2	-2.1295	-1.1978	-1.634	-1.1021
MOB3B	-1.6752	-0.93336	-1.3196	-0.92248

TMEM100	-3.4424	-1.8741	-2.4935	
CCL19	-2.1043	-1.2024	-1.5096	-1.3703
OTOP2	-4.5567	-2.8537	-3.6407	-2.8796
TMIGD1	-6.9045	-4.431	-5.7291	
EPB41L4B	-1.0931	-0.6752	-0.9055	
SGK2	-2.1148	-1.2661	-1.6419	-2.1897
CA7	-4.6376	-2.7126	-3.545	
SQOR	-1.6336	-1.0755	-1.4856	-1.1658
GRAMD2B	-1.6813	-1.0252	-1.4489	-1.1547
C10orf99	-2.4143	-1.4845	-2.2759	-1.6713
GPA33	-2.287	-1.1994	-1.7066	-1.3516
VSIG2	-3.7712	-1.9607	-2.1633	-2.7618
STMN2	-3.0748	-1.8813	-1.7536	-2.1043
RIOK3	-1.7292	-1.0741	-1.0406	-1.2449
PLPP1	-1.967	-0.58092	-1.0668	-1.0086
MALL	-2.6339	-0.76561	-1.4294	-1.2347
RILP	-1.6823	-0.76679	-0.8735	-0.82981
PID1	-1.7071	-0.77497	-0.88439	
PTPRH	-2.1456	-1.0147	-1.0936	-1.3166
PIGZ	-2.301	-0.77885	-1.3215	-1.3785
GDPD3	-3.0172	-1.1215	-1.6788	-1.6926
GGT6	-2.271	-0.88906	-1.125	
GUCA2B	-6.5091	-2.5171	-3.3675	
EPB41L3	-2.1459	-0.82344	-1.0854	-2.1392
HRCT1	-2.5182	-1.0152	-1.3906	
CES2	-2.4208	-0.98167	-1.3144	-1.5488
PARM1	-1.8255	-0.98141	-1.2331	-1.2337
TMEM171	-2.9131	-1.4031	-1.8273	-1.5083
HPGD	-3.8743	-1.9502	-2.3076	-2.1978
RETSAT	-2.047	-0.95165	-1.3179	-1.2151
CPT1A	-1.5334	-0.68935	-0.98894	-0.87266
CAPN2	-1.4417	-0.70202	-0.91777	-0.82616
MYO1A	-2.4493	-1.1004	-1.5205	-1.5639
BEST2	-3.8553	-1.7969	-2.3356	-2.4122
LIMA1	-1.6278	-0.57798	-0.97715	-0.87243
LIPH	-1.8805	-0.72783	-1.2502	-1.0435
HSD17B2	-4.3291	-1.7606	-2.8785	-2.4305

CASP7	-1.8782	-0.76341	-1.2616	-1.1228
CDHR2	-2.4145	-0.82434	-1.6994	-1.3622
CXCL12	-2.4814	-0.90774	-1.0253	-1.5483
C2orf40	-4.3179	-1.5965	-1.6529	
MXI1	-1.9029	-0.84378	-0.35734	-0.71879
GPX3	-2.5183	-1.1557	-0.68084	-1.2353
STIM1	-0.94087	-0.62772	-0.32059	-0.99307
DPT	-2.9208	-1.8402	-0.86571	
SFRP1	-2.8567	-1.5198	-1.1273	
MICALCL	-1.4055	-0.74531	-0.55813	-1.2314
COLEC12	-1.882	-1.1729	-0.7292	-1.1465
ACVRL1	-1.5954	-0.99823	-0.66219	-0.98213
SCIN	-3.2249	-0.85434	-1.1433	-2.5867
MT1H	-3.7292	-0.64519	-1.423	-3.6297
LDHD	-3.3122	-0.64834	-1.3617	
MPND	-1.0146	-0.24669	-0.61006	-1.138
NDNF	-1.4224	-0.26279	-0.75472	-1.2699
AP3S2	-1.1764	-0.30315	-0.65095	-1.0618
ENTPD8	-1.5773	-0.30435	-0.80513	-1.5652
MATN2	-2.2341	-0.70867	-1.0507	-2.1915
CPT2	-1.3717	-0.40395	-0.61939	-1.5256
PNLIPRP2	-1.2325	-0.2101	-0.8171	-1.0238
SLC25A20	-1.4831	-0.34418	-0.94166	-1.2239
DSC2	-2.0459	-0.51879	-1.2757	-1.7562
SLC22A18AS	-2.3536	-0.87676	-1.3659	-1.6964
SH3BGRL2	-1.1731	-0.36558	-0.60437	-0.85326
PGM1	-1.6575	-0.54873	-0.88272	-1.1476
RUNDC3B	-2.7791	-0.78696	-1.6783	
PLCD1	-2.3512	-0.66934	-1.3514	-2.0159
GOLM1	-1.4765	-0.46864	-0.81539	-1.1903
ACADS	-2.4052	-0.74682	-1.454	-1.6927
EDN3	-3.0567	-0.83207	-1.4441	-2.2303
C1orf115	-2.398	-0.37482	-1.2694	-1.4364
BCAR3	-1.8853	-0.42259	-0.84227	-1.1383
CIPC	-1.4879	-0.75592	-0.63362	-1.2171
CA4	-6.1683	-2.6576	-2.9179	-4.522
CDHR5	-2.5698	-0.95139	-1.2566	-2.0485

AOC1	-1.7911	-0.69981	-0.95996	-1.5097
JOSD1	-0.80012	-0.06965	-0.66373	-0.70631
ME2	-0.86216	-0.17274	-0.73933	-1.0024
IDH3A	-0.92507	-0.18204	-0.74498	-1.0176
CHP1	-1.4495	-0.27843	-0.97161	-1.5647
CHCHD10	-1.0104	-0.20795	-0.752	-1.174
CCNYL1	-1.1452	-0.25693	-0.79965	-1.1333
ZNF789	-0.23906	-0.64467	-0.7719	-2.199
TTR	-0.39526	-0.84296	-0.72408	-2.3533
SLAMF7	-0.59352	-0.74533	-0.99565	-2.5362
CHGB	-0.59438	-0.83425	-1.1715	-2.9526
NPHP3	-0.16197	-0.74831	-1.0364	-2.2063
NKTR	-0.22294	-0.98657	-0.75508	-2.0488
EYA2	-0.93663	-0.10508	-1.611	-5.0633
SOSTDC1	-0.68677	-0.44964	-1.7704	-2.1076
ADH6	-0.89156	-0.36422	-1.6717	-1.7453
STPG1	-0.72438	-0.34616	-1.0105	-1.6394
EDNRB	-0.75301	-0.28838	-1.2057	-1.8556
C7orf31	-0.70579	-0.4337	-1.3682	-1.9618
SLITRK6	-1.7054	-0.50971	-2.0567	-2.9516
MZB1	-1.2366	-0.34663	-1.3504	-1.9938
HMGCR	-0.64544	-0.14659	-0.66019	-1.0625
ELOVL6	-1.2213	-0.38902	-1.1623	-1.8555
EHHADH	-0.79253	-0.07098	-1.0427	-1.1503
CYP2C18	-1.5344	-0.15894	-1.5633	-2.087
SLC51A	-1.2359	-0.08114	-1.5937	-2.8685
ETNK1	-1.1162	-0.02347	-1.0486	-1.8645
ALDH3A2	-0.6287	-0.00365	-0.65955	-1.2206
TP53INP2	-1.3893	-0.94775	-0.45715	-2.2712
MT1X	-1.7362	-0.85249	-0.21788	-2.602
RIPK3	-0.65807	-0.68106	-0.30604	-2.2797
PRADC1	-0.85587	-0.92839	-0.83477	-2.8143
LYVE1	-2.4334	-2.4517	-1.4065	-6.7052
PTPN21	-0.85114	-0.70142	-0.57283	-1.6699
ADH1A	-1.9176	-1.5282	-1.2843	-4.203
DAPK2	-0.6177	-0.6086	-0.57049	-1.4978
RBM47	-1.0845	-0.49034	-0.95159	-1.6705

PAQR5	-1.6879	-0.8252	-1.3963	-2.4936
KLF9	-1.2227	-0.48599	-1.024	-2.2173
BARX2	-1.5526	-0.43497	-1.2007	-2.5303
IGSF10	-1.4242	-0.57681	-0.60439	-2.6188
EIF4E3	-1.8775	-0.89145	-1.0267	
CD177	-4.5269	-2.2522	-2.456	-6.3437
AIFM3	-1.3867	-0.70782	-0.67961	-2.2713
SCO1	-0.67677	-0.27051	-0.68542	-1.4696
ECHDC2	-0.68706	-0.45789	-0.73247	-1.6537
FGFR3	-0.68308	-0.37648	-0.62501	-1.9041
EVI2B	-0.87199	-0.22559	-0.93313	-2.2538
FOXA1	-1.0896	-0.3765	-0.58622	-2.0453
MB	-1.3333	-0.19199	-0.71875	-2.3995
C1orf210	-1.6358	-0.25433	-1.1091	-3.3041
BLNK	-0.85639	-0.13749	-0.59748	-1.6869
TTLL7	-0.19044	-1.4782	-1.3101	-1.292
RBM25	-0.15553	-0.7337	-0.63736	-0.72102
FBXW7	-0.16005	-0.73128	-0.69557	-0.67925
REV1	-0.10562	-0.60906	-0.61607	-0.76842
MAPRE3	-0.10258	-0.95895	-0.96224	-1.0844
LUC7L3	-0.0235	-1.0502	-1.2099	-1.1585
BTA1F1	0.016362	-0.80447	-0.84959	-1.1335
STARD10	-0.39335	-1.0609	-0.69565	-0.94257
FAM162A	-0.64191	-1.4131	-0.88786	-1.2698
ZNF440	-0.33334	-1.3753	-1.0538	-1.3712
PELI1	-0.20713	-0.93901	-0.6221	-0.91448
CLK1	-0.18984	-1.1548	-0.81844	-1.1953
SLC36A1	-0.42197	-0.9835	-0.86171	-1.1538
CDX1	-0.3089	-0.94349	-0.71555	-1.0989
UNC13B	-0.35654	-0.92477	-0.70875	-0.91756
GCH1	-0.27618	-0.77353	-0.63807	-0.82235
LLGL2	-0.28551	-0.77859	-0.69219	-1.2997
ABCA10	-0.5943	-1.5971	-1.4234	
PTPN22	-0.22205	-0.95465	-1.1715	-1.4256
PLAGL1	-0.32002	-0.76858	-1.1563	-1.2625
WSB1	-0.39724	-0.94609	-1.0488	-1.3021
FGFR2	-0.73255	-1.7464	-1.9889	-2.547

AFF1	-0.28583	-0.61309	-0.69824	-1.0332
TBRG1	-0.35965	-0.77297	-0.5987	-1.2621
RAPGEFL1	-0.79261	-1.3206	-1.24	-2.3361
REV3L	-0.51481	-0.89615	-0.82187	-1.4717
KLHDC1	-0.8746	-1.5357	-1.4231	-2.5858
DMXL2	-0.58426	-1.055	-1.232	-2.609
DGLUCY	-0.35722	-0.86783	-0.94208	-1.8672
INTS6L	-0.56022	-1.3794	-1.4493	-3.3201
ANO5	-0.83457	-2.2382	-2.351	
RCOR3	-0.14303	-0.82985	-0.61606	-1.0704
DMTF1	-0.16654	-1.0359	-0.84786	-1.6054
CCNL1	-0.34142	-1.2864	-0.96395	-1.8847
CLK4	-0.18086	-0.93704	-0.90582	-1.3881
PRPF39	-0.0686	-0.61586	-0.70262	-1.349
AHSA2P	-0.05749	-1.3014	-1.5413	-2.5803
CDHR1	-0.02702	-1.9616	-1.0917	-2.3545
ARGLU1	-0.01507	-1.073	-0.59902	-1.6669
SLC4A10	-0.67498	-1.0718	-2.4734	
ADAM28	-0.56335	-1.0508	-1.992	-2.744
GSTM2	0.009772	-1.5014	-1.2648	-0.85964
PLGRKT	-0.78411	-1.2497	-0.15895	-0.59674
SVIL	-0.64247	-0.97543	-0.03735	-0.95166
F13A1	-1.292	-2.3743	-0.79827	-1.8183
CHRD1	-1.289	-2.2148	-0.74371	
FNBP1	-1.2098	-1.0972	-0.13991	-1.0261
FOLR2	-1.0423	-1.6648	-0.9628	0.80288
3-Mar	-0.89684	-1.0456	-0.63879	0.74111
VAMP8	-0.78135	-0.6835	-0.71317	0.060384
RIMKLA	-0.74293	-0.59584	-0.72731	0.35066
PAG1	-1.471	-1.1498	-1.4104	
TNFAIP8L3	-0.79403	-0.77178	-0.66155	
KIF1C	-0.7779	-0.76663	-0.66774	0.21614
GINM1	-0.73965	-0.74321	-0.58732	0.3075
KAT2B	-0.79322	-1.0671	-1.106	
AKR7A3	-0.99965	-1.2828	-1.3151	0.49379
TPM1	-0.83534	-1.2644	-0.83653	-0.11916
B3GNT7	-1.7973	-2.8042	-1.8623	

CYSTM1	-0.73692	-1.2116	-1.0545	0.094423
MS4A6A	-0.72856	-1.4385	-0.70109	0.48891
KCNMA1	-1.2259	-2.2456	-1.1913	
GPR34	-0.64557	-1.7678	-0.72499	0.49415
CFL2	-1.3318	-1.9779	-0.85312	0.05334
BLOC1S1	-0.9413	-2.0054	-0.7613	0.13174
SRPX	-3.0441	-1.3022	-0.6611	0.43682
GSN	-2.0668	-1.1523	-0.77005	0.19262
CTSG	-2.2381	-0.63024	-0.67932	0.5255
HRASLS2	-3.9903	-1.2425	-1.294	-0.4515
CFD	-3.9873	-1.5506	-1.2561	-0.87443
SECTM1	-1.9755	-1.4937	-1.3336	-1.0245
SST	-3.6167	-2.7168	-2.2973	
MXD1	-1.6205	-1.2077	-1.0152	
CFH	-1.6402	-1.1916	-1.0126	-1.0077
MAPK3	-1.1668	-0.79148	-0.65575	-0.57329
CLDN7	-1.2091	-0.7935	-0.85936	-0.42619
ACAA1	-0.91284	-0.59935	-0.68952	-0.29261
TMEM127	-0.75171	-0.67512	-0.6386	-0.27352
NIT1	-0.91964	-0.74927	-0.73387	-0.43828
GLIPR2	-1.1964	-1.0329	-0.92329	-1.3213
CLDN8	-4.4646	-3.7374	-3.4411	
CGRRF1	-0.92939	-0.91982	-0.72745	-0.45286
C7	-2.151	-2.0749	-1.6597	
TMEM59	-0.94412	-0.73974	-0.50673	-0.70604
OGN	-3.5925	-2.8532	-1.6969	
CPA3	-2.1355	-1.8061	-1.2653	-0.59448
JAM2	-1.2642	-1.2009	-0.62804	-0.33321
SLIT2	-1.4393	-1.2079	-0.63256	
GGTA1P	-1.6344	-1.3704	-0.6486	
MYLK	-2.0513	-1.5128	-0.8357	-0.16479
INSL5	-3.6467	-3.268	-1.2859	
FABP4	-4.0623	-3.8152	-1.2525	
AKR1C1	-2.1297	-2.1253	-0.91808	-0.73889
CDA	-1.9632	-1.1561	-0.67013	-0.26604
ABI3BP	-2.8079	-1.6303	-1.0059	
DOK4	-0.9722	-0.5956	-0.67758	-0.14976

FGL2	-2.1402	-1.3353	-1.5047	-0.05248
CAPN5	-1.3743	-0.8666	-1.0384	-0.12719