	RMSE	Observed Mean	Observed Stdev	RMSE:Stdev	Calculated R^2
LYPD6B	0.73	0.017412694	0.860709702	0.843561989	0.28840317
TLX2	0.86	0.150522895	1.007851683	0.849456361	0.278423891
VSIG2	1.23	0.038410919	1.413706912	0.86672257	0.248791987
VRTN	1.01	0.178655594	1.142236331	0.88617575	0.21469254
PLA2G1B	0.8	-0.004326341	0.895931633	0.891324184	0.205541199
TRIM15	0.96	0.010474784	1.071201463	0.893438817	0.20176708
PRAME	0.97	-0.060621007	1.087387902	0.895128331	0.198745272
HNF1B	0.76	-0.054664333	0.845325072	0.904119802	0.182567383
RRAD	1	0.097270098	1.103220052	0.906991624	0.177366195
SLC7A3	0.94	0.022587899	1.028332987	0.911583885	0.16901482
PRLR	1.68	0.137478796	1.833360268	0.914568246	0.163564924
PDE8B	1.04	0.086577968	1.139897126	0.9164391	0.160139376
HIST1H2BH	0.92	-0.045896618	1.004537421	0.920003298	0.153593931
HOXB13	1.28	0.116944149	1.393201764	0.921370836	0.151075782
KRT14	1.02	0.079554628	1.104238425	0.923149526	0.147794952
CDX1	1.18	0.149874866	1.264580563	0.929575491	0.135889407
RHBG	0.93	0.020930602	0.995251473	0.931265482	0.132744603
PVALB	1.76	0.297115079	1.890056145	0.932113164	0.13116505
CAPN8	0.69	-0.033130313	0.737437879	0.932923206	0.129654292
ASRGL1	0.99	0.133084431	1.059634485	0.936231807	0.123470003
ISL1	1.26	0.239534479	1.342505295	0.938182722	0.119813179
CHRM1	0.51	-0.072455138	0.539267966	0.943111716	0.110540291
RNASE2	0.88	-0.068194767	0.930236561	0.944722044	0.107500259
MLPH	0.83	0.211425354	0.878817358	0.945993185	0.105096894
S100A14	0.93	0.122157312	0.983770596	0.94776373	0.101743911
SLC17A7	1.3	0.325999369	1.365750368	0.949733782	0.098005743
HOXD8	0.81	-0.362637281	0.851501095	0.950065065	0.097376372
PTPRZ1	0.89	-0.189242091	0.931712717	0.951510395	0.094627968
CD8B	1.04	0.055579991	1.09627453	0.952122158	0.093463397
SFTPA2	1.23	0.202074059	1.291147946	0.953513949	0.090811149
PLAC8	1.51	0.048511288	1.58177345	0.954383653	0.089151843
TMEM100	1.83	0.244251065	1.909975422	0.958425736	0.081420109
SFTPA1	1.14	0.183287424	1.190111482	0.959188798	0.07995685
SCGB3A1	1.17	0.081089412	1.220511324	0.959638049	0.079094815
HPX	1.26	0.31254419	1.308705027	0.964826379	0.069110059
KLK4	0.79	0.080377625	0.821221366	0.965891163	0.067054262
TBX3	0.99	0.014212834	1.026919698	0.966438388	0.065996841
SCGB1A1	0.91	-0.03586086	0.936580435	0.967794679	0.06337346
HIST1H3J	0.61	-0.0508112	0.632223645	0.967980576	0.063013605
SCTR	1.76	0.446009551	1.817860893	0.969717799	0.059647391
FGFBP1	0.93	0.081908412	0.9547114	0.97019595	0.058719819
KRT17	1.24	0.041716569	1.282656981	0.970202807	0.058706513

SLC27A6	1.61	0.131553482	1.66146675	0.970522905	0.058085291
SFTPC	1.32	0.239583515	1.356148161	0.97291077	0.053444633
HOXC10	1	0.071338112	1.025634502	0.97388468	0.051548629
VPREB1	0.75	0.112629206	0.766016103	0.974018963	0.05128706
SFRP5	1.52	0.196263908	1.557324046	0.974126654	0.051077261
MAB21L2	0.98	0.030975706	1.005572978	0.974448588	0.050449948
MTRNR2L8	1.21	0.149786992	1.240767649	0.975194799	0.048995105
PANX3	1.99	0.296081644	2.044528925	0.97532904	0.048733264
PAX9	0.99	0.127378731	1.006804035	0.978604885	0.042332478
CPB2	1.28	0.257243256	1.311177158	0.979551872	0.040478129
FOXA1	1.08	0.045804041	1.099012243	0.98169064	0.036283488
BAALC	1.57	0.116630196	1.6012036	0.98172087	0.036224133
GCGR	0.54	-0.030340979	0.550391835	0.982377454	0.034934537
DCDC2	1.1	0.00783402	1.118990868	0.982573051	0.0345502
CUX2	1.88	0.41344616	1.907797629	0.984085666	0.031575402
SPNS3	1.32	0.074331255	1.339542791	0.984683864	0.030397689
MEST	0.93	-0.029496748	0.944635704	0.985442917	0.028902257
ASCL2	1.07	0.156144203	1.084102087	0.985751948	0.028293096
CD3D	1.15	-0.034226283	1.161842814	0.985980789	0.027841883
CA9	1.02	0.192289859	1.036547931	0.985991939	0.027819897
IYD	0.96	-0.084841543	0.971001267	0.988926531	0.022024316
UPK2	1.47	0.298653351	1.484524967	0.989872493	0.020152447
CDHR5	1.15	0.038907398	1.165296476	0.990799915	0.018315529
S100A7	1.53	0.182260822	1.54390257	0.991303032	0.017318298
GJB1	0.46	-0.14623831	0.46046945	0.99182719	0.016278826
HOXB8	0.98	-0.014189495	0.986033196	0.992653326	0.014639375
MIOX	1.17	0.07963746	1.175797062	0.993909271	0.012144361
POU3F3	1.68	0.305382639	1.685446136	0.994192331	0.011581609
HIST1H2AI	0.99	-0.040854686	0.990011959	0.996213703	0.007558259
HOGA1	1.36	0.134042172	1.362431542	0.99713937	0.005713078
CCL13	1.1	-0.025221537	1.099111854	0.997540524	0.004912904
NEFH	1.67	0.209162421	1.676832406	0.998329034	0.003339141
TMEFF2	1.72	0.223668593	1.72058094	0.998398089	0.003201255
MRGPRF	1.38	-0.039322992	1.376516139	0.999425459	0.001148753
ADCYAP1R1	2.05	0.313249433	2.052812238	0.999895197	0.000209594
FGF21	1.22	0.065029503	1.217734597	1.00039251	-0.000785173
CARTPT	1.36	0.197339417	1.357957153	1.000675094	-0.001350645
11-Mar	2.14	0.327539137	2.131117571	1.002503449	-0.005013165
PLP1	2.04	0.392957865	2.03019028	1.002651157	-0.005309343
DBH	1.42	0.30674717	1.410213837	1.003428156	-0.006868065
PEG10	1.46	0.201325814	1.455055933	1.003428952	-0.006869661
MEOX1	0.9	0.054294337	0.896066835	1.00376267	-0.007539498
SFTPB	0.51	0.000117593	0.504125413	1.003873262	-0.007761526

FAIM2	1.26	0.03323989	1.255909041	1.003918976	-0.007853311
INS	1	0.097367511	0.994074735	1.004211001	-0.008439735
HIST1H2BE	1.07	0.063254826	1.06059391	1.004309314	-0.008637198
LRRC14B	1.28	0.201952976	1.273872674	1.005805168	-0.011644037
GATA3	1.99	0.225685242	1.974381491	1.006120865	-0.012279194
SP7	1.92	0.291701801	1.90868037	1.006513414	-0.013069253
LRRC15	1.2	-0.033019294	1.192654353	1.006570075	-0.013183315
HOXD11	1.4	0.197646008	1.385369887	1.007797009	-0.015654812
GSTA3	1.94	0.358495362	1.92698191	1.008603642	-0.017281307
MEF2B	1.08	0.002536636	1.068132376	1.00965804	-0.019409357
BIRC7	1.98	0.447086806	1.965663294	1.009829357	-0.01975533
GAP43	0.81	-0.008676796	0.801804668	1.00988267	-0.019863008
F7	2.06	0.290943654	2.036075426	1.010222573	-0.020549647
MLC1	1.65	0.296595139	1.631448923	1.012412619	-0.024979311
HIST1H2AM	0.91	-0.004218202	0.89716742	1.012470359	-0.025096229
BSND	1.59	0.227774102	1.570763225	1.012858804	-0.025882957
LEFTY1	1.57	0.261509329	1.548346974	1.01302026	-0.026210046
STMN2	2.14	0.451377204	2.105444995	1.014399495	-0.029006336
ATP6V1B1	1.65	0.221584522	1.628017983	1.015102748	-0.030433589
HBB	1.76	0.266347972	1.732992101	1.015809964	-0.031869883
TF	0.63	-0.051189855	0.618249761	1.016702551	-0.033684077
CXCL8	1.9	0.20447907	1.864819193	1.016704902	-0.033688857
SPRR1B	1.4	0.059925025	1.375846204	1.017056437	-0.034403796
SNCG	1.52	0.116686309	1.494983195	1.017057893	-0.034406757
KLK3	0.95	0.031923013	0.929279361	1.018648574	-0.037644917
MGARP	1.39	0.226685529	1.362572095	1.019000978	-0.038362993
C1orf61	2.11	0.406869023	2.06499147	1.019496493	-0.039373099
LCN12	2.09	0.332195527	2.044347844	1.019935941	-0.040269324
AHSG	0.67	-0.046639617	0.653869482	1.020346865	-0.041107726
FAM101A	1.58	0.23895974	1.549206637	1.021681449	-0.043832984
GPM6A	2.19	0.394592848	2.147475809	1.0217515	-0.043976128
LHFPL3	1.99	0.247675931	1.946956557	1.022334824	-0.045168492
SLC26A7	2.2	0.367468468	2.155028289	1.022794481	-0.046108551
ALDH1L2	0.66	-0.269656888	0.647501436	1.022815205	-0.046150944
PRSS57	2.17	0.342238093	2.118156952	1.023146479	-0.046828718
AQP4	2.17	0.371519016	2.119987791	1.023185173	-0.046907898
DCX	2.05	0.25395626	2.00553216	1.023213237	-0.046965328
TCERG1L	1.22	0.27147644	1.193323411	1.024146107	-0.048875249
LGALS7B	0.96	-0.058750441	0.9401039	1.024312731	-0.04921657
CYP2E1	1.38	0.099677865	1.346619309	1.024756626	-0.050126143
GNG3	2	0.413035912	1.956221682	1.024765788	-0.050144921
LMX1B	1.63	0.29327269	1.5877503	1.0248174	-0.050250703
IL18RAP	1.56	0.00445756	1.52609571	1.024905062	-0.050430386

TSHR	2.2	0.382871542	2.142875323	1.025165747	-0.050964809
BNC1	0.71	-0.254332786	0.696031159	1.02538884	-0.051422272
OLIG1	2.21	0.38940313	2.150846367	1.025894027	-0.052458555
TNR	2.2	0.401527978	2.144682989	1.02654988	-0.053804656
KIF26A	1.37	0.430117236	1.339292153	1.026590381	-0.05388781
FAM19A4	2.17	0.335899688	2.114332941	1.026725001	-0.054164227
GSTA1	1.83	0.18538034	1.77796575	1.026752212	-0.054220105
FAM83A	0.89	-0.125625872	0.866131696	1.026797257	-0.054312606
SST	0.78	-0.132118963	0.75545937	1.026902441	-0.054528623
SH2D1A	1.64	0.140552584	1.595772983	1.027094129	-0.05492235
OLIG2	2.21	0.397435325	2.148572948	1.027393484	-0.05553737
PTH1R	1.63	0.175887679	1.585761055	1.027469389	-0.055693344
GZMK	1.07	0.015148359	1.040354196	1.027720875	-0.056210196
LRRC26	1.28	0.105531776	1.241285605	1.027911286	-0.056601611
NCAN	2.21	0.402135549	2.145349108	1.028432675	-0.057673767
NKX2-1	2.15	0.500626897	2.085600274	1.028670346	-0.058162682
SERPINB10	2.06	0.360802632	2.000706882	1.029481565	-0.059832293
UGT2B4	1.76	0.331023809	1.702938324	1.03125767	-0.063492381
DPYS	1.36	-0.045762683	1.315409927	1.032039068	-0.065104639
CWH43	1.22	0.035493613	1.18683058	1.032044806	-0.065116481
S100A8	1.28	0.125735303	1.236965866	1.032287299	-0.065617068
KRT6C	1.11	-0.048132496	1.07392481	1.032666458	-0.066400013
DPCR1	1.65	0.224524574	1.59988341	1.032744132	-0.066560441
SLC1A2	1.8	0.310630248	1.743876502	1.033352265	-0.067816903
APCS	1.02	0.064380689	0.982187149	1.033549317	-0.06822419
UGT2A3	1.77	0.39051101	1.708336123	1.033750026	-0.068639116
MT3	2.01	0.361799791	1.942822976	1.034090594	-0.069343357
NXPH1	2.21	0.429135719	2.134651399	1.035130133	-0.071494392
SFTA3	2.18	0.43757833	2.108638955	1.035318072	-0.07188351
CDC42EP5	1.48	0.236519357	1.430825046	1.035763198	-0.072805402
KLK8	1.22	-0.063043014	1.173031602	1.035858568	-0.073002973
CTNND2	2.02	0.362732449	1.952377376	1.03594492	-0.073181878
STC2	1.05	-0.029369367	1.015828163	1.036087713	-0.073477748
ZBP1	1.24	-0.126100585	1.192887074	1.037116749	-0.07561115
ADRB1	0.57	-0.174139697	0.550734272	1.037898197	-0.077232667
GDF3	1.15	0.021851752	1.111356165	1.0380337	-0.077513963
FOXA2	0.97	0.084037953	0.938761192	1.038583556	-0.078655802
TRIM71	1.7	0.324931688	1.640743905	1.038713072	-0.078924845
AR	1.99	0.360100078	1.919438765	1.038775573	-0.079054691
HIST1H3B	1.36	0.082826569	1.311703015	1.038788325	-0.079081185
STAR	1.12	0.137577241	1.0745884	1.039001183	-0.079523459
VTN	1.62	0.182991479	1.559836771	1.039106007	-0.079741294
GC	1.73	0.221461592	1.666774537	1.039234314	-0.080007959

PMP2	1.62	0.235667922	1.558992256	1.039420192	-0.080394336
SLC4A4	0.91	0.019832379	0.873045221	1.039762956	-0.081107005
ALB	1.66	0.210027515	1.594510669	1.039905927	-0.081404336
ZBED2	1.16	0.110164076	1.11110761	1.039952741	-0.081501704
SCRG1	2.18	0.425538568	2.095315055	1.040098261	-0.081804393
MMP25	1.02	-0.012539436	0.984308831	1.040397404	-0.082426759
GFAP	2.14	0.455669738	2.053247913	1.040633736	-0.082918572
ESR1	1.85	0.390112841	1.775288697	1.040681185	-0.08301733
BAAT	1.17	0.114949341	1.120595176	1.041223672	-0.084146735
OCA2	1.59	0.298650252	1.528964993	1.041885345	-0.085525072
SPRR2D	0.97	0.020107842	0.926297635	1.042899893	-0.087640187
PF4	1.06	-0.044277747	1.02007138	1.043005829	-0.087861159
LAMP5	1.85	0.43481493	1.775177972	1.043145752	-0.088153059
TRIML2	1.24	0.206047484	1.18805118	1.044255563	-0.090469681
TUBB4A	1.26	0.227397072	1.204657888	1.044443193	-0.090861583
KLK5	1.43	0.209169965	1.364437026	1.044489565	-0.090958451
SLC4A1	1.5	0.161692348	1.434226538	1.044631529	-0.091255032
AMER2	2.21	0.408301353	2.119338623	1.044839173	-0.091688897
CRP	1.9	0.266654152	1.821827625	1.04552542	-0.093123404
APOB	1.75	0.2577639	1.668599471	1.046634916	-0.095444647
RGL4	1.33	0.097936104	1.268369312	1.046676144	-0.095530951
SERPINB3	0.77	-0.149859312	0.739092951	1.046839854	-0.09587368
CXCL17	1.52	0.043748735	1.447697483	1.046870193	-0.095937201
CACNG7	2.14	0.4662222	2.04722714	1.047063231	-0.096341409
TM4SF4	1.6	0.249464058	1.527967998	1.047254045	-0.096741034
TMEM72	0.63	-0.096012668	0.601201716	1.047999993	-0.098303985
DPEP1	1.42	0.222722939	1.359258962	1.048005438	-0.098315399
VSTM2A	2.21	0.505449561	2.107180183	1.048294003	-0.098920317
KRTDAP	1.07	0.054346703	1.017329142	1.048483987	-0.099318671
KRT6A	1.15	-0.046197655	1.094718695	1.048809555	-0.100001482
UPK3B	1.52	0.412587294	1.448629715	1.049219489	-0.100861536
HAND1	2.03	0.237664411	1.93127039	1.049527124	-0.101507183
CHRNA2	1.33	0.259795956	1.268195906	1.049591949	-0.101643259
TFPI2	1.13	0.021543485	1.072697736	1.049921484	-0.102335122
IVL	1.07	0.020266832	1.023368129	1.050032148	-0.102567512
TSPAN32	0.99	0.09843039	0.938376312	1.050264417	-0.103055347
KRT6B	1.34	0.027771706	1.273253154	1.050965139	-0.104527724
GRIA3	1.18	0.111823211	1.121449198	1.052240673	-0.107210435
CADM3	1.98	0.224414588	1.88515354	1.052426354	-0.107601232
CDH15	0.98	0.071513374	0.932684908	1.052733498	-0.108247819
NLRP7	0.99	0.076100013	0.936410438	1.052954249	-0.108712649
SERPIND1	1.42	0.092309213	1.347503868	1.053502054	-0.109866579
GBP6	1.57	0.096871479	1.489474961	1.05429746	-0.111543135

MUC3A	1.68	0.086130075	1.593310577	1.054334014	-0.111620214
FAM3D	0.54	-0.166413262	0.513428567	1.05442138	-0.111804447
CMTM2	1.17	-0.141869607	1.105486945	1.054778549	-0.112557786
TRIM50	0.81	0.041907664	0.765011742	1.055200468	-0.113448028
FGG	1.5	0.213222951	1.421311869	1.055594318	-0.114279365
SPRR2E	0.93	-0.038174105	0.883324245	1.055722344	-0.114549669
SPI1	1.15	-0.04897879	1.092515078	1.055781068	-0.114673664
MSLN	1.28	0.213024746	1.215033365	1.056734412	-0.116687618
INMT	1.1	0.039074491	1.042348115	1.057528571	-0.118366679
SOX18	1.86	0.394164579	1.758710276	1.058180022	-0.119744959
FOXN1	1.17	0.075202543	1.100471627	1.058873561	-0.121213219
HSPB2	1.18	0.121819076	1.111591497	1.059043968	-0.121574125
P2RX1	0.86	-0.135573643	0.808481498	1.05906264	-0.121613675
MMP10	1.91	0.216717298	1.804611312	1.059708827	-0.122982798
SPRR1A	1.13	-0.072461205	1.062098024	1.060140185	-0.123897212
ICAM3	0.95	-0.141876769	0.899800099	1.06026785	-0.124167914
TNF	1.55	0.319825992	1.460832261	1.060435499	-0.124523449
CHRNA3	1.23	-0.091074953	1.162143618	1.060542002	-0.124749338
NPTX2	1.28	-0.006948311	1.20892794	1.060573807	-0.1248168
APOBEC2	1.3	0.238739066	1.223367761	1.061660581	-0.127123189
WASF3	1.31	0.154459508	1.23015233	1.061725738	-0.127261542
APOA2	1.68	0.250400163	1.584269919	1.061732227	-0.127275323
FGA	1.58	0.208406737	1.483362942	1.06181259	-0.127445977
KRT16	1.22	0.108482592	1.153124672	1.061967641	-0.12777527
CA3	1.63	0.305792306	1.536707741	1.063174035	-0.130339029
WT1	1.94	0.464220064	1.826911982	1.063339619	-0.130691145
VENTX	0.93	-0.010545079	0.874925861	1.063738336	-0.131539248
LYG1	0.93	0.104690882	0.875259317	1.063952523	-0.131994972
HBA1	1.64	0.182903599	1.541087271	1.063998298	-0.132092379
TRPS1	0.81	-0.314901781	0.761571847	1.065462335	-0.135209988
SHISA8	1.44	0.221375054	1.351013816	1.066072032	-0.136509577
SLC18A1	1.42	0.281149469	1.330108767	1.066204304	-0.136791618
TRPV6	1.48	0.238272497	1.384220349	1.066633454	-0.137706925
CNTFR	1.93	0.493314959	1.80527042	1.066814465	-0.138093102
IGSF1	0.98	0.063594438	0.922035003	1.066959297	-0.138402142
PEBP4	1.37	0.162393161	1.282165868	1.067112449	-0.138728979
GALNT9	1.52	0.649334525	1.426337458	1.067340722	-0.139216216
RHCG	1.2	-0.000422196	1.120829861	1.067528918	-0.13961799
STK32A	1.74	0.319620646	1.62943717	1.067766747	-0.140125826
ATCAY	2.07	0.371249484	1.933499544	1.068063814	-0.140760311
MYCN	1.16	0.10087631	1.087606609	1.068161952	-0.140969955
COL11A1	1.65	0.200486403	1.54328837	1.068739121	-0.142203309
IL21R	1.19	0.001757378	1.114787536	1.068886201	-0.14251771

SFRP2	1.36	0.099710227	1.269874169	1.069350082	-0.143509597
ASIC4	2.15	0.486491367	2.009781434	1.069488159	-0.143804921
RAB38	1.15	0.039657616	1.078160472	1.069532555	-0.143899886
TNNT1	1.15	0.293572499	1.0790502	1.06974885	-0.144362602
HIST1H3F	0.67	-0.14009408	0.628852807	1.071157414	-0.147378206
BRINP1	1.93	0.433198731	1.799848314	1.071434783	-0.147972495
CBFA2T3	1.23	0.27783963	1.146655209	1.071716111	-0.148575424
SEMA5B	0.82	-0.070070874	0.760579499	1.072102535	-0.149403845
APOC3	1.66	0.169474844	1.549911234	1.072209838	-0.149633937
HFE2	1.06	0.124489503	0.985792901	1.072361288	-0.149958731
ASB11	1.42	0.218703083	1.324642679	1.072375282	-0.149988746
ARHGAP36	1.28	0.246044929	1.192859159	1.072487374	-0.150229166
KNG1	1.64	0.178695791	1.530827008	1.073293344	-0.151958602
NEFL	1.49	0.286552198	1.388695351	1.074189738	-0.153883593
KLK6	1.4	0.105488343	1.307097496	1.074400115	-0.154335606
CALML3	1.28	-0.043813442	1.187339191	1.074894821	-0.155398875
CYS1	1.32	0.195115301	1.227782225	1.075590501	-0.156894925
F2	1.89	0.281238927	1.756547568	1.075666141	-0.157057646
ADH1A	1.58	0.534498361	1.470123708	1.07586344	-0.157482142
SDR16C5	1.22	0.193021173	1.1342812	1.07616039	-0.158121185
S100A12	1.74	0.115439865	1.61519462	1.076799866	-0.159497952
RAB37	1.48	0.140751002	1.372440569	1.077227674	-0.160419462
NAT8	1.01	-0.054610442	0.933987528	1.077865164	-0.161793312
CNGB1	0.8	-0.11178224	0.743396945	1.078432315	-0.163016259
SPON1	1.1	-0.198117863	1.016855384	1.078573467	-0.163320724
DPPA5	1.34	0.115267853	1.246337692	1.078834018	-0.163882839
SERPINA6	1.19	0.298049927	1.100505291	1.079513346	-0.165349064
LZTS1	1.13	0.121474851	1.050145002	1.079648191	-0.165640217
HMX1	0.63	0.087080458	0.5846776	1.079829568	-0.166031897
C11orf21	1.23	0.090354258	1.137802641	1.079952271	-0.166296907
SPRR2A	0.89	-0.134036654	0.821414271	1.080045132	-0.166497487
RFX4	2.12	0.600325476	1.965944729	1.080066719	-0.166544118
CFTR	0.63	-0.145375479	0.583265656	1.080211827	-0.16685759
KRT15	1.21	0.285072213	1.11720398	1.080405562	-0.167276179
KLK7	1.39	-0.02790242	1.281919123	1.080899086	-0.168342835
RNF43	1.39	0.275543407	1.28391903	1.082208771	-0.171175824
ALDH1A3	1.3	0.127991759	1.203021869	1.082432343	-0.171659778
PRAM1	1.57	0.351262619	1.448824956	1.082694921	-0.172228291
FABP1	1.32	0.156628939	1.214743368	1.082785744	-0.172424966
TTYH1	1.96	0.452347596	1.804866251	1.083502006	-0.173976598
GATA6	1.27	0.050240144	1.169015706	1.083767921	-0.174552906
CHAD	1.6	0.346587715	1.479255872	1.083847971	-0.174726424
CLRN3	1.05	0.075062916	0.969617107	1.084529758	-0.176204797

AMBP	1.88	0.519257086	1.729403048	1.084812399	-0.17681794
SALL1	1.45	0.304060917	1.337323351	1.084941088	-0.177097164
DOK5	1.39	0.219638652	1.279568823	1.084959008	-0.177136048
PRPH	1.21	0.150686996	1.114555406	1.085943954	-0.17927427
FOSB	1.01	-0.183442917	0.930077521	1.086096179	-0.17960491
EEF1A2	0.72	0.181517232	0.665637189	1.087873641	-0.183469059
PKP1	0.91	-0.158239834	0.834841365	1.088196016	-0.18417057
TMEM52B	0.62	-0.015495872	0.565209093	1.088204812	-0.184189713
CHGB	0.93	0.051692289	0.854406603	1.08838111	-0.18457344
TRPM1	1.42	0.14030844	1.303962774	1.088623771	-0.185101716
GPM6B	1.19	-0.099370957	1.09508284	1.089214091	-0.186387336
POF1B	1.39	0.106500993	1.278285528	1.089287359	-0.18654695
EPHX3	1.11	-0.056950702	1.022993902	1.089826596	-0.18772201
ACSM2A	1.43	-0.014575976	1.311161451	1.090924223	-0.190115661
C4BPA	0.63	-0.149776876	0.579915323	1.091856787	-0.192151244
MITF	1.31	0.170234447	1.203392128	1.091948309	-0.192351109
FCRL5	1.02	-0.084792469	0.936107447	1.092137218	-0.192763703
TMEM238	1.35	0.075772749	1.236022995	1.092516887	-0.193593149
KRT5	1.13	0.121592212	1.031689578	1.093434753	-0.19559956
CPNE5	1.04	-0.111357594	0.947148005	1.093622302	-0.19600974
ERP27	0.79	-0.069929744	0.723485633	1.093905307	-0.19662882
CCL20	0.92	0.073591977	0.83706111	1.094052701	-0.196951312
AGXT	1.08	0.161827288	0.990639049	1.09460493	-0.198159953
DSG1	1.17	-0.046776927	1.070345871	1.095037727	-0.199107623
COL11A2	1.22	0.173816665	1.112344967	1.095565885	-0.200264608
PHYHIPL	1.74	0.20233845	1.584290681	1.096196312	-0.201646354
NR5A1	0.97	0.006216898	0.880471411	1.096283278	-0.201837025
ANO7	0.99	0.04042996	0.901120607	1.096587454	-0.202504044
RAB44	0.92	-0.077548857	0.835687999	1.096828143	-0.203031975
DLX3	1.42	0.261355172	1.289891165	1.097093486	-0.203614118
KCNJ16	1.07	0.021458051	0.971075465	1.097281715	-0.204027163
GPA33	1.21	-0.016048687	1.104087011	1.098531287	-0.206770988
SLAMF7	1.2	-0.009128661	1.09343244	1.098699952	-0.207141584
MYBPC1	1.16	0.288566022	1.059102062	1.098853625	-0.207479288
KRT13	0.95	-0.040903966	0.863290498	1.099405047	-0.208691457
NANOGP8	1.49	0.099855809	1.359544408	1.099452754	-0.208796359
MB	1.46	0.30163442	1.323399979	1.100328329	-0.210722432
TTC9B	1.51	0.22311353	1.374541368	1.100969078	-0.212132911
ACMSD	1.39	0.321380972	1.257888405	1.101151004	-0.212533533
TMEM213	1.52	0.023508013	1.37697811	1.101169654	-0.212574606
MAL	0.49	-0.118640111	0.441207663	1.10126359	-0.212781496
ST6GALNAC1	0.83	-0.120506218	0.753530927	1.101403772	-0.213090269
HIST1H4F	1.61	0.137890652	1.460262331	1.102255674	-0.21496757

S100A9	1.19	0.026240257	1.075693322	1.102342536	-0.215159067
APOH	1.08	0.068052219	0.975968018	1.102697924	-0.215942711
IRF4	1.2	-0.057055316	1.088101355	1.102900726	-0.216390012
HSPB6	1.19	0.067925192	1.078801176	1.103148015	-0.216935543
TNFRSF17	1.26	-0.00972384	1.139677369	1.10330346	-0.217278526
ATP13A4	1.41	0.040060084	1.279731159	1.103729669	-0.218219182
D4S234E	1.07	0.132442744	0.972802063	1.103933458	-0.21866908
ITGA10	1.2	-0.039150462	1.084893631	1.103978792	-0.218769174
HEPACAM	2.05	0.313288933	1.855883177	1.104258182	-0.219386132
DERL3	1.06	-0.031771755	0.958437198	1.10500513	-0.221036338
ELAVL3	1.87	0.288465596	1.689454538	1.10539904	-0.221907037
C14orf105	1.22	0.051249904	1.106280798	1.105479764	-0.222085508
RGS20	1.23	0.045835804	1.109202031	1.106053584	-0.22335453
PIP	0.83	0.009641994	0.7508254	1.106086958	-0.22342836
KIAA1324	1.25	0.018669429	1.132419931	1.107310741	-0.226137077
COMP	1	-0.012950836	0.902780944	1.107353373	-0.226231493
CPA4	1.35	0.298945336	1.221464316	1.108562794	-0.228911469
PDZK1	1.81	0.210784134	1.63712051	1.108598488	-0.228990609
CELF3	2.04	0.365117511	1.841394292	1.108762553	-0.229354398
STMN4	2.19	0.44373184	1.975698131	1.108768725	-0.229368086
F13B	1.63	0.325905296	1.473298881	1.108856712	-0.229563208
NDP	0.78	-0.063209797	0.705619376	1.108869448	-0.229591453
CDKN2A	0.81	-0.078186042	0.725798807	1.109411209	-0.230793231
GLYAT	1.41	0.106061491	1.270180459	1.110960227	-0.234232627
CCNA1	1.74	0.217657081	1.561475197	1.111551776	-0.235547351
CRYGN	0.86	0.104332001	0.771764812	1.111669287	-0.235808604
MMP9	1.42	0.119817834	1.272917442	1.112021106	-0.23659094
MYH11	0.76	0.05125389	0.685333686	1.112201993	-0.236993273
EXTL1	1.71	0.352753811	1.538079515	1.11277449	-0.238267065
PDIA2	1.23	0.079465725	1.101650875	1.112774974	-0.238268142
INSM2	1.52	0.131050471	1.367496328	1.112793263	-0.238308845
SCNN1B	1.84	0.601906677	1.655419291	1.113192642	-0.239197858
COL17A1	1.35	0.189445925	1.212185936	1.113301979	-0.239441296
NCAM1	0.91	0.14206218	0.81689132	1.113350849	-0.239550113
HOXA5	0.87	-0.131759648	0.780501395	1.114334635	-0.241741679
NDUFA4L2	1.7	0.577519037	1.528319299	1.11445835	-0.242017415
CXCR2	0.74	-0.239842197	0.662027246	1.114614766	-0.242366077
ALX1	0.89	-0.013311822	0.799242815	1.114741621	-0.242648882
UGT1A9	1.46	0.310205223	1.313595616	1.114753018	-0.242674291
HEPHL1	1.65	0.188243466	1.481834554	1.116662149	-0.246934355
GPR97	0.65	-0.343337983	0.580478783	1.116701795	-0.247022899
WNT10A	1.54	0.420688178	1.380064179	1.116882887	-0.247427384
SOX8	1.94	0.234327721	1.737740037	1.118637272	-0.251349345

CRYAB	0.67	-0.114350551	0.596479485	1.118926121	-0.251995664
GATA4	0.98	0.027785353	0.877376553	1.119014176	-0.252192726
SNCA	1.03	0.024075545	0.914759933	1.120624343	-0.255798919
CD1C	1.43	0.096711198	1.278150313	1.121410712	-0.257561986
MECOM	0.88	-0.070473393	0.784321417	1.122428416	-0.25984555
SERPINB4	0.66	-0.11880017	0.58757858	1.122853769	-0.260800586
PNMAL2	1.6	0.093478611	1.425464535	1.12360403	-0.262486016
FGB	1.01	0.096335614	0.901679783	1.124435943	-0.264356189
TGM1	1.16	-0.126249626	1.031920737	1.125655938	-0.26710129
TCL1A	1.41	0.117030836	1.252438608	1.126152109	-0.268218573
ITIH1	1.63	0.217729227	1.451580149	1.126172229	-0.268263889
PLA2G2A	1.27	0.036306544	1.130869305	1.126432336	-0.268849808
C1orf228	0.94	0.028190312	0.83157459	1.126658731	-0.269359897
C7	0.98	0.014529285	0.865624682	1.126966619	-0.270053761
HNF4A	1.48	0.222071366	1.313781068	1.128515989	-0.273548337
STEAP2	1.1	-0.091973223	0.970932656	1.129982164	-0.276859691
FAM131B	0.93	0.078882703	0.827196616	1.130236179	-0.277433821
DUSP26	1	0.114175235	0.886524913	1.130405731	-0.277817117
ARPP21	0.86	0.097643286	0.757662942	1.131511556	-0.280318401
CFHR1	1.37	0.120970503	1.213139836	1.131762526	-0.280886414
DAAM2	1.24	-0.064714615	1.091673938	1.133021476	-0.283737665
GPR143	1.11	-0.173654792	0.98257465	1.13341221	-0.284623238
BHLHA15	0.82	-0.133549741	0.725255088	1.133548299	-0.284931745
FCRL3	1.3	0.052488854	1.150102973	1.134368595	-0.286792108
C1QTNF4	1.22	0.055412714	1.075207912	1.134460861	-0.287001445
DES	0.97	0.074482363	0.857080903	1.13511042	-0.288475665
SERPINC1	0.85	0.042916436	0.750829895	1.135161022	-0.288590547
PTGER3	1.24	0.193338186	1.092153781	1.135163925	-0.288597138
GPX2	1.44	0.151232201	1.267205976	1.135165654	-0.288601061
AGT	0.94	0.02644128	0.829393899	1.135285897	-0.288874068
CYP11B1	1.02	0.027256328	0.89392095	1.135583948	-0.289550902
SFTA2	1.02	0.036120394	0.893567629	1.136132489	-0.290797033
FCRL2	1.07	-9.14E-05	0.943932545	1.136563674	-0.291776985
POSTN	1.12	0.047014754	0.985366223	1.137594445	-0.294121121
LYPD1	0.77	0.021534616	0.678382156	1.138024221	-0.295099128
NAPSA	0.69	0.022033297	0.606940016	1.138695006	-0.296626316
CD70	1.26	0.069078733	1.103319672	1.138946152	-0.297198337
AIM2	1.4	-0.153989813	1.227489597	1.139506031	-0.298473995
CST1	1.39	0.355586742	1.216920581	1.139562616	-0.298602956
BHMT	1.22	0.046066794	1.066713091	1.14072169	-0.301245974
NPW	1.29	0.177799728	1.126983723	1.140834367	-0.301503052
PRSS3	1.26	0.186965594	1.1016119	1.14137451	-0.302735772
TFF1	0.78	-0.073636731	0.680346966	1.1413938	-0.302779807

MXRA8	1.27	0.16235277	1.112108173	1.141740946	-0.303572387
LTB	1.09	0.060528807	0.956796807	1.142010321	-0.304187574
S100A1	1.11	0.160745288	0.96865302	1.142157219	-0.304523114
FGL1	1	-0.083239272	0.871711042	1.142245126	-0.304723928
SLC44A4	0.79	-0.167067758	0.69478244	1.142488423	-0.305279797
CLDN8	1.31	0.184632839	1.144566448	1.14278293	-0.305952826
PROC	1.15	0.116539749	1.008289632	1.143180255	-0.306861096
CAPN3	0.95	0.131804136	0.834900686	1.14334641	-0.307241014
FLT3	1.07	-0.157105721	0.931695817	1.143710297	-0.308073244
HMP19	1.96	0.255421499	1.714166244	1.143879079	-0.308459347
CEACAM3	1.1	-0.198749145	0.964640823	1.145161684	-0.311395283
ALPL	1.45	-0.220328381	1.269993026	1.145289972	-0.31168912
DNTT	0.78	-0.029141742	0.677280843	1.145630069	-0.312468255
KCNJ15	1.13	-0.13473028	0.989113825	1.145791344	-0.312837804
PHOSPHO1	1.36	0.039534846	1.185251964	1.145984397	-0.313280238
PHGR1	1.71	0.027791957	1.486899087	1.147253181	-0.316189862
CLECL1	0.97	-0.101770996	0.841102231	1.14775776	-0.317347875
ITIH2	1.39	0.197405985	1.212484575	1.148159142	-0.318269415
PAX1	1.1	0.098053584	0.96105473	1.14855815	-0.319185824
TP63	1.11	0.062355338	0.962719089	1.148666904	-0.319435657
MMP3	1.01	-0.086339479	0.87598434	1.149735961	-0.321892779
OLFM4	0.94	0.05036883	0.819893549	1.149738127	-0.32189776
TXNDC5	0.98	-0.213231832	0.851009092	1.150502996	-0.323657144
HLA-DOB	1.09	-0.127660914	0.950919733	1.150630924	-0.323951522
BCAN	1.95	0.243361172	1.695893158	1.15221406	-0.327597241
DGKK	1.06	0.139914318	0.921336687	1.152894857	-0.329166552
ZFP42	0.85	0.068857479	0.738631636	1.153492814	-0.330545671
SIX2	1.09	-0.022616962	0.947283651	1.153885003	-0.3314506
TIMP4	1.62	0.284278764	1.407537591	1.154080146	-0.331900983
TMEM119	1.26	-0.052077193	1.093916177	1.154763533	-0.333478817
AMPD1	0.99	0.065726997	0.858849088	1.155041316	-0.334120442
MYRF	0.42	-0.111851591	0.359103926	1.155780359	-0.335828237
HOXA11	1.25	-0.004959419	1.078283084	1.155860286	-0.336013
MFAP5	1.39	0.275482115	1.202656707	1.156506716	-0.337507785
FUT3	1.25	-0.077448962	1.082228554	1.156537708	-0.337579469
INHA	1.1	0.207828459	0.951814111	1.157078578	-0.338830836
GATA2	1.25	-0.151202186	1.082793508	1.157889109	-0.340707189
MARCO	1.09	0.041863973	0.942882987	1.158025772	-0.341023689
POU5F1	1.14	0.222749479	0.982127696	1.158234331	-0.341506765
COL26A1	1.96	0.640245416	1.69183816	1.161006811	-0.347936816
GABBR2	1.19	0.22316357	1.027941802	1.161259163	-0.348522844
PTHLH	1.04	0.098895519	0.897143456	1.161914123	-0.35004443
SNX22	1	0.103563711	0.856279336	1.162115546	-0.350512542

NR1H4	1.22	0.147838921	1.052495721	1.162351955	-0.351062068
ITIH5	0.9	-0.123760418	0.775661163	1.162824443	-0.352160684
FOXE1	1.29	0.109742023	1.107105921	1.163338944	-0.353357499
APOA1	1.49	0.122927502	1.278332876	1.163358828	-0.353403763
TTR	0.8	-0.124207279	0.682340739	1.165422948	-0.358210648
PKNOX2	1	0.067644632	0.855950486	1.165858645	-0.359226381
RBP5	1.11	-0.062586327	0.955307108	1.166644053	-0.361058347
TPSAB1	0.65	-0.335628148	0.560641359	1.167203665	-0.362364397
SPX	0.8	0.171225337	0.686619766	1.168478334	-0.365341618
HSPA2	1.52	0.519618976	1.297408046	1.169191387	-0.367008499
FABP7	0.94	0.133289611	0.801403741	1.170514821	-0.370104945
PNOC	1.2	0.037183985	1.021132929	1.170896657	-0.370998981
LGI3	1.14	-0.023650719	0.973950257	1.171251159	-0.371829277
UNCX	0.82	-0.068833056	0.700537201	1.171608551	-0.372666597
HOXB6	0.97	0.026501531	0.827150402	1.172053537	-0.373709492
SERPINB13	1.13	-0.087745659	0.961763394	1.17252112	-0.374805777
ZCCHC12	0.89	0.040170425	0.759341344	1.172698268	-0.375221228
TPO	0.77	-0.1372765	0.653676362	1.173192825	-0.376381404
DUSP5	1.03	-0.079496767	0.87890718	1.174214433	-0.378779535
MGP	1.26	0.021619364	1.074531422	1.174667518	-0.379843779
GNG7	1.05	0.060381877	0.892985512	1.174962026	-0.380535762
DMRT2	1.12	-0.057702542	0.94988691	1.175084341	-0.380823208
SNAP91	1.7	0.174798829	1.445486378	1.175672949	-0.382206883
TBATA	1.85	0.258846402	1.573785987	1.175902426	-0.382746515
CYP21A2	0.92	-0.180324316	0.779926108	1.176220126	-0.383493784
BMPER	1.14	0.097942582	0.970631581	1.177343134	-0.386136855
NNAT	0.98	0.057931611	0.832344406	1.177764572	-0.387129387
BLK	0.83	0.001976821	0.704989591	1.178129305	-0.387988659
CCR2	1.18	-0.051420222	0.995840533	1.180465397	-0.393498552
CA12	0.99	0.005085523	0.836016188	1.183366236	-0.400355648
FAM129C	0.75	-0.030979023	0.62937947	1.185779357	-0.406072683
TUBB2B	1.32	0.04618625	1.111936035	1.186630533	-0.408092021
SLC38A3	1.49	0.388503937	1.253217446	1.187711847	-0.410659431
OMD	0.77	-0.183164433	0.648565507	1.187961802	-0.411253244
CD1E	1.2	0.051231353	1.007937416	1.18926954	-0.414362039
HOXB5	0.74	-0.027973643	0.622015226	1.191254327	-0.419086872
S100P	1	-0.018481321	0.838936857	1.19193692	-0.420713621
HIST1H2BB	0.87	-0.142746154	0.728806054	1.192285297	-0.42154423
MMP17	1.2	0.222245942	1.00283927	1.192365702	-0.421735967
CH507-42P11	1.25	-0.003821782	1.047715901	1.192921742	-0.423062283
AMHR2	1.12	0.005510823	0.937666209	1.195047011	-0.428137358
COL2A1	1.63	0.225673801	1.359783734	1.196444461	-0.431479347
FOXH1	0.71	-0.035721085	0.594880901	1.196503596	-0.431620855

DSG3	1.08	-0.016465677	0.900167113	1.197498378	-0.434002364
IGJ	1.02	-0.151077237	0.850351869	1.198677322	-0.436827323
AOC1	1.27	0.163569389	1.059592125	1.198761914	-0.437030128
TYRP1	0.97	0.11392658	0.812417912	1.198955128	-0.4374934
GPR37L1	0.84	-0.056133972	0.696642864	1.199413659	-0.438593125
TAGLN3	0.83	0.006309646	0.695237076	1.200193611	-0.440464704
SCGB2A1	1.07	0.099522266	0.890946097	1.200204673	-0.440491256
CTSV	2.14	0.529236034	1.783739985	1.200219524	-0.440526905
FAM43B	1.52	0.235528445	1.264397328	1.202744037	-0.446593218
NDNF	0.91	-0.115284283	0.754956621	1.203699437	-0.448892335
GAPT	0.86	-0.187369552	0.715545191	1.204090948	-0.44983501
VAT1L	1.08	-0.04850884	0.900097626	1.204998288	-0.452020874
AKR1C4	1.23	-0.023550986	1.019097721	1.206069332	-0.454603233
TRIM63	0.71	-0.029963762	0.591457745	1.206530676	-0.455716271
TNFRSF13C	0.82	-0.084396267	0.681354016	1.207548892	-0.458174326
KLK1	1.04	-0.022542497	0.864396988	1.207584906	-0.458261304
NKX3-1	0.93	-0.083232244	0.765885287	1.208385653	-0.460195887
NEFM	0.95	-0.10205829	0.781862016	1.21086433	-0.466192426
ANXA13	0.79	-0.078581564	0.649049149	1.211124273	-0.466822004
CCL18	0.79	-0.153408392	0.649742723	1.211353532	-0.46737738
GDNF	1.66	0.322530454	1.372497791	1.211703556	-0.468225507
RAG1	0.49	-0.257209846	0.402178318	1.213316428	-0.472136753
KCNQ2	1.67	0.253247416	1.372552072	1.213468706	-0.472506302
UPK3A	0.91	-0.074026686	0.750217809	1.215373901	-0.477133719
MZB1	0.84	-0.156992612	0.689603682	1.215912936	-0.478444269
C2orf88	0.73	-0.13398263	0.599261401	1.217744324	-0.482901239
AGRP	1.06	0.043582719	0.873450114	1.218525594	-0.484804624
RAB3B	1.09	-0.077514618	0.892404209	1.21878086	-0.485426785
CILP	1.29	0.06698884	1.061423474	1.218944774	-0.485826362
CALML5	0.8	-0.072971674	0.657242615	1.219480919	-0.487133711
TMPRSS11D	1.06	-0.217414978	0.86761415	1.220152081	-0.488771102
MMP1	1.02	-0.063569155	0.834822159	1.220657372	-0.49000442
C10orf99	1.46	0.094301285	1.191316459	1.221461119	-0.491967265
ABCC11	1.03	-0.1456105	0.845111202	1.222589643	-0.494725435
ENPEP	1.19	-0.145270919	0.972282015	1.224469398	-0.499325306
ELAVL4	1.26	0.074120452	1.025493202	1.226335205	-0.503898036
MEP1A	0.96	0.03557251	0.780565253	1.227183467	-0.505979262
PRAC2	1.58	0.071467672	1.288975726	1.227253043	-0.506150031
MUC15	1.4	0.186229009	1.136138517	1.228802594	-0.509955814
C8orf46	1.57	0.281489733	1.275413681	1.230962545	-0.515268788
TFR2	1.24	0.217921375	1.006791917	1.231272537	-0.516032061
MSX1	0.9	-0.087917497	0.733208356	1.231365761	-0.516261636
BTK	1.01	-0.183915164	0.819618632	1.232495921	-0.519046195

PNMT	1.51	0.18891726	1.222766106	1.233116712	-0.520576827
POU2F2	0.94	-0.02593144	0.759590656	1.233973337	-0.522690197
PTCRA	0.61	-0.288016941	0.491873855	1.2343365	-0.523586596
DDC	1.08	0.119519554	0.87456458	1.235993527	-0.52768
LRRN4CL	1.05	0.004973418	0.852644463	1.236325315	-0.528500285
P2RX5	1.06	-0.015486083	0.856887637	1.236798429	-0.529670355
HIST1H1E	0.89	-0.096904192	0.717921025	1.238685536	-0.534341856
ACSM1	0.66	-0.204222754	0.535113953	1.239075718	-0.535308635
PPP1R1A	0.96	0.05417993	0.770092906	1.24056432	-0.538999831
CYP4F3	1.07	0.079515095	0.864125151	1.242065844	-0.542727561
TMEM200C	1.23	-0.021823756	0.988697371	1.24226527	-0.543223001
HIST1H3C	0.7	-0.158900473	0.560485575	1.242630031	-0.544129394
BRINP2	0.47	-0.026931966	0.380753964	1.243795184	-0.54702646
CES1	0.98	-0.055771091	0.789428422	1.245256023	-0.550662562
SYT1	1.13	0.004058578	0.903263061	1.246089072	-0.552737976
MIXL1	1.01	-0.12836179	0.810593919	1.246733263	-0.554343828
TNFRSF13B	0.93	-0.054033449	0.744741276	1.246998984	-0.555006466
DHRS2	0.61	-0.049808792	0.49212691	1.247586625	-0.556472387
C1orf186	1.15	0.001462625	0.922344815	1.249567443	-0.561418795
SLC26A3	0.86	0.015151165	0.688292352	1.25192631	-0.567319487
ST6GAL2	0.71	-0.036386925	0.565231571	1.253863413	-0.572173459
AC234582.1	0.68	-0.28456655	0.543102974	1.254036951	-0.572608674
SLC6A3	1.4	0.030701563	1.119372086	1.25468337	-0.574230359
PNCK	1.19	0.004178873	0.945419628	1.257128902	-0.580373076
SULT2A1	1.12	0.15927679	0.888202629	1.258976801	-0.585022585
CPB1	0.74	-0.018238463	0.590180801	1.260835967	-0.589707335
TFF3	0.58	-0.104033918	0.45666261	1.261344105	-0.590988951
ADRA2C	0.69	0.016779253	0.546314204	1.263339555	-0.596026831
SPINK4	0.96	-0.122339223	0.758051634	1.264012443	-0.597727456
FAIM3	0.9	-0.08934162	0.709400653	1.264602428	-0.599219301
AXIN2	1.1	-0.079196213	0.87003307	1.264625834	-0.599278501
HIST1H3D	0.73	-0.080604317	0.576595604	1.26545247	-0.601369954
RNASE3	0.83	-0.248690205	0.6553248	1.265931059	-0.602581447
HDGFL1	0.9	-9.97E-06	0.711554396	1.267015147	-0.605327382
RBP4	1.02	-0.007538531	0.802840268	1.26838347	-0.608796626
CTSE	0.96	0.041769652	0.753726632	1.268482425	-0.609047662
BBOX1	0.84	-0.173396404	0.660144295	1.270756598	-0.614822331
SLC6A17	1.67	0.184302957	1.313281281	1.272071717	-0.618166452
LPAR3	1.09	0.255369104	0.854835434	1.272611091	-0.619538989
IGFBP1	0.54	-0.111646029	0.427075407	1.273190409	-0.621013818
SCARF2	1.34	0.203162461	1.052990899	1.273861085	-0.622722065
RASGRP3	0.98	-0.225811534	0.767787853	1.273865004	-0.622732048
DTX1	1.21	0.106880365	0.953047392	1.273867136	-0.62273748

TRPM8	0.82	-0.07392765	0.644670772	1.274064934	-0.623241457
RPRM	0.88	-0.054886256	0.689521611	1.274967168	-0.625541279
SLC34A2	0.65	-0.148393545	0.513075503	1.275968579	-0.628095814
UTF1	1.13	0.019996953	0.884165855	1.27601063	-0.628203129
LBP	1.09	-0.059541022	0.856617709	1.27610586	-0.628446165
NOX1	0.76	-0.055425088	0.592080764	1.277980358	-0.633233795
EMR3	0.65	-0.318112218	0.511281567	1.278421542	-0.634361638
CD22	0.81	-0.03762007	0.635634807	1.279020779	-0.635894153
ITIH3	0.92	-0.154375363	0.721821245	1.279377035	-0.636805597
HBD	0.79	-0.205127332	0.614516327	1.281252889	-0.641608964
MOG	1.46	0.132836564	1.137176435	1.283665003	-0.647795841
C8G	0.96	0.14231493	0.750429902	1.284205652	-0.649184157
GREM1	1.07	-0.14494325	0.830162788	1.287073218	-0.65655747
LRRN1	0.57	-0.075642084	0.444571575	1.290223264	-0.664676072
SLC3A1	1.16	-0.018088906	0.902717844	1.290531303	-0.665471045
MUC6	0.72	-0.064487026	0.554069677	1.291676478	-0.668428123
FAM19A3	0.89	0.039874632	0.688499206	1.294169519	-0.674874743
RAG2	1.08	-0.055228482	0.82981144	1.297087721	-0.682436556
IL36RN	0.98	-0.193013969	0.754717044	1.2974544	-0.683387921
SLC45A2	1.48	0.159654439	1.138894084	1.29826295	-0.685486688
PRLHR	1.96	0.221924158	1.502501351	1.302245303	-0.695842829
SLC45A3	0.68	-0.138792629	0.520487133	1.307319554	-0.709084416
KLHL14	0.7	-0.16979743	0.533787444	1.30769072	-0.710055018
SIX1	0.99	-0.177590013	0.753039836	1.308292724	-0.711629851
SLC30A2	0.87	0.048952762	0.661434582	1.309776192	-0.715513673
FAM107A	1.28	-0.177884924	0.971575098	1.312408483	-0.722416026
SLC7A4	0.88	-0.045257778	0.667004869	1.313440242	-0.725125269
CLDN16	0.86	-0.110045183	0.651685233	1.314136691	-0.726955242
SLC17A3	1.01	-0.213675433	0.766302951	1.315002092	-0.729230502
FGF8	0.97	0.056316481	0.740199249	1.315017171	-0.729270159
CEACAM8	1	0.038554584	0.75929999	1.31723363	-0.735104436
MMP8	0.33	-0.083484941	0.252057087	1.317542624	-0.735918566
DNER	0.61	-0.064781048	0.465088816	1.31789701	-0.73685253
SERPINE2	1.53	0.297412534	1.163327508	1.318623626	-0.738768267
TRABD2B	1.05	-0.036707905	0.792130583	1.319309821	-0.740578403
C8B	1	0.058864772	0.76144329	1.319698533	-0.741604219
SPRR3	0.61	-0.176112307	0.459367285	1.319778214	-0.741814535
FGF18	1.09	-0.004308174	0.826425621	1.320518684	-0.743769596
CD19	0.8	-0.053494185	0.603073189	1.321028909	-0.745117379
AZGP1	0.52	-0.120319789	0.396218076	1.321186218	-0.745533024
AGR3	0.54	-0.131998287	0.410159398	1.321643546	-0.746741663
SMTNL2	0.68	0.043146695	0.511797746	1.32192265	-0.747479493
MAT1A	0.94	-0.116763027	0.710697192	1.322118637	-0.74799769

DAPL1	0.88	-0.149707284	0.662111678	1.322325944	-0.748545901
PTGDS	0.86	-0.020333886	0.648600539	1.322427421	-0.748814283
TG	0.73	0.075279037	0.55413923	1.323631937	-0.752001506
NTRK2	0.83	-0.083141968	0.624740028	1.325883983	-0.757968336
IRX5	0.96	-0.104858132	0.72621727	1.326287072	-0.759037398
SLC7A8	1.1	0.060206835	0.827253553	1.328740254	-0.765550664
TMEM151A	1.72	0.174369502	1.294320116	1.331388032	-0.772594091
C16orf89	0.64	-0.123049231	0.481371798	1.33139019	-0.772599839
ASGR2	0.91	-0.249394291	0.686960198	1.331790249	-0.773665268
HRG	0.62	-0.129145101	0.464060102	1.335587717	-0.783794549
PGLYRP1	0.83	-0.190426138	0.622050851	1.337807096	-0.789727827
SLC17A1	1.17	0.045141115	0.871816076	1.338630493	-0.791931596
HIST1H4D	0.59	-0.127743322	0.439401513	1.338962982	-0.792821867
HIST1H4C	0.79	0.035886549	0.591092403	1.343133296	-0.804007052
KCNK15	0.98	-0.12986544	0.731727382	1.344568389	-0.807864153
CYSLTR1	0.98	-0.192449454	0.729472891	1.345189966	-0.809536046
MAB21L1	1.29	-0.018874663	0.954593664	1.346909802	-0.814166014
CDX2	1.59	0.045503128	1.176223621	1.347956049	-0.816985509
CD79B	0.82	-0.087822427	0.606857264	1.34800229	-0.817110173
DSC3	1.16	0.14250985	0.85617974	1.349112251	-0.820103867
SOX17	0.85	-0.287617887	0.631340601	1.34952037	-0.821205229
HIST1H2BO	0.64	-0.088145049	0.471089266	1.35133824	-0.82611504
CDH17	0.77	-0.095978111	0.56874474	1.352823128	-0.830130416
SOX1	0.86	-0.172557332	0.635283064	1.353329304	-0.831500204
TCF21	0.66	-0.112781169	0.489479718	1.355017357	-0.836072037
FCGBP	0.62	-0.129485139	0.457260275	1.355900638	-0.838466541
CITED1	1.15	0.021876588	0.851524139	1.356230087	-0.839360048
FAT2	1.13	-0.219698423	0.83225438	1.356701513	-0.840638996
SCGB3A2	1.13	0.038315552	0.832437324	1.357707274	-0.843369041
AZU1	0.9	0.060152733	0.658803893	1.361387631	-0.853376283
OR51E1	0.9	-0.25594006	0.661194658	1.361697991	-0.854221419
DCSTAMP	0.5	-0.081607563	0.363988292	1.364145109	-0.860891879
SPOCK3	0.75	-0.193983174	0.547514012	1.364710325	-0.862434272
ANXA8	1.22	-0.051933634	0.894422182	1.365442618	-0.864433543
ABCB5	1.08	0.072199215	0.791364108	1.365460774	-0.864483126
CDH16	0.81	-0.05369437	0.595367456	1.365779038	-0.865352381
TRABD2A	0.82	-0.100583231	0.596697	1.367294455	-0.869494126
SCG5	0.76	0.07384612	0.551719419	1.368761398	-0.873507765
REEP6	0.88	-0.003149544	0.640730792	1.371663726	-0.881461378
LRMP	0.83	-0.178114856	0.607247352	1.371916144	-0.882153906
KREMEN2	1.17	0.095167174	0.852474302	1.372222761	-0.882995305
CAPS	0.54	-0.056036279	0.391374736	1.375379118	-0.891667719
HSD11B2	1.05	-0.11188767	0.762652154	1.376112055	-0.893684388

KL	0.68	-0.042311639	0.493441215	1.380382549	-0.905455982
TYR	0.59	-0.052848785	0.425877168	1.380504656	-0.905793105
CD1B	0.71	-0.098631369	0.517325957	1.381699925	-0.909094682
FOXD1	1.29	0.204335089	0.934368963	1.38243501	-0.911126556
CUBN	1.08	-0.137054248	0.7828002	1.38414345	-0.915853089
TRIB1	1.02	-0.322592187	0.729962144	1.392781765	-0.939841045
GPRC5B	0.71	-0.278227519	0.507544333	1.393153679	-0.940877174
HIST1H2BL	0.93	-0.20130128	0.66903493	1.393663833	-0.94229888
HR	1.24	0.214442348	0.889424619	1.397222291	-0.952230132
TCEAL7	0.77	-0.031981615	0.551478688	1.398452185	-0.955668513
ATP6V0A4	0.75	-0.367336609	0.536196309	1.400634737	-0.961777666
HSD3B2	0.62	-0.115592303	0.444293346	1.400813043	-0.962277181
S100B	1.29	-0.000656376	0.92156956	1.401027148	-0.96287707
NFE2	0.77	-0.274232615	0.552202742	1.402886582	-0.968090762
VWA5B2	1.28	0.117579564	0.912515285	1.40326649	-0.969156841
SLC24A2	1.26	0.101897173	0.895651492	1.405186499	-0.974549096
GCG	0.95	-0.077836133	0.674168034	1.40559607	-0.975700313
BMP6	0.87	-0.321631129	0.620762486	1.406500664	-0.978244118
G6PC	1.15	0.106008918	0.813610108	1.407473495	-0.980981638
FOLR1	0.64	-0.065815556	0.454797438	1.408464494	-0.983772231
CYP11A1	0.55	-0.17596281	0.390485933	1.408611258	-0.984185676
RXRG	1.04	0.046054995	0.740170111	1.408814928	-0.9847595
PGC	0.82	-0.017342978	0.580166156	1.409891202	-0.987793201
TMEM252	1.31	-0.021743655	0.926608506	1.409951831	-0.987964165
MS4A1	0.79	-0.063782068	0.557305578	1.410202669	-0.988671567
CEACAM7	0.47	-0.113687265	0.334441711	1.411955189	-0.993617455
PGLYRP2	1.12	0.091555888	0.792789448	1.413612689	-0.998300835
SLC28A1	1.09	-0.001518396	0.770617044	1.419178325	-1.014067119
SLC22A31	0.57	-0.112437229	0.399999102	1.42239252	-1.023200481
WFDC2	0.57	-0.178407896	0.404091905	1.422878677	-1.02458373
SCG2	0.98	-0.080583699	0.686722641	1.423597234	-1.026629086
REG4	0.63	-0.100271417	0.438857576	1.424526683	-1.029276271
IFITM5	0.83	0.019436201	0.580454233	1.42726761	-1.037092829
MSMB	0.69	-0.118043716	0.485812068	1.429859996	-1.044499609
PCDH18	0.96	-0.289249343	0.671677528	1.430255906	-1.045631957
CA14	1.13	0.019991879	0.785634684	1.434412137	-1.057538178
ORM2	0.77	-0.058144861	0.532205579	1.43951717	-1.072209683
FCRLA	0.82	-0.110376078	0.56690717	1.44348215	-1.083640718
SHISA3	1.04	0.084743921	0.721507025	1.447570937	-1.095461617
STAP1	0.83	-0.19381226	0.569638443	1.448814431	-1.099063255
PRSS16	0.76	-0.109286048	0.522105953	1.448817565	-1.099072337
CALB2	0.65	-0.030538424	0.446967237	1.45008196	-1.10273769
POU2AF1	0.67	-0.10053332	0.461656717	1.456542561	-1.121516233

PADI4	0.75	-0.28357687	0.516273693	1.457547075	-1.124443476
FAM166B	0.59	0.015272501	0.405019367	1.459314363	-1.129598411
CEACAM5	0.5	-0.158454577	0.339488465	1.460266957	-1.132379586
MUC16	0.48	-0.21394163	0.325907838	1.465196598	-1.146801069
GFRA1	0.95	-0.112004098	0.645777516	1.465749253	-1.148420874
PAX2	1.22	-0.048836681	0.825926222	1.482822491	-1.198762539
CORO2B	0.5	-0.096284538	0.337447207	1.485527879	-1.206793079
NR0B1	0.9	-0.076087781	0.605863707	1.48820986	-1.214768586
PRSS35	0.81	-0.122453313	0.547231063	1.488212672	-1.214776957
DKK1	0.66	-0.043867393	0.445358142	1.488296803	-1.215027375
HIST1H4E	0.61	-0.118284287	0.41223049	1.488788282	-1.216490547
ACSM2B	1.08	-0.067379763	0.724515513	1.491992368	-1.226041226
TWIST1	1.18	-0.163517893	0.791100889	1.492500526	-1.22755782
GSTA2	0.7	-0.059807977	0.468179009	1.497756162	-1.243273521
FCN1	0.81	-0.253619353	0.540727909	1.500885172	-1.252656299
AICDA	0.63	-0.097612831	0.417187183	1.507622259	-1.272924877
HOXB9	1.01	-0.109920189	0.669599042	1.514676715	-1.29424555
BCHE	0.7	-0.240318416	0.459567207	1.515238232	-1.295946899
CRISP3	0.53	-0.205589678	0.346504257	1.51906889	-1.307570293
DLK1	0.71	-0.019825164	0.464331176	1.530852513	-1.343509416
PLA2G2D	0.8	-0.042575843	0.519549237	1.534224326	-1.353844284
PIGR	0.44	-0.191809884	0.287668838	1.534367153	-1.354282562
FOLH1	0.93	-0.212930621	0.605504392	1.541353448	-1.37577045
ITLN2	1.19	-0.019859355	0.772169919	1.547423319	-1.394518928
MLANA	0.6	-0.092155009	0.386627851	1.549281002	-1.400271623
SLC22A2	0.97	-0.015090069	0.622421308	1.551797021	-1.408073994
CLEC17A	0.6	-0.139511381	0.384241206	1.55396404	-1.414804238
PRG4	1.08	-0.046764563	0.69366812	1.558576121	-1.429159526
GYG2	0.75	-0.238658557	0.480890012	1.563635408	-1.444955689
KIT	0.75	-0.034544209	0.479071918	1.567202781	-1.456124557
DEFB1	1.39	-0.033931376	0.882731474	1.578821102	-1.492676072
HIST1H4L	0.81	-0.193922853	0.513600932	1.580971001	-1.499469306
PLG	0.91	-0.015661335	0.576182837	1.581038956	-1.499684181
PHOX2B	1.07	-0.071425286	0.677681078	1.585398488	-1.513488367
FGF9	1.33	-0.051522125	0.835723164	1.588002033	-1.521750457
CCL25	0.73	-0.135112466	0.460067795	1.59036799	-1.529270343
CCL19	0.91	-0.142543252	0.569205066	1.592186027	-1.535056345
PSMB11	1.01	-0.064499207	0.635915558	1.593402681	-1.538932103
ATP6V0D2	0.4	-0.106251321	0.252696481	1.597362335	-1.551566429
HIST1H2BG	0.72	-0.143491025	0.450625838	1.597452018	-1.551852948
APOD	0.87	-0.172999688	0.542979995	1.598097686	-1.553916213
INPP5J	1.31	0.02753164	0.821014909	1.600396663	-1.561269477
UPK1A	0.61	-0.022285896	0.384015912	1.600439822	-1.561407625

HP	0.91	-0.082080696	0.569937408	1.603039925	-1.569737
SLC16A12	0.85	-0.208530466	0.528733937	1.604188901	-1.573422031
SLC22A11	0.55	-0.06539865	0.340744819	1.605315881	-1.577039079
DMGDH	0.87	-0.138037645	0.537423674	1.612037468	-1.598664798
TCN1	0.77	-0.17968975	0.47320621	1.619833231	-1.623859697
DCT	0.56	-0.053722315	0.347483146	1.620792353	-1.626967852
FOXJ1	0.64	-0.22743507	0.392254936	1.623347763	-1.635257959
REG1A	0.54	-0.092212005	0.331563118	1.632266035	-1.66429241
TMEM27	1	-0.15067925	0.613125229	1.636004034	-1.676509201
GLT1D1	0.71	-0.296917328	0.431193528	1.638280288	-1.683962303
HAS2	0.53	-0.259237519	0.324612119	1.645888017	-1.708947366
C1QL1	1.02	0.070285096	0.618748843	1.652587631	-1.731045877
CD1A	1.27	-0.023232653	0.765116411	1.657481884	-1.747246195
IL36G	0.77	-0.229095558	0.466423654	1.661553142	-1.760758843
TH	0.85	-0.06070134	0.509062599	1.662011573	-1.76228247
APLP1	0.97	0.144080378	0.582642037	1.662460913	-1.763776286
GAPDHS	0.68	-0.264792367	0.405435469	1.668666312	-1.784447261
HIST1H4B	0.96	-0.189127202	0.570421953	1.676856847	-1.811848886
ARG1	0.57	-0.037944629	0.340207901	1.683529124	-1.834270312
FCGR3B	0.51	-0.310471235	0.301804336	1.684468421	-1.837433861
DRGX	1.62	0.063187438	0.951101637	1.698384291	-1.8845092
BPIFB1	0.44	-0.174087038	0.25601656	1.702453969	-1.898349518
DMBT1	0.35	-0.180593745	0.205194406	1.706010677	-1.910472429
VTCN1	0.46	-0.167805238	0.270947983	1.711789685	-1.930223927
IGF2	1.06	-0.081421662	0.618369012	1.712151932	-1.931464239
ZG16B	0.51	-0.205730635	0.297115973	1.718639064	-1.953720233
LRP2	0.68	-0.058141963	0.393197049	1.719209553	-1.955681486
FOXC1	1.06	-0.310562112	0.613421177	1.720145298	-1.958899846
HIST1H2AL	0.59	-0.221977479	0.343907925	1.721690433	-1.964217946
EGFL6	0.8	-0.280327573	0.465698713	1.723312932	-1.969807461
KIAA0226L	1.01	-0.229579341	0.579959922	1.735193903	-2.01089788
DACH1	0.84	-0.292150322	0.482293943	1.739852181	-2.027085612
SPINK1	0.79	-0.122807065	0.452579207	1.753161372	-2.073574795
HIST1H2BF	0.63	-0.200447048	0.360376482	1.756679782	-2.085923856
KHDC3L	0.95	-0.102307523	0.538343773	1.761918329	-2.104356199
EDNRB	0.86	-0.442627847	0.481526788	1.776963073	-2.157597763
NANOG	0.96	0.027166579	0.53836194	1.779000585	-2.16484308
HIST1H3G	0.85	-0.055147591	0.479111058	1.781600848	-2.174101583
AHSP	1.16	0.112290469	0.648469148	1.783462895	-2.180739897
GFRA3	0.72	-0.138467512	0.40460055	1.785564231	-2.188239625
CLIC6	0.53	-0.249413789	0.299088439	1.785879447	-2.189365399
PMEL	0.67	-0.110065973	0.373627958	1.786542615	-2.191734516
HIST2H2AB	1.13	-0.184735952	0.631146472	1.791024086	-2.207767277

BEND5	0.86	-0.096712216	0.482223609	1.791171394	-2.208294963
DPPA3	1.08	-0.075261344	0.60287693	1.796002556	-2.225625182
HIST1H2AH	0.71	-0.117202576	0.394423728	1.796710277	-2.22816782
ENPP3	0.7	-0.19230584	0.390279202	1.803416344	-2.252310512
MPO	0.72	-0.100210725	0.395445841	1.815924304	-2.297581077
HIST1H3I	1.01	-0.23969912	0.550784246	1.826039083	-2.334418732
TLR10	0.68	-0.114251362	0.37328047	1.826220306	-2.335080607
RGS13	0.63	-0.141329765	0.345522005	1.830753103	-2.351656924
SCGB1D2	1.58	0.154261106	0.862625577	1.834241184	-2.364440723
EFHD1	0.81	-0.050585171	0.436361572	1.846394198	-2.409171536
GUCY2C	0.79	-0.148462324	0.426890995	1.848711936	-2.417735824
MS4A3	0.76	-0.230322082	0.407996467	1.854861874	-2.440512571
CEACAM6	0.53	-0.208484985	0.283520388	1.857681981	-2.450982344
CRABP1	1.07	-0.229859596	0.570991934	1.876379295	-2.52079926
INSM1	0.95	-0.052047303	0.504335927	1.884745756	-2.552266564
RUNDC3A	1.58	0.032030675	0.837673948	1.887495811	-2.562640438
SCGB2A2	0.68	-0.212852423	0.360274854	1.89670866	-2.597503742
CCR9	1.01	-0.269193784	0.532744489	1.898199221	-2.603160284
RTN1	1.48	0.015404731	0.777852004	1.906680175	-2.63542929
INSC	0.48	-0.137175633	0.251958481	1.918937668	-2.682321772
HIST1H2BI	0.74	-0.250526163	0.38416532	1.925149457	-2.706200432
CXCL5	0.69	-0.175125299	0.35780101	1.938213356	-2.756671014
BPI	0.72	-0.290716416	0.367413128	1.95704255	-2.830015541
BHMT2	1.11	-0.433887836	0.562807203	1.972005653	-2.888806297
CLDN2	0.76	-0.281988432	0.380606399	1.99544356	-2.981795002
GPR64	0.77	-0.110404553	0.385769923	1.997872836	-2.99149587
NRSN1	1.68	0.067750312	0.833508531	2.015808226	-3.063482803
KRT20	0.56	-0.137747707	0.275797082	2.022302364	-3.089706853
SPDEF	0.47	-0.28121403	0.2305241	2.04366013	-3.176546726
RSPO1	0.69	-0.328125803	0.336639425	2.044574982	-3.180286857
FAM163B	0.86	-0.088686155	0.418915426	2.057372562	-3.232781858
LIM2	0.74	-0.169143916	0.356439415	2.070953991	-3.288850434
PRDM14	0.83	-0.007921951	0.399197127	2.077283783	-3.315107914
CTSG	0.52	-0.360006192	0.250015046	2.086630876	-3.354028412
HIST2H2AC	0.99	-0.144582047	0.470101436	2.095897037	-3.392784389
CYP4B1	0.58	-0.140352255	0.275568177	2.114868092	-3.472667047
LIN28A	0.81	-0.006029891	0.378452882	2.143802324	-3.595888406
OR51E2	0.52	-0.173318885	0.237092852	2.189143265	-3.792348236
MIA	0.33	-0.142477295	0.151681573	2.193395932	-3.810985714
HIST1H1D	1.09	-0.263165682	0.497614271	2.195748582	-3.821311835
FOXC2	0.96	-0.173249471	0.432586847	2.208953776	-3.879476784
SLC26A4	0.56	-0.151210053	0.251547367	2.244821575	-4.039223904
MAG	0.77	-0.060090076	0.341458366	2.247494329	-4.051230761

PAX5	0.95	-0.150921186	0.420297014	2.253591014	-4.078672459
RNF186	0.67	-0.117304115	0.295866259	2.277309246	-4.186137402
C18orf42	0.9	0.01024954	0.392441599	2.305040718	-4.313212712
NPY	0.45	-0.137760238	0.195919055	2.306557066	-4.320205497
GPRC5D	0.58	-0.221782695	0.250625566	2.324169885	-4.401765653
TFF2	1.28	-0.042011661	0.547768151	2.334911582	-4.451812095
TSPAN8	1.1	-0.139657261	0.46804398	2.34903139	-4.51794847
HIST1H2AB	0.89	-0.275747026	0.371451322	2.404178056	-4.780072125
IBSP	0.73	-0.19582955	0.300619868	2.421286305	-4.862627369
SERPINA5	0.58	-0.092723161	0.235395946	2.444350366	-4.97484871
CXCL6	0.66	-0.229784688	0.268477399	2.44761931	-4.990840286
HIST1H4A	0.94	-0.299928809	0.378618639	2.469999519	-5.100897625
CYP17A1	0.37	-0.10536505	0.149298626	2.477278493	-5.136908732
ELANE	0.88	-0.182434371	0.354459081	2.488837423	-5.194311718
ALPPL2	0.56	-0.123845938	0.222256256	2.514028543	-5.320339513
HAS1	0.7	-0.137918199	0.274925009	2.536017189	-5.431383181
LMO3	0.62	-0.026218675	0.241051563	2.587694776	-5.696164253
MMP12	0.51	-0.225709663	0.19774652	2.598096899	-5.750107497
SAA1	1.08	-0.138786862	0.404989575	2.67056647	-6.13192527
VSTM1	0.73	-0.108749743	0.270469867	2.684111074	-6.204452255
SERPINA1	0.36	-0.151507902	0.132447657	2.684913252	-6.208759171
ORM1	0.64	-0.119225545	0.236918659	2.695551804	-6.265999527
ANXA10	0.51	-0.115515661	0.185140429	2.738043405	-6.496881686
MTRNR2L12	0.75	-0.048873939	0.266678187	2.807822072	-6.88386479
CCL24	0.5	-0.278479297	0.176676225	2.809234279	-6.891797232
HIST1H1B	0.67	-0.245407524	0.234295485	2.854196524	-7.146437798
CLCNKB	0.65	-0.093874148	0.224654054	2.883247068	-7.313113653
AGXT2	0.79	-0.159940458	0.268325512	2.933471034	-7.605252309
C2orf40	0.84	-0.130755202	0.272338069	3.071686512	-8.435258029
CHGA	1.25	-0.093158119	0.402855401	3.098217814	-8.598953625
HOXA9	0.84	-0.206252483	0.269076932	3.13712133	-8.841530238
CRTAC1	1.39	0.003185352	0.440210298	3.146603556	-8.901113936
CDK5R2	1.65	0.056127502	0.523251525	3.157793683	-8.971660942
PEG3	0.53	-0.178097385	0.167325351	3.161354432	-8.994161847
FOXA3	0.89	-0.130932138	0.277788497	3.201389716	-9.248896114
GDAP1L1	1.67	0.007244272	0.508264301	3.277841175	-9.744242769
CP	0.78	-0.22054063	0.232649583	3.37221019	-10.37180157
P2RX3	0.61	-0.113647304	0.177374266	3.462614344	-10.9896981
ACTG2	0.69	-0.075920637	0.198975029	3.47019457	-11.04225035
NTS	0.56	-0.198258838	0.160316725	3.488727856	-11.17122205
LGALS4	0.76	-0.117864133	0.213365461	3.570481837	-11.74834055
CPNE4	1.48	-0.042368005	0.392352216	3.774039489	-13.24337406
EYA1	1.15	-0.167277997	0.299374645	3.854325822	-13.85582754

SYT4	1.66	-0.022154978	0.427806812	3.870573279	-13.98133751
CLC	0.73	-0.114146623	0.187393795	3.877889425	-14.03802639
PAX3	1.47	-0.32168603	0.377724373	3.895877961	-14.17786509
SCG3	1.66	-0.015214473	0.42311544	3.917636558	-14.3478762
PRSS1	0.64	-0.109090901	0.163402185	3.925880279	-14.41253596
CDO1	1.23	-0.222809631	0.305447191	4.040110799	-15.32249527
IGLL1	0.43	-0.147223728	0.10755071	4.041424628	-15.33311303
CD177	0.69	-0.285882645	0.170543693	4.058797927	-15.47384061
LTF	0.85	-0.181050294	0.208020922	4.07859786	-15.6349605
PHOX2A	0.65	-0.107943592	0.157405822	4.110204269	-15.89377913
CLDN6	0.69	-0.124315859	0.166886732	4.136686562	-16.11217571
HIST1H2AJ	0.93	-0.17723424	0.224643705	4.154352158	-16.25864185
SFTPD	0.52	-0.128320409	0.123613983	4.16952844	-16.38496741
HAND2	1.28	-0.179929501	0.304568357	4.210288871	-16.72653238
TRIM31	0.43	-0.157495329	0.101090333	4.212263279	-16.74316193
SLC35D3	1.49	-0.190645661	0.346331903	4.304309507	-17.52708033
FEV	1.69	0.000496091	0.382064226	4.417644419	-18.51558222
RAB3C	1.58	-0.121399191	0.356760859	4.42816323	-18.60862959
MGAM	0.64	-0.181916245	0.142634843	4.512682859	-19.36430659
UPK1B	0.78	-0.276438563	0.172296601	4.548925778	-19.69272574
SPINK2	0.7	-0.227379085	0.151461007	4.591162563	-20.07877368
PENK	1.42	-0.077681525	0.304567857	4.659172131	-20.70788495
GIP	0.56	-0.10717895	0.118333155	4.767885587	-21.73273297
FXYD2	0.6	-0.095461864	0.1239603	4.847806349	-22.5012264
DEFA4	0.6	-0.078469522	0.116850779	5.172921172	-25.75911345
ATP1A3	1.65	-0.020872397	0.313215632	5.254017925	-26.60470435
SCUBE2	0.91	-0.324987772	0.173343523	5.267411152	-26.74562024
UGT2B7	0.53	-0.131583697	0.100796679	5.283438047	-26.9147176
NTRK1	0.69	-0.157141543	0.130192197	5.303939004	-27.13176895
PRTN3	0.64	-0.091804086	0.115014166	5.535391161	-29.64055531
DEFA3	0.6	-0.111349148	0.108178282	5.560835016	-29.92288608
SLC6A13	0.55	-0.104525751	0.099468005	5.568480894	-30.00797947
SYP	1.66	-0.041918704	0.293983509	5.633290047	-30.73395675
L1TD1	0.98	-0.142236824	0.169016108	5.783697969	-32.4511622
CHST4	0.38	-0.13931766	0.063164209	6.082207193	-35.99324434
KLHDC8A	0.6	-0.158638084	0.09836208	6.127628451	-36.54783043
DLX5	1.64	-0.092158434	0.263846005	6.225850367	-37.7612128
SHISA2	1.12	-0.19747765	0.180495793	6.226767818	-37.77263746
BEX1	1.56	-0.080685183	0.241252242	6.460822717	-40.74223018
PRAC1	0.8	-0.135072553	0.112095883	7.166511474	-50.3588867
CLDN10	1.39	-0.160645463	0.192787873	7.226545166	-51.22295503
SPIB	1.57	-0.118553412	0.198201233	7.928851315	-61.86668317
MUC5AC	0.41	-0.138587355	0.047013815	8.667257288	-74.12134889

LGR5	1.52	-0.093169622	0.171924221	8.818530144	-76.76647391
DRD2	1.59	-0.119191383	0.167192431	9.483269454	-88.93239954
FAM163A	0.64	-0.134206226	0.066983998	9.541167236	-90.03387222
HEPACAM2	0.59	-0.149640511	0.059229549	9.919561963	-97.39770954
PCSK2	0.49	-0.13731707	0.048635302	10.16923074	-102.4132538
PTPRN	1.59	-0.104074629	0.143237215	11.11592289	-122.5637416
VIL1	0.6	-0.167233904	0.052147291	11.53865085	-132.1404635
MUC13	0.46	-0.210865023	0.039880209	11.62386638	-134.1142695
ACTL6B	1.66	-0.078687098	0.091347428	18.19309369	-329.9886579
FOXI1	0.63	-0.148448867	0.029587299	21.26087433	-451.0247772
CPLX2	1.66	-0.082516384	0.075384546	22.02904653	-484.278891
DPPA4	0.61	-0.098718864	0.018825251	32.42805753	-1050.578915
KCNK3	1.64	-0.117337103	0.046655714	35.2053674	-1238.417894
ITLN1	0.25	-0.1009629	0.00553408	45.17149437	-2039.463904