

Genes	RMSE	Observed Mean	Observed Stdev	RMSE:Stdev	Calculated R^2
UNCX	0.68	-0.305800814	0	-1	0
PCDH18	0.56	0.010162176	0.772026239	0.72309607	0.477132079
UPK2	0.54	-0.050053668	0.680016708	0.79422477	0.369207021
BPI	1.03	0.056281047	1.258518922	0.81757919	0.331564266
ACSM2B	1.1	0.037772005	1.341875295	0.81788054	0.331071416
ENPEP	0.53	-0.092068273	0.635045279	0.82927158	0.312308652
RSPO1	0.46	-0.125326465	0.548335724	0.83156425	0.308500895
CA9	0.81	0.126138959	0.964826988	0.83994693	0.294489162
S100A14	0.61	-0.105905776	0.720341693	0.84341223	0.288655817
ACSM2A	1.14	-0.017077619	1.334251884	0.85579403	0.267616577
S100B	0.74	0.03408051	0.848600546	0.86934256	0.244243517
STEAP2	0.91	-0.035618953	1.035682459	0.88222997	0.221670282
MRGPRF	0.74	0.079634228	0.841816193	0.88254231	0.221119075
DPPA3	1.36	0.21207289	1.522728795	0.89020715	0.20753123
AOC1	0.77	-0.014355308	0.861329276	0.89351584	0.201629445
FCGR3B	1.1	0.022118285	1.223347694	0.89563783	0.197832876
TMEM119	0.86	0.021408987	0.959608955	0.90093123	0.188322917
CYP11B1	1.43	0.003715615	1.583154377	0.90245236	0.18557974
HIST1H2BH	1.21	0.308593039	1.33114327	0.91163732	0.1689174
TRPS1	0.95	0.006932135	1.036109875	0.9183398	0.156652008
PSMB11	1.66	0.215220859	1.798759101	0.92345856	0.147224286
AZGP1	1.02	-0.044933372	1.097573607	0.92582945	0.142839831
HIST1H1B	1.15	0.171369084	1.231821254	0.93079334	0.133623764
SOX17	0.99	-0.020815833	1.062668273	0.93257464	0.130304533
GYG2	1.11	0.090912973	1.192070999	0.93368052	0.128240681
EDNRB	0.88	0.063004994	0.942125124	0.93604139	0.123826518
DMBT1	1.32	0.070066586	1.414197228	0.9363358	0.123275275
INMT	0.7	-0.11847797	0.742472695	0.94078953	0.114915064
SERPINA6	1.19	0.044806862	1.258428342	0.94266927	0.111374644
FCGBP	1.51	-0.001765944	1.603631703	0.94388146	0.109087789
CPB2	1.08	0.032695568	1.141727967	0.94448812	0.107942191
HIST1H4C	1.2	0.169576972	1.263788453	0.94710082	0.103000042
VRTN	0.93	-0.064150388	0.973561601	0.95109519	0.095417949
HIST1H4D	1.56	0.372677093	1.638659848	0.95168978	0.094286555
MAB21L2	0.8	0.044652541	0.837052822	0.95273363	0.092298625
FOXC1	0.76	-0.115707281	0.791521127	0.95430452	0.089302893
C4BPA	1.37	0.043664982	1.433908788	0.95555911	0.086906789
AGXT2	1.44	0.126497073	1.508211965	0.95635621	0.085382796
SERPINB4	0.7	0.004308591	0.727794438	0.95833543	0.081593202
CYP11A1	0.56	-0.128223884	0.582124518	0.95969634	0.078982935
MEST	0.96	0.021510896	1.003990778	0.96055254	0.07733881
OMD	1.05	0.106925837	1.095289238	0.96310807	0.072422853

PIGR	1.3	0.027069622	1.350121796	0.96334913	0.071958446
HIST1H1E	1.5	0.205935134	1.555492259	0.96377377	0.071140114
HIST1H2AL	0.98	0.116055538	1.02059569	0.9648206	0.069121216
NANOG	1.97	0.253131574	2.040149138	0.96595326	0.066934292
MITF	1.07	0.06796928	1.107536174	0.96639612	0.066078541
FAM101A	1.73	0.474971686	1.785054117	0.96782462	0.063315509
LIN28A	1.96	0.30683271	2.022760408	0.96792151	0.063127943
HIST1H3D	1.59	0.166116784	1.646958164	0.96810829	0.062766339
FCN1	0.91	0.070822339	0.937360693	0.97142604	0.056331441
HBA1	0.85	-0.051110863	0.872667307	0.97454082	0.050270186
MUC16	1.25	0.004168635	1.283571064	0.9749442	0.049483799
RAB44	0.68	0.02447018	0.692058902	0.97588601	0.047646505
CRISP3	1.57	0.205951788	1.605515632	0.97668027	0.046095648
NTRK2	0.75	-0.062129305	0.771492346	0.97769712	0.044108342
PLG	0.98	-0.008329297	1.004914593	0.97788391	0.043743066
SPNS3	0.7	-0.231817462	0.717647625	0.981331	0.036989466
CFTR	0.8	-0.121474707	0.814376944	0.98308056	0.033552616
TMEM72	1.52	0.089092772	1.541506845	0.98598996	0.027823807
PHOSPHO1	0.55	-0.136183888	0.558763063	0.98617833	0.027452297
TMEFF2	1.7	0.171980744	1.72012372	0.98618145	0.027446154
FAM107A	1.08	0.113722935	1.091845201	0.98638515	0.02704434
GJB1	1.53	0.199735205	1.554904737	0.98690223	0.026023986
PEG3	1.74	0.269848076	1.75879734	0.98694173	0.025946018
HIST1H2BO	1.69	0.25120127	1.70974394	0.98810834	0.023641906
HIST1H3F	1.2	0.257218805	1.218175212	0.98858455	0.022700597
CA3	1.24	0.212993798	1.249207734	0.98896518	0.021947883
PTPRZ1	1.03	0.091683997	1.039330227	0.98978576	0.020324153
SLC3A1	1.56	0.029923427	1.573513462	0.99046413	0.018980801
PRDM14	2.01	0.316419585	2.031072026	0.99157667	0.016775709
HIST1H2BF	1.62	0.230960091	1.633249268	0.99170095	0.01652923
BCAN	1.69	0.235281482	1.697312007	0.99341103	0.013134531
MYBPC1	1.8	0.261404798	1.813132108	0.9937727	0.012415819
APCS	0.97	0.027986272	0.97589803	0.99444555	0.011078052
CEACAM8	1.61	0.080804531	1.618586272	0.99456713	0.010836234
HIST1H4L	1.68	0.320320031	1.68880111	0.99531486	0.009348327
GREM1	0.66	-0.031429515	0.660810862	0.99541363	0.009151703
HMP19	1.71	0.250409773	1.714961791	0.99676417	0.006461183
SOX8	1.75	0.223514198	1.748037661	0.99874936	0.002499724
TLX2	0.93	-0.159248981	0.933653155	0.99926476	0.001469935
MMP8	2.1	0.360868945	2.098298154	0.99973133	0.00053726
HIST1H4B	1.24	0.110315504	1.240235003	0.99973517	0.000529586
ELAVL4	1.04	0.051927736	1.041110334	0.99976363	0.00047269
CHRM1	1.81	0.26867915	1.813558319	0.99979998	0.0004

ATCAY	1.94	0.310440907	1.936864055	1.00090374	-0.001808295
HIST1H3J	1.76	0.406111371	1.758883329	1.00145671	-0.00291554
F13B	1.19	0.188673598	1.188947364	1.00168608	-0.003374997
TMEM100	1.91	0.364960263	1.905920265	1.00220308	-0.004411018
G6PC	2.01	0.409934147	2.005861434	1.00230943	-0.004624195
FGF8	1.48	0.156051897	1.479212334	1.00279684	-0.005601508
GRIA3	1.61	0.286757921	1.602883109	1.00463767	-0.009296848
FAM131B	1.44	0.204885106	1.437498603	1.00464777	-0.009317146
PADI4	1.39	0.232413933	1.383376211	1.00473858	-0.009499618
SERPINB3	0.89	0.156932514	0.881348285	1.00551523	-0.011060876
HIST1H2BG	1.7	0.152004862	1.694322449	1.00565366	-0.011339292
ATP6V0A4	1.15	0.045882514	1.143141523	1.00568503	-0.01140237
CDHR5	1.3	0.140153113	1.296337735	1.00594377	-0.011922858
DPPA5	1.59	0.207723197	1.584283114	1.00609643	-0.01223003
LRRC15	0.84	0.029273811	0.837562907	1.0065724	-0.013187992
HIST1H2AB	1.2	0.119868913	1.188290053	1.0072418	-0.01453605
ITIH5	1.37	0.105502099	1.355070865	1.00804922	-0.016163226
C1orf61	2.08	0.340345948	2.064279799	1.00823986	-0.016547605
PLP1	2.05	0.383801336	2.034196452	1.00886755	-0.017813727
TPSAB1	1.26	0.036030557	1.24982173	1.00938908	-0.018866315
HIST1H2BL	1.13	0.122792606	1.123177866	1.0097161	-0.019526609
HEPACAM	1.9	0.345613053	1.87575872	1.01147836	-0.023088471
BBOX1	1.59	0.114069859	1.574035207	1.01172624	-0.023589981
PEBP4	1.72	0.270596846	1.69959957	1.01203999	-0.024224941
SPINK1	1.77	0.289114987	1.749968897	1.01220576	-0.024560501
PPP1R1A	1.89	0.289989916	1.869084677	1.01229614	-0.024743465
AMPD1	1.88	0.252620653	1.856363383	1.01246926	-0.025093994
ADCYAP1R1	2.07	0.380399619	2.040462464	1.01290826	-0.025983137
LZTS1	0.78	-0.061088003	0.767815716	1.01352061	-0.027224023
BHMT2	0.76	0.061718329	0.751787465	1.0144559	-0.029120763
HNF1B	1.49	0.162280748	1.466110969	1.01495128	-0.030126099
AGT	1.64	0.322048161	1.61286578	1.01587698	-0.032006036
CARTPT	1.37	0.161611809	1.346579064	1.01614921	-0.032559219
HSD3B2	1.04	-0.093039528	1.027127071	1.0170608	-0.034412665
KRT17	0.75	-0.013696614	0.73630993	1.0173185	-0.034936937
CALB2	2	0.328086765	1.963744848	1.01847994	-0.03730138
PLA2G1B	1.4	-0.001803106	1.373841744	1.01857816	-0.037501472
STC2	1.12	0.003299941	1.097433771	1.01891862	-0.03819515
MB	1.52	0.286677928	1.496115645	1.01911578	-0.038596977
CCL24	1.93	0.264875589	1.89131204	1.01958452	-0.0395526
CXCL8	1.91	0.23513685	1.867937759	1.02002025	-0.040441314
HSPB6	1.76	0.301248611	1.721315568	1.02008196	-0.040567209
HIST1H2AH	1.87	0.279676462	1.83468601	1.02065057	-0.041727586

HIST1H3B	1.2	0.162067683	1.172008635	1.02079657	-0.042025631
DAAM2	0.63	-0.19115537	0.617343526	1.0210022	-0.042445488
ALDH1L2	0.83	0.065121038	0.809229134	1.02158042	-0.043626561
EMR3	0.96	0.010085457	0.94321334	1.02160374	-0.043674208
SMTNL2	2.12	0.318538912	2.072209342	1.02176069	-0.04399491
VTN	1.6	0.224029336	1.563773313	1.02223368	-0.044961692
GPM6A	2.2	0.387012429	2.149234136	1.02227276	-0.045041588
ASB11	1.69	0.264643656	1.651648868	1.02232945	-0.045157504
CTNND2	2	0.313786419	1.958322721	1.02236447	-0.045229103
KRT20	2.11	0.379365437	2.061119124	1.02276182	-0.04604174
AQP4	2.17	0.346143962	2.123390957	1.02309476	-0.04672289
NCAN	2.2	0.373244721	2.150264029	1.02315206	-0.046840136
FAM43B	1.52	0.145821635	1.485614128	1.02344357	-0.047436743
VPREB1	0.57	-0.066722991	0.556267117	1.02400129	-0.048578634
CMTM2	1.36	0.210168742	1.326799282	1.02404228	-0.048662597
OLIG2	2.2	0.384979841	2.15035523	1.02429761	-0.049185586
OLIG1	2.2	0.385979829	2.15111783	1.02463043	-0.049867522
TCN1	0.85	-0.052140444	0.833822402	1.02495848	-0.050539888
LHFPL3	2	0.29528626	1.946592232	1.02522804	-0.051092538
TNR	2.2	0.395515677	2.144201201	1.02540154	-0.051448322
UGT2B4	1.8	0.448106308	1.752370064	1.02612875	-0.052940205
HIST1H3G	1.93	0.304314947	1.880487951	1.02654716	-0.053799061
SERPINB13	1.34	0.212574032	1.304734504	1.02690697	-0.054537921
RNF186	1.75	0.272337932	1.702757219	1.02720684	-0.055153894
GFAP	2.1	0.419129718	2.047019171	1.0276063	-0.055974714
SNAP91	1.46	0.17038349	1.416165683	1.02780469	-0.056382473
GPRC5B	0.78	-0.020220032	0.756499879	1.02788262	-0.056542683
AXIN2	0.79	-0.112617925	0.771727564	1.02789522	-0.056568579
C18orf42	2.16	0.376810089	2.102851971	1.02868317	-0.058189072
NXPH1	2.2	0.345019777	2.139112931	1.03011539	-0.061137711
MLC1	1.52	0.108031967	1.478870156	1.0301524	-0.061213975
DUSP26	1.91	0.411284731	1.849996819	1.03032576	-0.061571178
KNG1	1.8	0.330524781	1.746007687	1.03039441	-0.06171264
FGL1	1.06	0.119188534	1.029217996	1.0306659	-0.062272197
CELF3	1.92	0.270469307	1.862094444	1.03160528	-0.064209448
MYH11	2.09	0.286073464	2.025144954	1.03226706	-0.065575283
ALPL	0.93	-0.015456366	0.895576136	1.03356053	-0.068247377
DCX	2.07	0.281967372	1.998537873	1.0337034	-0.068542723
SCRG1	2.17	0.420205601	2.102251922	1.03392721	-0.069005482
HIST1H4E	2.02	0.324213449	1.95758493	1.03407818	-0.069317684
HBB	1.17	0.132449007	1.129434876	1.03415589	-0.069478413
HIST1H2BI	1.68	0.315157188	1.62474672	1.03426941	-0.069713221
ELAVL3	2.09	0.433538984	2.023937048	1.03464774	-0.070495944

GLYAT	1.48	0.115296462	1.4272812	1.03465067	-0.070502013
DLK1	2.13	0.309125961	2.055214179	1.03471164	-0.070628186
TM4SF4	1.59	0.223669012	1.53142687	1.03508484	-0.071400628
ERP27	0.74	-0.173596108	0.71740447	1.03510117	-0.071434424
COMP	1.29	0.15007229	1.249494361	1.03535375	-0.07195739
PHOX2B	1.01	0.132950815	0.970380619	1.03595412	-0.073200933
PF4	1.32	0.109047487	1.276128147	1.03693451	-0.075233182
AMBP	1.36	0.141167615	1.307280241	1.03704649	-0.075465422
CAPN3	1.97	0.239623694	1.902200765	1.03755059	-0.076511223
AC234582.1	1.06	-0.196930967	1.015983746	1.03860131	-0.078692679
POU3F3	1.63	0.213058246	1.570575218	1.03893452	-0.079384941
DKK1	2.03	0.380360795	1.954139478	1.03903636	-0.079596557
BPIFB1	1.42	0.07203075	1.36524346	1.03916513	-0.079864161
AMER2	2.21	0.364480958	2.1283517	1.03917422	-0.079883051
SERPIND1	1.43	0.138032914	1.376460861	1.03964243	-0.080856376
CNGB1	1.39	0.181551201	1.33493363	1.03975479	-0.081090015
RNASE3	0.92	-0.119308028	0.882786155	1.03992019	-0.081434002
HIST1H2BB	1.47	0.023324608	1.412545996	1.04033277	-0.082292276
APOA2	1.67	0.226344159	1.608155105	1.04057844	-0.082803486
MAL	2.07	0.353116367	1.988195249	1.04063216	-0.082915292
KCNQ2	1.26	0.068384419	1.213560552	1.04149076	-0.084703009
HSPA2	1.09	0.073930995	1.044952448	1.04234544	-0.086484012
KLK3	1.9	0.286397458	1.823112678	1.0427157	-0.087256035
KRTDAP	0.94	0.007122819	0.90113505	1.04274812	-0.08732364
CDH17	1.33	0.021830655	1.27365123	1.04302319	-0.087897371
KHDC3L	1.64	0.268194939	1.571317894	1.04311169	-0.088082004
PRLHR	1.56	0.294553337	1.497421904	1.04341903	-0.088723264
SLC7A4	1.55	0.101144112	1.484959552	1.04355508	-0.089007207
KLK8	1.06	0.0297047	1.018385277	1.04361464	-0.089131508
RFX4	1.93	0.364738144	1.85278185	1.04422326	-0.090402206
MTRNR2L8	0.77	-0.147005834	0.733245994	1.04506028	-0.092150983
VSTM2A	2.21	0.454490411	2.115501522	1.04534795	-0.092752339
CLRN3	1.09	0.499707037	1.045741647	1.04536785	-0.092793948
PGLYRP1	1.47	0.19433703	1.410601535	1.04540025	-0.092861691
RAB3B	1.33	0.151192627	1.272142306	1.0454156	-0.092893785
GPM6B	1.2	0.047708751	1.146723196	1.04543426	-0.092932782
GC	1.74	0.226785671	1.665908697	1.04649605	-0.095153985
SLC28A1	1.42	-0.061955471	1.359399001	1.04709322	-0.096404201
FAIM2	1.33	0.081713868	1.270583523	1.04751242	-0.097282278
NR0B1	1.73	0.336505691	1.648840093	1.04762484	-0.097517805
GATA6	0.82	-0.040164287	0.786926555	1.04831846	-0.098971587
TBX3	0.98	-0.065481418	0.936578831	1.04850291	-0.099358359
UPK3B	1.25	0.082469854	1.191559763	1.04880639	-0.099994835

C8B	0.89	-0.000850232	0.848909659	1.04970658	-0.101883902
DMGDH	1.41	0.07159332	1.344302033	1.05072428	-0.104021513
ATP6V0D2	2.15	0.300386284	2.044484896	1.05109092	-0.104792128
ALB	1.68	0.213137251	1.593992465	1.05109898	-0.104809064
SLC1A2	2.13	0.487394911	2.03090268	1.05111869	-0.104850503
STAR	1.43	0.109198562	1.357527676	1.05116776	-0.104953668
PDIA2	1.26	0.195023333	1.194934749	1.05130967	-0.105252012
CYP4F3	1.33	0.19234658	1.26905128	1.05131739	-0.105268257
DCSTAMP	2.01	0.235865794	1.907185092	1.05141542	-0.105474379
APOBEC2	1.7	0.435009509	1.616561694	1.05163918	-0.105944973
SPOCK3	0.99	0.261687215	0.939008622	1.05208238	-0.106877328
BMP6	0.84	-0.087940205	0.797049826	1.05400465	-0.110925806
C1QL1	1.95	0.411214064	1.846869167	1.05400959	-0.110936212
PMP2	2.2	0.544127545	2.084118464	1.05442866	-0.111819799
MMP25	0.96	-0.177912855	0.909868777	1.05448548	-0.111939625
TF	0.87	0.034889726	0.822095023	1.05550375	-0.114088175
NEFL	1.57	0.263078224	1.486376406	1.0555947	-0.114280166
CRYGN	1.09	0.014704088	1.027855027	1.05582997	-0.114776926
HFE2	1.84	0.459164886	1.738185529	1.0560364	-0.115212884
CITED1	1.1	0.043568891	1.041288804	1.05618478	-0.115526279
EYA1	1.44	0.23077959	1.36387407	1.05642076	-0.116024831
FOXH1	0.8	0.04428773	0.756972131	1.05710182	-0.117464252
CRP	1.94	0.350005606	1.83401945	1.05786196	-0.119071922
NDUFA4L2	1.13	0.173832889	1.071668572	1.05898086	-0.12144047
CXCR2	1.09	0.126870654	1.024412688	1.05923536	-0.121979546
RAG2	1.45	0.116991086	1.367295026	1.06015869	-0.123936446
PKNOX2	1.54	0.305369498	1.450335506	1.06049947	-0.12465913
SLC38A3	1.45	0.072664583	1.362364601	1.06076029	-0.125212395
MSMB	1.13	0.000940915	1.061205286	1.06152544	-0.126836266
TNNT1	1.18	0.241321346	1.111055079	1.06182304	-0.12746817
FGF18	1.41	0.177191417	1.330836104	1.06277293	-0.129486296
NCAM1	2	0.467086289	1.88588422	1.06291795	-0.12979456
DCT	1.97	0.231506747	1.851053028	1.06306342	-0.130103826
NOX1	0.79	-0.116560354	0.745312809	1.0636908	-0.131438116
CAPN8	1.21	-0.013615974	1.132602185	1.06431515	-0.132766745
FOXA2	1.74	0.332788759	1.632513831	1.06536762	-0.135008155
APOA1	1.34	0.155300299	1.254596193	1.0656101	-0.135524885
AGRP	1.7	0.107774698	1.594471008	1.06619581	-0.136773503
AHSG	1.95	0.437590774	1.82922619	1.06627179	-0.136935524
LTF	0.56	-0.123050708	0.520816093	1.06633256	-0.137065135
TTYH1	2	0.359899015	1.874691268	1.06642503	-0.137262338
MOG	1.86	0.349305154	1.746026112	1.06648971	-0.137400297
APOC3	1.77	0.354233032	1.655605708	1.06736225	-0.139262179

DGKK	1.52	0.300988894	1.424839876	1.06764339	-0.13986241
GDF3	1.26	0.00402098	1.182941696	1.06766981	-0.139918825
MSX1	0.64	-0.119918974	0.597447111	1.06809127	-0.140818965
PHYHIPL	1.68	0.232465604	1.575672538	1.06834195	-0.141354524
CHGB	2	0.362640034	1.872347215	1.06842196	-0.141525478
CPB1	0.97	0.058491009	0.908059597	1.06852909	-0.14175441
CDH16	1.03	0.100271979	0.96162813	1.0689465	-0.142646624
RRAD	1.29	0.147934232	1.203603348	1.06933477	-0.143476846
KIF26A	1.13	0.184970202	1.055626948	1.0694338	-0.143688644
SPON1	1.14	0.26701006	1.062314496	1.06945678	-0.143737796
FGA	1.53	0.108501547	1.433321995	1.06952333	-0.14388016
BNC1	1.09	0.237193288	1.016437075	1.06966164	-0.144176022
ALDH1A3	1.32	0.076540224	1.229339084	1.06970402	-0.144266695
TRIM63	2.05	0.525548638	1.913551416	1.06977397	-0.144416336
POU5F1	1.85	0.112785056	1.727718105	1.07114777	-0.147357543
ARPP21	1.95	0.556449742	1.823675323	1.07131158	-0.147708501
ITLN2	1.71	0.237339325	1.597620421	1.07153281	-0.148182561
NDP	1.33	-0.021761485	1.24324937	1.0716938	-0.14852761
COL2A1	1.82	0.342197833	1.698002191	1.07239734	-0.150036046
STK32A	1.63	0.191684536	1.51617152	1.07240478	-0.150052001
MAB21L1	1.21	0.146399694	1.1284196	1.07263883	-0.150554049
S100A1	1.76	0.447728849	1.636126686	1.07283675	-0.15097869
VAT1L	0.85	0.061884942	0.794183749	1.07323838	-0.151840627
SFTA2	1.76	0.310914834	1.636645989	1.07466787	-0.154911029
SCG5	1.04	0.201768068	0.966881254	1.07581728	-0.157382813
FAM3D	0.74	-0.108402491	0.684383832	1.07588966	-0.157538563
KRT13	1.75	0.188231698	1.626398495	1.07619809	-0.158202318
PIP	0.87	-0.111871731	0.809307642	1.07648164	-0.158812717
ANXA13	0.94	0.166122668	0.8692183	1.07756944	-0.161155907
CTSG	1.87	0.419106879	1.730743532	1.0802964	-0.167040312
DPCR1	1.95	0.430384818	1.801251204	1.080723	-0.167962194
ASIC4	1.43	0.161603366	1.318806157	1.08177944	-0.170246761
DUSP5	0.86	-0.167274321	0.798062532	1.08250192	-0.171810398
PROC	1.05	0.151632404	0.973643892	1.08252676	-0.171864186
SFRP2	1.09	0.099827141	1.007402006	1.08266042	-0.172153583
ANO7	1.02	-0.178562521	0.939423238	1.08344811	-0.173859807
CYS1	0.98	0.156608618	0.905394189	1.08359246	-0.174172628
LGALS7B	1.55	0.21184562	1.434067892	1.08387608	-0.174787359
TYR	2.04	0.26003366	1.880759033	1.08513868	-0.177525959
ITIH2	1.46	0.219428056	1.341656882	1.08662218	-0.180747758
INSM2	2.07	0.544751721	1.908547409	1.08703286	-0.181640443
SNCG	0.4	-0.170350826	0.370812797	1.08885057	-0.185595555
OR51E1	0.73	-0.160444199	0.667472692	1.08942511	-0.186847062

SULT2A1	1.46	0.116079063	1.335984732	1.08968818	-0.187420334
CXCL6	1.35	0.160359007	1.237468775	1.08969852	-0.18744286
STMN4	2.16	0.343140052	1.978351793	1.09157005	-0.191525181
DES	1.85	0.465810703	1.695215558	1.0927524	-0.194107816
UGT2A3	0.97	-0.060873307	0.890117406	1.09391644	-0.196653176
ITIH1	1.37	0.177174359	1.252230226	1.09477853	-0.198540023
POSTN	0.85	0.031980047	0.780389757	1.09485915	-0.198716552
GAP43	0.91	-0.030214491	0.833145788	1.09546269	-0.200038507
WT1	1.92	0.470907314	1.754607521	1.09640861	-0.202111844
KRT14	0.97	0.085028591	0.881499485	1.09663275	-0.202603386
APOB	1.72	0.121221547	1.56165858	1.09892228	-0.207630166
DSG1	1.34	0.239084195	1.221008017	1.09896457	-0.20772312
VWA5B2	1.18	0.086165759	1.076759473	1.09908774	-0.207993856
EEF1A2	1.33	0.264115185	1.207961587	1.09912015	-0.208065098
FGG	1.43	0.061400328	1.300765766	1.09930872	-0.208479651
LRMP	1.51	0.036145468	1.375514658	1.09974007	-0.209428215
FAT2	1.32	0.094429028	1.197717236	1.09986421	-0.209701289
FAM83A	1.2	0.05038495	1.087266438	1.10011342	-0.210249528
ATP13A4	1.34	0.071909252	1.214620021	1.10063779	-0.211403549
AMHR2	1.9	0.372641645	1.722552738	1.10083753	-0.211843265
CHAD	1.17	-0.030640963	1.064917287	1.10297141	-0.216545925
FABP1	1.37	0.158709818	1.244716666	1.10315142	-0.216943058
GPR143	1.02	-0.08824866	0.924772703	1.10327781	-0.217221924
MMP9	1.73	0.322515173	1.568861597	1.10333686	-0.217352224
NKX3-1	1.43	-0.121248628	1.299782726	1.10338739	-0.217463739
LRRC26	0.79	-0.162377565	0.71184429	1.10375349	-0.21827176
PKP1	1.12	0.169024586	1.012645055	1.10544018	-0.221997996
ABCC11	1.57	0.225970732	1.42222255	1.10548343	-0.222093603
MGP	0.87	-0.10821988	0.788826988	1.10552167	-0.222178169
RAB38	0.98	0.064089628	0.888641895	1.10587057	-0.222949718
HIST1H2AJ	0.77	0.028564047	0.693394752	1.10592686	-0.223074209
SIX2	1.59	0.222829276	1.438236358	1.10668709	-0.224756311
GPR37L1	0.74	-0.026662105	0.665422885	1.10769659	-0.226991729
UGT1A9	1.25	0.144198478	1.130521889	1.10774883	-0.227107477
SLC34A2	0.77	-0.168925717	0.691646279	1.10829995	-0.228328768
TRIM71	1.23	0.083252483	1.108696947	1.10975828	-0.231563433
CACNG7	0.86	0.062190465	0.770855676	1.10987278	-0.231817586
PTGER3	1.15	0.096678056	1.030588696	1.11171072	-0.235900732
PGC	1.03	0.122099981	0.925059306	1.11227679	-0.23715966
GSTA3	1.38	0.145571836	1.239156914	1.11250492	-0.237667193
GPR97	0.78	-0.115530008	0.703486419	1.11325357	-0.239333502
HR	1.19	0.012977541	1.069883161	1.11456417	-0.242253298
TYRP1	1.35	0.046282605	1.207114811	1.11485916	-0.242910942

EXTL1	1.02	0.045621169	0.914958792	1.11551666	-0.244377408
MFAP5	0.55	-0.160771937	0.490719884	1.11641858	-0.246390435
SLC4A4	1.3	0.106559959	1.165729337	1.11673898	-0.247105947
CEACAM3	0.86	-0.286061439	0.766984004	1.11674281	-0.247114513
KCNK15	0.87	-0.156209929	0.781297814	1.11781197	-0.249503591
CLDN2	1.16	0.050319373	1.040602866	1.11840701	-0.250834233
NNAT	2.04	0.509719158	1.82617415	1.11913786	-0.252469552
SPINK4	1.16	0.159819902	1.03628533	1.11946195	-0.253195053
IRX5	1.17	0.077033787	1.041303875	1.11964884	-0.25361352
MXRA8	0.77	-0.077410208	0.6884106	1.12063377	-0.255820035
HIST1H1D	1	-0.028346279	0.888370189	1.12159386	-0.257972794
HIST1H2AI	0.96	0.049528064	0.858528177	1.12301171	-0.261155296
CHRNA3	1.4	0.318010167	1.244260202	1.12337773	-0.261977522
KRT16	1.23	0.237277398	1.097164614	1.12456432	-0.264644914
FAM19A3	1.05	-0.016781565	0.938082333	1.12461827	-0.264766258
UPK1B	0.59	-0.034052927	0.524539012	1.12553417	-0.266827175
CILP	0.86	-0.02748715	0.76021693	1.12647711	-0.268950668
SNCA	0.91	0.015452477	0.804731799	1.1277098	-0.271729402
GATA4	1.21	0.178733544	1.074710547	1.12836536	-0.273208392
PEG10	1.03	0.006335976	0.909885824	1.12879063	-0.274168286
NRSN1	0.94	0.058256766	0.833993829	1.12966543	-0.276143984
PDE8B	0.72	-0.189116199	0.634570835	1.13014556	-0.277228991
SALL1	1.49	0.423595941	1.31804477	1.13088438	-0.278899479
HIST1H2AM	1.63	0.189647462	1.439339167	1.13100579	-0.279174102
CCL13	1.5	0.083987342	1.323058879	1.13366152	-0.285188435
PNMAL2	0.76	-0.121325566	0.67374209	1.13432703	-0.28669782
TMPRSS11D	1.36	0.083794605	1.198343138	1.13527304	-0.28884488
SLC17A3	0.69	-0.101518066	0.604112588	1.13836508	-0.295875044
AGXT	0.96	-0.006530929	0.845268209	1.13847959	-0.296135779
CBFA2T3	0.77	-0.281872339	0.675953364	1.14032749	-0.300346782
KRT5	1.17	0.049631474	1.024777672	1.14179197	-0.303688894
C8orf46	1.49	0.220175584	1.304320926	1.14356408	-0.307738812
APOH	1.12	0.11089551	0.979204395	1.14407738	-0.308913051
DOK5	1.27	0.351907179	1.106748013	1.14408995	-0.308941807
SLC22A31	0.67	-0.021745071	0.587478847	1.1455427	-0.312268082
HSD11B2	1.14	0.1145849	0.996630362	1.1467254	-0.314979136
SST	1.06	0.00256701	0.924293457	1.14880197	-0.319745964
TRIB1	1.18	-0.008624502	1.02624952	1.14916213	-0.320573608
GLT1D1	0.73	-0.009415029	0.63095861	1.14935358	-0.32101364
POF1B	0.79	-0.296550099	0.686285345	1.14968176	-0.32176814
GPA33	0.88	-0.129950553	0.763479169	1.14977877	-0.32199122
CLDN16	0.93	-0.038051248	0.807780406	1.15193467	-0.326953486
GATA2	1.12	0.160425801	0.971284004	1.15269244	-0.328699857

NPTX2	1.15	0.025637336	1.000823771	1.15355427	-0.330687449
DMRT2	1.15	0.223165033	0.997157822	1.15470299	-0.333338993
TIMP4	1.64	0.412624081	1.422223727	1.15503419	-0.334103989
LYPD6B	0.93	-0.100938392	0.8064157	1.15531792	-0.334759492
NR5A1	0.74	-0.131068004	0.638066033	1.15562039	-0.335458477
CWH43	1.24	0.161687174	1.072157082	1.15668296	-0.337915465
SPRR3	1.03	-0.031398153	0.89062153	1.15837434	-0.341831121
TRABD2B	1.49	0.34326642	1.286011533	1.15974604	-0.345010884
MGARP	1.31	0.126264548	1.128300061	1.15981154	-0.345162804
NPW	1.02	-0.146798309	0.880255278	1.16020723	-0.346080824
TXNDC5	0.51	-0.215535469	0.441719373	1.1602921	-0.346277753
GAPDHS	0.76	0.112198338	0.657402412	1.16035094	-0.346414304
AKR1C4	1.48	0.195266994	1.274422396	1.16144788	-0.348961178
HRG	1.33	0.341650413	1.146959705	1.16162149	-0.349364495
LPAR3	1.18	0.160229344	1.014692647	1.16199693	-0.350236865
UTF1	0.88	-0.175761642	0.755503169	1.16205724	-0.350377034
NR1H4	0.91	-0.036034728	0.781439682	1.16268549	-0.351837549
SLC6A3	1.43	0.163589781	1.226015183	1.16392721	-0.354726548
FABP7	0.81	-0.023810548	0.692802869	1.16401879	-0.354939734
CEACAM6	0.79	-0.036890161	0.679405666	1.1653451	-0.358029202
HOXA11	1.29	0.059463283	1.107599441	1.16541401	-0.358189815
CD70	1.42	0.115328976	1.216399887	1.16615256	-0.359911798
CRABP1	0.9	0.001618329	0.769063511	1.16769203	-0.363504675
KLK5	0.92	-0.109016396	0.785385303	1.16912045	-0.366842636
CCNA1	1.73	0.482556285	1.47460847	1.17010474	-0.369145103
TRPM1	1.55	0.339930823	1.325181636	1.17017576	-0.369311319
ABCB5	0.86	0.016534651	0.733646649	1.17136539	-0.372096868
DAPL1	1.34	-0.00931706	1.143549582	1.17260592	-0.375004651
TMEM27	0.86	-0.053402472	0.734850432	1.1727811	-0.375415499
PNCK	0.79	-0.096361369	0.671387602	1.17367403	-0.377510738
SCGB3A2	0.93	-0.072747099	0.788597727	1.17373823	-0.377661428
CD1A	0.94	-0.023360154	0.798473679	1.17432089	-0.379029541
HIST1H3C	0.97	0.025726047	0.821290925	1.17558722	-0.382005319
TPO	0.96	0.103120294	0.814374174	1.17672812	-0.384689073
HOXD8	0.88	0.176556562	0.749422531	1.1768688	-0.385020179
CES1	1.18	0.152186656	1.000996863	1.17689045	-0.385071138
GFRA1	0.67	-0.152334549	0.565725557	1.17776949	-0.387140974
HOXB8	0.75	-0.195820439	0.639910264	1.17815339	-0.388045406
PLA2G2A	0.95	0.091599845	0.803424918	1.17817782	-0.388102978
APOD	0.57	-0.109063976	0.486295131	1.17821936	-0.388200856
ITIH3	0.93	-0.038503891	0.788626258	1.1804596	-0.393484855
CCR9	0.86	-0.11937632	0.732035351	1.18047874	-0.393530065
SERPINC1	0.92	-0.167604827	0.782409045	1.18106509	-0.394914752

CLDN8	1.07	0.049142669	0.907279469	1.18113052	-0.395069293
KRT6A	1.04	0.233419569	0.878975823	1.18249876	-0.398303308
PMEL	1.74	0.122117079	1.46860486	1.18341207	-0.400464132
RGS20	1.27	0.092943796	1.071450627	1.18568182	-0.405841369
ARHGAP36	1.29	0.289034672	1.087568399	1.18637247	-0.407479645
TTC9B	1.09	-0.11070858	0.915163459	1.18647577	-0.407724741
ST6GAL2	0.7	-0.066000788	0.587878715	1.18905029	-0.413840585
ASGR2	1.32	0.115196126	1.109440741	1.18980409	-0.415633777
TFPI2	1.25	0.05098218	1.050219698	1.19071455	-0.41780113
KRT6B	1.17	0.12272597	0.9852782	1.19085393	-0.418133087
KLK6	1.25	-0.043131181	1.048641943	1.19153397	-0.419753206
TH	1.21	-0.044379234	1.017719052	1.19246995	-0.421984589
HOXC10	1.03	0.021110366	0.860544232	1.19409945	-0.425873506
SCG2	1.04	0.069153349	0.873373945	1.19420054	-0.42611492
KRT6C	1.41	0.198396743	1.181721984	1.19506826	-0.428188146
NDNF	1.15	0.153842784	0.957661385	1.19584418	-0.430043293
IL36RN	1	-0.057506864	0.839495445	1.19671379	-0.4321239
SLC7A8	1.25	0.395206854	1.044336991	1.19692841	-0.432637616
F2	0.94	0.086142394	0.784980116	1.19708535	-0.433013342
TUBB4A	0.77	0.027697661	0.644106048	1.19962783	-0.439106926
GPRC5D	1.01	0.108372529	0.842424012	1.19972158	-0.439331865
LRRC14B	1.7	0.544087108	1.409463358	1.20316797	-0.447613152
ST6GALNAC	1.1	-0.105378043	0.915091053	1.20327723	-0.447876085
TTR	1.44	0.241600639	1.193855601	1.20370924	-0.448915925
TP63	1.22	0.233838821	1.01164764	1.2037706	-0.449063655
GBP6	1.05	0.088081355	0.870651694	1.20566128	-0.453619115
HIST1H4A	0.58	0.049436377	0.484453767	1.20622489	-0.45497849
CFHR1	1.55	0.165806203	1.285626543	1.20730566	-0.457586961
KCNJ16	1.2	0.045941969	0.989813754	1.20791431	-0.459056975
NFE2	0.7	-0.056057633	0.58286253	1.20816752	-0.459668761
CYSLTR1	0.98	-0.075327431	0.806743448	1.20884237	-0.461299866
PRAM1	1.06	-0.100592047	0.875370009	1.21099069	-0.466498459
ELANE	1.07	0.055757385	0.883753654	1.21230686	-0.46968793
RASGRP3	0.76	-0.202782429	0.622960777	1.21257984	-0.470349876
LGI3	0.63	-0.161113877	0.518266488	1.21267093	-0.470570792
P2RX1	0.43	-0.278468811	0.354533299	1.21487672	-0.475925433
KLK4	0.72	-0.021471023	0.591810971	1.21525535	-0.476845561
GABBR2	0.86	-0.057585755	0.704871736	1.21644964	-0.479749727
SLC24A2	0.7	-0.06806204	0.575494376	1.21773119	-0.482869258
FGF9	1	0.242479986	0.824434574	1.21806438	-0.483680841
CRYAB	0.96	0.156800836	0.789970911	1.21910889	-0.486226481
APLP1	0.81	-0.099510543	0.660057761	1.21981634	-0.487951896
DSC3	1.27	0.395627706	1.035960508	1.22271971	-0.495043499

SLC45A2	1.03	-0.175945216	0.839391537	1.22330762	-0.496481528
HIST2H2AB	1.37	-0.020120091	1.120365527	1.22413113	-0.498497031
C16orf89	0.63	-0.170462109	0.513302823	1.22414442	-0.498529556
DLX3	1.3	0.057515642	1.058046624	1.22625735	-0.503707088
CADM3	0.87	0.004637816	0.705367061	1.22866132	-0.509608637
DACH1	0.79	-0.035607112	0.646173864	1.22876196	-0.509855949
MSLN	0.88	-0.126626933	0.718124421	1.22928785	-0.511148606
KLK7	1.12	-0.008086579	0.910424563	1.22963213	-0.511995185
KCNJ15	0.96	0.358006971	0.780654097	1.23026739	-0.513557856
D4S234E	1.12	0.074818606	0.909238105	1.23448418	-0.523951181
CD1C	0.9	0.046271829	0.731204586	1.23514705	-0.52558824
MT3	0.83	-0.042745395	0.668589894	1.23667262	-0.529359174
CDH15	1.74	0.428558881	1.405535436	1.23725076	-0.530789451
BAALC	1.52	0.311917392	1.229539348	1.23732541	-0.530974175
WASF3	1.49	0.177094453	1.203324243	1.23740042	-0.531159787
HOGA1	0.89	0.164366562	0.720051252	1.23973853	-0.53695163
S100A9	1.02	-0.227325698	0.82270755	1.24001443	-0.537635789
BCHE	1.38	0.235504866	1.110022311	1.24285329	-0.544684288
HOXA9	0.84	-0.105840295	0.676883171	1.24419035	-0.548009634
SFTPC	0.77	-0.061777447	0.61802963	1.2446491	-0.549151382
CUBN	0.61	-0.322606731	0.489226283	1.24503435	-0.550110538
BAAT	1.02	-0.087484062	0.818426563	1.24522249	-0.550579057
NANOGP8	0.82	-0.266103323	0.658714446	1.24624815	-0.553134461
LYG1	1.04	-0.250703789	0.832744879	1.24683442	-0.554596061
SLC17A1	0.66	-0.219939672	0.530496192	1.24693738	-0.55485283
HSPB2	1.31	0.244339498	1.052432474	1.24808625	-0.55771928
SCTR	1.15	0.015694953	0.917999934	1.24878581	-0.559465999
WNT10A	1.05	-0.174799426	0.842200192	1.24890661	-0.559767728
FGFBP1	0.8	0.040365328	0.641788674	1.25232041	-0.568306419
EGFL6	0.96	-0.06198195	0.76887674	1.25340928	-0.571034831
DNER	0.48	-0.151289073	0.386414988	1.25463718	-0.574114451
ANXA8	1.11	-0.098454087	0.878796862	1.25783241	-0.582142369
SPRR1B	0.8	-0.045004221	0.633631178	1.25858488	-0.584035898
PNMT	1.19	0.143737605	0.943477772	1.25869039	-0.584301498
LBP	0.71	-0.080033753	0.566263052	1.25881587	-0.584617384
FGB	1.03	0.000505264	0.820971598	1.25888846	-0.584800165
NPY	0.75	0.037995241	0.592711941	1.25974999	-0.586970037
HIST1H3I	1.11	0.112446683	0.880340453	1.2613358	-0.590967993
SLC26A3	0.87	-0.060607832	0.690990873	1.26397543	-0.59763389
TRIML2	0.87	0.042540003	0.685250823	1.26487954	-0.599920241
PRSS3	1.41	0.078776231	1.114582611	1.26525565	-0.600871847
ADRA2C	0.79	0.077908845	0.623794463	1.26528296	-0.600940976
FAM163B	0.39	-0.216635207	0.30543791	1.26561486	-0.601780971

INHA	0.62	-0.07720674	0.490833959	1.26607284	-0.602940444
WFDC2	0.74	-0.17004659	0.585999331	1.26623477	-0.603350495
LAMP5	0.62	-0.12136226	0.48796225	1.26626935	-0.603438059
HEPHL1	0.95	-0.148696586	0.7478513	1.26753936	-0.606656037
MLANA	0.69	-0.012475885	0.543835728	1.2684409	-0.608942304
TCF21	1.11	0.050275973	0.877578824	1.26925996	-0.611020856
RHCG	1.09	0.024803293	0.858443311	1.26938448	-0.611336953
TFF3	0.87	-0.066858464	0.68109074	1.27152795	-0.616783335
SERPINE2	1.1	-0.001690021	0.866919992	1.27198135	-0.617936557
C10orf99	1.42	0.143241835	1.115972585	1.27415485	-0.623470587
IGJ	0.6	-0.301981787	0.467501576	1.27618079	-0.628637396
TMEM238	0.79	-0.299503063	0.62072958	1.27620296	-0.628694005
CDKN2A	0.82	-0.126266135	0.644422544	1.27774952	-0.632643844
DSG3	1.41	0.269973195	1.10315307	1.27804091	-0.633388557
LRRN4CL	1.01	0.236462129	0.791347291	1.27971508	-0.637670694
GPX2	1.03	0.051142986	0.806934373	1.2803541	-0.639306621
SIX1	1.17	0.084048382	0.916337442	1.28118608	-0.641437764
FOLH1	1.08	-0.013236013	0.839864003	1.28222484	-0.644100533
ZBED2	1.31	0.074662008	1.018570981	1.28347621	-0.647311182
SPDEF	0.74	-0.232448948	0.576618232	1.28371593	-0.647926589
RXRG	1.04	0.00927579	0.806467257	1.28698196	-0.656322563
MIXL1	0.88	-0.373810355	0.681376826	1.288213	-0.65949272
TMEM252	0.79	-0.18893631	0.613372721	1.29181517	-0.668786436
RNASE2	0.65	-0.240254492	0.499361712	1.29312056	-0.672160793
HOXA5	0.97	0.098642625	0.749969326	1.29440419	-0.675482199
BHMT	1.21	-0.034449021	0.932588325	1.29562945	-0.678655659
DTX1	0.82	-0.307632987	0.627822091	1.29837845	-0.685786602
DNTT	0.72	-0.182127202	0.552110106	1.2985202	-0.686154705
MEOX1	0.8	-0.070048906	0.612524839	1.29900107	-0.687403767
C14orf105	0.8	-0.078060921	0.611465591	1.3001755	-0.690456341
MUC15	1.15	-0.09194301	0.881434388	1.30146142	-0.69380182
CPA4	0.98	-0.042106041	0.752858314	1.30291951	-0.69759925
BTK	0.96	-0.216643791	0.733577268	1.30705053	-0.708381091
HIST1H2BE	0.94	-0.093197225	0.715104679	1.30760764	-0.709837735
PAX3	1.05	0.082251133	0.80453019	1.30903323	-0.713567995
CALML3	0.92	-0.079201289	0.701698873	1.30924999	-0.714135536
GDNF	0.99	-0.110958419	0.752754683	1.31139373	-0.71975352
HPX	1.18	-0.154131761	0.895253499	1.31361616	-0.725587411
BEX1	0.8	0.077886404	0.60361801	1.31822135	-0.737707514
MLPH	0.69	-0.180132745	0.520350609	1.31826392	-0.73781975
MIOX	0.78	-0.104148278	0.593373593	1.32022317	-0.742989208
SPRR1A	0.9	-0.036724009	0.68345875	1.32044808	-0.743583129
LIM2	0.58	-0.074381031	0.439098009	1.32068776	-0.744216146

SPI1	0.99	-0.18128238	0.751173339	1.32068852	-0.744218154
S100A7	0.86	-0.19348584	0.652397346	1.3210257	-0.7451089
CUX2	1.12	0.019701572	0.844794297	1.32274135	-0.749644687
CLIC6	0.87	-0.125183726	0.659065037	1.32297195	-0.750254767
VENTX	1.04	0.038444066	0.7821819	1.32327133	-0.751047015
INPP5J	0.98	-0.166290679	0.737446315	1.3240893	-0.753212469
NAPSA	0.87	-0.035806213	0.656699994	1.32467795	-0.754771674
AZU1	0.82	-0.123382209	0.617539851	1.32475774	-0.754983059
CDC42EP5	0.93	-0.351386782	0.701081698	1.32832118	-0.764437163
SCGB3A1	0.68	-0.109975395	0.5092852	1.33026547	-0.769606231
SLC30A2	1.07	0.240976297	0.802799177	1.33495617	-0.782107962
HOXD11	0.93	-0.014211646	0.694416491	1.33621727	-0.78547659
S100A8	0.72	-0.238032456	0.540662185	1.3369494	-0.787433706
P2RX3	1.1	-0.012520781	0.822221554	1.33866993	-0.792037187
ACMSD	1.22	-0.104821773	0.913916034	1.33937105	-0.793914815
FUT3	0.58	-0.289642024	0.430923267	1.33982496	-0.795130913
CYP2E1	1.1	-0.039375351	0.822812729	1.34224295	-0.801616137
KREMEN2	0.8	-0.11946482	0.595059494	1.34231657	-0.801813761
IVL	0.95	-0.094957964	0.699713123	1.35276983	-0.829986218
SOX1	0.81	-0.039554827	0.596810317	1.35554794	-0.837510226
SPX	0.88	0.10858783	0.651058591	1.35784457	-0.843741871
BRINP1	1.42	0.285542739	1.048121749	1.35790478	-0.843905381
P2RX5	0.94	-0.222683101	0.692002053	1.35864879	-0.845926543
GUCY2C	0.95	0.049775043	0.700109784	1.35993505	-0.849423343
COL26A1	0.83	-0.153662562	0.608078561	1.36007832	-0.849813034
AIM2	0.84	-0.323717788	0.618618298	1.36219774	-0.855582672
MARCO	1.42	-0.064455942	1.04130633	1.36252177	-0.856465576
COL17A1	1.06	-0.093537036	0.779949105	1.36438862	-0.861556309
PRAME	0.95	-0.064224596	0.699258355	1.36458167	-0.862083142
TGM1	1.19	0.123088068	0.870731648	1.36489816	-0.86294699
DDC	1.01	-0.008737611	0.739114898	1.3691312	-0.874520237
KLHDC8A	0.51	-0.076995702	0.369907077	1.38138999	-0.908238293
TFF1	0.72	-0.249919989	0.524230636	1.38258241	-0.911534123
CA12	0.99	0.239467788	0.711718601	1.38763163	-0.925521549
RTN1	0.99	-0.038303097	0.715921409	1.38800866	-0.92656804
KLK1	1.03	-0.034506716	0.740693394	1.38945523	-0.930585847
CDX2	1	-0.040626931	0.714634173	1.39248066	-0.939002391
TAGLN3	0.58	-0.119763738	0.414269528	1.39479817	-0.945461943
TRABD2A	0.77	-0.061498747	0.550293943	1.39569833	-0.947973823
SPRR2A	0.95	-0.149359973	0.683173633	1.39581947	-0.948311984
MMP17	0.84	-0.179963901	0.601477813	1.39610149	-0.949099373
PGLYRP2	1.09	-0.113875584	0.782203614	1.39804595	-0.954532467
C2orf88	0.69	-0.218033756	0.493740397	1.40161145	-0.964514643

IYD	0.89	-0.174614833	0.636549926	1.40515312	-0.974455291
L1TD1	0.48	-0.069207009	0.340873264	1.40557246	-0.975633943
CD1E	0.92	-0.053072064	0.654036098	1.41245798	-0.995037557
BLK	0.84	-0.115774576	0.594422277	1.41258202	-0.995387958
HIST1H4F	1.14	0.050452889	0.809137867	1.41375803	-0.998711762
MEF2B	0.74	-0.460988796	0.522378136	1.41640732	-1.006209707
GDAP1L1	0.73	0.005363667	0.511804674	1.42042596	-1.017609896
FOXN1	1.04	-0.109063083	0.729573254	1.42146645	-1.020566871
MMP3	0.93	0.015061132	0.657622349	1.42161806	-1.020997903
CALML5	0.94	-0.101006621	0.661280531	1.42346144	-1.026242471
SFTPA1	0.74	-0.097406403	0.514800617	1.43105344	-1.04791396
NAT8	0.85	-0.252149564	0.594920581	1.43150924	-1.049218716
SEMA5B	0.77	-0.12706395	0.533807198	1.43337898	-1.054575297
SLC4A1	0.66	0.005308196	0.460118511	1.43676331	-1.064288809
CCL18	1.4	-0.038594637	0.974424841	1.43768516	-1.066938605
SLC44A4	0.7	-0.198218556	0.484000809	1.44100932	-1.076507869
GNG3	1.12	-0.009382065	0.776459181	1.44169905	-1.078496151
HNF4A	1.19	0.009066633	0.82792736	1.44188137	-1.079021894
HAS1	0.51	-0.106631832	0.354832123	1.44339024	-1.083375388
ITGA10	1.1	0.091139275	0.762236695	1.44658086	-1.092596187
C1orf186	0.81	-0.232783433	0.556956971	1.44806036	-1.096878798
SLC6A17	0.83	-0.072504836	0.570436842	1.45030451	-1.103383183
FOXE1	0.94	-0.186437722	0.65025748	1.45124998	-1.106126504
REEP6	0.85	-0.107410676	0.585030282	1.45392732	-1.113904637
SCGB1A1	0.65	-0.102234419	0.443839927	1.45469964	-1.116151031
C2orf40	0.52	-0.058807677	0.360540612	1.45592128	-1.119706759
HAND2	0.85	-0.04101636	0.58543822	1.45743099	-1.124105094
TMEM52B	0.52	-0.03338748	0.357118512	1.46070323	-1.133653935
PENK	0.75	0.009513552	0.512642137	1.46262582	-1.139274301
IBSP	1.03	-0.118765597	0.700391914	1.4671386	-1.152495666
SPRR2E	0.93	-0.196303068	0.631940043	1.47027362	-1.161704506
TUBB2B	0.87	-0.099148656	0.587766815	1.47245211	-1.168115216
COL11A1	1	-0.039696261	0.681093189	1.47484276	-1.175161164
BSND	0.89	-0.122590288	0.600163758	1.47789433	-1.18417166
SLC26A4	0.56	-0.181445822	0.379369791	1.47801408	-1.184525615
RAG1	0.53	-0.216336183	0.357271642	1.48159309	-1.195118078
PTHLH	0.91	0.070906339	0.611563009	1.48162312	-1.195207061
ACSM1	0.67	-0.270470196	0.450694094	1.48254164	-1.19792972
CHRNA2	0.93	-0.187813917	0.623120524	1.48709944	-1.21146475
TSPAN8	0.76	-0.169766987	0.513915323	1.48836936	-1.21524334
KIAA0226L	0.95	-0.209345228	0.634459642	1.49151008	-1.22460231
CEACAM7	0.7	-0.076054439	0.466100208	1.491792	-1.225443374
CXCL5	0.63	-0.064278349	0.419562194	1.49293414	-1.228852343

SCARF2	0.83	-0.027320774	0.554349021	1.49434426	-1.23306477
TSPAN32	1.19	-0.18538935	0.792715951	1.49569573	-1.237105708
EPHX3	1.02	-0.226390648	0.678658604	1.50146379	-1.254393513
SFTPA2	0.68	-0.099222296	0.449712329	1.50178417	-1.255355696
SLC7A3	1.25	-0.13036366	0.831973007	1.50436829	-1.263123964
SPRR2D	0.91	-0.236592032	0.603403438	1.50604159	-1.268161259
CCR2	0.56	-0.259216766	0.369399625	1.50975855	-1.279370885
MAT1A	0.47	-0.194842724	0.308174997	1.51695804	-1.301161689
FOSB	0.65	-0.202070882	0.428756448	1.52185606	-1.316045864
C1orf228	0.8	-0.23914373	0.522060205	1.52701687	-1.331780533
SLC45A3	0.74	-0.053534526	0.48719984	1.52741861	-1.333007604
RPRM	0.7	-0.246041233	0.454810739	1.53298052	-1.350029287
DEFB1	0.92	-0.12928616	0.600693059	1.53691159	-1.362097239
CTSV	0.56	-0.058699559	0.360826624	1.53975171	-1.370835332
MS4A3	0.92	-0.006705901	0.596599254	1.54626961	-1.390949704
IL36G	0.75	-0.314118853	0.483671567	1.55014073	-1.402936289
LYPD1	0.9	-0.243220634	0.579955694	1.55519004	-1.418616061
REG4	0.67	-0.058923238	0.429638994	1.55802568	-1.427444023
GCG	0.79	-0.144192996	0.508519488	1.55975068	-1.432822174
ADRB1	0.66	-0.202959439	0.42080038	1.56108976	-1.437001236
ADH1A	0.83	-0.323035595	0.530253875	1.56183666	-1.439333743
BHLHA15	0.48	-0.371191182	0.308717214	1.56563796	-1.451222222
PTH1R	0.85	0.008943574	0.54042887	1.56577227	-1.451642808
NEFH	0.74	-0.15839088	0.47209489	1.56812782	-1.45902486
RNF43	0.83	-0.261810211	0.531659122	1.5696268	-1.463728301
PTCRA	0.82	-0.135396927	0.519510413	1.57080164	-1.46741778
RHBG	0.91	-0.166836888	0.576279322	1.57308153	-1.474585491
IGSF1	1.02	-0.22321779	0.647649225	1.57749657	-1.488495432
SCGB2A2	0.79	-0.198223381	0.498321875	1.58067088	-1.498520415
VTCN1	0.4	-0.154498277	0.252581012	1.58212439	-1.503117576
SDR16C5	1.21	-0.273223425	0.763682431	1.59036384	-1.52925714
PANX3	1.04	0.004338531	0.649525523	1.59565892	-1.546127376
CP	1.02	-0.117414518	0.637253387	1.59613206	-1.547637543
PDZK1	0.88	-0.069994334	0.549350183	1.60248888	-1.567970598
PRSS16	1.04	-0.0391903	0.646071767	1.60652726	-1.580929821
SYT4	0.69	-0.020389731	0.426650272	1.61085881	-1.594866109
FOLR1	0.45	-0.126202936	0.278362259	1.61231684	-1.599565602
CST1	0.65	-0.121501565	0.401276647	1.61726163	-1.61553517
FOXD1	1.24	-0.095333521	0.763113458	1.62253778	-1.632628835
CYP17A1	0.38	-0.107526694	0.231714139	1.62361599	-1.636128876
TWIST1	1.11	-0.170267765	0.679758795	1.63118291	-1.660757686
CCL20	0.88	-0.252021841	0.539555934	1.63462968	-1.672014191
IGF2	0.69	-0.16060489	0.419138127	1.63850199	-1.684688781

KIAA1324	0.99	-0.171736626	0.60269659	1.63951981	-1.688025204
SCG3	0.69	-0.011970085	0.422437564	1.63999486	-1.689583147
CORO2B	0.47	-0.173259489	0.284084225	1.6420775	-1.6964185
PRLR	0.77	-0.071464639	0.469126648	1.64500022	-1.706025724
ASCL2	0.71	-0.27070457	0.433562354	1.64765215	-1.714757591
CXCL17	0.75	-0.222933983	0.453330642	1.65057577	-1.724400369
PRSS35	0.89	0.043835961	0.536263509	1.65197462	-1.729020139
RAB3C	0.65	-0.055395492	0.392159723	1.65245401	-1.730604258
HDGFL1	0.84	-0.114759517	0.509094432	1.65680433	-1.745000601
GATA3	0.9	-0.134636317	0.542338948	1.65814482	-1.749444234
VSIG2	0.59	-0.153406587	0.355842248	1.66125938	-1.759782721
PAX2	0.82	-0.257759439	0.489617659	1.66627429	-1.776470016
TFR2	1.02	-0.12998453	0.609325082	1.67072909	-1.791335679
ASRGL1	0.77	-0.211432744	0.459294919	1.67180634	-1.794936432
CD8B	0.58	-0.357977487	0.343578298	1.67955947	-1.82092002
CDO1	0.63	-0.096639353	0.37233249	1.68888362	-1.852327879
SYT1	1.05	-0.28653353	0.622127136	1.68971268	-1.855128948
GIP	0.66	-0.069618128	0.389674609	1.70059091	-1.892009447
FLT3	0.66	-0.228198999	0.390072095	1.70369573	-1.902579154
SAA1	0.91	-0.152322004	0.531822941	1.70397348	-1.903525621
MEP1A	0.72	-0.198020147	0.422525789	1.70784039	-1.916718811
SLC18A1	0.85	-0.365748862	0.49551682	1.71096133	-1.927388673
CH507-42P1	0.97	-0.218698097	0.565742074	1.71118132	-1.928141496
SNX22	0.81	-0.288080928	0.474352961	1.71649101	-1.946341381
GALNT9	0.89	-0.277576483	0.518963249	1.72275455	-1.967883233
PAX9	0.8	-0.245794344	0.464891146	1.72556613	-1.977578455
MGAM	0.46	-0.115100123	0.264427394	1.73335926	-2.004534338
BMPER	1.06	-0.035465543	0.608870026	1.73423508	-2.007571316
PNOC	0.62	-0.394684162	0.355044637	1.73750929	-2.018938533
ICAM3	0.53	-0.37127445	0.305629743	1.74372425	-2.04057426
SLC22A11	0.47	-0.148865527	0.270498519	1.74694159	-2.051804905
ZG16B	0.68	-0.213785386	0.388253036	1.75715694	-2.087600519
SHISA2	0.58	-0.076859101	0.332055404	1.76099387	-2.101099424
SPINK2	0.79	-0.126769057	0.444341007	1.76938943	-2.130738948
LEFTY1	0.73	-0.194839909	0.407773149	1.77907073	-2.165092648
FOXA3	0.6	-0.125001155	0.33400167	1.78626679	-2.190749052
SFTA3	0.33	-0.095964384	0.18546286	1.79576052	-2.224755834
ENPP3	0.54	-0.241639945	0.301065634	1.79590079	-2.225259651
RBP4	1.43	0.037557999	0.79627831	1.79808581	-2.233112591
GAPT	0.65	-0.24238012	0.359536557	1.79816969	-2.233414238
PHGR1	0.87	-0.235667528	0.482653971	1.81237124	-2.284689493
SLC16A12	0.62	-0.154773686	0.340235929	1.82088902	-2.315636834
CEACAM5	0.58	-0.141514382	0.320796324	1.82138649	-2.317448728

IGFBP1	0.75	-0.119325259	0.409547063	1.82145024	-2.31768097
MAG	0.61	-0.054974148	0.335248909	1.82245725	-2.321350424
ZCCHC12	0.71	-0.174280696	0.390558616	1.82559798	-2.332807977
COL11A2	1.05	-0.148570454	0.57234905	1.82730114	-2.339029467
SERPINA1	0.28	-0.149586894	0.150392004	1.833333979	-2.361134793
FGF21	0.69	-0.146614615	0.375042197	1.84240126	-2.394442384
DPYS	1.1	-0.133143644	0.596356057	1.84634266	-2.408981214
SLC22A2	0.95	-0.117866523	0.514726964	1.84940744	-2.420307861
CA14	0.86	-0.285303978	0.46440459	1.86026129	-2.460572078
ZFP42	0.82	-0.091489341	0.440766909	1.86046509	-2.461330359
MMP1	0.87	-0.139143815	0.465037083	1.86592603	-2.481679953
SOX18	0.96	-0.323791468	0.516971353	1.86645836	-2.483666802
HLA-DOB	0.72	-0.490038798	0.38753304	1.86778008	-2.48860242
ATP6V1B1	0.95	-0.190866158	0.509433851	1.87289655	-2.507741472
SLC27A6	0.76	-0.105803952	0.406107402	1.87456202	-2.513982763
TBATA	0.89	-0.227296582	0.47034756	1.88567417	-2.555767068
FAM19A4	0.57	-0.057706188	0.302583229	1.8884322	-2.566176185
TNF	0.75	-0.214056818	0.397170952	1.89095192	-2.575699149
UPK3A	0.58	-0.270145055	0.303049889	1.90296364	-2.6212706
HP	0.82	-0.177318483	0.431528453	1.90567687	-2.631604348
VSTM1	0.55	-0.114282098	0.288232899	1.90864963	-2.642943406
LRRN1	0.66	-0.130441567	0.345633546	1.91321066	-2.66037501
HIST2H2AC	0.95	-0.150986075	0.494637969	1.91386409	-2.662875736
HBD	0.58	-0.479775891	0.297763289	1.93431601	-2.741578442
PAX5	0.78	-0.197264132	0.402744299	1.93752241	-2.753993078
SCNN1B	0.86	-0.273378659	0.441720271	1.94495211	-2.78283871
LMX1B	0.85	-0.086290302	0.43271824	1.95337002	-2.815654435
NLRP7	0.64	-0.177377201	0.325255039	1.95976779	-2.840689771
TRPM8	0.77	-0.097382612	0.394707167	1.96109195	-2.845881629
MMP12	0.9	-0.14475122	0.4533946	1.97870629	-2.915278598
SCUBE2	0.59	-0.220575276	0.298477516	1.99124806	-2.965068852
PRSS57	0.64	-0.077280651	0.320004132	2.00585524	-3.023455236
DLX5	0.8	-0.043904361	0.396556053	2.00644657	-3.025827854
KIT	0.55	-0.158235693	0.27274532	2.01137717	-3.04563812
AHSP	0.75	-0.230042552	0.372260058	2.0141733	-3.056894062
TCEAL7	0.71	-0.054638494	0.352205384	2.01489605	-3.059806084
RUNDC3A	0.78	-0.111089986	0.384991229	2.02472867	-3.099526199
CPNE5	0.56	-0.471541043	0.276622046	2.02593908	-3.104429136
FOXJ1	0.67	-0.29319561	0.331937522	2.02677251	-3.107806819
BRINP2	0.78	-0.026277345	0.380272085	2.04026244	-3.162670828
HOXB6	0.96	-0.132135654	0.469634224	2.04964566	-3.201047348
CYP4B1	0.66	-0.170694992	0.321105819	2.05342894	-3.21657042
HAS2	0.88	-0.124244253	0.427726381	2.06632609	-3.269703527

ZBP1	0.76	-0.526619809	0.366146923	2.07248754	-3.295204599
LGALS4	0.6	-0.098859297	0.284891583	2.10479491	-3.43016163
CLEC17A	0.71	-0.15479284	0.336012151	2.10632619	-3.436610019
RGL4	0.81	-0.399641907	0.384814461	2.10757619	-3.441877376
MYRF	0.69	-0.178998513	0.325623483	2.12279921	-3.506276477
AGR3	0.62	-0.157855465	0.286913906	2.15146331	-3.628794391
C11orf21	1.02	-0.317902187	0.472309897	2.1535239	-3.637665192
HOXB5	1.03	-0.220397479	0.47792472	2.15476069	-3.642993631
PVALB	1.09	-0.002415211	0.50219199	2.16062216	-3.668288101
CD3D	0.78	-0.413679075	0.361026154	2.17000748	-3.708932463
CRTAC1	0.87	-0.059054005	0.399959587	2.17604145	-3.735156392
MUC3A	0.71	-0.305113662	0.326660441	2.18868197	-3.790328783
SCGB1D2	0.69	-0.21562267	0.311493329	2.227005	-3.959551274
PRPH	0.57	-0.027235256	0.251257484	2.24970277	-4.061162558
TRIM50	0.74	-0.082315241	0.329567581	2.24993393	-4.062202694
GNG7	0.65	-0.295079346	0.288637634	2.25655861	-4.092056778
CCL25	0.67	-0.278756772	0.297097624	2.25784058	-4.097844103
UGT2B7	0.59	-0.092746603	0.261055121	2.26840665	-4.145668721
PRAC2	0.64	-0.160534714	0.279594515	2.3027186	-4.302512965
CAPS	0.55	-0.220421868	0.240117175	2.3043059	-4.309825676
STMN2	0.88	-0.045418771	0.378867671	2.31220844	-4.346307879
PRG4	0.49	-0.145389984	0.210201724	2.32761034	-4.417769876
GZMK	0.59	-0.389225158	0.253225956	2.33724282	-4.462703976
HOXB9	0.68	-0.246412057	0.290082542	2.35319863	-4.537543811
FAM166B	0.63	-0.063613987	0.268229839	2.35849093	-4.562479457
SH2D1A	0.58	-0.338689494	0.246767919	2.36172465	-4.577743327
INS	0.78	-0.159270641	0.326187895	2.37695737	-4.649926358
INSC	0.44	-0.141967872	0.183789125	2.40216628	-4.770402832
NTS	0.72	-0.132418446	0.29940521	2.40471974	-4.782677023
SHISA3	0.81	-0.19592553	0.336124969	2.41079179	-4.811917074
AICDA	0.66	-0.167395392	0.27233082	2.43060822	-4.907856329
FOXC2	0.86	-0.20154353	0.353305683	2.43414571	-4.925065338
FAM129C	0.61	-0.192066807	0.243952861	2.48930852	-5.196656898
CLECL1	0.76	-0.338075056	0.306030995	2.49376256	-5.218851696
DCDC2	0.71	-0.289651693	0.28226642	2.51175944	-5.308935474
MECOM	0.92	-0.221646485	0.363764976	2.52390755	-5.370109321
KLHL14	0.53	-0.325455137	0.208895485	2.52953616	-5.398553165
IL18RAP	1.06	-0.359418754	0.416693159	2.53873213	-5.445160828
TRPV6	0.69	-0.327544072	0.270084099	2.54440033	-5.473973055
SP7	0.53	-0.113436264	0.208658138	2.55233761	-5.51442725
EFHD1	0.53	-0.160060297	0.207290218	2.55648722	-5.535626911
MMP10	0.6	-0.202380062	0.235272509	2.56034069	-5.555344434
SFTPB	0.61	-0.126899411	0.237083501	2.56459608	-5.577153054

CD1B	1.2	-0.067081233	0.464456758	2.5847136	-5.680744379
SCGB2A1	0.64	-0.184827688	0.247811129	2.58585643	-5.686653487
SLC35D3	0.71	-0.241906474	0.269338638	2.62472746	-5.889194224
MUC6	0.82	-0.151899173	0.311535102	2.62494178	-5.890319348
ATP1A3	0.6	-0.111136323	0.230046976	2.62906513	-5.911983463
IRF4	0.66	-0.385343948	0.249921047	2.6325936	-5.930549073
MPO	0.85	-0.058792172	0.320947272	2.64782769	-6.010991465
S100A12	0.52	-0.304276292	0.193854548	2.67460667	-6.153520839
HMX1	0.67	-0.163488091	0.251240514	2.67663777	-6.164389757
TMEM200C	0.59	-0.253889193	0.22027407	2.68686932	-6.219266748
IFITM5	0.61	-0.151349767	0.224097097	2.73227281	-6.465314719
REG1A	0.77	-0.134891733	0.281490427	2.73393211	-6.474384793
RAB37	0.6	-0.351311985	0.215960515	2.76472923	-6.643727737
CDX1	0.93	-0.256220034	0.334624238	2.78232922	-6.741355905
ORM1	0.69	-0.113350863	0.244060104	2.84576497	-7.098378236
STAP1	0.8	-0.286318929	0.278729812	2.86126142	-7.186816936
ARG1	0.55	-0.108069181	0.190423592	2.86488635	-7.207573821
PRTN3	0.72	-0.075279819	0.250701689	2.87031521	-7.238709399
SLAMF7	0.78	-0.389301052	0.270798644	2.88355302	-7.314878008
IL21R	0.83	-0.352616239	0.28655348	2.90516297	-7.439971871
LTB	0.78	-0.310476352	0.268832035	2.90953709	-7.465406061
PTGDS	0.76	-0.241683102	0.259418039	2.91757459	-7.512241459
CYP21A2	0.96	-0.455215507	0.330210945	2.92059127	-7.529853361
SYP	0.63	-0.092420141	0.216025508	2.92872206	-7.577412905
TMEM151A	0.66	-0.1086962	0.223478624	2.94042529	-7.646100886
DERL3	0.69	-0.523476975	0.232756992	2.94511062	-7.673676588
POU2F2	0.73	-0.362691473	0.24784352	2.95446936	-7.728889211
SHISA8	0.75	-0.283698683	0.250906815	2.9764243	-7.859101631
ANXA10	1.2	-0.033750138	0.402092506	2.98607067	-7.916618022
ORM2	0.72	-0.235973344	0.240155819	2.99477704	-7.968689531
RBP5	0.69	-0.235965515	0.23000926	3.01563035	-8.094026378
S100P	0.76	-0.310622393	0.253390632	3.01617321	-8.097300809
SLC6A13	0.44	-0.087481371	0.144905733	3.01661152	-8.099945032
CNTFR	1.07	-0.100570103	0.351377361	3.03153978	-8.190233462
DBH	0.7	-0.305617204	0.230366491	3.03697413	-8.223211842
MTRNR2L12	0.37	-0.092786017	0.123410964	3.03856589	-8.232882662
OCA2	0.72	-0.306051707	0.235139058	3.062459	-8.378655108
FCRL5	0.59	-0.455409111	0.193753504	3.06662111	-8.404165057
PLAC8	0.74	-0.278490611	0.240640461	3.0893606	-8.544148911
KCNK3	0.67	-0.049264326	0.215375954	3.09222991	-8.561885804
FCRL3	0.69	-0.307567814	0.221908655	3.09477157	-8.57761107
DPEP1	0.58	-0.384775898	0.186371281	3.10366676	-8.632747357
FAIM3	0.7	-0.264234226	0.223620462	3.11803131	-8.722119263

CLDN6	0.49	-0.138008386	0.156843678	3.14206715	-8.872585956
TNFRSF17	0.61	-0.468437056	0.192073013	3.19901409	-9.233691167
CCL19	0.69	-0.237752921	0.214873498	3.21085278	-9.309575601
BEND5	0.82	-0.312003005	0.253752383	3.2138325	-9.328719364
MIA	0.45	-0.138691475	0.138841286	3.22654511	-9.410593347
TCERG1L	0.75	-0.191042839	0.231549154	3.25016947	-9.563601603
MUC13	0.45	-0.183990916	0.137647767	3.30527571	-9.924847539
NEFM	1.06	-0.204141312	0.320919227	3.31035602	-9.958456992
CD177	0.62	-0.266578385	0.183182159	3.38687384	-10.47091441
GCGR	0.72	-0.141529322	0.211963583	3.39542071	-10.52888179
KRT15	0.8	-0.317737371	0.235086264	3.41218201	-10.64298609
MYCN	0.68	-0.272355866	0.197017301	3.42977936	-10.76338649
TNFRSF13C	0.82	-0.338050343	0.237638823	3.45517113	-10.93820756
FOXA1	0.8	-0.36611243	0.232050787	3.45698198	-10.9507244
GSTA1	0.49	-0.1577591	0.140600043	3.4858356	-11.15104984
OR51E2	0.62	-0.256706053	0.159924308	3.86167119	-13.91250434
OLFM4	0.6	-0.135502272	0.154135962	3.886514	-14.1049911
MZB1	0.61	-0.485747939	0.152692676	3.9654156	-14.72452085
RGS13	0.77	-0.200325526	0.191507983	3.99908375	-14.99267082
CLC	0.74	-0.124123562	0.183922143	4.00293534	-15.02349135
ISL1	0.68	-0.275511262	0.166535845	4.07743509	-15.62547694
UPK1A	0.62	-0.102132945	0.149989733	4.13086644	-16.06405753
LMO3	0.54	-0.110288759	0.130737636	4.16107919	-16.31458005
ALPPL2	0.65	-0.15263629	0.15623024	4.17946587	-16.46793493
ALX1	1.02	-0.336100589	0.243273913	4.18523418	-16.51618511
SFTPD	1.16	-0.107652993	0.274116541	4.240597	-16.98266292
FCRL2	0.65	-0.366408299	0.150089723	4.30240783	-17.51071311
PCSK2	0.57	-0.097881088	0.12998698	4.36800372	-18.07945647
PLA2G2D	0.6	-0.233232849	0.135645446	4.38689811	-18.24487502
SLC17A7	0.71	-0.208229002	0.157116804	4.49096612	-19.16877666
LGR5	0.72	-0.125469821	0.161087729	4.4978296	-19.23047108
HOXB13	0.69	-0.240747818	0.15231084	4.52085532	-19.43813279
CLCNKB	0.52	-0.165925237	0.113420786	4.56326969	-19.82343024
TRIM15	0.84	-0.250370174	0.181231999	4.61813876	-20.32720556
GFRA3	0.73	-0.22483334	0.155663279	4.6646192	-20.7586723
ACTG2	0.42	-0.100784961	0.090145238	4.66991323	-20.8080896
C8G	0.65	-0.194883422	0.1392457	4.69077356	-21.00335654
PRAC1	0.51	-0.137727434	0.109461089	4.70393703	-21.12702354
CPNE4	0.69	-0.109118126	0.144703243	4.75428907	-21.60326455
DRD2	0.69	-0.093892296	0.138521959	4.95469659	-23.54901833
POU2AF1	0.66	-0.307590032	0.131298492	5.04098995	-24.41157965
CDK5R2	0.66	-0.081414807	0.129892445	5.05292733	-24.53207464
TMEM213	0.63	-0.25198732	0.121976221	5.13811299	-25.40020512

SERPINB10	0.92	-0.106232161	0.176300471	5.19720266	-26.01091547
HAND1	0.61	-0.186739693	0.116690558	5.21618578	-26.20859412
LRP2	0.48	-0.134405012	0.091790677	5.22689996	-26.32048318
PRSS1	0.57	-0.141434555	0.107189821	5.33786826	-27.49283752
MUC5AC	0.52	-0.12532837	0.096980509	5.38994328	-28.05148855
TCL1A	0.74	-0.268589444	0.130974085	5.61353435	-30.51176788
SFRP5	0.7	-0.148539789	0.123284178	5.71347939	-31.64384679
TFF2	0.74	-0.127836125	0.125453609	5.86828518	-33.43677094
BIRC7	0.85	-0.20175597	0.143899629	5.93825919	-34.26292222
AR	0.62	-0.184674149	0.104151138	5.96238795	-34.55007004
ACTL6B	0.64	-0.069271515	0.10646293	5.98091423	-34.77133499
TG	0.61	-0.17352034	0.099436159	6.13705074	-36.66339176
C1QTNF4	0.35	-0.227434566	0.056729907	6.24042566	-37.94291243
TNFRSF13B	0.7	-0.323949678	0.112575589	6.24342475	-37.98035256
PTPRN	0.63	-0.112394524	0.09563351	6.60643389	-42.64496872
CHST4	0.54	-0.125248943	0.080712306	6.6946706	-43.8186144
FEV	0.67	-0.140832762	0.097238164	6.88276282	-46.37242405
CD22	0.72	-0.276321882	0.100364388	7.15477404	-50.19079158
NKX2-1	0.36	-0.155390072	0.048276004	7.41956648	-54.04996671
GPR64	0.7	-0.207314741	0.093831217	7.42418387	-54.11850619
FCRLA	0.79	-0.354612524	0.106007288	7.44915923	-54.48997317
CD79B	0.77	-0.318571594	0.102498746	7.46950063	-54.79343972
VIL1	0.44	-0.161269369	0.058750089	7.50115672	-55.26735206
LCN12	0.5	-0.197285157	0.066652239	7.53531056	-55.78090519
NTRK1	0.86	-0.160279228	0.111890575	7.64844713	-57.49874347
TLR10	0.68	-0.246409078	0.088202497	7.74549541	-58.99269912
11-Mar	0.87	-0.099823394	0.106391756	8.13626176	-65.19875536
HEPACAM2	0.52	-0.142385497	0.063395169	8.20640114	-66.34501965
CD19	0.73	-0.311299176	0.08776301	8.27025358	-67.39709433
CPLX2	0.65	-0.082991202	0.075514824	8.6290487	-73.4604814
PHOX2A	0.57	-0.140039486	0.065481136	8.76739369	-75.86719203
ESR1	0.76	-0.315982431	0.082705018	9.206843	-83.76595801
CLDN10	0.71	-0.2260038	0.076280846	9.29610148	-85.41750267
CTSE	0.7	-0.206444674	0.074118001	9.466885	-88.62191158
CHGA	0.62	-0.175895962	0.063745338	9.79781786	-94.99723474
INSM1	0.64	-0.228349926	0.064038834	9.9759845	-98.52026672
IGLL1	0.39	-0.180262556	0.036307997	10.6984157	-113.4560976
F7	0.61	-0.155776119	0.057077235	10.7247842	-114.0209964
MS4A1	0.75	-0.278609333	0.069907823	10.7558913	-114.6891979
GSTA2	0.47	-0.15015496	0.043624908	10.790026	-115.4246617
PAX1	0.62	-0.262787412	0.057606735	10.7962023	-115.5579843
TRIM31	0.56	-0.177869645	0.051763269	10.8658295	-117.0662514
FOXI1	0.4	-0.148740939	0.03632897	10.8737222	-117.2378349

SERPINA5	0.38	-0.17494317	0.031535103	11.9957064	-142.8969718
C7	0.63	-0.185919761	0.051251331	12.3857008	-152.4055841
DEFA4	0.67	-0.122578585	0.05319522	12.5765907	-157.1706334
FXVD2	0.53	-0.112391376	0.041047994	12.8242736	-163.4619923
KL	0.81	-0.190070548	0.062868812	12.9439219	-166.5451144
DEFA3	0.68	-0.13113199	0.051137837	13.3831416	-178.1084791
DPPA4	0.41	-0.097597851	0.027958781	14.5559474	-210.8756041
DHRS2	0.56	-0.161382293	0.032469529	17.189545	-294.4804559
FAM163A	0.68	-0.145900012	0.031507273	21.6876616	-469.3546674
ITLN1	0.27	-0.100631048	0.01013329	26.5727416	-705.1105956
SLC26A7	0.79	-0.100555931	0.026992307	29.2422365	-854.1083979
TSHR	0.77	-0.138573239	0.024700668	31.3004958	-978.721038
SPIB	0.73	-0.187065922	0.015223268	48.2240915	-2324.563
DRGX	0.7	-0.18547269	0.008075249	86.8290527	-7538.284395