

	RMSE	Observed Mean	Observed Stdev	RMSE:Stdev	Calculated R^2
DPPA5	0.32	-0.148555245	0	-1	0
AL138751.1	0.31	-0.151227806	0	-1	0
FABP1	0.71	-0.0128907	0.921062673	0.776073822	0.397709423
DEFB1	0.47	-0.064867958	0.559258784	0.845892107	0.284466544
NDUFA4L2	0.5	0.014066066	0.573088735	0.873539907	0.236928032
MT1H	0.92	0.164222139	1.046537619	0.876667977	0.231453257
HR	0.92	0.037968556	1.006560219	0.914741995	0.163247083
KLK6	0.59	-0.040740456	0.642830235	0.920204763	0.153223193
TFR2	0.81	0.011964794	0.876952353	0.924869833	0.144615792
KRT6A	0.94	0.061239021	1.010979852	0.927933569	0.138939291
CCL13	1.02	0.241619858	1.094166122	0.932437295	0.130560692
CILP	0.64	-0.211536917	0.686737713	0.93382586	0.127969263
FOLH1	1	-0.012795325	1.067017738	0.935096388	0.125594746
CA9	0.97	0.13339176	1.041000629	0.936524387	0.122922073
TRPS1	0.87	-0.075314573	0.928744261	0.936744647	0.122509466
EPHX3	1.37	0.213218844	1.456836019	0.938376401	0.11944973
FOXJ1	1.22	0.062265419	1.295844763	0.939976101	0.11644493
STC2	1.37	0.202389668	1.451550386	0.941060431	0.114405265
TGM1	1.27	0.093764486	1.35252617	0.941141577	0.114252531
TNFRSF17	0.97	0.016189988	1.032483231	0.942281984	0.112104662
TMEM238	0.76	0.011454749	0.808374295	0.943487722	0.109830918
HAND2	0.73	0.081077869	0.772439267	0.943865741	0.109117463
KRT6B	0.47	-0.054587375	0.497838374	0.945241464	0.106518574
FAM166B	1.04	-0.048606086	1.102710164	0.945849283	0.105369134
ANXA10	0.81	0.071744352	0.853944389	0.947611931	0.102031629
KRT16	0.81	0.03411317	0.858937664	0.948279491	0.100766006
PNCK	0.71	-0.126127344	0.747495961	0.949132702	0.099147113
CTSE	1.24	0.145087595	1.308907558	0.949739102	0.097995639
HEPACAM2	0.76	-0.167089508	0.800804496	0.949813973	0.097853418
FAT2	0.82	-0.070527846	0.862163622	0.949827815	0.097827122
MEF2B	1.25	0.203970751	1.314931636	0.951542266	0.094567316
LYG1	0.81	0.151286384	0.848516044	0.952178995	0.093355162
MIXL1	1.41	0.022340762	1.476445825	0.952738956	0.092288481
TRPV6	0.98	0.157073593	1.031697135	0.95322987	0.091352814
KCNJ16	1.14	0.002663115	1.195144227	0.953605701	0.090636167
PRDM14	0.9	0.14824413	0.945782906	0.954923079	0.088121913
TTR	1.07	0.053947436	1.125508314	0.95498028	0.088012665
CLCNKB	1.04	0.147519174	1.084000156	0.955148635	0.087691084
FABP7	0.99	0.126435592	1.040152557	0.955757707	0.086527205
GATA3	1.34	-0.033669688	1.401811279	0.957076837	0.084003928
HOXB13	1	0.089438025	1.045548533	0.957173536	0.083818823
KRT5	1.11	0.040839794	1.160056661	0.95856948	0.081144552

POU2AF1	1.04	-0.013589545	1.086168742	0.959635477	0.079099752
CRYAB	1.18	0.171812205	1.224498172	0.96031948	0.077786496
KLK7	1.36	0.138057381	1.415449743	0.961966662	0.074620141
DCX	1.32	0.11157671	1.367147559	0.96413403	0.070445573
MECOM	1.2	-0.036281166	1.247144806	0.965075288	0.068629689
PNOC	0.91	0.046985293	0.944351804	0.966025181	0.06679535
FCRL5	0.99	-0.019312619	1.02013273	0.966123731	0.066604935
IFITM5	1.28	-0.067138274	1.329423884	0.966366834	0.066135142
ENPEP	0.96	-0.250708842	0.996214354	0.966423539	0.066025543
MMP1	1.05	0.071296576	1.090738317	0.967140669	0.064638927
STEAP2	0.67	-0.227858037	0.697607618	0.967296501	0.064337479
G6PC	0.57	-0.240649776	0.586547024	0.968039801	0.062898943
POSTN	1.06	-0.098315198	1.092196266	0.968269211	0.062454735
CD70	0.98	0.228285432	1.00810354	0.968858344	0.061313509
REG4	0.64	-0.051911469	0.657997878	0.969017997	0.061004122
COMP	1.13	0.162569872	1.165697582	0.969751315	0.059582388
SLC24A2	0.9	-0.135016192	0.9233407	0.970965332	0.057226324
PTCRA	0.41	-0.086696706	0.418206072	0.971543502	0.056103224
LAMP5	1.22	0.045793635	1.254637443	0.972039075	0.055140036
P2RX5	0.62	-0.046258727	0.640882064	0.972088351	0.055044238
KLK8	1.69	0.209658074	1.736557012	0.975015189	0.049345381
C8orf46	1.32	0.00654071	1.356283174	0.975122224	0.049136649
CPNE5	1.38	0.157213917	1.41557532	0.975617606	0.048170287
CLRN3	0.91	0.041021984	0.937421714	0.975936053	0.04754882
CA14	1.59	0.109132621	1.629591857	0.976272758	0.046891502
RNASE3	1.18	-0.003037737	1.207937703	0.976520057	0.046408579
C1orf61	1.68	0.185060158	1.719870633	0.977150271	0.045177348
CDHR5	0.58	-0.131525489	0.593142505	0.977355455	0.044776315
PRAC2	0.66	-0.104489563	0.674800298	0.97849495	0.042547633
CALML5	1.29	0.067640608	1.317873945	0.98188645	0.035898999
CCR9	0.82	-0.055850157	0.829439112	0.982619685	0.034458554
HIST1H2BH	0.55	0.024336128	0.560216127	0.983033686	0.033644773
PTPRN2	1.14	0.033477847	1.162995483	0.983094209	0.033525775
IRF4	1.04	0.033438869	1.056298118	0.983453184	0.032819835
GFRA1	1.05	-0.024430941	1.070970772	0.983780025	0.032176863
DSC3	1.33	0.17358609	1.350816955	0.984449217	0.030859739
SLC28A1	1.67	0.211738268	1.690637039	0.985497321	0.028795031
GPA33	0.75	-0.040850959	0.756840178	0.985674249	0.028446276
PCDH18	1.03	-0.199380817	1.040791017	0.98606044	0.027684808
P2RX3	1.35	0.271483067	1.371557793	0.986350474	0.027112743
SPON1	1.14	-0.095258906	1.159080982	0.987204634	0.025427011
HSD3B2	0.87	-0.20716316	0.880755716	0.987234134	0.025368765
ESR1	1.17	-0.100253461	1.187129514	0.987926119	0.024001984

CLDN10	0.7	-0.140719092	0.707517428	0.988051197	0.023754832
HRG	0.88	0.05109101	0.892286199	0.989498487	0.020892745
GJB1	1.47	0.252605896	1.481871994	0.991901948	0.016130526
TRABD2B	1.02	-0.195785922	1.023973767	0.992186999	0.015564959
FAM3D	1.24	0.073365089	1.245459784	0.992398487	0.015145242
AGT	0.58	-0.14648998	0.585657648	0.992817451	0.014313508
MAB21L2	1.5	0.136104532	1.510627618	0.993198522	0.013556696
SCARF2	1.27	0.107234778	1.278398517	0.994093422	0.011778267
CHST4	1.68	0.228872993	1.692794578	0.994156414	0.011653024
FOXA1	1.28	-0.135827486	1.284282052	0.994263172	0.011440744
PNMAL2	1.08	-0.059418496	1.085496609	0.995343099	0.009292115
UPK2	1.88	0.310746948	1.885407172	0.995737377	0.008507075
AR	1.03	-0.02538741	1.032882856	0.995892448	0.008198233
S100P	0.79	-0.190807733	0.794993198	0.996068869	0.007846809
KCNK15	1	-0.12151749	1.000583668	0.996499351	0.006989044
HOXD11	1.5	0.263433275	1.509071697	0.996611638	0.006765242
NAPSA	0.82	-0.055236885	0.827163345	0.997025178	0.005940794
HIST1H3F	0.52	-0.05677406	0.519699686	0.998518939	0.002959929
FAM43B	0.84	-0.157139952	0.844856425	0.999637546	0.000724778
NLRP7	1.37	0.11461663	1.367510329	0.999887349	0.000225289
DERL3	1.3	0.188427906	1.302750444	1.00059345	-0.001187251
SDR16C5	1.13	0.159712993	1.126210026	1.000668267	-0.001336981
TMEM179	1.61	0.244450571	1.603139536	1.001256821	-0.002515221
SHISA3	1.34	0.102135625	1.340956384	1.001768659	-0.003540447
DES	0.51	-0.06605269	0.511184468	1.002039464	-0.004083087
CD177	0.66	-0.083124302	0.654448011	1.002232989	-0.004470965
MEP1A	1.66	0.218101505	1.651997536	1.002506546	-0.005019375
SLC6A17	0.77	-0.022969106	0.771682063	1.00261873	-0.005244317
PKP1	1.96	0.341343967	1.95229012	1.003308591	-0.006628128
TLX2	1.73	0.135198128	1.727829783	1.003323288	-0.006657619
DSG1	1.97	0.311245597	1.960429967	1.003585482	-0.00718382
SFRP2	1.06	0.021272269	1.055354646	1.004795377	-0.00961375
CRP	0.98	0.041680246	0.975695511	1.004810302	-0.009643743
PLA2G2D	1.04	0.167881729	1.035860712	1.00497728	-0.009979333
ALPPL2	2.01	0.384229743	1.998897477	1.005843668	-0.011721485
BSND	0.64	-0.108735502	0.633256798	1.005988095	-0.012012047
LIN28A	1.98	0.306982537	1.965768916	1.006031836	-0.012100055
DKK1	1.7	0.281269953	1.687261047	1.007264243	-0.014581256
HIST1H3J	1.63	0.348388231	1.620162263	1.007335915	-0.014725647
TXNDC5	1.12	0.076982223	1.110484295	1.007455789	-0.014967167
FAM19A4	1.74	0.325037401	1.725814962	1.007516764	-0.01509003
HIST1H4D	1.02	0.166675783	1.013860355	1.007690198	-0.015439534
LZTS1	0.88	-0.342973139	0.869406704	1.007873662	-0.015809318

RNASE2	1.08	0.153158194	1.06678709	1.008315003	-0.016699145
SNCA	1.4	0.182382926	1.389168245	1.008819043	-0.017715861
VSTM1	1.01	0.194284656	0.998188859	1.009856369	-0.019809887
S100A1	0.96	0.025855566	0.948728231	1.009989391	-0.02007857
F7	1.52	0.013674826	1.506712217	1.010579307	-0.021270535
CYP17A1	1.43	0.079862475	1.419380398	1.010812007	-0.021740913
NTS	1.31	0.169629094	1.297248669	1.01213757	-0.02442246
AZGP1	1.38	0.031513443	1.364155754	1.012146992	-0.024441534
UTF1	0.83	-0.216692771	0.82380298	1.012216216	-0.024581669
SHISA8	1.25	0.135485052	1.238820961	1.012230515	-0.024610616
DACH1	1.1	0.051021129	1.085854047	1.012263549	-0.024677492
OR51E1	1.1	0.04226649	1.085909964	1.013148287	-0.026469452
GPRC5B	1.01	-0.01301801	0.995359877	1.01337564	-0.026930188
DNER	0.86	0.118827649	0.845600077	1.014754866	-0.029727438
BMPER	2.06	0.398952224	2.029651051	1.015159831	-0.030549482
TMEM151A	1.76	0.286910287	1.734958428	1.015928319	-0.03211035
SPOCK3	0.75	-0.056347343	0.738838979	1.016121781	-0.032503474
RHCG	2.17	0.388646175	2.137807836	1.016279255	-0.032823524
BNC1	1.88	0.375685227	1.846126267	1.016340837	-0.032948698
FLT3	1.15	0.114481016	1.127903907	1.01696635	-0.034220557
LMX1B	1.14	-0.060446934	1.118221641	1.017189153	-0.034673774
SLC22A2	1.96	0.483841523	1.931031401	1.017285167	-0.034869111
KLK1	1.98	0.278443827	1.949808876	1.01731595	-0.034931742
NDP	1.72	0.332488931	1.687076273	1.017564354	-0.035437214
SLC7A8	1.1	-0.056630503	1.078899755	1.017845128	-0.036008705
HIST1H2AH	1.61	0.215909874	1.577487756	1.019271019	-0.038913411
HIST1H2BG	1.41	0.290702668	1.385827431	1.019355999	-0.039086652
TMEM213	2.12	0.345348174	2.077944108	1.020159131	-0.040724653
PGLYRP1	1.03	0.05801327	1.013646747	1.020185879	-0.040779228
NEFM	1.08	0.030650825	1.056822194	1.020246527	-0.040902977
AIM2	0.66	-0.026740502	0.644947806	1.020792403	-0.04201713
RAB3B	0.59	-0.119227189	0.575372918	1.021208716	-0.042867242
PHOX2B	2.1	0.42871015	2.051092712	1.022070398	-0.044627898
DSG3	2.05	0.422070546	2.009208146	1.022306661	-0.045110909
HABP2	0.83	-0.185480999	0.815227247	1.023047656	-0.046626506
ICAM3	0.93	0.056873194	0.910382181	1.023458268	-0.047466826
GPR64	1.51	0.175526758	1.473389374	1.023738841	-0.048041214
P2RX1	1.62	0.321201907	1.584030304	1.024257145	-0.049102699
CORO2B	1.12	-0.14403163	1.095972158	1.024448919	-0.049495588
ZBED2	1.11	0.246607727	1.083044088	1.024917167	-0.050455199
RTN1	1.33	-0.081755075	1.299117878	1.025173906	-0.050981538
RSPO1	2.17	0.419068432	2.111120533	1.025872133	-0.052413633
AOC1	2.22	0.394587922	2.166501822	1.025876492	-0.052422578

PLG	0.58	-0.220412929	0.563058983	1.025902352	-0.052475636
BHMT	2.21	0.363348648	2.154872294	1.026522423	-0.053748285
CDO1	1.16	-0.106480066	1.126131404	1.026634784	-0.053978981
SLAMF7	1.32	0.251031408	1.280992511	1.026727873	-0.054170124
CPB2	2.23	0.40445609	2.170327466	1.027021906	-0.054773996
HSPB2	1.52	0.248402176	1.480010137	1.027830773	-0.056436098
LRRC14B	1.33	0.147230004	1.292233417	1.028032316	-0.056850442
SP7	2.07	0.450516149	2.010869914	1.02810037	-0.056990371
MAL	2.21	0.387029421	2.145533701	1.028114315	-0.057019045
UGT2B4	2.24	0.41655985	2.173073364	1.028597969	-0.058013782
HNF4A	2.09	0.40544182	2.033442678	1.028668995	-0.058159901
BMP6	2.19	0.420263055	2.131719631	1.028850241	-0.058532818
ITLN2	2.18	0.42522026	2.119227701	1.028876852	-0.058587577
NDNF	0.69	-0.304335377	0.671227359	1.029158031	-0.059166253
NR1H4	2.23	0.421263225	2.171164575	1.029314911	-0.059489185
SOX1	1.55	0.200608817	1.506168493	1.03108415	-0.063134524
REG1A	2.23	0.437948949	2.166276585	1.031117724	-0.063203761
RBP4	1.77	0.246160338	1.717812532	1.03124848	-0.063473428
ATCAY	0.92	-0.023514262	0.891520386	1.031264095	-0.063505633
GCGR	2.19	0.382583217	2.124816587	1.031598986	-0.064196467
HOXC10	0.88	-0.152159241	0.850410486	1.032305756	-0.065655174
LRRC26	0.73	-0.032554777	0.710962676	1.033189628	-0.067480807
VENTX	1.22	0.184607467	1.17687135	1.033299132	-0.067707095
IGLL1	1.95	0.448637745	1.886482511	1.033385273	-0.067885121
ORM1	1.47	0.091027951	1.420864611	1.03365775	-0.068448343
MRGPRF	1.22	-0.155623865	1.180805971	1.033870947	-0.068889135
LGR5	2.24	0.454849277	2.162612651	1.034206723	-0.069583546
CDK5R2	1.62	0.292199027	1.567628212	1.034224333	-0.06961997
BCHE	2.24	0.44461449	2.162350638	1.034272678	-0.069719973
GBP6	0.63	-0.113140002	0.611323747	1.035113409	-0.071459769
IL21R	1.19	0.241010337	1.14449195	1.035981593	-0.07325786
ISL1	2.24	0.453045632	2.162071005	1.03613107	-0.073567594
HLA-DOB	1.02	0.204102321	0.982313791	1.03687333	-0.075106303
ANXA8	1.83	0.35850996	1.766978266	1.036992823	-0.075354115
TUBB2B	2.01	0.472704517	1.935235453	1.037154006	-0.075688433
SNAP91	2.16	0.469143355	2.077448901	1.038053518	-0.077555107
STAR	2.18	0.409017382	2.098306458	1.038676362	-0.078848584
ARPP21	1.15	0.060868016	1.10243582	1.038686084	-0.07886878
BRINP2	0.82	-0.026714401	0.788132582	1.038894948	-0.079302712
BHLHA15	1.68	0.354374284	1.613694501	1.039481142	-0.080521044
TSPAN8	0.41	-0.06626596	0.390670626	1.04095349	-0.083584168
TMEM119	1.26	-0.026810598	1.208830279	1.041580535	-0.084890011
KHDC3L	1.18	0.082010884	1.136284489	1.041675818	-0.085088511

MFAP5	1.48	0.30061759	1.422466854	1.041790159	-0.085326736
CLDN6	1.97	0.452737812	1.889610205	1.042202137	-0.086185294
SLC26A7	0.8	-0.033912927	0.767154935	1.042503672	-0.086813906
SLC3A1	2.03	0.439501831	1.947823676	1.042664359	-0.087148966
RUNDC3A	1.46	0.324059689	1.401120487	1.043000875	-0.087850825
ATP1A3	1.8	0.441927445	1.73030238	1.043027662	-0.087906703
ZCCHC12	0.51	-0.191893803	0.492716988	1.043179705	-0.088223898
HIST1H1D	1.74	0.268972514	1.669230301	1.043387393	-0.088657253
LYPD6B	1.33	0.089381493	1.277269665	1.04348764	-0.088866455
TRIM31	0.82	-0.07549293	0.783937042	1.043526898	-0.088948386
SLC45A3	0.72	-0.086873045	0.687735244	1.044081687	-0.090106569
OCA2	2.25	0.460045918	2.157195768	1.044090599	-0.090125179
REEP6	0.85	-0.317273581	0.810923898	1.044326095	-0.090616992
IL36G	1.23	0.153396576	1.17476562	1.04469469	-0.091386994
DRD2	1.95	0.48961996	1.870492505	1.04478158	-0.09156855
SPIB	2.23	0.4917974	2.131514246	1.045016861	-0.09206024
NANOG	2.19	0.499822186	2.092930185	1.045177791	-0.092396615
MAG	1.17	0.083824463	1.118750773	1.045482256	-0.093033149
SFTPD	1.36	0.20719604	1.304211431	1.045698249	-0.093484828
SCG5	1.67	0.179654228	1.593904446	1.046312897	-0.094770679
SYP	1.34	0.29900226	1.277226682	1.046418608	-0.094991903
HEPACAM	1.27	-0.05289519	1.21533308	1.046584491	-0.095339096
CPLX2	1.06	0.20987942	1.007929167	1.046728815	-0.095641211
DLX5	1.53	0.378066548	1.463193711	1.047536643	-0.097333019
CYP11B1	0.84	0.084800793	0.806207689	1.04791185	-0.098119244
APOA2	1.5	0.438556733	1.432528083	1.048002964	-0.098310212
KLK4	2.17	0.427741934	2.073426438	1.048082069	-0.098476023
CLDN16	2.21	0.441018958	2.105054604	1.048638626	-0.099642967
SH2D1A	0.94	0.071537079	0.896530868	1.049071469	-0.100550948
AMPD1	0.8	-0.189243338	0.763684778	1.049349049	-0.101133427
CLECL1	0.77	-0.017828443	0.73339284	1.050339322	-0.103212691
GZMK	0.98	0.121748237	0.935239425	1.051627362	-0.105920109
KRT20	0.69	0.016852988	0.657602518	1.051659641	-0.105988001
EEF1A2	0.93	0.184895028	0.88860876	1.051679988	-0.106030797
RASGRP3	1.68	0.20835722	1.595030924	1.051765975	-0.106211666
DMRT2	1.83	0.334748467	1.743577038	1.051985549	-0.106673594
HOXB6	0.85	-0.002252054	0.811795825	1.052514706	-0.107787206
HIST1H4C	1.16	0.133619239	1.098555525	1.052522398	-0.107803399
FOXD1	0.5	-0.079243211	0.478973087	1.052662948	-0.108099282
PTPRN	1.15	0.160447696	1.08963142	1.053085081	-0.108988188
HIST1H2AB	1.76	0.498731777	1.672028483	1.053506577	-0.109876107
ITIH5	1.32	-0.118604062	1.253674167	1.05370588	-0.110296082
ABCB5	1.27	-0.110550533	1.201342979	1.053844446	-0.110588116

CCR2	0.91	-0.023982667	0.863126935	1.053898502	-0.110702052
CYP11A1	0.9	-0.210337815	0.851345006	1.054361842	-0.111678893
C7	1.11	-0.078650777	1.054404175	1.054560091	-0.112096986
CNTFR	1.38	0.05294961	1.304582796	1.0546935	-0.112378379
HIST1H2AJ	2.03	0.599057039	1.926812638	1.055495592	-0.114070945
RAB44	1.62	0.308072001	1.531224786	1.055720308	-0.114545369
GYG2	1.2	-0.005961128	1.139434868	1.05604531	-0.115231697
ITIH1	1.06	0.191870377	1.007115114	1.057302971	-0.117889572
PPP1R1A	0.89	-0.082433691	0.840483734	1.058045318	-0.119459894
KLK5	0.66	-0.087020208	0.622493586	1.058108959	-0.11959457
NTRK1	1.64	0.406270425	1.552731867	1.058230661	-0.119852133
HIST1H3D	1.02	0.233037287	0.967784717	1.058593794	-0.120620822
GDNF	1.71	0.503034066	1.613087899	1.058990867	-0.121461657
NPW	0.84	-0.065600036	0.793423174	1.059116837	-0.121728473
KLHDC8A	0.58	-0.147223354	0.549606279	1.059190742	-0.121885027
SLC27A6	0.97	0.006591784	0.914294542	1.059452982	-0.122440622
NEFL	1.04	0.032565401	0.980554407	1.059808482	-0.123194019
SERPINC1	1.16	-0.045046279	1.09071684	1.061290579	-0.126337694
GATA4	0.69	-0.084252754	0.64730849	1.061297342	-0.126352047
TCF21	0.93	-0.072028446	0.872902919	1.061439975	-0.12665482
HMP19	2.21	0.598993071	2.07719592	1.061575783	-0.126943144
EYA1	1.19	0.24751796	1.122236658	1.062447203	-0.128794059
ORM2	0.88	-0.080058596	0.828824478	1.062452931	-0.128806231
PMEL	1.05	-0.069222835	0.989538457	1.063556747	-0.131152955
GAPDHS	0.77	-0.068647976	0.724960031	1.064524947	-0.133213363
UTS2R	0.86	-0.099649363	0.807853869	1.064697786	-0.133581376
SOX18	1.37	-0.150593082	1.281770385	1.065010625	-0.134247631
GATA6	1.69	0.337016179	1.582531056	1.065170403	-0.134587988
C18orf42	0.88	0.044107334	0.8257521	1.065646452	-0.135602361
MUC3A	1	-0.318270995	0.938174503	1.067049319	-0.13859425
RAB37	1.07	0.249636728	1.002683679	1.068259303	-0.141177939
HIST1H3B	1.67	0.34564139	1.558345203	1.068447196	-0.141579411
INSM2	2.14	0.635090296	2.006098685	1.069238739	-0.143271481
FGF18	2.02	0.459428866	1.889573097	1.069814146	-0.144502306
CD3D	0.78	0.055153858	0.727791499	1.070008545	-0.144918286
MLPH	1.08	-0.278733463	1.009363514	1.070114673	-0.145145414
SERPINB10	1.34	0.213410415	1.254233004	1.07136575	-0.14782457
ASIC4	0.96	0.190144469	0.890818597	1.072847818	-0.151002441
HIST1H3G	1.26	0.230143859	1.174972086	1.073151365	-0.151653852
BTK	0.97	0.062740936	0.898691412	1.074043077	-0.15356853
CYP4B1	2.18	0.523351313	2.024316581	1.074473333	-0.154492944
VSTM2A	1.85	0.405321753	1.721188898	1.075927961	-0.157620976
ASCL2	0.98	-0.048792128	0.91471388	1.076167866	-0.158137276

CD1B	0.49	-0.107307494	0.458145505	1.07635026	-0.158529883
FAM19A3	1	0.110792086	0.924121973	1.078771598	-0.163748161
CHRNA3	1.43	0.365502997	1.324877519	1.079773592	-0.16591101
FOXC1	2.07	0.570718188	1.917682344	1.081480459	-0.169599982
ANXA13	0.85	-0.0689636	0.786162647	1.08236805	-0.171520595
MMP12	0.77	-0.127766315	0.709210359	1.082748871	-0.172345118
F13B	0.66	0.084996984	0.607500788	1.082767478	-0.17238541
PRPH	1.92	0.552897267	1.774175967	1.082879862	-0.172628796
BHMT2	1.12	-0.076399571	1.033165846	1.083142369	-0.173197391
RGS20	0.46	-0.085564745	0.427826884	1.083269154	-0.17347206
DMGDH	0.99	-0.180767862	0.917663508	1.08360135	-0.174191886
HIST1H1B	1.28	0.338286266	1.183346961	1.084453001	-0.176038311
SLC7A4	1.09	-0.117918158	1.003337295	1.085463274	-0.17823052
SERPINA5	1.14	-0.094402099	1.049243038	1.085573596	-0.178470033
SPINK1	0.75	0.026457312	0.686253499	1.086118598	-0.179653609
FCRL3	0.59	-0.076142246	0.542144393	1.090399049	-0.188970085
STMN4	0.73	-0.112948809	0.666075006	1.090810162	-0.18986681
BPI	0.87	0.023016487	0.79636984	1.090942403	-0.190155327
CAPS	0.92	-0.034737708	0.846029623	1.092182312	-0.192862203
TBX3	0.85	0.011251702	0.773933114	1.092186218	-0.192870736
FAM101A	1.17	0.158054986	1.071824323	1.092499924	-0.193556084
SPDEF	1.1	-0.211608	1.00534721	1.092680317	-0.193950275
KNG1	0.79	0.14554116	0.72257511	1.093245114	-0.195184879
BEX1	0.57	0.057849379	0.517503539	1.09327693	-0.195254445
AXIN2	0.9	0.122507772	0.819751753	1.09385884	-0.196527162
CD8B	1.05	0.152915026	0.958324503	1.094254047	-0.197391919
STK32A	0.8	-0.038022133	0.734130234	1.095064915	-0.199167168
CPB1	2.03	0.68863714	1.857385367	1.095600343	-0.200340112
CD22	0.49	-0.14082384	0.449252667	1.095941075	-0.201086839
C1QTNF4	0.72	-0.146486357	0.657705792	1.097129791	-0.203693779
HP	0.82	-0.160971579	0.745625397	1.097538211	-0.204590124
MXRA8	1.03	0.00547957	0.93764091	1.097610442	-0.204748682
CCL25	1.25	0.284111321	1.136560692	1.098824421	-0.207415108
C2orf88	0.65	-0.11364798	0.594538155	1.09953559	-0.208978515
LTB	0.47	-0.091948256	0.42721879	1.101967052	-0.214331383
SAA1	1.19	0.012745011	1.080860466	1.10254714	-0.215610195
MGAM	0.65	0.005416448	0.589020685	1.103274395	-0.217214392
EDNRB	0.74	-0.329724089	0.667050411	1.104619217	-0.220183615
GPM6B	1.09	-0.09955937	0.988565239	1.104751247	-0.220475318
GOS2	1.07	-0.067426534	0.968263839	1.108127217	-0.227945928
SLC18A1	1.33	0.311826687	1.195449715	1.109059411	-0.230012776
KL	1.22	-0.178810094	1.093999443	1.111722558	-0.235927046
HSPB6	1.08	-0.148247404	0.966622804	1.112215795	-0.237023974



NOX1	0.78	-0.130536157	0.696996369	1.112469842	-0.237589149
HIST1H2AM	1.2	0.343355721	1.077210524	1.113799501	-0.240549329
HOGA1	1.12	0.021864103	1.002705688	1.113998209	-0.24099201
ATP6V1G3	0.61	-0.177169948	0.551374789	1.115268344	-0.24382348
HIST1H2BL	0.99	0.304545925	0.88540283	1.115324203	-0.243948078
CCL20	0.52	-0.177493978	0.462099049	1.120648315	-0.255852646
DAAM2	0.78	-0.080683305	0.700134523	1.12096554	-0.256563742
MS4A3	1.27	0.386786733	1.130932243	1.121760763	-0.258347209
MB	1.19	0.101059533	1.056934336	1.122432765	-0.259855313
CRABP1	0.78	-0.039677954	0.691236976	1.123208494	-0.261597322
HNF1B	0.54	-0.021931688	0.478517241	1.124409877	-0.264297572
PVALB	1.94	0.554688449	1.723445023	1.126465303	-0.268924079
TP63	0.78	-0.356972778	0.693238777	1.128141492	-0.272703226
APOH	0.76	0.021657597	0.671248269	1.128201487	-0.272838596
IL18RAP	0.96	-0.004620183	0.846783055	1.128874979	-0.274358718
VGLL1	0.95	0.034712131	0.844292704	1.128990204	-0.27461888
HOXD8	0.9	-0.331021997	0.795232349	1.129146108	-0.274970932
FOXE1	0.82	-0.142721564	0.723512497	1.129799416	-0.27644672
MMP25	1.02	-0.040849354	0.900309283	1.130350892	-0.277693139
FGF8	0.73	-0.206318898	0.642574549	1.131435415	-0.280146097
PHGR1	0.89	0.055171619	0.78686979	1.132827693	-0.283298582
GFAP	0.74	-0.226406832	0.649458194	1.13298455	-0.283653989
INSC	0.87	0.032593553	0.763991365	1.13393459	-0.285807654
PTGDS	0.59	-0.097113223	0.520852324	1.134179904	-0.286364056
IGJ	0.81	-0.05476077	0.712142282	1.134241397	-0.286503547
MIA	1.03	0.071702338	0.906382189	1.134952246	-0.2881166
SOX17	1.02	-0.156255357	0.900452325	1.136765032	-0.292234739
NANOGP8	1.81	0.644313924	1.590143885	1.137622011	-0.29418384
VTN	0.76	0.05244251	0.669129086	1.138477896	-0.296131919
TMEM100	0.69	-0.254075829	0.601795975	1.139961426	-0.299512052
DLX3	0.87	0.08587347	0.7610354	1.140807026	-0.301440671
AMHR2	1.08	0.144099352	0.946697336	1.141751838	-0.30359726
HIST1H2AI	1.73	0.519210113	1.511277799	1.14182536	-0.303765152
SLC4A1	0.5	-0.234538238	0.43910119	1.144584793	-0.310074348
CXCR2	1.21	-0.410459734	1.06074618	1.144890317	-0.310773838
CD19	0.47	-0.131790999	0.413307543	1.145560579	-0.31230904
MEOX1	1.06	-0.205357791	0.92070127	1.146105752	-0.313558395
LRMP	0.72	-0.131095253	0.629141131	1.148116952	-0.318172535
C11orf21	0.68	-0.020864286	0.589590387	1.148318196	-0.318634679
MAB21L1	0.84	-0.273008324	0.731702945	1.148960587	-0.320110432
BBOX1	0.47	-0.189888514	0.410874687	1.149598302	-0.321576255
FOXN1	1.05	-0.038840155	0.913271067	1.149734524	-0.321889475
CDX1	0.54	-0.201088903	0.473259902	1.150215846	-0.322996493

GLYAT	0.96	-0.151449105	0.834983225	1.152026024	-0.327163961
RAB38	0.48	-0.199183754	0.414021931	1.152968871	-0.329337218
HIST1H2BO	1.52	0.466804965	1.319356279	1.153119348	-0.329684231
SFTPA2	0.8	-0.162472684	0.69119636	1.154044087	-0.331817755
DDC	0.56	-0.000907409	0.481500268	1.156900088	-0.338417813
CES1	0.88	-0.22021818	0.758541556	1.156952268	-0.33853855
HPX	0.4	-0.255983114	0.346974779	1.157345525	-0.339448664
STMN2	0.87	-0.083856277	0.751309778	1.158053787	-0.341088573
CD79B	0.47	-0.141356957	0.410050239	1.158332664	-0.341734561
RXRG	0.69	-0.177944161	0.593070032	1.159073027	-0.343450282
PLAC8	0.58	-0.010022784	0.499054322	1.159620878	-0.344720581
TSPAN32	0.87	0.021825295	0.746472899	1.159811381	-0.345162439
CEACAM3	1.07	-0.033064315	0.92326755	1.160459285	-0.346665752
CTNND2	0.96	-0.040303987	0.824779695	1.161411814	-0.348877401
GAPT	0.86	-0.167173194	0.736986675	1.161574425	-0.349255144
CFHR1	0.96	-0.025379841	0.825100503	1.164632793	-0.356369542
EFHD1	1.02	-0.181844322	0.877837796	1.167000485	-0.361890132
CACNG7	0.56	-0.154197302	0.481323501	1.167621551	-0.363340087
SFTPB	0.8	-0.148283276	0.687236621	1.169667153	-0.368121249
HIST2H2AC	1.13	-0.052075699	0.966980898	1.172514358	-0.374789919
TNF	0.92	-0.094300406	0.782626333	1.172688304	-0.375197857
S100A14	0.89	0.095108467	0.756000352	1.175657898	-0.382171494
CXCL8	0.64	-0.27193113	0.545847041	1.17731665	-0.386074494
TMEM252	0.51	-0.358786512	0.434395669	1.177332783	-0.386112483
CFTR	0.69	-0.279684049	0.588277133	1.177959676	-0.387588998
MGP	0.64	-0.127407827	0.538905118	1.179651012	-0.391576511
SCRG1	0.96	0.008585443	0.816359239	1.180866667	-0.3944446086
PTGER3	0.81	-0.197733924	0.690011644	1.181108969	-0.395018398
C10orf99	0.79	-0.20720967	0.663242659	1.183797535	-0.401376605
DPEP1	1.12	0.026773793	0.947915076	1.184485051	-0.403004836
NAT8	0.64	-0.273981463	0.536148451	1.186235309	-0.407154208
SHISA2	1.21	-0.032772502	1.018168982	1.186745286	-0.408364374
POU2F2	0.62	-0.148022291	0.521197146	1.187240423	-0.409539822
PAX2	0.98	0.034076365	0.826172003	1.188300494	-0.412058064
PLP1	0.49	-0.185949941	0.408059179	1.188573736	-0.412707526
ARG1	0.87	-0.370625836	0.729651919	1.188710402	-0.41303242
TCERG1L	1.02	-0.019061198	0.856758486	1.189840807	-0.415721146
AMER2	0.88	0.016940131	0.742720359	1.190908578	-0.418263242
APOB	0.83	-0.24643855	0.699382654	1.192908146	-0.423029844
ADRA2C	0.85	-0.095870002	0.712808631	1.193212402	-0.423755836
GNG3	0.6	-0.060258111	0.504092716	1.193522866	-0.424496831
DUSP5	1.05	-0.181090283	0.878932739	1.193916637	-0.425436937
KRT13	0.81	-0.163714931	0.678099601	1.193951285	-0.42551967

RAB3C	0.55	-0.125468559	0.45699814	1.19417211	-0.426047029
LGALS4	1.18	-0.032932976	0.980310895	1.199462924	-0.438711307
GALNT9	0.77	0.100277705	0.640050672	1.202788096	-0.446699203
CTSV	0.86	0.092072983	0.716674553	1.205649638	-0.45359105
S100B	0.94	-0.002882439	0.776986416	1.210303983	-0.46483573
CPA4	0.36	-0.160122054	0.292961455	1.213159193	-0.471755226
GCG	0.48	-0.164915334	0.394667244	1.21450268	-0.475016759
KIF26A	1.1	-0.182055729	0.902342117	1.216391259	-0.479607695
SFTPA1	0.76	-0.178609825	0.622289452	1.218295636	-0.484244257
APOD	0.58	-0.232402507	0.478479399	1.219186646	-0.486416078
CLC	0.42	-0.128362361	0.34576951	1.221722404	-0.492605633
SNCG	1.03	-0.159730574	0.840548006	1.22349274	-0.496934486
CD1E	0.48	-0.237091573	0.394895884	1.227084496	-0.50573636
FAIM3	0.57	-0.167695765	0.463131642	1.238292063	-0.533367232
DBH	0.81	-0.097394091	0.656546068	1.239121619	-0.535422388
SPRR3	0.86	-0.18707625	0.693814965	1.240203251	-0.538104104
FGF9	0.5	-0.140253693	0.406462827	1.241112801	-0.540360984
C16orf89	0.69	-0.154457936	0.551152325	1.24390648	-0.547303332
SPINK2	0.52	-0.14647882	0.417007855	1.246495315	-0.553750571
KREMEN2	0.58	-0.186355638	0.466604218	1.248250778	-0.558130005
GPRC5D	0.85	0.015449457	0.679073929	1.252314323	-0.568291165
LEFTY1	0.78	-0.175204912	0.622324199	1.255913193	-0.577317948
HIST1H4L	0.75	-0.242428514	0.595648893	1.255931159	-0.577363076
TMPRSS11D	0.74	-0.243202162	0.581039581	1.269699239	-0.612136158
ST6GALNAC1	0.86	-0.301880264	0.677808112	1.270964173	-0.61534993
CHGA	0.4	-0.047328589	0.311455678	1.272273742	-0.618680475
SLC4A4	0.6	-0.099632962	0.46872555	1.272277429	-0.618689858
VRTN	1.06	0.060351432	0.833957194	1.273941653	-0.622927336
PENK	0.33	-0.201342995	0.25885436	1.275028222	-0.625696967
SERPINE2	0.8	0.071136029	0.628021679	1.27670694	-0.629980612
ELANE	0.71	-0.300439774	0.55275732	1.276887881	-0.63044266
ADRB1	0.59	-0.127347612	0.457090028	1.281456819	-0.642131579
CDH15	0.61	-0.097163908	0.476995999	1.284996471	-0.65121593
AC234582.1	0.55	-0.180487091	0.427662999	1.287429499	-0.657474716
TH	0.72	-0.141561535	0.555139119	1.289197068	-0.66202908
CYSLTR1	0.85	-0.259264938	0.657210122	1.290930391	-0.666501275
IGFBP1	0.48	-0.208250439	0.368772418	1.298598468	-0.68635798
AICDA	0.52	-0.172370657	0.401517805	1.303458385	-0.699003761
DPPA4	0.52	-0.135926032	0.397473447	1.307998281	-0.710859504
TNR	0.51	-0.081895399	0.386976895	1.314079928	-0.726806058
TLR10	0.63	-0.173398588	0.475514392	1.318883043	-0.73945248
FCN1	0.54	-0.201582659	0.406126667	1.334571494	-0.781081073
F2	0.62	-0.272820084	0.463653594	1.343998152	-0.806331033

MLANA	0.77	-0.395639577	0.571846213	1.34538798	-0.810068816
PAX9	0.85	-0.350668544	0.629996221	1.349828038	-0.822035731
GNG7	0.83	-0.397055756	0.614273003	1.351217632	-0.825789088
CST1	0.7	-0.078119314	0.517853682	1.356596501	-0.840354067
TRABD2A	0.6	-0.174648513	0.442952095	1.365750034	-0.865273154
MMP17	0.95	-0.466995136	0.689432935	1.371607145	-0.881306159
MMP9	0.56	-0.239444332	0.406360758	1.388293395	-0.927358551
CD1C	0.55	-0.308770953	0.396509239	1.397033155	-0.951701637
FAM163A	0.71	-0.247637668	0.497727576	1.417991113	-1.010698797
LCN12	0.61	-0.239210392	0.426653842	1.429463409	-1.043365637
TCL1A	0.38	-0.170094838	0.267674696	1.432809844	-1.052944049
ATP6V0D2	0.5	-0.350879909	0.345822437	1.434355501	-1.057375704
TCN1	0.41	-0.143915707	0.284638642	1.442331752	-1.080320884
UPK3A	0.41	-0.249559932	0.281336109	1.44421208	-1.085748532
SCGB1A1	0.54	-0.224488556	0.372987675	1.449166368	-1.100083162
FCRLA	0.41	-0.178782873	0.285622834	1.452506268	-1.109774459
TM4SF4	0.27	-0.181786692	0.179708689	1.482588907	-1.198069867
RBP5	0.71	-0.221248004	0.476256833	1.489368296	-1.21821792
AHSP	0.74	-0.212457215	0.492773411	1.496005192	-1.238031536
EMR3	0.83	-0.293680594	0.55059726	1.506400164	-1.269241455
ADH1A	0.6	-0.309774555	0.396461614	1.508903396	-1.27678946
DAPL1	0.43	-0.111289799	0.282644563	1.515189923	-1.295800502
SPNS3	0.49	-0.184076679	0.321522343	1.527742407	-1.333996861
C1orf228	0.69	-0.225508808	0.453475288	1.530213313	-1.341552784
UPK3B	0.38	-0.18167724	0.244356589	1.556192279	-1.421734411
RGL4	0.65	-0.095383541	0.409258162	1.581988468	-1.502687512
SNX22	0.75	-0.104035008	0.468852911	1.592677831	-1.536622674
FCRL2	0.46	-0.178829115	0.288249758	1.594195036	-1.541457814
CLEC17A	0.56	-0.226891796	0.349537178	1.595177421	-1.544591005
DEFA4	0.37	-0.179956631	0.232527231	1.608277402	-1.586556201
HOXA5	0.51	-0.210184847	0.31032901	1.648781261	-1.718479647
C4BPA	0.61	-0.18654707	0.367086856	1.658010529	-1.748998915
RNF186	0.76	-0.39170293	0.451876512	1.671933969	-1.795363196
IL36RN	0.31	-0.16764945	0.182685275	1.674173233	-1.802856014
EPS8L3	0.54	-0.236815957	0.320536644	1.687740818	-1.848469068
TNFRSF13C	0.46	-0.187483549	0.259959279	1.763554163	-2.110123286
AGXT	0.47	-0.210696435	0.265457357	1.768935039	-2.129131171
APOC3	0.34	-0.276212576	0.191326805	1.770978098	-2.136363425
MTRNR2L12	0.54	-0.335723431	0.301518546	1.78660495	-2.191957248
PRSS57	0.47	-0.192657747	0.262488166	1.790957558	-2.207528973
ACSM2B	0.46	-0.119009171	0.254581994	1.795534082	-2.223942639
PRG4	0.5	-0.214676696	0.276872494	1.796624655	-2.22786015
MTRNR2L8	0.37	-0.212589285	0.201584258	1.818636269	-2.307437879

KRT17	0.32	-0.197680198	0.171059161	1.859588469	-2.458069275
CCNA1	0.46	-0.232491049	0.244058914	1.875216614	-2.51643735
MAT1A	0.45	-0.182556553	0.237183552	1.887178698	-2.561443439
MS4A1	0.45	-0.190872789	0.238793497	1.899683299	-2.608796638
SOX8	0.55	-0.090630572	0.282774593	1.949087777	-2.798943163
PAX5	0.45	-0.21161914	0.227833465	1.965523071	-2.863280944
SLC22A31	0.32	-0.103802792	0.162210455	1.971196431	-2.885615368
SLC30A2	0.54	-0.294583481	0.273070883	1.981022423	-2.924449841
BLK	0.42	-0.197927406	0.205537011	2.042826692	-3.173140894
ELAVL3	0.46	-0.087996678	0.214507316	2.133062349	-3.549954984
NNAT	0.58	-0.348737764	0.264483954	2.209457292	-3.881701527
SPX	0.66	-0.246235411	0.299572987	2.212160213	-3.893652806
CALB2	0.48	-0.190704541	0.215007584	2.244539935	-4.037959519
CRISP3	0.46	-0.256345719	0.203772491	2.258519166	-4.100908821
DCDC2	0.3	-0.201832542	0.129124424	2.320628872	-4.385318363
SLC26A4	0.62	-0.315308977	0.258559449	2.3816565	-4.672287685
TNFRSF13B	0.42	-0.187175185	0.175841359	2.405635715	-4.787083192
KCNQ2	0.4	-0.084859609	0.16346461	2.447910841	-4.992267487
C8B	0.41	-0.089355001	0.165802639	2.473185055	-5.116644316
CHAD	0.46	-0.295838132	0.180165336	2.561384811	-5.560692148
VPREB1	0.49	-0.229066641	0.187220781	2.611951135	-5.82228873
NKX3-1	0.55	-0.258684658	0.198068966	2.758696492	-6.610406333
PEG10	0.39	-0.315369117	0.143027486	2.75876513	-6.610785044
FAM129C	0.39	-0.173991187	0.133383492	2.899615158	-7.407768067
PIGR	0.44	-0.316890763	0.142239878	3.059390424	-8.359869764
PLA2G2A	0.5	-0.321756102	0.157361597	3.180723249	-9.11700039
MLC1	0.52	-0.097001981	0.151535217	3.452499137	-10.91975029
PTPRZ1	0.5	-0.26911062	0.141808095	3.533642194	-11.48662715
GIP	0.6	-0.183538429	0.169090933	3.560351502	-11.67610282
HAS1	0.5	-0.177646384	0.128888269	3.843362522	-13.77143547
MSMB	0.52	-0.178444102	0.131633394	3.94977529	-14.60072484
PTHLH	0.43	-0.200918014	0.108594654	3.970093469	-14.76164215
MUC15	0.31	-0.22234531	0.076962427	3.978982402	-14.83230096
TUBB4A	0.53	-0.179056931	0.121227641	4.356238825	-17.9768167
PEBP4	0.4	-0.360727647	0.089663372	4.460168961	-18.89310716
IGF2	0.21	-0.112294401	0.045924998	4.494707146	-19.20239232
ACTG2	0.55	-0.174512926	0.109593586	4.997354215	-23.97354915
MUC13	0.38	-0.163015847	0.075070351	5.002156924	-24.0215739
KRTDAP	0.23	-0.151190812	0.044932733	5.145002903	-25.47105487
NPY	0.38	-0.115893927	0.074345133	5.162327624	-25.6496265
PADI4	0.5	-0.166621822	0.071184896	7.011766778	-48.16487335
HAND1	0.32	-0.204862338	0.041900666	7.723363036	-58.65033658
GFRA3	0.53	-0.097260958	0.066821828	7.939013765	-62.02793956

SMTNL2	0.59	-0.232997537	0.064514181	9.135507184	-82.45749151
SFTA3	0.26	-0.110959871	0.02237636	11.80098009	-138.2631312
SERPINA6	0.48	-0.249152831	0.040077197	12.01079592	-143.2592185
NCAN	0.37	-0.13929034	0.011853026	31.0200788	-961.2452885
NKX2-1	0.27	-0.109687306	0.003020858	89.0093803	-7921.669782
DEFA3	0.54	-0.265493269	5.55E-17	9.77596E+15	-9.55693E+31
INS	0.49	-0.215801525	2.78E-17	1.78E+16	-3.16438E+32