

	RMSE	Observed Mean	Observed Stdev	RMSE:Stdev	Calculated R^2
FAM163A	0.415	-0.065791256	0.530842838	0.781627276	0.389058802
BPI	0.982	0.160468252	1.244019953	0.789574342	0.376572359
CRABP1	1.328	0.341930062	1.656896056	0.801367092	0.357810785
DSG1	0.329	-0.033281764	0.397113084	0.827979654	0.314449693
SMTNL2	1.422	0.208983342	1.670141868	0.851217275	0.27542915
LAMP5	0.773	-0.042433851	0.90379023	0.855586193	0.267972267
VGLL1	1.269	0.35409593	1.462112286	0.868213464	0.246205381
MAT1A	0.629	0.095549982	0.715781099	0.878083244	0.228969816
C4BPA	1.04	0.010156146	1.182690038	0.87914837	0.227098144
STC2	0.676	-0.160145875	0.765417692	0.8829284	0.22043744
PNCK	0.642	-0.05351794	0.723507921	0.886717492	0.213732089
HIST2H2AC	0.96	0.248831486	1.081083801	0.887739982	0.211917724
EPS8L3	0.84	0.062774912	0.93540751	0.897515285	0.194466313
FGF8	0.651	0.000240119	0.721227636	0.902617342	0.185281934
SOX1	0.912	0.134542625	1.00708016	0.905646734	0.179803994
FABP7	0.82	-0.008640754	0.900211915	0.910432545	0.171112581
PPP1R1A	0.659	-0.078717132	0.72247389	0.91275182	0.166884116
SFTPD	0.643	-0.119396089	0.703925456	0.913166451	0.166127032
FOLH1	0.826	0.30355391	0.902754401	0.915055693	0.162673078
SFTPB	0.99	0.130714467	1.081418	0.915898877	0.161129248
SCGB1A1	0.625	-0.08092872	0.680977958	0.917644239	0.15792905
FOXE1	1.023	0.13314727	1.112325599	0.920002551	0.153595306
HAND1	1.176	0.18770385	1.277220486	0.920810842	0.152107393
BHLHA15	0.734	-0.11066561	0.796501899	0.921266832	0.151267425
ANXA10	0.551	-0.074748581	0.598129868	0.921477269	0.150879643
SFTPA1	1.016	0.141901117	1.102298025	0.921514683	0.150810689
ALPPL2	0.745	0.122744391	0.807366543	0.922139234	0.149659232
RHCG	0.384	-0.000940958	0.413859522	0.927306995	0.140101737
IL36G	0.767	0.169821407	0.826585304	0.928276343	0.138303032
OR51E1	0.792	0.022040592	0.850984081	0.930590517	0.13400129
KRT13	1.04	0.143186397	1.117108942	0.930804201	0.133603539
UTS2R	0.698	-0.129743752	0.748435802	0.933015712	0.129481681
TRPV6	0.972	0.195611228	1.040025933	0.934537167	0.126640284
DMRT2	0.56	-0.071109095	0.598740667	0.93555337	0.124739891
HR	1.417	0.412419841	1.507663959	0.940077357	0.116254563
ADRA2C	1.346	0.073125231	1.430887906	0.940526369	0.11541015
KLK1	0.837	0.077432251	0.889689106	0.940872638	0.114758679
UPK2	0.519	0.007134709	0.550880094	0.941737995	0.113129548
POSTN	0.844	0.024891533	0.892981342	0.945146168	0.106698721
COMP	0.608	-0.097518541	0.642550407	0.946274256	0.104565033
LYPD6B	0.701	-0.055520966	0.740614354	0.946280136	0.104553905
SPRR3	0.952	0.151055603	1.006187237	0.946509034	0.104120648

TP63	1.027	0.090248438	1.082344418	0.949268995	0.098888375
PRSS57	1.609	0.191317882	1.693077589	0.950138765	0.097236328
P2RX3	0.848	-0.302055634	0.892258067	0.950455835	0.096633707
GLYAT	0.89	-0.101256461	0.934046576	0.952389574	0.0929541
LEFTY1	1.107	0.122482022	1.16175156	0.95271023	0.092343217
GDNF	0.688	0.018270477	0.722025396	0.952861591	0.092054789
HOGA1	0.948	-0.128743033	0.994682074	0.953040408	0.09171398
SLC27A6	0.711	0.073802278	0.744203719	0.955247718	0.087501798
LRRC14B	1.143	0.061879102	1.195224152	0.956002235	0.086059726
CILP	0.542	-0.149522238	0.56655932	0.956119549	0.085835407
PRG4	1.715	0.20722776	1.791487569	0.957251915	0.083668771
MMP1	0.695	0.023089209	0.725483337	0.958380355	0.081507095
TFR2	1.069	0.12403613	1.115282519	0.958628812	0.0810308
C18orf42	0.951	0.010088922	0.990616885	0.9597639	0.078853257
TRIM31	1.359	0.17751671	1.414467878	0.960504925	0.077430288
DSG3	0.726	0.116971404	0.755730573	0.960868937	0.076730886
PKP1	0.86	0.177236057	0.895045286	0.960955269	0.076564971
LGALS4	0.987	-0.136739731	1.025691908	0.96243282	0.073723067
CRYAB	1.178	0.253457688	1.22360258	0.962604824	0.073391952
LMX1B	0.888	-0.223223918	0.921021816	0.96372584	0.071232506
PEG10	1.132	0.089674556	1.173972027	0.96460186	0.069543252
CTSE	0.756	-0.086323271	0.783119854	0.965088953	0.068603313
MS4A3	1.1	-0.091210757	1.139069584	0.965506588	0.067797028
CCR9	1.118	-0.089012858	1.158101832	0.965736229	0.067353536
ASIC4	1.375	0.160085908	1.41949571	0.96886765	0.061295477
SFRP2	0.833	-0.161237031	0.860119172	0.96890333	0.061226338
PLA2G2A	0.641	-0.10886316	0.660018012	0.971563839	0.056063706
GPRC5D	1.826	0.30490297	1.878254464	0.972444641	0.05435142
FCRL3	1.268	0.084069484	1.301989461	0.97356465	0.052171872
FAIM3	1.283	-0.027716657	1.317303992	0.973966087	0.051390061
KLK8	1.066	0.230333984	1.094585189	0.974249278	0.050838345
KCNK15	0.885	-0.162596165	0.907191951	0.976061871	0.047303224
CES1	0.843	-0.100241633	0.863264877	0.976653302	0.046148327
PEBP4	0.606	-0.16300424	0.619708101	0.977842115	0.043824797
CCL13	1.151	0.07660574	1.176228168	0.978861871	0.041829438
SLAMF7	0.875	-0.037618998	0.893939907	0.979018698	0.04152239
CD70	1.368	-0.015818796	1.39760783	0.979159869	0.041245951
TSPAN32	1.4	0.022367677	1.429842909	0.979404354	0.040767112
VPREB1	1.324	0.053109054	1.350660979	0.980110591	0.039383229
TMEM179	0.722	-0.00311051	0.736072036	0.980481377	0.038656269
C8orf46	1.174	0.139326157	1.196763289	0.980982221	0.037673881
MLPH	1.023	-0.170265983	1.041429323	0.982319265	0.035048862
DAPL1	1.098	0.088442432	1.115261571	0.984178916	0.031391862

CALML5	0.883	0.037784003	0.897381067	0.984266483	0.031219491
SLC22A2	0.762	0.007303299	0.773670767	0.984659583	0.030445506
PLA2G2D	0.803	-0.027935389	0.814854501	0.984843283	0.030083708
C11orf21	1.563	0.102137272	1.586020027	0.985577977	0.02863605
NKX3-1	1.705	0.146585162	1.729522277	0.985839779	0.02811993
TCERG1L	1.092	0.09671696	1.108023173	0.985884034	0.028032672
VSTM1	0.853	-0.098042727	0.86451388	0.986963313	0.025903419
TBX3	1.454	0.38690137	1.471619728	0.987786923	0.024276995
MMP17	1.1	-0.030553539	1.111151143	0.989650435	0.020592017
BRINP2	1.069	0.011264399	1.077864163	0.991676977	0.016576774
GPA33	1.191	0.095348943	1.199715143	0.992797749	0.014352629
AMHR2	1.858	0.204520278	1.87061222	0.993229487	0.013495186
BTB	1.108	-0.125143233	1.115369526	0.993780534	0.012400251
MUC3A	1.152	0.335308574	1.157389586	0.995243768	0.009489842
NDNF	0.958	-0.012819436	0.962673472	0.995485974	0.009007676
MEF2B	0.967	0.128739357	0.971066948	0.995554979	0.008870284
C1orf228	1.39	0.068336413	1.394111068	0.997108014	0.005775608
LRMP	1.394	0.073894203	1.398027054	0.99719494	0.005602252
DPPA5	1.205	0.144573693	1.208601571	0.997227486	0.00553734
GBP6	1.417	0.307771084	1.421086686	0.997275209	0.005442158
HLA-DOB	1.34	0.100183842	1.342782559	0.997657887	0.004678741
AIM2	1.641	0.32357895	1.644530856	0.99770964	0.004575475
GZMK	0.952	-0.090083982	0.952587116	0.998921734	0.002155369
MRGPRF	1.001	0.108082209	1.001374966	0.999610879	0.00077809
HIST1H1B	0.753	-0.130615367	0.753082664	1.000377287	-0.000754717
PTCRA	1.438	0.137178856	1.43691039	1.000448571	-0.000897343
TRABD2B	1.113	-0.103409923	1.112319833	1.000506071	-0.001012397
P2RX5	1.318	0.044611399	1.317142361	1.000560153	-0.00112062
SFTPA2	0.773	-0.021745683	0.771987948	1.000803357	-0.001607359
TLR10	1.256	-0.063742776	1.254964433	1.000903944	-0.001808705
CCL20	1.858	0.253875729	1.856619742	1.000995069	-0.001991127
BMP6	0.318	-0.0721533	0.317235387	1.001024984	-0.002051019
CLCNKB	1.116	0.066128262	1.114545988	1.001177895	-0.002357177
ST6GALNAC1	1.347	0.152367898	1.345478912	1.001392949	-0.002787839
DPPA4	1.652	0.2220167	1.648800399	1.001656411	-0.003315566
SLC3A1	1.752	0.276655294	1.749237899	1.001864765	-0.003733007
CTNND2	1.288	0.198427793	1.285454966	1.002293214	-0.004591686
SH2D1A	1.149	-0.044855428	1.145899711	1.002356264	-0.00471808
FAT2	1.693	0.413129732	1.689028678	1.002587644	-0.005181983
DUSP5	0.842	-0.036370025	0.839623868	1.00283034	-0.005668691
CHAD	1.429	0.224698344	1.424708899	1.002874834	-0.005757932
RNASE3	0.718	0.209197066	0.715702851	1.003453826	-0.006919581
EYA1	1.33	0.055494953	1.325654054	1.003492472	-0.00699714

FCRL2	1.728	0.220793759	1.722204862	1.003508107	-0.007028521
BNC1	1.052	0.262231372	1.048522435	1.003541924	-0.007096393
PTGER3	1.517	-0.004693936	1.511394856	1.003861892	-0.007738697
AICDA	1.487	0.19182393	1.481605574	1.003921343	-0.007858063
CLEC17A	1.276	0.061918144	1.270346086	1.004315534	-0.008649693
SOX17	1.405	0.093397847	1.398765931	1.00443213	-0.008883903
RAB37	1.098	-0.071373597	1.092042921	1.005317682	-0.010663641
CAPS	1.084	0.352697904	1.078261466	1.005696425	-0.011425299
HOXD11	1.283	0.042415594	1.275690852	1.005755501	-0.011544128
KRT6B	2.033	0.398511041	2.019445962	1.006796823	-0.013639843
SERPINC1	1.421	0.250763464	1.410982765	1.006939541	-0.013927239
DEFB1	1.882	0.433288058	1.869079565	1.007175493	-0.014402473
IL21R	0.987	-0.045914093	0.980023582	1.007419789	-0.014894631
HIST1H3G	1.063	0.116374759	1.054674421	1.008008575	-0.016081287
MS4A1	1.426	0.107369675	1.413966868	1.008390563	-0.016851527
TXNDC5	1.079	0.117481249	1.069576521	1.008398733	-0.016868004
CD22	1.53	0.084754658	1.516621621	1.008534926	-0.017142696
CYP4B1	2.001	0.217153042	1.983486414	1.008739398	-0.017555172
ZBED2	0.919	-0.09577209	0.9101913	1.009928392	-0.019955357
PAX5	1.288	0.124734768	1.275523425	1.009985982	-0.020071684
KRT6A	1.924	0.421414716	1.903447548	1.010643961	-0.021401216
BLK	1.408	0.14159879	1.392841865	1.010728201	-0.021571496
SDR16C5	1.281	0.383974848	1.266869927	1.011184778	-0.022494656
ASCL2	1.074	0.024743274	1.062509392	1.01126446	-0.022655809
FAM43B	0.884	-0.048814285	0.874457444	1.011328098	-0.022784523
CD8B	1.52	0.108715314	1.501881346	1.011837322	-0.023814767
HIST1H3F	0.763	0.102994097	0.754045605	1.012061431	-0.024268341
POU2F2	1.594	0.120065341	1.574237204	1.012817261	-0.025798805
SLC7A8	1.157	0.182288295	1.142070587	1.013488413	-0.027158763
CD19	1.625	0.226648671	1.603317914	1.013497177	-0.027176528
PAX2	1.518	0.208050149	1.497608759	1.013601019	-0.027387026
FOXJ1	0.818	-0.195581051	0.807410243	1.013684928	-0.027557133
KLK7	1.625	0.445035991	1.603020453	1.01388372	-0.027960197
CFTR	1.648	0.285928402	1.625172396	1.01410649	-0.028411972
KHDC3L	1.214	0.292222634	1.196989175	1.014417876	-0.029043627
NTS	1.784	0.274436331	1.757934673	1.014654405	-0.029523562
FAM129C	2.028	0.291251485	1.997469272	1.015414301	-0.031066203
CD3D	1.493	0.093549487	1.46972364	1.015508771	-0.031258064
GFRA1	0.967	-0.141256843	0.9516933	1.015760383	-0.031769156
CORO2B	0.914	-0.054536026	0.899423808	1.015847141	-0.031945413
MLC1	2.2	0.414998949	2.165270384	1.015860703	-0.031972967
PCDH18	0.902	0.021782238	0.888050682	1.015964963	-0.032184805
TCL1A	1.685	0.235971793	1.656908882	1.017146588	-0.034587182

ITIH1	0.973	-0.124308838	0.956596789	1.017554181	-0.035416512
TNFRSF13C	1.507	0.190456049	1.480872627	1.017559039	-0.035426397
LYG1	1.146	0.22337652	1.126343901	1.017802296	-0.035921513
VSTM2A	0.833	0.041869651	0.818850025	1.01784976	-0.036018134
GALNT9	0.921	0.083713983	0.90424495	1.018007492	-0.036339254
IL18RAP	1.65	0.150403845	1.620527812	1.018034847	-0.03639495
GFRA3	2.203	0.428327454	2.163559472	1.018424884	-0.037189244
GNG3	1.5	0.133263513	1.472607503	1.018491054	-0.037324028
IRF4	1.087	0.027894561	1.067297191	1.018504557	-0.037351533
HAS1	2.014	0.331165436	1.977114732	1.018747139	-0.037845733
CLECL1	1.5	-0.014553582	1.471562384	1.01923515	-0.038840291
NEFM	0.901	-0.079680539	0.883987822	1.019419637	-0.039216395
CDHR5	1.052	0.153216708	1.031787397	1.019611843	-0.039608311
HOXB13	1.623	0.39908597	1.591085398	1.02008576	-0.040574958
RTN1	0.958	-0.143364547	0.938874659	1.020394303	-0.041204533
FCRLA	1.764	0.261523776	1.728384892	1.02045629	-0.041331039
PLAC8	1.921	0.248742421	1.88238047	1.020739443	-0.04190901
FCRL5	1.004	0.121281005	0.983341707	1.020806939	-0.042046806
FOXN1	1.613	0.25520814	1.580340663	1.020831239	-0.042096418
IL36RN	1.809	0.310466547	1.771942344	1.020967421	-0.042374474
POU2AF1	1.139	0.136623876	1.115575857	1.021279889	-0.043012611
NDUFA4L2	2.087	0.468760105	2.042580755	1.021519763	-0.043502627
TNFRSF17	1.044	0.127132695	1.021076686	1.022070559	-0.044628227
FOXA1	1.071	-0.288990877	1.047661458	1.022279182	-0.045054725
PHGR1	1.942	0.302430473	1.899311123	1.022303107	-0.045103642
VRTN	2.045	0.367516818	1.999229245	1.022907527	-0.046339809
TNF	0.722	-0.360883625	0.70530034	1.023302984	-0.047148998
TNFRSF13B	1.875	0.278893262	1.831205474	1.023809213	-0.048185305
HEPACAM	0.763	-0.097653793	0.744850376	1.023852962	-0.048274887
EEF1A2	1.579	0.325975049	1.542333418	1.02406858	-0.048716457
BBOX1	1.383	0.211235609	1.349414403	1.024590867	-0.049786445
CD79B	1.725	0.24756799	1.683652926	1.02477531	-0.050164435
C10orf99	0.989	0.129769468	0.964220383	1.025656816	-0.051971903
C1orf61	1.013	0.128762688	0.987534909	1.025951883	-0.052577267
CCR2	1.045	-0.025024077	1.018548922	1.025991515	-0.052658588
RGL4	1.614	0.168202424	1.570677587	1.027383643	-0.05551715
LTB	1.743	0.240031318	1.69538364	1.028180033	-0.05715418
HP	0.931	-0.000141006	0.905189119	1.028188957	-0.057172531
TMPRSS11D	1.243	0.362294572	1.208177991	1.028471536	-0.0577537
HIST1H3B	0.891	0.110513231	0.866618174	1.028589544	-0.05799645
TMEM238	1.167	0.221601431	1.13395227	1.0287413	-0.058308663
MSMB	0.901	0.053968748	0.875213438	1.029649242	-0.060177563
CCNA1	1.963	0.537311907	1.904892794	1.030345652	-0.061612162

STK32A	0.68	-0.066134582	0.660273947	1.03039518	-0.061714227
FAM3D	1.77	0.461776421	1.717100149	1.031012379	-0.062986525
ICAM3	1.08	0.001054966	1.047036381	1.031482532	-0.063956215
DAAM2	0.664	-0.035059864	0.643575613	1.031978846	-0.064980338
GATA3	1.12	-0.250049574	1.084983356	1.032196084	-0.065428756
HSD3B2	1.155	0.13434504	1.119158415	1.032199049	-0.065434878
SPNS3	1.992	0.259368449	1.929802667	1.032373538	-0.065795122
MXRA8	1.359	0.22094262	1.315039071	1.033414452	-0.06794543
PTGDS	1.517	0.200929375	1.466416063	1.034573445	-0.070342213
DCX	1.466	0.071414118	1.41679097	1.034708025	-0.070620698
HIST1H2BG	1.013	0.03320709	0.978342229	1.03498115	-0.071185981
INSC	0.807	-0.013536015	0.779268735	1.03500897	-0.071243568
AHSP	1.662	0.426935602	1.605248437	1.035513526	-0.072288263
SHISA2	1.604	0.188667238	1.548916287	1.035582282	-0.072430663
STMN2	1.608	0.303729446	1.55246763	1.035805969	-0.072894005
HEPACAM2	0.751	-0.0785055	0.724827268	1.036397364	-0.074119496
SLC45A3	1.794	0.447114241	1.730398128	1.03689143	-0.075143837
SLC26A4	2.088	0.427207829	2.013737627	1.037008854	-0.075387363
PMEL	1.285	0.126742302	1.238148555	1.037607385	-0.076629086
CXCL8	1.061	0.140486124	1.022264214	1.038344681	-0.078159676
PNOC	1.29	0.155235964	1.242590475	1.038552923	-0.078592174
S100P	1.714	0.390112408	1.649825947	1.039006507	-0.079534521
AL138751.1	1.716	0.249266436	1.651280063	1.039160365	-0.079854265
IGLL1	0.768	-0.009721496	0.73916636	1.039253395	-0.08004762
DNER	2.036	0.42284353	1.956924728	1.040384921	-0.082400783
TMEM213	0.682	0.046134683	0.655039957	1.040618512	-0.082886888
GPR64	1.097	0.059327088	1.053218569	1.041218059	-0.084135047
DLX5	1.583	0.356158894	1.520499452	1.041236352	-0.084173141
GAPT	1.418	-0.083766172	1.358254146	1.04414583	-0.090240515
C2orf88	2.034	0.438286401	1.947262546	1.044411549	-0.090795483
KLK6	0.961	0.274916141	0.919773285	1.045041513	-0.092111764
CDX1	1.429	0.313097346	1.366937879	1.045564875	-0.093205907
REG4	0.695	-0.012695264	0.664552911	1.046253093	-0.094645535
SPX	1.137	0.187661601	1.086363512	1.046611413	-0.09539545
F2	1.94	0.355399115	1.853017077	1.047108129	-0.096435434
CA9	1.867	0.587967655	1.782713952	1.047228455	-0.096687436
AXIN2	0.95	-0.115324002	0.906532272	1.047470274	-0.097193975
TRABD2A	1.31	0.008630427	1.249126928	1.048336393	-0.099009194
NAPSA	1.18	0.297318074	1.125118218	1.048447885	-0.099242967
DSC3	1.364	0.41037887	1.300705614	1.048454545	-0.099256933
PTPRN	1.414	0.257726847	1.348488226	1.048514327	-0.099382295
GYG2	1.113	0.062354181	1.061730775	1.048699614	-0.099770881
SLC28A1	1.033	0.072911514	0.984578376	1.048843276	-0.100072218

FAM19A3	1.997	0.468919287	1.903307652	1.049014185	-0.10043076
NCAN	2.246	0.537750201	2.140271537	1.049209819	-0.100841245
KRT5	1.76	0.56164433	1.677642471	1.049275534	-0.100979147
PVALB	0.831	0.060000473	0.791741156	1.04949761	-0.101445233
LRRC26	1.845	0.280349912	1.757409375	1.0495982	-0.101656382
GATA4	1.52	0.067965383	1.448052039	1.049796453	-0.102072594
CPNE5	1.08	0.185402594	1.028791079	1.050185722	-0.10289005
DACH1	1.201	0.159900592	1.143836583	1.050365947	-0.103268623
C16orf89	1.328	0.18322213	1.263483671	1.050720641	-0.104013866
F7	0.853	-0.198734948	0.811017238	1.051228958	-0.105082322
CYP11B1	0.699	-0.181669216	0.664824852	1.051915911	-0.106527083
HIST1H4C	1.193	0.359013188	1.131911585	1.053541476	-0.109949642
EFHD1	1.321	-0.076864013	1.253589412	1.053624735	-0.110125083
TUBB4A	2.11	0.513522809	1.999699413	1.054967949	-0.112957374
KRT17	2.015	0.577981936	1.90990288	1.054995614	-0.113015745
TGM1	1.474	0.365462743	1.39559378	1.056002165	-0.115140573
DES	0.556	-0.066155066	0.525828624	1.056583433	-0.116368551
HSPB2	1.125	0.050330722	1.064391161	1.057073889	-0.117405207
SCRG1	2.016	0.45473407	1.906722461	1.057157683	-0.117582366
S100B	2.107	0.441371456	1.991924034	1.057572992	-0.118460633
MTRNR2L8	2.051	0.358622616	1.937293685	1.058502295	-0.120427109
SHISA8	1.45	0.242106365	1.369676834	1.058567016	-0.120564127
ATP6V1G3	1.559	0.284153059	1.472923429	1.058755765	-0.12096377
ACTG2	2.238	0.43528386	2.110960265	1.060121472	-0.123857536
SERPINE2	2.064	0.20081987	1.94606175	1.060814855	-0.125328157
KLHDC8A	1.408	0.456378064	1.326712858	1.06133512	-0.126432238
SPINK2	2.002	0.484701511	1.886069365	1.061609453	-0.12701463
ARG1	1.259	0.200106184	1.1852039	1.062204283	-0.12827794
ABCB5	0.829	-0.038129111	0.780089304	1.062564951	-0.129044274
S100A1	0.543	-0.119809836	0.51013312	1.063938145	-0.131964377
PTPRN2	1.315	0.305401895	1.235682943	1.063991867	-0.132078693
SOX8	2.241	0.578937592	2.106259388	1.064148276	-0.132411554
NAT8	0.714	-0.062831778	0.670630478	1.065228159	-0.134711031
FLT3	0.952	-0.192486701	0.89265997	1.065927567	-0.136201577
APOB	1.147	0.138402839	1.07408294	1.067651621	-0.139879985
MIA	1.999	0.474354275	1.869144083	1.069343602	-0.143495739
BSND	1.495	0.097617829	1.397977039	1.069727468	-0.144316857
SPON1	1.203	0.113645911	1.123735091	1.070229086	-0.145390297
UTF1	1.04	0.061423883	0.970758932	1.071574252	-0.148271377
ZCCHC12	0.95	0.310978772	0.886411768	1.072170059	-0.149548634
HAND2	2.029	0.396556993	1.892100311	1.072270014	-0.149762983
CCL25	1.161	0.137458705	1.081121943	1.074031283	-0.153543198
IGFBP1	1.197	0.197187738	1.114432543	1.074300863	-0.154122344

SLC24A2	0.798	-0.067663792	0.742818791	1.074496296	-0.15454229
FCN1	1.698	0.135884369	1.579576457	1.074751823	-0.155091481
TMEM119	1.151	0.044511433	1.069972902	1.075892336	-0.157544319
FABP1	1.914	0.488503816	1.776486244	1.07729403	-0.160562427
RGS20	2.166	0.67922674	2.010172239	1.07758453	-0.161188419
SLC4A1	1.238	0.361076386	1.148036633	1.078350101	-0.162838939
CD177	0.586	-0.131844774	0.542783459	1.079706313	-0.165765723
KIF26A	0.964	0.176486552	0.8920881	1.080520451	-0.167524446
CACNG7	0.879	-0.072310201	0.813567125	1.080555934	-0.167601127
SNX22	2.01	0.453642109	1.858005862	1.081726039	-0.170131224
KREMEN2	1.092	-0.001405821	1.007730155	1.083134793	-0.17318098
SLC6A17	1.834	0.368851476	1.692747594	1.083188195	-0.173296666
PTPRZ1	0.638	0.126151169	0.589020212	1.083315312	-0.173572066
HIST1H2AH	0.869	-0.009937102	0.801550026	1.08436253	-0.175842097
DPEP1	1.187	-0.05841041	1.094132572	1.084803349	-0.176798306
RAB3B	1.318	0.110678839	1.213625869	1.085907998	-0.17919618
GPM6B	1.05	0.093360273	0.967261483	1.085948184	-0.179283458
GFAP	0.764	-0.198228893	0.702449991	1.087421937	-0.182486469
PLP1	1.081	-0.032842214	0.993641547	1.087462454	-0.182574589
ANXA8	0.809	0.051536492	0.743658401	1.087744648	-0.183188419
APOD	0.9	-0.092462994	0.827169043	1.088609666	-0.185071005
NOX1	1.107	0.112195705	1.017031268	1.088800925	-0.185487453
HNF4A	0.345	-0.03425108	0.316493826	1.089420056	-0.186836059
ANXA13	0.67	-0.195515928	0.614264193	1.090353824	-0.188871461
MIXL1	1.225	0.1355969	1.12365956	1.090390466	-0.188951367
LCN12	1.397	0.102580958	1.280687141	1.090894991	-0.190051881
SAA1	0.665	-0.185282636	0.609457715	1.091599858	-0.19159025
FGF9	1.106	0.143505516	1.012559327	1.092390426	-0.193316842
SPDEF	1.154	0.137722334	1.05581701	1.092541919	-0.193647845
CYSLTR1	0.817	-0.27082044	0.747807777	1.092547686	-0.193660446
MEP1A	0.932	-0.033294516	0.852358485	1.093656621	-0.196084804
MMP12	1.114	0.177629816	1.018020012	1.094129975	-0.197120403
MFAP5	0.715	-0.06529057	0.653066979	1.094589526	-0.198126231
HOXD8	0.779	-0.287679038	0.710459457	1.095829218	-0.200841675
DMGDH	1.087	-0.024588296	0.991644433	1.096550241	-0.202422431
PAX9	1.397	0.148791562	1.273694166	1.096910035	-0.203211625
PNMAL2	1.342	0.299928523	1.223469289	1.096942043	-0.203281845
MMP25	1.533	0.376258459	1.397153313	1.09750901	-0.204526027
HIST1H2BO	0.552	0.000633768	0.503098788	1.097571818	-0.204663897
ITIH5	0.824	-0.029747614	0.750720849	1.097921498	-0.205431615
TRPS1	0.708	-0.257417073	0.64307265	1.101490501	-0.213281324
KLK5	2.158	0.732527333	1.958419571	1.101814302	-0.213994757
P2RX1	0.798	-0.049093255	0.722622366	1.104636759	-0.22022237

FAM101A	1.868	0.41398301	1.690425574	1.105202856	-0.221473353
LZTS1	1.279	0.354094885	1.155029654	1.107059373	-0.225580456
GAPDHS	0.875	0.132202962	0.787942313	1.110758291	-0.233783981
APOA2	0.697	-0.045291319	0.625559427	1.113504609	-0.239892514
HIST1H2AB	0.756	0.064090074	0.677705513	1.115219593	-0.243714741
CYP17A1	0.859	-0.033562578	0.769585601	1.116040659	-0.245546752
RXRG	1.277	0.093730074	1.144359938	1.116245811	-0.246004711
CEACAM3	0.864	-0.289526438	0.773580526	1.117436949	-0.248665335
CTSV	1.696	0.570934427	1.513457448	1.120328102	-0.255135056
BEX1	0.637	-0.100794143	0.568159306	1.120349202	-0.255182334
MAB21L2	0.815	0.037390156	0.726902304	1.120781191	-0.256150477
SERPINA5	0.993	0.035042104	0.88598334	1.121058155	-0.256771387
SCARF2	1.061	0.324092162	0.94519431	1.123032187	-0.261201292
PENK	1.345	0.103966564	1.19704007	1.12363105	-0.262546736
TSPAN8	1.222	0.144978141	1.087036946	1.124368062	-0.264203539
HOXC10	1.094	-0.061856408	0.970952688	1.126428281	-0.268840673
RNASE2	0.741	-0.204572491	0.656248891	1.128722345	-0.274014133
CD1C	1.068	-0.200533577	0.945660749	1.128884842	-0.274380986
CHST4	1.325	0.208460492	1.173563023	1.129086062	-0.274835335
ELANE	1.263	0.086187428	1.11786165	1.129547534	-0.275877632
ITLN2	0.293	-0.067942899	0.258857238	1.131108389	-0.279406187
APOC3	1.263	0.052510233	1.115426861	1.132605256	-0.282794666
DERL3	1.267	0.129365126	1.117117665	1.133903404	-0.285736929
NANOGP8	1.46	0.109760109	1.285956323	1.135344477	-0.289007081
ARPP21	0.642	-0.186649623	0.565463171	1.13542576	-0.289191656
EDNRB	1.42	0.196599978	1.248072383	1.13736363	-0.293596028
FOXC1	0.936	0.168438701	0.822629691	1.13789145	-0.294796952
CD1E	0.938	-0.282002071	0.824332029	1.13828918	-0.295702257
FAM166B	0.962	-0.30769759	0.844681824	1.139290639	-0.297983161
SLC7A4	0.697	-0.227511131	0.610359302	1.14126738	-0.302491233
AZGP1	0.862	-0.307553692	0.755286626	1.141286076	-0.302533907
PRPH	0.567	-0.17811402	0.496935334	1.141688996	-0.303453764
CRP	0.623	-0.036824484	0.544531739	1.143460987	-0.307503029
CXCR2	0.962	-0.217600845	0.84092656	1.144545265	-0.309983863
PTHLH	0.578	-0.075647956	0.504547233	1.145352626	-0.311832638
SPINK1	1.039	0.105374649	0.906954185	1.145716312	-0.312665868
MLANA	0.743	-0.228129377	0.648610237	1.14579852	-0.312854248
CDO1	1.085	-0.067159315	0.943446224	1.149880752	-0.322225744
MEOX1	0.946	-0.165587697	0.821891876	1.150633743	-0.323958011
SCG5	1.491	0.304518147	1.292199693	1.154022187	-0.331767208
GATA6	1.436	0.288763385	1.242613235	1.155737225	-0.335728534
TLX2	0.959	0.007151656	0.828515169	1.156961812	-0.338560635
CALB2	0.764	0.050656456	0.660005921	1.15770147	-0.340272694

ATCAY	0.881	-0.027391324	0.761299765	1.157741122	-0.340364506
CHRNA3	1.389	0.332760426	1.198476049	1.158598231	-0.34234986
MAB21L1	0.815	-0.219443262	0.701296078	1.162677839	-0.351819758
HIST1H3D	0.909	-0.005495285	0.781814193	1.163067836	-0.352726791
CPA4	1.663	0.215726686	1.428001645	1.16443675	-0.355912944
PRAC2	1.039	0.208815546	0.891980686	1.164540341	-0.356154206
ESR1	0.749	-0.321767764	0.639651751	1.170545496	-0.370176758
CD1B	0.972	-0.102130855	0.82990195	1.171620789	-0.372695274
C1QTNF4	0.962	0.017396091	0.820615559	1.171878349	-0.373298864
GPRC5B	1.043	0.04955383	0.888708185	1.173721248	-0.377621569
PLG	1.219	0.136875212	1.035768074	1.177218417	-0.3858432
MECOM	0.961	-0.160345726	0.815763163	1.177602311	-0.386747203
SNCA	0.824	-0.350013439	0.699771375	1.177917247	-0.38748904
BHMT2	0.764	-0.089939388	0.646979833	1.180222216	-0.392924478
TCF21	0.603	-0.316474635	0.510993896	1.180282886	-0.393067691
TMEM100	0.714	-0.094557437	0.604214819	1.181677262	-0.396361152
MGAM	0.671	0.047632976	0.567584391	1.182102409	-0.397366105
HIST1H4D	1.225	0.078105698	1.032945748	1.186302448	-0.407313498
KCNJ16	0.588	-0.225222107	0.491816324	1.194854865	-0.427678148
PRDM14	1.06	0.235941314	0.885077807	1.197121493	-0.43309987
GNG7	1.671	0.22259335	1.391506892	1.201142163	-0.442742497
GCG	0.983	-0.001762068	0.817371579	1.202052886	-0.444931142
GOS2	0.512	-0.138750686	0.426147225	1.202093475	-0.445028722
MT1H	0.968	-0.050541564	0.804795461	1.202746903	-0.446600114
KL	0.867	-0.129546412	0.717446256	1.208142167	-0.459607495
ADRB1	0.386	-0.194212049	0.318084259	1.212268122	-0.469593999
HRG	1.238	0.022705776	1.017564866	1.216891879	-0.480825845
RASGRP3	0.871	-0.042439086	0.714179939	1.21976344	-0.48782285
FGF18	0.748	-0.178834529	0.613110365	1.220036223	-0.488488385
HSPB6	0.534	-0.133755024	0.436889921	1.221883206	-0.492998568
KLK4	0.491	-0.070658309	0.401707285	1.22267024	-0.494922515
SLC26A7	0.435	-0.059268312	0.355545996	1.223784236	-0.497647857
HIST1H2AI	0.96	0.112904797	0.784015874	1.22476817	-0.50005707
SP7	0.576	-0.173793585	0.468400624	1.228754416	-0.509837414
HMP19	0.286	-0.095140181	0.232647334	1.230864646	-0.515027777
SLC30A2	1.067	0.042596943	0.866662825	1.231028428	-0.515430991
MMP9	0.512	-0.206935175	0.415093431	1.234391872	-0.523723294
HIST1H4L	1.853	0.750426904	1.50015993	1.235006271	-0.52524049
VENTX	0.84	-0.207200366	0.678235537	1.238691233	-0.534355972
ENPEP	1.364	0.586093914	1.100901254	1.238921266	-0.534925904
AR	1.032	-0.360425625	0.82968557	1.244140367	-0.547885253
PGLYRP1	0.714	-0.096725776	0.571090556	1.25007343	-0.562683581
CA14	0.492	-0.227798968	0.392875704	1.252630133	-0.569082249

HIST1H2AJ	0.498	-0.062917865	0.396323689	1.256309599	-0.578313808
RNF186	0.821	-0.174113029	0.651606394	1.259325484	-0.585900675
HIST1H2BH	0.48	-0.078818772	0.380888544	1.261261714	-0.590781112
SLC18A1	0.666	-0.319269593	0.527488586	1.261798709	-0.592135982
CYP11A1	1.023	-0.086015873	0.806308074	1.269143038	-0.61072405
CFHR1	0.829	-0.121208783	0.648374618	1.279063196	-0.63600266
NEFL	1.06	-0.055107899	0.827239929	1.281379019	-0.64193219
AMPD1	0.635	-0.22263895	0.495079555	1.283630554	-0.647707398
SNCG	1.004	-0.164962829	0.779403061	1.28823462	-0.659548435
SHISA3	0.836	-0.196983252	0.648962645	1.288724287	-0.660810288
DLX3	0.963	0.069370411	0.745374356	1.292306847	-0.670056988
FOXD1	0.761	-0.06294301	0.588960124	1.292579255	-0.670761132
RBP5	0.727	-0.240067864	0.558782802	1.301152441	-0.692997675
UPK3B	0.776	-0.043892352	0.594746487	1.304478693	-0.701664662
CLDN10	0.72	-0.138924758	0.548617851	1.312907432	-0.723725926
PHOX2B	0.553	-0.108894245	0.417486645	1.32347429	-0.751584196
APOH	0.789	-0.158764935	0.594376755	1.327700651	-0.762789019
NLRP7	0.633	-0.052956106	0.475754467	1.329651908	-0.767974197
HIST1H3J	0.602	-0.089975791	0.451256198	1.334784034	-0.781648417
IGJ	0.653	-0.234949918	0.48737515	1.339483601	-0.794216318
S100A14	1.395	0.04291335	1.031754017	1.352038119	-0.828007075
CLRN3	0.803	-0.218706983	0.592435381	1.355577495	-0.837590345
DBH	0.503	-0.321832965	0.367234041	1.368454737	-0.872668367
TUBB2B	0.481	-0.154151597	0.350939111	1.369608337	-0.875826998
SERPINB10	0.72	-0.040941131	0.523702715	1.374753423	-0.889946974
HIST1H2BL	0.491	-0.001792065	0.357040016	1.375957111	-0.893257972
IFITM5	0.764	-0.179542792	0.551284236	1.386640044	-0.922770613
HIST1H2AM	0.62	-0.16164287	0.44467274	1.394835018	-0.945564729
NPW	0.548	-0.165210044	0.387359865	1.4152148	-1.002832931
SERPINA6	0.899	-0.073630128	0.634774764	1.415664202	-1.004105133
SPOCK3	0.697	-0.29688517	0.491771742	1.418102869	-1.011015747
DEFA4	0.463	-0.150777092	0.325717648	1.422745395	-1.02420446
MAG	0.833	-0.370446424	0.580893704	1.433547007	-1.055057021
AGXT	0.653	-0.180991549	0.45110028	1.44769011	-1.095806656
HIST1H1D	0.465	-0.205414608	0.317818751	1.461829974	-1.136946872
MAL	0.394	-0.076096794	0.267346888	1.473020514	-1.169789436
HOXA5	0.538	-0.110278508	0.361415055	1.489135584	-1.217524786
RSPO1	0.333	-0.046618483	0.222135725	1.500294629	-1.250883972
PIGR	0.456	-0.19249366	0.300625479	1.517774464	-1.303639325
INSM2	0.635	-0.058967694	0.41777855	1.521041013	-1.313565763
TTR	0.661	-0.309022871	0.434229224	1.522011633	-1.316519411
DKK1	0.819	-0.115124272	0.535233063	1.530398939	-1.342120914
HOXB6	0.815	-0.240503074	0.528023601	1.544158244	-1.384424682

CLDN6	0.484	-0.108162919	0.312302332	1.551137562	-1.406027737
PADI4	0.355	-0.085703952	0.22831264	1.555252957	-1.41881176
F13B	0.612	-0.146155891	0.393070692	1.558071898	-1.42758804
REEP6	0.8	-0.526336227	0.512829074	1.560010322	-1.433632205
SOX18	0.956	-0.174669178	0.612298255	1.560986508	-1.436678877
STAR	0.755	-0.03604492	0.482831175	1.564582119	-1.447917206
CPB1	0.65	-0.156810583	0.415668943	1.564685953	-1.448242131
NNAT	0.733	-0.257714881	0.465201521	1.576591342	-1.485640261
TMEM252	0.709	-0.380298835	0.449724356	1.576844502	-1.486438585
RAB44	0.562	-0.156242442	0.35608577	1.577004286	-1.486942519
RAB3C	0.575	-0.186138322	0.363869528	1.580808875	-1.498956699
MGP	0.53	-0.222041544	0.33286098	1.590771848	-1.530555073
TM4SF4	1.246	0.090293725	0.783191813	1.590834722	-1.530755111
CNTFR	1.018	0.024145351	0.634728839	1.60326324	-1.570453017
FAM19A4	0.734	-0.120708095	0.452375726	1.622931158	-1.633905542
NTRK1	0.527	-0.273285165	0.322195882	1.634682511	-1.672186912
MTRNR2L12	0.66	-0.320639279	0.401591742	1.64362537	-1.701504357
BHMT	0.417	-0.082849332	0.25140814	1.656939427	-1.745448265
EPHX3	0.702	-0.083789827	0.412617348	1.700293872	-1.89099925
ADH1A	0.427	-0.233754326	0.251337311	1.700686566	-1.892334795
ATP1A3	0.311	-0.154145657	0.182399234	1.705719651	-1.909479528
STEAP2	0.694	-0.336997351	0.406500668	1.708118243	-1.917667933
CLC	1.093	-0.0692826	0.631784721	1.729619612	-1.991584001
NANOG	0.448	-0.111751828	0.255357378	1.754263276	-2.07743964
RAB38	1.218	0.011710493	0.693551266	1.756764139	-2.086220241
MB	1.011	-0.204507949	0.573373581	1.764037122	-2.111826966
MUC13	0.398	-0.120166161	0.221572861	1.797809395	-2.232118621
TMEM151A	0.373	-0.140224075	0.206073393	1.811111796	-2.280125938
EMR3	0.75	-0.434889489	0.413027517	1.814955095	-2.294061998
STMN4	0.624	-0.311338616	0.339087748	1.841176695	-2.389931623
KRTDAP	1.194	0.042802381	0.633148015	1.88649953	-2.558880476
NPY	0.489	-0.059769148	0.256780952	1.904628593	-2.627610076
HNF1B	0.514	-0.109208034	0.269520451	1.907305881	-2.637815724
ATP6V0D2	0.693	-0.293735175	0.355856907	1.947416659	-2.792431642
UPK3A	0.615	-0.160686355	0.311585263	1.973820766	-2.895968414
C7	0.703	-0.412823787	0.352697974	1.993901485	-2.975643133
SNAP91	0.501	-0.086869256	0.250999959	1.99417987	-2.976753352
SLC22A31	0.719	-0.044144697	0.356958182	2.012965727	-3.052031019
CDH15	0.559	-0.224460866	0.271447793	2.060106799	-3.244040022
HABP2	0.618	-0.384958946	0.29582707	2.088707445	-3.362698791
ACSM2B	0.573	-0.138812211	0.272595698	2.101379842	-3.415797241
KRT20	0.431	-0.177167261	0.201812266	2.137568324	-3.56919834
RBP4	0.793	-0.155032272	0.364316884	2.175637314	-3.733397723

CRISP3	0.642	-0.151884813	0.293490643	2.18651665	-3.780855059
AC234582.1	0.56	-0.217414928	0.251808182	2.222096617	-3.937713373
SPIB	0.613	-0.086721689	0.275424557	2.224576425	-3.948740269
BMPER	0.361	-0.11761039	0.158947718	2.269397856	-4.150166629
GIP	0.419	-0.129244625	0.184141517	2.274238165	-4.172159232
KRT16	1.084	0.00501004	0.447637353	2.42240068	-4.868025054
G6PC	1.082	-0.299192719	0.411693039	2.628963606	-5.911449643
HPX	0.688	-0.293604305	0.255517581	2.690911217	-6.241003176
DCDC2	0.489	-0.192951805	0.178039946	2.747949732	-6.551227729
DRD2	0.369	-0.211609786	0.12809265	2.87708176	-7.277599456
MUC15	1.094	-0.056172309	0.380027561	2.879828164	-7.293410252
TH	1.01	-0.165393354	0.344165144	2.936054087	-7.620413602
GJB1	0.579	-0.323613245	0.193850822	2.985762955	-7.914780425
DDC	0.66	-0.152472333	0.220307159	2.993645849	-7.961915467
AGT	0.669	-0.360472419	0.209234692	3.195311631	-9.210016416
KNG1	0.455	-0.342660133	0.130740413	3.4768269	-11.08832529
TCN1	0.395	-0.210341915	0.113313179	3.485592736	-11.14935672
KCNQ2	0.364	-0.094063538	0.101433492	3.584352274	-11.84758123
CST1	0.832	-0.506823178	0.211196759	3.939961255	-14.52329469
REG1A	0.283	-0.095522646	0.070908428	3.988458017	-14.90779735
SYP	0.39	-0.183558862	0.089659539	4.350348064	-17.92552828
CPB2	0.316	-0.103721055	0.064542392	4.89089016	-22.92080656
OCA2	0.601	-0.091329868	0.121481331	4.945672084	-23.45967236
ELAVL3	0.346	-0.132662253	0.069717655	4.960516693	-23.60672586
TNR	0.496	-0.262264774	0.079032417	6.274341106	-38.36735632
ISL1	0.566	-0.106336722	0.0851301	6.646545853	-43.17657178
BCHE	0.368	-0.120232115	0.05251209	7.002673373	-48.03743437
RUNDC3A	0.453	-0.224651017	0.061679606	7.3435958	-52.92839927
NR1H4	0.323	-0.104533289	0.043689806	7.403540741	-53.8124155
ORM2	0.868	-0.250368494	0.110230378	7.873971868	-60.99943297
NDP	0.474	-0.273410874	0.058972005	8.033724479	-63.540729
SFTA3	0.332	-0.099336468	0.040327498	8.229370242	-66.72253457
GCCR	0.292	-0.124791096	0.035358447	8.266859137	-67.34095999
CLDN16	0.516	-0.144287254	0.057478676	8.979259153	-79.62709494
VTN	0.465	-0.150982615	0.050002764	9.302356409	-85.53383476
AMER2	0.339	-0.186513275	0.031821294	10.63916596	-112.1918524
AOC1	0.331	-0.124805365	0.030289827	10.9153548	-118.1449704
LGR5	0.561	-0.116743318	0.044418417	12.63217016	-158.5717231
CPLX2	0.388	-0.161963694	0.028233619	13.74317457	-187.8748474
CDK5R2	0.333	-0.169813564	0.022253044	14.96378562	-222.91488
C8B	0.49	-0.127774104	0.031206119	15.71201396	-245.8673826
NKX2-1	0.326	-0.102801441	0.01803894	18.08462956	-326.0538264
SLC4A4	0.442	-0.202537075	0.023309819	18.9805361	-359.2607508

LIN28A	0.335	-0.170681459	0.013588191	24.67583362	-607.8967649
IGF2	1.057	-0.113417266	0.036175563	29.22939874	-853.3577505
CHGA	0.417	-0.119431028	0.013980359	29.81756086	-888.0869355
ORM1	0.697	-0.253404712	0.013763406	50.64618492	-2564.036047
UGT2B4	0.34	-0.109563847	0.002050723	166.0051034	-27556.69435
DEFA3	0.517	-0.265493269	5.55E-17	9.31212E+15	-8.67156E+31
INS	0.495	-0.215801525	2.78E-17	1.79E+16	-3.18687E+32