

Supplemental Table 1. List of differentially expressed genes in transgenic epidermis compared to normal epidermis as identified by RNA-seq analysis.

Gene ID	Fold Change (TG/WT; log2)
Sprr2f	8.74388
Lce3a	8.51545
Lce3b	7.91593
Eif2s3y	7.77623
Sprr2g	7.66355
Pitx1	7.30439
Snord82	7.261192291
Mir3061	7.230231839
Lce3d	7.11761
Krt24	7.09545
Klk12	6.75883
Sprr2e	6.75752
Lce3f	6.74301
Hs3st1	6.3679
Oas1e	6.10455
Aknad1	5.78007
Spink7	5.7281
Lce3e	5.72359
Ptgs2	5.53501

Sprr1b	5.4016
Nptx1	5.25176
Defb3	5.15043376
Sprr2d	5.07832
Defa-ps12	5.031853906
Il33	4.95411
Otud7a	4.84596
Nppb	4.80635
Meox1	4.63716
Sprr2i	4.62066
Il20ra	4.61083
Sh2d5	4.5835
S100a9	4.55551
Lrat	4.44982
Mmp13	4.39814
Sprr2j-ps	4.38237
Casp4	4.34017
Esr1	4.31886
Pde1b	4.31683
Serpinb6c	4.31001
Epgn	4.26855
Dnmt3l	4.20641
Mmp12	4.13267

Krt6b	4.1278
Gm5077	4.11236
Krt6a	4.10377
Spr2h	4.09061
Akr1b8	4.01454
Lce3c	3.89865
Mmp9	3.89669
Lox	3.86466
Gm12505	3.84395
Gm5414	3.83489
Bmp6	3.81786
Tie1	3.76902
Pla2g4e	3.73949
Ifi204	3.68234
Cdhr1	3.67326
Ear5	3.66945
Dpep1	3.66706
Fgfbp3	3.66685
Gpr128	3.665
Ifi202b	3.65865
S100a8	3.57016
Krt84	3.51608
4732456N10Rik	3.50794

Dram1	3.41095
Zbtb16	3.39995
Rgs5	3.39886
B3galt5	3.37274
St3gal1	3.33859
Col3a1	3.29765
C1s	3.27552
Gda	3.26659
Pdk4	3.24795
Krt16	3.17335
Hspa4l	3.16153
Tbkbp1	3.1597
Abcg4	3.11771
Slc16a9	3.08383
Gapdhs	3.06904
Tle6	3.06241
Tubb3	3.05969
Col1a1	3.04834
Kcnq2	3.04628
Thbs2	3.02366
Dpt	3.01411
Bcl2l15	3.01311
Gpx2	3.00799

Sprr1a	3.00242
Ptpn5	2.98923
Gem	2.9782
Cxcl1	2.97491
Cd101	2.96591
Ada	2.95284
Etv4	2.95222
Gjb6	2.94922
Sprr2b	2.92263
Cxcl12	2.88564
Adh7	2.88523
Slco2b1	2.87018
Cd80	2.86791
Fez1	2.86382
Tmem8	2.84301
Olf1033	2.83961
Nrg1	2.83504
Elk3	2.82782
Gpr116	2.81533
Nt5e	2.80316
Hyal1	2.76566
Lyz2	2.7615
Beta-s	2.75728

AI607873	2.75696
Odc1	2.75653
Cdh5	2.75292
Cnga3	2.73909
Aldh1a3	2.7249
Bdkrb2	2.72016
Ly6c1	2.70458
Procr	2.69919
Ggt7	2.6904
Has2	2.68233
Piezo2	2.67976
Best2	2.67354
Mfap4	2.66744
Hbegf	2.6624
Rap1gap	2.66095
Sparcl1	2.65513
Slc6a20a	2.64526
Dusp6	2.64454
Sgpp2	2.62841
Acot4	2.6052
Arhgap22	2.60503
Wdr92	2.59362
Atxn1	2.58742

Tifa	2.56406
Aqp1	2.55007
Gm11596	2.54506
F13a1	2.54425
Fgd5	2.53764
Klhl29	2.52949
Afap1l1	2.5211
Socs3	2.503
C1ra	2.46523
Ggact	2.45621
Pecam1	2.45135
Msi1	2.43905
Itga7	2.43431
Fbln5	2.42933
Nat8l	2.42786
Clcf1	2.42166
Trpc1	2.4173
Fscn1	2.41673
Fchsd1	2.4136
Icosl	2.41004
Dnaaf3	2.40809
9530077C05Rik	2.406
Ltb4r1	2.40039

Lum	2.38976
Angptl4	2.38934
Ppp2r2c	2.36857
Fbln7	2.35967
Duox1	2.35801
Nat6	2.34446
Otop2	2.32795
Gfpt2	2.32695
Tbx2	2.32634
Ntn1	2.316
Igfbp6	2.31122
Kcnh2	2.30893
Nos1ap	2.3089
Ccdc71l	2.29689
Adarb1	2.28506
Pde8a	2.27473
Fam110c	2.27145
Spire2	2.26366
Anxa3	2.25673
Pdgfra	2.24547
Gsta4	2.23768
Matn2	2.23197
C1rl	2.23184

Tns4	2.22977
Stx11	2.22484
Ethe1	2.21413
Adamts2	2.20959
Krtap4-8	2.1941
Heg1	2.19135
Nxph3	2.1844
Ddr2	2.18347
Dhrs9	2.17637
Gm11595	2.1758
Foxq1	2.17263
Scrg1	2.16732
H2-Q5	2.15974
Serpinb6e	2.15124
Eif4e3	2.14429
Akr1b10	2.13617
2610528A11Rik	2.1323
Agmo	2.13052
Xrcc2	2.12928
Slc16a3	2.12457
Stom	2.12263
Nlrc5	2.12057
Dsg1c	2.11649

Oaf	2.11311
Thbd	2.11219
Casq2	2.11195
Serpinb11	2.10811
Fam167a	2.09963
Eln	2.0953
Col1a2	2.08926
Ncmap	2.08708
Pear1	2.08503
Prss12	2.07856
Wipi1	2.0763
Krtap4-9	2.05754
Slc16a2	2.05604
Acta1	2.05539
Pmaip1	2.05361
Serinc2	2.04925
Zfp365	2.0466
Col6a2	2.04539
Krtap1-4	2.04178
Axl	2.03756
Flnc	2.03506
S1pr3	2.03246
Lypd3	2.03198

Spry4	2.02951
Ngfr	2.02628
Defb4	2.026166196
Cdo1	2.02101
Fzd1	2.01678
Tpm2	2.01256
Gjb2	2.01128
Tcf23	2.01074
Fbn1	2.01066
Ehf	2.00015
Crlf1	1.99264
Gm11564	1.98765
Casp1	1.98535
C2cd4b	1.97592
Plvap	1.96638
Capg	1.95551
Gm7694	1.94877
Gm11567	1.94789
4930539E08Rik	1.94686
Sat1	1.94046
Ccl22	1.93733
Gcnt4	1.9344
Artn	1.93341

Trp63	1.93254
Adcy2	1.92763
Gm20752	1.925
Ret	1.92339
Slc39a6	1.92246
Phlda1	1.92105
Gm11568	1.92029
Dnase1l3	1.92018
Pcbp3	1.91964
Klk13	1.90782
Ror2	1.90764
Olfml2b	1.90653
Pmepa1	1.89641
Rab31	1.88492
Tspan3	1.88299
Gpm6a	1.87838
H2-K1	1.87598
Gstm5	1.87275
Sqrdl	1.87168
Slfn10-ps	1.86966
Cd274	1.8683
Prl2c3	1.865902982
Enpp2	1.86442

H2-D1	1.8597
Fam171a1	1.85884
Irf4	1.85876
Gyk	1.85637
Krt75	1.85391
Plaur	1.85376
Phyh	1.85294
Atp12a	1.85104
Cd14	1.85021
Trib2	1.84802
Oca2	1.84546
Arntl2	1.84522
Smim3	1.84294
Bdnf	1.84234
Areg	1.83907
Lrp8	1.83387
Kif21b	1.82623
Pxdc1	1.82595
Pinlyp	1.82586
Klk6	1.82547
Gm5416	1.81913
Ccr4	1.81642
Kdm5d	1.815333593

Rnf152	1.81435
Serpine1	1.8085
Slc7a8	1.79851
Crip2	1.7982
Nod2	1.79547
Dusp7	1.7946
Zyx	1.79091
Zfp92	1.78781
Synpr	1.78524
Ifitm3	1.78128
Mill1	1.77834
Abcc4	1.77764
Serpinb2	1.77469
Bcl3	1.77113
Cnksr3	1.7697
Mgat5b	1.76182
Dnajb13	1.76141
Igf1r	1.75806
Id3	1.75308
Mapk11	1.7528
Runx2	1.74564
Nmb	1.7448
Ar	1.74397

Tnfaip3	1.7395
Fam211b	1.73396
Lama2	1.72459
Id1	1.72081
Trp53inp2	1.71959
Klhl21	1.71916
Zranb3	1.71907
Krtap4-16	1.71658
Lhfp	1.71611
Prl2c5	1.712080676
Fabp5	1.71155
Cstb	1.71082
Fblim1	1.70478
Cd34	1.70051
Ptprcap	1.7003
Syp	1.70027
Scn4b	1.69844
Car5b	1.69319
Ifi203	1.6902
Ly6a	1.68985
Lmod2	1.68863
Phyhipl	1.68559
Tbc1d2	1.68397

Arid5a	1.68384
Grik3	1.68188
Trpm6	1.68036
Helz2	1.6772
Osgin1	1.67107
Bcar3	1.6702
Slc25a45	1.66592
Mapk6	1.65983
Chn2	1.65472
Trps1	1.65425
Capn2	1.65204
Gch1	1.65012
Il1r2	1.64899
Trnp1	1.6426
Apoe	1.63951
S100a7a	1.63722
Lonrf3	1.63522
Fzd5	1.63476
Slc38a2	1.63435
Gipc2	1.6336
Srgn	1.63212
Tyrp1	1.62959
Trim13	1.62943

Tinagl1	1.62923
Ltb4r2	1.62768
Sgms2	1.62249
Osmr	1.60671
4632428N05Rik	1.60464
Irx5	1.60374
Slc6a9	1.59997
Tle2	1.59045
Il31ra	1.5898
Krtap4-7	1.58677
Tox3	1.58622
Myl9	1.58579
Abat	1.58078
BC037704	1.57218
St3gal6	1.5714
Pbx1	1.56937
Capns1	1.56794
Atp1b1	1.56636
Smtn	1.5649
Mrpl28	1.56479
Cdcp1	1.55074
S100a6	1.54684
Slit3	1.54381

Xylt1	1.54331
Ldlrap1	1.54062
Duoxa1	1.5342
Eya2	1.53101
Apobec1	1.52986
Ehd3	1.52677
Fermt3	1.52416
Dyrk3	1.52018
Prkca	1.5185
Optn	1.51299
Fam212a	1.51268
Tmprss2	1.51059
Rnd3	1.50888
Actbl2	1.50254
Hdgfrp3	1.50158
S1pr4	1.48835
Col15a1	1.48656
Pdlim7	1.4854
Foxp1	1.47828
Fmnl2	1.47171
Foxn1	1.46796
Map4k4	1.46447
Maff	1.46147

Hccs	1.46129
Stc1	1.45974
Gm11559	1.45952
Prkg2	1.45843
Irs2	1.45778
Zcchc10	1.45733
Slc7a11	1.45551
1190003J15Rik	1.45449
Fabp4	1.45422
Tenm3	1.45247
Ccdc88b	1.44989
Orai2	1.44524
Prss22	1.44263
Hmgcs2	1.43701
Etv5	1.43596
Adamts20	1.43567
Nkpd1	1.43496
Krtap9-1	1.43488
Pard3b	1.43363
Pcdh7	1.43122
Krtap1-3	1.42963
Zfp36	1.42627
Mdm2	1.42381

H2-Q4	1.4234
Rfng	1.42249
Krtap4-6	1.41923
Xdh	1.41488
Gprc5a	1.41394
Fam83c	1.4134
Krtap26-1	1.41187
Lipn	1.4115
Cyp3a13	1.41101
Ptges	1.40892
B4galnt3	1.40624
Lrrc8c	1.4054
Ggt1	1.40308
Krtap2-4	1.40183
9930013L23Rik	1.40029
Gm11563	1.40012
Gpr56	1.39979
Mark4	1.39688
Slpi	1.39662
Crip1	1.39629
Zfp36l2	1.39577
Serpib6a	1.3948
Avpi1	1.39251

Slc6a6	1.39197
Tmem2	1.39154
Rhoc	1.38616
Aldh3a1	1.38411
Cyp27a1	1.38321
Car2	1.38044
Rptn	1.37905
Mlf1	1.37852
Uhrf1bp1l	1.37711
4930523C07Rik	1.37696
Junb	1.37604
Wfikkn1	1.37417
Sipa1l2	1.37288
Eaf1	1.37208
1600029D21Rik	1.371
Ccdc85b	1.36854
Rhof	1.36745
Tgm2	1.36543
Lysmd3	1.36211
Dsc2	1.35546
Sgk1	1.35405
Wnt11	1.34939
Fmo5	1.34904

Pglyrp3	1.34861
Myadm	1.34825
Zdhhc13	1.34719
Klf13	1.34243
Dusp26	1.34228
Cdc42ep1	1.34209
Pitpnc1	1.34062
Mmp2	1.33731
Slco1a5	1.33555
Slc23a2	1.33481
Eva1b	1.33345
Sesn2	1.33328
Carhsp1	1.33316
Arhgef28	1.33212
Gm11938	1.33187
Ehd4	1.32967
Ablim3	1.32644
Serpinb1a	1.32613
Syt12	1.32508
Pdpn	1.3249
St3gal2	1.32189
Dsg3	1.32186
Tgm6	1.32053

Cdk18	1.32005
Nudt22	1.31913
Filip1l	1.31833
Slc35d1	1.31763
Map3k5	1.31655
Ldlr	1.3158
Tnfrsf4	1.31152
Hr	1.30991
Gatsl2	1.30821
Bicd2	1.30578
Krtap3-3	1.30361
Aqp9	1.30141
Tmem173	1.30122
Krtap13-1	1.30098
Nqo1	1.30097
Dlx2	1.30029
Id2	1.29954
Dkk3	1.2985
Prdx6	1.29801
Gm11562	1.29725
Nfkbiz	1.29596
Acta2	1.29229
Hagh	1.29077

Abl2	1.288
Kif26b	1.28744
Slc6a2	1.28741
Wdr61	1.28716
Slc6a17	1.28111
Stbd1	1.27873
Fam115a	1.27663
Mgat4a	1.27304
Nxpe4	1.27261
Itga3	1.27182
Ccdc68	1.27018
Cdkn2b	1.26639
Cgref1	1.2647
Irf5	1.26368
Unc45a	1.26365
Impdh1	1.2622
Slc5a1	1.25948
Msrb3	1.25894
Samd4	1.25782
Bok	1.25477
Tm4sf1	1.25461
Abca1	1.25346
Glis2	1.25341

Pi15	1.25214
Fads3	1.24333
Stx3	1.24054
Mfhas1	1.23916
Krt39	1.23762
Krt17	1.23723
Dzip1l	1.2368
Spred1	1.23613
2310042E22Rik	1.23415
Krtap4-1	1.23096
E130012A19Rik	1.22811
1810037117Rik	1.22498
Arc	1.22271
Prrg4	1.22198
Nkd2	1.2189
Tubb6	1.21813
Pdzrn3	1.21739
Dip2b	1.21728
Smad7	1.2153
Slc4a7	1.21414
Fndc1	1.21372
Plcg2	1.21296
Cyp2j6	1.21237

Pck2	1.21235
Chka	1.20887
Dnahc7b	1.20804
Wnt5a	1.20749
Pstpip2	1.20461
Cd36	1.20278
Rnf122	1.20203
Ippk	1.19763
Sdc1	1.19607
Srxn1	1.19306
Abcg1	1.1928
Pvr	1.18696
Mlph	1.18663
Krtap19-9b	1.18385
Porcn	1.18273
Cyp2b10	1.18038
Cpd	1.17958
Slc20a1	1.17626
Ddx58	1.17471
Abcg2	1.17378
Mlana	1.16939
Col6a3	1.1663
AU018091	1.16454

Efna5	1.16168
Luzp1	1.15591
Spry2	1.15516
ler2	1.15427
Dab2ip	1.15323
Nlr1	1.15312
Tgfbr3	1.15225
Eva1a	1.1519
Ece1	1.14944
Gnb5	1.14737
ler3	1.14713
Trpv3	1.14658
Msx2	1.14246
Atp11b	1.13796
Icam1	1.13793
Dio2	1.13273
Gm9696	1.13229
Ankrd9	1.13053
Trim16	1.13018
Macf1	1.12846
Tiparp	1.12768
Plekhb2	1.12592
Gpnmb	1.12521

Osbpl8	1.12488
Prickle2	1.12472
Ypel3	1.1246
Parp8	1.12423
Tmigd1	1.12377
Map7d1	1.12265
Cdk17	1.1209
Has3	1.12033
Slc45a3	1.11932
Elk4	1.11895
Fstl1	1.11854
Zc3h12a	1.11778
Acvr1	1.11561
Gm15645	1.11449
Crebrf	1.10545
Lzts1	1.10518
Krtap24-1	1.10511
Atp1b3	1.10504
Nbeal2	1.10449
Thy1	1.10022
Frat1	1.09975
Ier5l	1.09935
Itga5	1.09856

Scnn1g	1.09806
Prkce	1.09665
Emb	1.0955
Trib1	1.09391
Hoxc13	1.09158
Slc27a6	1.0896
Tmem38a	1.08659
Itiprip	1.08579
Reep4	1.08502
Tmtc3	1.08331
Slc39a14	1.08314
Rap1gap2	1.08279
Ets1	1.08041
Rassf1	1.08019
Dock5	1.07604
Rgs12	1.07532
Parva	1.07488
Smad6	1.07313
Dusp2	1.07292
Nr4a1	1.07235
Ripk3	1.07197
Fbxo33	1.06452
Tanc2	1.06437

Bmp7	1.06212
Ppard	1.0589
Hmcn1	1.05338
Igf2bp2	1.05247
Fam84b	1.05245
Fhl3	1.0517
Shb	1.05024
Atp8b1	1.04967
Mst1r	1.04605
2010111101Rik	1.04523
Mpzl2	1.04521
Pxdn	1.04458
Tmc7	1.04441
Slc22a15	1.04294
Bace2	1.03995
Crot	1.03985
Rhob	1.03908
Slc52a3	1.03903
Rtkn	1.03786
Fam101b	1.03757
Wdr62	1.03701
Npc1	1.03667
Slc16a7	1.03636

Zfand2a	1.03593
Krt25	1.03405
lpmk	1.03366
Pex5	1.02975
Rgs2	1.02945
Asap1	1.02938
Slc7a6	1.02936
Cldn25	1.02901
Krtap4-2	1.02899
Snn	1.02766
Tle4	1.02567
Tfap2c	1.02316
Smpdl3b	1.02186
Stk17b	1.02108
Cyp4f17	1.02059
Qpctl	1.0201
Desi2	1.01973
Plxnb2	1.01577
Il1r1	1.01361
Rerg	1.01326
Bcl10	1.01297
Myh14	1.01119
Rab11fip5	1.0096

Dcbld2	1.00911
Krtap3-1	1.00902
Scap	1.00101
1700017B05Rik	1.00028
Baz1a	1.00008
Smurf1	0.996752
Fam198b	0.995526
Mir22hg	0.994597
Slc25a13	0.993195
Pard6g	0.993083
Csrp1	0.992896
Rabgap1l	0.990751
Bambi	0.988153
Gclm	0.987782
Zfp628	0.987246
Dmxl2	0.986757
Sertad4	0.986739
Krtap17-1	0.986547
Tbcel	0.986293
Rnf39	0.984567
Slc29a3	0.98306
Itpripl2	0.982836
Krtap6-5	0.982742

Pcdh1	0.981664
Sgms1	0.976917
Krtap9-3	0.976697
Pi4k2b	0.976566
Ripk4	0.97542
Lrp1	0.973369
Ptgds	0.972862
Fosb	0.972101
Btbd3	0.971818
Cadm1	0.971805
Unc5b	0.969675
Prdx1	0.967888
Maf	0.967455
Zdhhc18	0.966766
Ppp2r1b	0.966255
Arhgef4	0.961623
Slc24a6	0.960468
Krtap6-1	0.959203
Tmem64	0.959065
Gli2	0.958955
AI661453	0.958241
Snx25	0.958123
Kcnj15	0.95582

Krt32	0.9555
D16Ertd472e	0.951249
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Trim8	0.904529

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Mn1	-1.65687
Itgam	-1.66018
Mocos	-1.66648
Tmem119	-1.67221
Lonp2	-1.67522
Naga	-1.67806
Pm20d2	-1.68105
Csta	-1.68373
Wnk4	-1.68479
Fut2	-1.68654
Fcamr	-1.68775
Krt7	-1.68785
Arsb	-1.69265

Scd2	-1.69611
Apbb1ip	-1.70182
Ctnnbip1	-1.70357
Elovl1	-1.70973
Lyst	-1.7101
Lce1d	-1.71068
Scara3	-1.71129
Tead4	-1.71202
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Gjb5	-1.71482
Coro1a	-1.72786
Ptprm	-1.73183
Avil	-1.73282
Col27a1	-1.73304
Akap17b	-1.73911
Ttll11	-1.73911
Tlr2	-1.73985
Ttc30a1	-1.74355
Sema3d	-1.74455
Hiatl1	-1.74473
Hsd17b2	-1.74661
Eps8l1	-1.74732
Mfsd7c	-1.75086

Clca2	-1.75135
Ncf4	-1.75314
Camk1	-1.75402
Ccr1	-1.75463
Slc37a2	-1.76108
Kcnj2	-1.76154
Itgax	-1.76163
Srgap2	-1.76318
Krt23	-1.76386
Slc46a3	-1.77021
Mapk13	-1.77216
Gldc	-1.78062
Nfam1	-1.78398
Pcsk2	-1.78705
Csf1r	-1.78855
Myo1f	-1.79017
Rdh9	-1.79122
Fam3b	-1.79293
Zfp438	-1.79524
Napsa	-1.79557
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Wnt16	-1.79811
Thns1	-1.80069

Slc1a3	-1.80217
Sdr42e1	-1.81193
Ccdc164	-1.81233
C2cd2	-1.81378
Fras1	-1.81566
Rnd1	-1.81621
Per3	-1.81707
Frem2	-1.82332
Plekha2	-1.82363
H60c	-1.82385
Camkk1	-1.82452
Agpat9	-1.82647
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Tmem35	-1.83496
Fam25c	-1.83585
Abca3	-1.83757
Fmnl1	-1.83934
Nrep	-1.83957
Coro6	-1.84209
Ypel2	-1.84576
Gm11992	-1.84754
Slc4a9	-1.85073
Svip	-1.86021

Rab40b	-1.86373
Bcmo1	-1.86891
Kank4	-1.87134
Pon3	-1.87297
H2-DMa	-1.87297
Gpt	-1.87401
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Ngef	-1.87704
Txnrd1	-1.87807
Thop1	-1.87907
Tmem231	-1.8802
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Dusp13	-1.89048
Efemp1	-1.89234
H2-Eb1	-1.89571
H2-DMb2	-1.89638
Vipr1	-1.89742
Gal3st1	-1.90488
Fcgbp	-1.90607
Cryl1	-1.90759
Zbtb3	-1.90887
Rdh1	-1.90981
Rab44	-1.9099

Unc13a	-1.91318
Fhit	-1.91413
Npbwr1	-1.91706
Gsta2	-1.92146
Prkcb	-1.92549
Mgmt	-1.92672
8-Mar	-1.93147
Them5	-1.9317
Zdhhc9	-1.93484
Ddah2	-1.93547
Arrdc2	-1.93706
Sdr16c5	-1.94112
Myo1g	-1.94144
Miat	-1.9445
Arvcf	-1.94862
Lrrn1	-1.95463
2310001H17Rik	-1.95491
Prob1	-1.95866
Xkrx	-1.95991
Ptgs1	-1.9639
Spn	-1.96481
Edn2	-1.96606
Hdhd3	-1.97744

Kctd4	-1.98113
Msrb2	-1.99076
Tmem229b	-1.992
Rhox10	-1.99298
Lat2	-1.99906
Glcci1	-2.00424
Ifi30	-2.00625
Acpp	-2.01101
Rgs11	-2.01192
Lynx1	-2.01628
Skint7	-2.0183
Gan	-2.02028
Guk1	-2.02164
D3Ertd751e	-2.02378
Lipk	-2.03448
Aox3l1	-2.03506
Fam83e	-2.03717
Smcp2	-2.04702
Pdlim4	-2.04831
Amz1	-2.04839
Serpib13	-2.04909
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Yod1	-2.0525

Mafa	-2.06016
Synm	-2.06063
Nrd1	-2.07018
Lym9	-2.07972
Senp8	-2.08185
Fut1	-2.08342
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Prss35	-2.09606
Anxa9	-2.09662
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Il1a	-2.09827
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Rinl	-2.10358
Atp8a1	-2.10743
Fn3krp	-2.11116
Ephx2	-2.11479
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Grb14	-2.12115
Tmprss11f	-2.12147
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Cd74	-2.124
Klf12	-2.12446
Vstm5	-2.12629
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Krt78	-2.14169
Npl	-2.14448
Kremen2	-2.15143
Ccr2	-2.15549
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Csnk2a2	-2.17291
Fgd3	-2.173
Grp	-2.18093
Mad2l2	-2.1828
Clca3	-2.18521
Plagl1	-2.18573

Alox5ap	-2.18593
Arhgap40	-2.18745
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Nckip5d	-2.20473
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Ptgr1	-2.22698
Il1f5	-2.22734
Hck	-2.23364
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Unc93a	-2.24775
Spns2	-2.24887
Tbc1d24	-2.25772
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Arg1	-2.26636
Crtac1	-2.26849
Lpo	-2.26934
Bai2	-2.26979

Nt5c3	-2.27779
Ikzf2	-2.27817
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Chst2	-2.29021
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Sybu	-2.30645
Dach2	-2.3093
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Cyp11a1	-2.31548
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Gas7	-2.3371
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H19	-2.34301
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Lce1a2	-2.35628
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Wdr86	-2.36602
Krt15	-2.36899
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Aox4	-2.38479
Ciita	-2.39262
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Pcsk6	-2.3957
Clic3	-2.39615
Foxi3	-2.39862
Scgb1a1	-2.40255
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Limch1	-2.40883
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Al197445	-2.43405
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Ror1	-2.44238
Comp	-2.44933
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Tjp3	-2.52656
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Asb2	-2.53686
Baiap2l2	-2.53743
Lrrc28	-2.54047
Engase	-2.54129
Cgn	-2.54561
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Srpk1	-2.55356
Hal	-2.56079
Cyp2w1	-2.58114
Ccdc113	-2.58321
Rgs18	-2.58804

Gstm7	-2.59689
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Clec2g	-2.61508
Celf5	-2.62033
Mboat2	-2.62709
Hsbp111	-2.63345
Srcin1	-2.63683
Bnip3	-2.63998
Celsr3	-2.64697
Ache	-2.64787
Xlr	-2.65076
Pnpla3	-2.65269
Ckb	-2.65497
Dapp1	-2.66032
Dusp18	-2.66544
Prss51	-2.675393672
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Arhgef26	-2.73163
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Chd5	-2.7538
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Cobl	-2.76839
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Lefty1	-2.94617
Gpsm1	-2.9541
Rgs9bp	-2.95477
Lce6a	-2.98231
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Creb3l1	-3.00177
Ankrd24	-3.01421
Rnase1	-3.01587
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Myl7	-3.0229
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Dapl1	-3.03723
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Lor	-3.05938
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Penk	-3.07779
Adam19	-3.09462
Krt4	-3.09734
Il1f10	-3.12609
Klk5	-3.12907

Gramd1c	-3.13246
Ecm1	-3.13851
Ano7	-3.15425
Clmn	-3.16
Tdrd1	-3.16265
Lnx1	-3.17732
Chi3l1	-3.18217
Rhpn1	-3.20277
Rtn4r	-3.2332
Arhgap24	-3.28163
Adh1	-3.28829
Slc36a2	-3.28922
Ccl6	-3.30894
Zfyve28	-3.32486
Ugt3a1	-3.32508
Hmox1	-3.32562
Gpr3	-3.3392
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Gad1	-3.38706
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A4galt	-3.48064
Tbc1d9	-3.48876
Ankrd23	-3.50272
Fhad1	-3.5878
Igf2	-3.59154
Irf7	-3.60256
Slc34a2	-3.60829
Susd2	-3.63043
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Fam163b	-3.69641
Pla2g3	-3.70403
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Aldh1a7	-4.00903
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Bsnd	-4.13215
Tfr2	-4.14033
Slurp1	-4.1865
Serpinb7	-4.20237
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Tmc3	-4.30519
Nsg2	-4.34627
Trim15	-4.38616
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Aif1l	-4.4218
Chga	-4.44408
Sod3	-4.45823
Capn9	-4.49873
Serpinb12	-4.50688
Sarm1	-4.5211
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Bicd1	-4.64853

Scara5	-4.65654
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