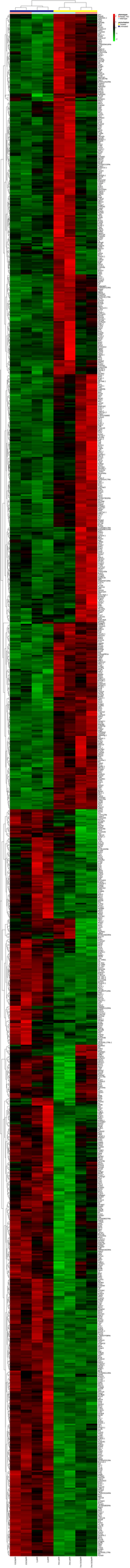

epREDD1

epREDD2

epWT1

epWT2

epWT.FA1

epWT.FA2

epREDD.FA1

epREDD.FA2

Sik1
Rassf5
Atp6v0d1.1
Asb2
Usp2
Fam46b
Klf13
Sidt2
Plcxd1
Tmprss13
Hbs1l
Tsc22d3
Syf2
Mtus1.1
Tead4
Gm14137
Helb
Ubn2
Vasn
C330005M16Rik
Epn3
Aatf
Mapk13 Mapk13.1
Tmem120a
Elovl1
Sdr9c7
Xkrx
Hmox1
Fam53b
Gpr146
Sts
Cpa4
Sh3gl1
Arih1
Chga
Mdk
Plcg2
Alox12b
Prss8
Sec61a1
D5Ertd579e
Gipc1
B230312A22Rik
Caskin2
Cdkn1a
Atp6v0a2
C2cd2
Slc3a2
Asprv1
Smpd3 Atp6v0d1
Lrrc28
Acot7
Slc9a3r1
Ndor1
Gch1
Nt5c3
Gramd4
Gpt2
Sdf2
Ddit4
Ept1
Prkch
Gas2l1
Clic1
Aldh5a1
Gas7
Trex2
Snx9
Nudcd2
Gde1
Yod1
Mpo
Tmc6

Mfng
Cebpa
Lipk
Zfand2b
Samd8
Sdcbp2.1
Rab24
Ppl
Rnf11
Krt80
Lce1e
Lce1e.1
Yod1.1
Emc8
Tob1
Il1a
Gm5560

Atp10d
Rbms1
Slc1a1
Med8
2310002J15Rik
Psapl1
Dnase1l2.1
St14
Csrnp1
Yif1b
Mfn1
Zfand2b.1
Ddx28
Gjb4
Hist1h2bf
Tubb2b.1
Cebpb
Clpp
Arpc4
Adrm1
Hist1h2bm
Tfap2a.1 Tfap2a
Atp1b1
Ifi30
Bag6
Lce1a2

Fgf22
Nploc4
Sars

Golga7
Tmem40
Tppp3
Acot5
Them5
Tex264
Ly6e
Taf10
Lypd5
Srm
Arpc5
Cpsf3l
Kctd5
Kctd5.1
Ttpal
Upf3a
Lmbr1l
Defb8
Agpat1
Smarca4
Tmem54
Creld2
Chic2
Tg
Vamp8
Acot8
Ppap2a
Il10rb
March7
Etfb
Fis1
Adck4
Blmh
Them5.1
Cope
Calml3
Actg2
Mgll
Elovl3
Tmc6.1
Tmem56
Glrx
Mrpl14
Ppa1
Flad1
Glul
Srxn1
Srxn1.1
Dusp14
Usp19
Por
Ivl
Gabarapl1
1190002H23Rik
Reep4
Lmtk2
Nfkbia
Eif4ebp2
Tmem131
2310014L17Rik
Il17rd
Fbxo31
Snx10
Rnf185
Stx17
Atg2a Tmprss13.1
Gm2a
Por.1
Tead4.1
Slc22a23
Rassf1
Fbxo34
Fbxo34.1
Tbc1d8
Slc25a33
Gde1.1
O3far1
Kcnc4
Aifm2
Il1f5
Nus1

Supt3h
Dcaf4
Tmc6.2
Isyna1
Gnmt
Reln
Mup2
Mup1
Socs2
BC021614
Sgpp2
Hilpda
Ces4a
Pdss1
Hilpda.1
Klk6
Plin5
Neu2

Sdcbp2
Sidt2.1
Acadvl
Tmem62
Tmem229b
Tex264.1
Fam3b.2
Il18
Slc30a1
Htra1.1
Nek3
Bmp1.1
Sgk1
Slc10a6.1
Ell
Sycn
Fxyd4.1
Ddb1
Gadd45b
Gnl3
Itpkc
Fxyd4
Rpn2
Nrf1
Mical1
Cldn1
Il6ra
Lemd2
Cln3
Mapk1ip1
Sun1.1
Errfi1
Tjap1.1 Cyp27a1.2 Pnpla7
D16H22S680E
Ambra1
Vdr.2
Sun1

Grip1
Grip1.1
Reps1
Cblb
Smarcd3
Lgmn
Il18r1
Tns4
Anxa3
Tbc1d17
Unc45a
Trnp1.1
Klf9
Galt
Xdh
Bcl2l11
Htra1
Usp54
Lgi3
Clip1.1
Khnyn Gpnmb.1
Nt5c3l
Il11ra1
Vezf1
Pacs2

Lrig3
Nedd4l
Lims2
Sema5a
Sema5a.1
Sectm1b
Lamb3
Serpinb6a
Gne

Figf
Bmp1.2
1810031K17Rik
Clip1
Clip1.2
Snx1
Trnp1 Uhrf1bp1l
Arl8a
Asb13
Aloxe3
Snrk
Dpm2
Porcn
2310007B03Rik
Mtus1
Slc10a6
Nde1.1
Smpd2 Eif4ebp1 Cyp27a1 Pla2g7
Pdk4
Cyp27a1.1
Eif4e3
Vdr.1
Scin
Zyx
Ramp3
Kctd20
Slc7a6
Bmp1
Trim33
1110038D17Rik
8430408G22Rik
Ip6k3
Galnt2
Cxxc1
Gemin4.1
Mfn2
Pik3ca
Rgl2
Cd59a
Plin3
Sh3tc2
Abtb1
Rras2
Prr14
Ovol2
Ovol2.1
Tecpr2
Tec
Rab15
Klk1b22
Klk1b4
Prr15l.1
Pstpip1
Prr15l
Ccl27a.1
Klk1b27
Gsto1
Tmem150a
Bcas3

Chmp3 Arhgef3 Map1lc3b
Mllt3
4930455F23Rik
Ccl27a
F11r
Lrrc49

Ppp2r2d
Adm
Gpnmb Serpina3n
Klf2
Rab11fip5.1 Ranbp10 Mmp14
Tgfbr3
Lims2.1
Vamp1
Glg1
Ddb2
Lama1
Tbc1d2b
Sec11a
Gspt2
Hr
Prmt7
Ccdc101
Eif1b
Rab11fip5
Gemin4
Rapgefl1
Fam3b.1
Calcoco1
Ypel3
Defb14
Nmb
Fntb
Fbxo31.1
Hist1h1c
Degs1
Fbxo4
Scnn1b
Furin
Agpat9
Nsfl1c
Amotl2
Spsb3
Rnf208
Anxa5
Ilvbl
D4Bwg0951e Pttg1ip
Oplah
Tjap1
Nfatc1
Atp6v1c2
Nde1.2
C1qa
Smap2 Vps37b
Prodh
Helb.1
Clock
Mapk6
Btbd3
Gdpd1
Zdhhc13
Rnf185.1
Foxp1
Dnase1l2
Sdcbp2.2
Prss8.1
Rnu6
Hexb
Casp14
Fam3b
Csnk1e
Eps8l2
Rusc2.1
Adh1
Orm1
Orm2

Golga3 Cyp4b1
Get4
Gba2
Suox
Tmprss2
C1qb Cyp2b23 Spsb1
C1qc
Vdr
Ramp3.1
Doc2b
Map3k6 Gadd45g Aqp3
Pnpla2
Hpgd Trp53inp1 Cyp2b10 Gadd45g.1
Dll1
Adora1.1
Cd63
Rusc2

Atg9b
Rhox10
Fhl1
Fhl1.1
Slc29a1
Kcnj15 Cyp2a5 Spink2
Il22ra2
Tle6
Ovol1
Unc45a.1
Mt1
Cited2
Klk11

Eps8l2.1
Nt5c3l.1
Dnajb9
Ilvbl.2
Nde1
Camk2d
Slc6a4
Tgfbi
Cyp26b1
Acsl3
Sesn1
Irs2
Adora1
Papln
Fth1
Ipmk
Abhd2
Klk11.1
Plk3
Palmd
Hs3st3a1
Ppp1r15a
Creb5
Otud5
Ilvbl.1
Clic4
Ptpn14
Trafd1
Oas1f
Ssna1
Vim
Tmem126a
Tspan7
Tmem205
Rps19 Snrnp25
Wdr65
Nt5e
Ndufs8
Hebp2
Fam126b
Hint3
Gm10335

Flg2
Capn10 Syngr1.1
Acly
Alad
Lmo4

Arpc1b Prkag2
Eef1g
Glo1
D14Ertd449e
Acad9
Icam1

Thy1
Aacs
Acss2

Polr3g
Tnfrsf18
Prmt1
Srsf9
Xcl1
Dctd
Agrn
Sae1
Slitrk6
Fkbp4
Rab18
Emp1
Gsta2

Sqle
Gm15453
Kctd12
Tnfrsf18.1
Htatip2
Hs3st6
Pafah1b3
Grhpr
Arhgdib
Hn1
Wfdc3
Panx1
Meis1
Galnt1
Med30
Rb1
Il13ra1
Cdca7
Pcyox1 Rgs9bp
Lypd2
Pnrc2

Igfbp3
Tpm4
Col23a1
Nipa1
Ptprs
Ptprs.1
Moxd1
Ccbl1
Rhou
Clcn3
H47

Myl6
Hsp90b1 Igfbp4
2410015M20Rik
Grcc10
Ift20
Gsta1
Tmem97
Panx3

Rpl35
Pon3
Esrra
Cetn3
Syngr1 Arpc1b.1
Sod2
Iqgap1
Polr3k
Ciita
H2−DMb1
Ptn
H2−Eb1
H2−DMa
H2−Ab1
Sucnr1
Abhd14b
H2−M2
Adam23
Rspo3
Zc3h12d
H2−Ab1.1
H2−Ab1.2
Tmem109

Spred1
Psmb10.1
Cd74
Cd74.1
Rpl12
Col7a1
0610007P14Rik
Hap1
Epn2.1
Ttc3.2
Nceh1
Dhcr24
Dhcr24.1
Cd52
Il15
Hdac3
Dppa5a
1100001G20Rik
Gdpd2
Coro1a
Coro1a.1
Tctex1d2
Alox5ap
Nav1
Nav1.1
Ndufb5
Acoxl
Rab8b
Dctn4

Gbp1
Oas1g
March8
Oasl2
Fhit
Higd2a
Acaa2
Gm14296
Prkcb
Lsm3
1810035L17Rik.1
Fahd1
Rps6ka1
Ncl
Pskh1
Dok4
Mapkbp1 Uap1l1
Taf9b
Poglut1
Zscan12

Ppm1f
Zfp523
Fbxw17
Mum1
Suz12
Ptpre
Cyld
Rbms2
Trim26
Sf3a3
Plekha2
Fam178a
Ivd
Nuak1
Cybasc3
Asns
Hint2
Rplp0
Fam164a
Ilf3
Cant1
Pik3c3
Sri
Nkap
Zfp87
Farsb
Scoc
Ctnna1
Axl
Setd6
Pyy
P2ry1
E2f1

Thyn1
Fgfbp1
Traf3
Dram1
Traf3.1
Pold1
Acbd4.1
AI316807
Notch1
Mcm6

Pdgfa
Antxr1
St5

Tpd52l2
Rpa1
Nfat5
Lamp2.1 Ankmy2
Gstt3
Tctn3

Aagab
Nsun4
Pithd1
Nudt18
Nfic
Hmgn1
Lancl1
Nasp
Rfc2
Serbp1
Mkrn2
Limd1
Psmc3ip
Sfxn1
Med23
Exosc8
Ctnnal1
Ahnak
Arg1
Sh3gl2
Mbnl1
Exosc7

Csnk1g2
Rbx1
Gnl1
Cdk2
Gpn1
Ttc3.1
Tubb5
Ncapd3
Rai14
Epn2
Rreb1
Cops3 Rabgap1 Atp1b3
Extl2
Armcx1
Srsf1
Tef
Slc35b2
Nup85
Siva1
Ssx2ip
Irf2bp1
Ilf2
Acer3
Hsd3b7
Dbp
2510009E07Rik
Rab3d
Ywhaq
Apeh
Dcaf7
Rps5
Ift172
Ntpcr
Rfc1
Lamp2
Bloc1s5
Tmem55a
Mfsd1
Ccdc111
Fam92a

Stambp Epb4.1l3
Cd99l2
Maged2
Atg5
1500001M20Rik
Hdac2
Uba7
Aftph
Fermt1

Pygl
Zfp41
Prcp
Zbtb22
Lamtor1
Gins4
Cd81
Ric8b
Parp1
C2
Mta2
Rras
Gab1
Prkra
Sumo1
Wls
Zfp36l1
Axin2
Gm9294

Elp2
Lbr
Col16a1
Tmx4
Nudt19
Ppp6c
Atmin
Ccdc23
Paip2b
Prmt2
Ptpro
Fut8
Wdr47
Mycl1
Hmgxb4
Mtch1
Ifitm2
Man2a1
Niacr1
Stk30
Nrarp
Slc1a3
Gpha2
Lrp4
Oat
Krt17
Gata3
Rab28
Smad1.1
Mocos
Fam3c
1190007F08Rik
Ppil3
Psip1
Pla2g15
Fdps
Arhgef19
Gja1
Maob
Hmgn3
Irf1
Dlg2
Tubb2b
Cysltr1
Abi2
Sirpa
Psmb10
Ttc3
Rab32
Tmprss7
Polr3k.1
Fkbp9
Btbd11
Igsf9
Ifitm6
2310005G13Rik
Tuba8
Mrps31
Ccnd1.2
Ccnd1
Ccnd1.1
Ssfa2
Mbnl2
Alox12
Tnfaip8
Stard4
Tesc
Alox12e
Twsg1
Slc39a6
Mcm5

Lig1
Mcm4
Aldoc
Ss18
Ndufv3
Ifitm3
Psat1
Fzd10
Ccdc27
Cstf2
Fam83f
Rpl38
Tfrc
Tfrc.1
Arsb
Sh3rf2
Sh3rf2.1
Hat1
Dbi.1
Hmgn3.1
Xrcc6
Il33
Cx3cl1
Thbs2
Cxadr
Plxdc1
Gyltl1b.1
Fen1
Nudt16l1
Atpif1
Gyltl1b
Acbd4
Elp2.1
Paox

Hirip3
Plch2
Stat1
Prom2
Flot2
Mipep
2410042D21Rik
Bloc1s5.1
Gpt
Il15.1
Irf1.1
Clca5
Clca3
Cryl1
Tmie
Daglb
Prickle1
Ppp2r5e Capn5
Commd10
Erlin2
Smtn.1
Smtn
Nup133
Cdkl2.1
Eif2ak2
Irgm2
1700025G04Rik
Rfc4
Itgb5
Tsen34
Frk
Gorasp1
Acer1

Pycard
1810063B05Rik
Mgst3
Cotl1
Nkd2
Emr1.1
Cdkl2
Ncf4
Ffar2
Ccdc126
Mmp9
Ell3
Prdx4
H2−Aa
Cep78
Emr1
Trib2
Lsm5
Gna14
Ckmt1
Fam92a.1
Sorl1
Ifi27l1
Cd109
Arhgef4
Rpl39
Pdpn
Pfn2
Timp3
Smad1
Sfrp1
1810035L17Rik
Dbi
Psmb9

phenotype
Redd1−KO

WildType

perturbation
Treated

Untreated

− 2

− 1012