

Gene Set	Genes
AdaptiveResponse	C1qbp, C3ar1, Camp, Ccl1, Ccl12, Ccl24, Ccl25, Ccl26, Ccl3, Ccl4, Ccl5, Ccl7, Ccl8, Ccr1, Ccr2, Ccr4, Ccr5, Ccr6, Ccr7, Ccr8, Ccr12, Cd28, Cd4, Cd40, Cd40lg, Cd80, Cd86, Cd8a, Cd97, Cklf, Cma1, Creb5, Crp, Csf2, Cxcl1, Cxcl10, Cxcl13, Cxcl14, Cxcl2, Cxcl3, Cxcl9, Cxcr1, Cxcr2, Cxcr3, Fasl, Fcer1a, Fcer2a, Foxp3, Fpr2, Gata3, H2-Q10, Hmgb1, Icam1, Ido1, Ifna2, Ifnar1, Ifnb1, Ifng, Ifngr1, Il10, Il13, Il17a, Il18, Il1a, Il1b, Il1r1, Il2, Il22, Il23a, Il24, Il25, Il2ra, Il4, Il5, Il6, Il6st, Il9, Irf3, Irf7, Itgam, Itk, Jak2, Jam3, Klrb1, Lta, Mapk8, Mbl2, Ms4a2, Mx1, Nfatc4, Nfkbl1, Nod2, Nos2, Pnma1, Rag1, Rorc, S100a8, Sele, Slc11a1, Stat1, Stat3, Stat4, Stat6, Tbx21, Thbs1, Tlr4, Tlr6, Tnf, Tnfrsf11a, Txk, Xcr1
Adhesion	Ada, Alcam, Amica1, Angpt2, Cd164, Cd22, Cd33, Cd6, Cd63, Cd84, Cd9, Cd96, Cd97, Cdh5, Col3a1, Csf3r, Cyfp2, Fn1, Glycam1, Icam2, Icam4, Irf2, Itga1, Itga2, Itga2b, Itga4, Itga5, Itga6, Itgae, Itgal, Itgax, Itgb1, Itgb4, Jam3, Kdr, Klra4, Klra5, Klra6, Klra7, Ly9, Lyve1, Map2k1, Mcam, Merck, Mfge8, Mmp9, Msln, Ncam1, Nrp1, Pecam1, Plau, Pnma1, Pvr1, Saa1, Sell, Selplg, Siglec1, Spink5, Spn, Spp1, Tek, Thy1, Tnfrsf12a, Vcam1, Vwf
AntigenProcessing	Ccr7, Cd1d1, Cd1d2, Cd74, Fcer1g, Fcgr3, Fcgr2b, Fcgr3, H2-Aa, H2-Ab1, H2-D1, H2-DMA, H2-DMB1, H2-DMB2, H2-Ea-ps, H2-Eb1, H2-K1, H2-M3, H2-Ob, H2-Q1, H2-Q10, H2-Q2, H2-T23, Icam1, Mr1, Nod1, Nod2, Psmb8, Psmb9, Relb, Slc11a1, Tap1, Tap2, Tapbp
Apoptosis	Jun, Abl1, Adora2a, Angpt1, Apoe, App, Atg5, Atg7, Atm, Bax, Bcl2l1, Bid, Birc5, Btk, C6, C9, Casp3, Casp8, Cd38, Cd3g, Cd5, Cd59b, Cdk1, Clec5a, Clu, Ctsh, Cyfp2, Cylid, Dusp6, Egfr, Egr3, Ep300, Ets1, Fadd, Fn1, Gpi1, Gzma, Gzmb, Hif1a, Hmgb1, Ifig1, Ifig2, Ikbke, Il19, Il24, Il3, Inpp5d, Itga1, Itga6, Kdr, Lck, Lcn2, Litaf, Lrp1, Ltbr, Ltk, Map2k4, Map3k1, Map3k5, Map3k7, Mapk1, Mapk3, Mapk8, Mef2c, Mertk, Mfge8, Mmp9, Muc1, Myc, Nefl, Nlrp3, Nos2, Osm, Pdcd1, Pik3cg, Plaur, Pml, Prkcd, Psen1, Ptgs2, Pycard, Rps6, Runx3, S100b, Sell, Spn, Spp1, Tcf7, Tek, Tgfb2, Tgfb3, Tgfb1, Tgfb2, Tmem173, Tnfaip3, Tnfrsf10b, Tnfrsf11b, Tnfrsf12a, Tnfrsf18, Tnfrsf8, Tnfrsf10, Tnfrsf12, Tnfrsf14, Tnfrsf15, Traf2, Traf3, Trp53, Twist1, Txnip, Vegfa, Xaf1
Autophagy	Atg10, Atg12, Atg16l1, Atg5, Atg7, Lamp1
BacterialResponse	Jun, Ccl2, Cd14, Fos, Hmgb1, Il10, Il1b, Irak1, Lta, Ly86, Ly96, Nfkbia, Ptgs2, Ripk2, Tlr4, Tlr6, Tnfrsf1a
BasicCellFunctions	Aicda, Arg1, Arg2, Chil3, Chit1, Cmpk2, Ctsg, Ctsl, Ddx60, Dock9, Dusp4, Emr1, Epsti1, Ewrs1, F12, F13a1, Fpr2, Gbp2b, Hamp, Hcst, Herc6, Hsd11b1, Isg15, Isg20, Map2k2, Mapk11, Mpo, Mpped1, Ncf4, Notch1, Oas2, Oas3, Oasl1, Pdgc, Pla2g1b, Pla2g6, Pmch, Pou2af1, Prg2, Psmb7, Raet1c, Repl1, Rrad, Rsad2, S100a8, St6gal1, Stat2, Tab1, Tank, Timd4, Trem2, Ubc, Usp18, Usp9y, Ythdf2, Zfp13
B-CellActivation	Cd28, Cd4, Cd69, Cd70, Cd83, Cd86, Cr2, Cxcr5, Dpp4, Fcer2a, Icosl, Il2ra, Il6, Ms4a1, Tgfb1
B-CellDifferentiation	Ada, Cd79a, Flt3, Il10, Il11, Ptprc, Rag1
B-CellProliferation	Bcl2, Cd38, Cd81, Cdkn1a, Ctla4, Il7, Prkcd, Tnfrsf13b, Tnfrsf13c, Tnfrsf13b
B-CellRegulation	Btla, Cd27, Cd40, Cd40lg, Foxp3, Il4
CancerProgression	Akt3, Angpt1, Angpt2, Apoe, C3, C3ar1, Camp, Casp8, Ccl11, Ccl5, Ccl7, Ccl8, Ccr2, Ccr3, Cd163, Cd34, Cd36, Cd44, Cd46, Cdh1, Cdkn1a, Ceacam1, Cfp, Clu, Cma1, Col1a1, Col3a1, Col4a1, Crebbp, Csf2rb, Cspg4, Dll4, Egfr, Erbb2, Fap, Hif1a, Hspb2, Kdr, Mmp9, Msln, Psm2, Sele, Smad2, Smad3, Smad4, Smn1, Snai1, Tdo2, Tek, Tgfb1, Tgfb2, Tie1, Twist1, Vegfc, Vhl, Vim, Vwf
CD4+TCellFunctions	Cd27, Cd4, Crebbp, Ctla4, Il15, Il7, Jak2, Mapk8, Ptprc, Socs3, Tgfb3, Tnfrsf4, Tnfrsf8, Tnfrsf4, Tyk2, Yy1
CDmolecules	Abcb1a, Alcam, Bst1, Bst2, Btla, C1qbp, Ccr1, Ccr2, Ccr3, Ccr4, Ccr5, Ccr6, Ccr7, Ccr9, Cd14, Cd160, Cd163, Cd164, Cd180, Cd19, Cd1d1, Cd1d2, Cd2, Cd200, Cd207, Cd209e, Cd22, Cd244, Cd247, Cd27, Cd274, Cd276, Cd28, Cd33, Cd34, Cd36, Cd37, Cd38, Cd3d, Cd3e, Cd3eap, Cd3g, Cd4, Cd40, Cd40lg, Cd46, Cd47, Cd48, Cd5, Cd53, Cd55, Cd6, Cd63, Cd68, Cd7, Cd70, Cd74, Cd79a, Cd79b, Cd80, Cd81, Cd83, Cd84, Cd86, Cd8a, Cd8b1, Cd9, Cd96, Cd97, Cd99, Cdh1, Cdh5, Ceacam1, Cr2, Csf1r, Csf2rb, Csf3r, Ctla4, Ctsw, Cxcr1, Cxcr2, Cxcr3, Cxcr4, Cxcr5, Cxcr6, Dpp4, Eng, Entpd1, Epcam, Fas, Fcer2a, Fcgr1, Fcgr2b, Fcgr3, Fcgr4, Flt3, Icam1, Icam2, Icam4, Icos, Icosl, Ifitm1, Ifngr1, Ifig1r, Ifig2r, Igl1, Il10ra, Il12rb1, Il13ra1, Il13ra2, Il15ra, Il17a, Il18r1, Il18rap, Il1r1, Il1r2, Il21r, Il2ra, Il2rb, Il2rg, Il3ra, Il4ra, Il5ra, Il6ra, Il6st, Il7r, Itga1, Itga2, Itga2b, Itga4, Itga5, Itga6, Itgae, Itgal, Itgam, Itgax, Itgb1, Itgb2, Itgb3, Itgb4, Kit, Klrb1, Klrc1, Klrc2, Klrk1, Lag3, Lamp1, Lamp2, Lamp3, Lira5, Lrp1, Lrrn3, Ly9, Mcam, Mme, Mrc1, Ms4a1, Msr1, Mst1r, Muc1, Ncam1, Ncr1, Nrp1, Nt5e, Pdcd1, Pdcd1lg2, Pdgrb, Pecam1, Plaur, Psm2, Ptgd2, Ptprc, Pvr, Sele, Sell, Selplg, Siglec1, Slamf1, Slamf6, Slamf7, Spn, Tfrc, Thbd, Thy1, Tlr1, Tlr2, Tlr3, Tlr4, Tlr6, Tlr8, Tlr9, Tnfrsf10b, Tnfrsf11a, Tnfrsf12a, Tnfrsf13b, Tnfrsf13c, Tnfrsf14, Tnfrsf17, Tnfrsf1a, Tnfrsf1b, Tnfrsf4, Tnfrsf8, Tnfrsf9, Tnfrsf10, Tnfrsf11, Tnfrsf13, Tnfrsf13b, Tnfrsf14, Tnfrsf4, Tnfrsf8, Trem1, Vcam1
CellCycle	Abcb1a, Abl1, Anp32b, Anxa1, App, Atm, Bid, Birc5, Casp3, Ccnd3, Cdk1, Cdkn1a, Cxcl15, Cylid, Ets1, Il12a, Il12b, Itgb1, Map2k1, Mapk3, Muc1, Myc, Nfatc1, Pin1, Pml, Prkce, Rps6, Runx3, Smpd3, Stat5b, Tal1, Tgfb1, Tgfb2, Thbs1, Trp53, Txnip
ChemokineReceptors	Ccr1, Ccr2, Ccr3, Ccr4, Ccr5, Ccr6, Ccr7, Ccr8, Ccr9, Ccr12, Cx3cr1, Cxcr1, Cxcr2, Cxcr3, Cxcr4, Cxcr5, Cxcr6, Xcr1
Chemokines	Ccl1, Ccl11, Ccl12, Ccl17, Ccl19, Ccl2, Ccl20, Ccl21a, Ccl22, Ccl24, Ccl25, Ccl26, Ccl28, Ccl3, Ccl4, Ccl5, Ccl6, Ccl7, Ccl8, Ccl9, Cklf, Csf1r, Cx3cl1, Cxcl1, Cxcl10, Cxcl11, Cxcl12, Cxcl13, Cxcl14, Cxcl15, Cxcl16, Cxcl2, Cxcl3, Cxcl5, Cxcl9, Elane, Hc, Il18, Il1r1, Il22ra1, Il4ra, Il6ra, Ilf3, Itch, Jak1, Lbp, Myd88, Sigirr, Ticam1, Tirap, Tlr3, Tlr4, Tlr7, Tlr9, Tnfrsf4, Xcl1
Chemotaxis	CSar1, Cmlklr1, Ifng, Il16, Il1b, Il4, Il6, Pbbp, Tgfb1, Tnf
ComplementPathway	A2m, C1qa, C1qb, C1qbp, C1ra, C1s1, C2, C3, C3ar1, C4b, C5ar1, C6, C7, C8a, C8b, C8g, C9, Cd46, Cd55, Cd59b, Cfb, Cfd, Cfh, Cfi, Cfp, Cr2, Crp, Hc, Masp1, Masp2, Mbl2, Serping1
CytokineReceptors	Ccr1, Ccr2, Ccr3, Ccr5, Ccr9, Csf1r, Cxcr1, Cxcr4, Erbb2, Flt3, Lyn

Cytokines	Bcl2l1, Birc5, Card11, Casp1, Ccl1, Ccl11, Ccl12, Ccl17, Ccl19, Ccl2, Ccl20, Ccl22, Ccl24, Ccl25, Ccl26, Ccl27a, Ccl28, Ccl3, Ccl4, Ccl6, Ccl7, Ccl8, Ccl9, Cd14, Cd40lg, Cd44, Cd70, Ckif, Clec4n, Clec5a, Col3a1, Csf1, Csf2, Csf2rb, Csf3, Csf3r, Cx3cl1, Cx3cr1, Cxcl1, Cxcl10, Cxcl11, Cxcl12, Cxcl13, Cxcl14, Cxcl15, Cxcl16, Cxcl2, Cxcl3, Cxcl5, Cxcl9, Cxcr2, Cxcr3, Ebi3, Elane, F2rl1, Fasl, Flt3l, Foxp3, Gpi1, Hc, Ido1, Ifna1, Ifna2, Ifna4, Ifnar2, Ifnb1, Ifng, Ifngr1, Igf1r, Il10, Il11, Il11ra1, Il12a, Il12b, Il12rb1, Il12rb2, Il13, Il13ra1, Il13ra2, Il15, Il16, Il17a, Il17b, Il17f, Il17ra, Il17rb, Il18, Il18rap, Il19, Il1a, Il1r1, Il1r2, Il1rap, Il1rapl2, Il1rl1, Il1rl2, Il1rn, Il2, Il21, Il21r, Il22, Il22ra2, Il23a, Il23r, Il24, Il25, Il27, Il2rb, Il2rg, Il34, Il3ra, Il4, Il4ra, Il5, Il5ra, Il6, Il6ra, Il6st, Il7, Il7r, Il9, Irak1, Irak2, Irak3, Irak4, Irf3, Itk, Jak1, Jak2, Jak3, Kit, Lif, Lta, Ltb, Mif, Mme, Ms4a2, Myd88, Nfatc2, Nfkb1, Nod2, Osm, Pin1, Pparg, Prkce, Ptprc, Rel, S100b, Saa1, Sh2b2, Sigirr, Socs1, Spp1, Stat1, Stat4, Stat6, Tgfb1, Tgfb2, Ticam2, Tnf, Tnfrsf11a, Tnfrsf1a, Tnfrsf4, Tnfsf10, Tnfsf11, Tnfsf12, Tnfsf13, Tnfsf13b, Tnfsf14, Tnfsf15, Tnfsf18, Tnfsf4, Tnfsf8, Traf2, Traf3, Traf6, Txk, Vegfa, Xcl1, Xcr1
Cytotoxicity	Cd1d2, Cd8a, Ctsh, Fcgr1, Fcgr3, Gzmb, Gzmk, Gzmm, H2-D1, H2-K1, H2-M3, H2-T23, H60a, Il12a, Il21, Il23a, Il7r, Klrb1c, Klrk1, Lag3, Prf1, Ptprc, Pvr, Pvr12, Sh2d1a, Sh2d1b1, Stat5b, Tap1, Ulbp1, Xcl1
DendriticCellFunctions	Ccl19, Ccl5, Ccr1, Ccr2, Ccr5, Cd40, Cd40lg, Cd83, Cd86, Cr2, Cxcr1, Cxcr4, Il10, Lyn, Rag1, Relb, Tgfb1
HousekeeperGene	Abcf1, Alas1, Edc3, Eef1g, Eif2b4, G6pdx, Gusb, Hdac3, Hprt, Nubp1, Oaz1, Polr1b, Polr2a, Ppia, Rpl19, Sap130, Sdha, Sf3a3, Tbp, Tubb5
HumoralResponse	Aire, Blink, Bmi1, Bst1, Bst2, C4b, C5ar1, Ccl12, Ccl2, Ccl22, Ccl3, Ccl7, Ccr2, Ccr6, Ccr7, Cd28, Cd37, Cd40, Cd83, Crp, Cxcl13, Ebi3, Fcer2a, Foxj1, Gpi1, Gpr183, Ifnb1, Ifng, Il10, Il1b, Il6, Il7, Itgb2, Lta, Ltf, Ly86, Ly96, Mbl2, Mef2c, Mnx1, Ms4a1, Ms4a2, Nfkb1, Nod2, Pax5, Pdcd1, Pou2af1, Pou2f2, Psmb10, Sh2d1a, St6gal1, Tfe3, Tfeb, Tnf, Trem1, Trem2, Ythdf2
InflammatoryResponse	Adora2a, Anxa1, Axl, Bcl6, C1qbp, C3, C3ar1, C4b, Camp, Ccl1, Ccl11, Ccl12, Ccl17, Ccl19, Ccl2, Ccl20, Ccl22, Ccl24, Ccl25, Ccl26, Ccl3, Ccl4, Ccl5, Ccl7, Ccl8, Ccr1, Ccr2, Ccr3, Ccr4, Ccr7, Ccr2, Cd14, Cd163, Cd180, Cd276, Cd28, Cd40, Cd40lg, Cd47, Cd97, Cebpb, Ckif, Clec7a, Cma1, Creb5, Crp, Csf1, Cspg4, Cxcl1, Cxcl10, Cxcl11, Cxcl13, Cxcl14, Cxcl15, Cxcl2, Cxcl3, Cxcl5, Cxcl9, Cxcr1, Cxcr2, Cxcr4, Elane, F2rl1, Fasl, Fcer1a, Fcer2a, Fcgr2b, Fos, Foxp3, Fpr2, Hc, Hck, Hmgb1, Ido1, Il10, Il13, Il17a, Il17b, Il17f, Il18, Il1a, Il1b, Il1r1, Il1rap, Il1rl1, Il1rn, Il22, Il23r, Il24, Il25, Il27, Il2ra, Il34, Il4, Il4ra, Il5ra, Il6, Il6st, Il9, Itgb2, Jam3, Klrb1, Lbp, Lta, Ly86, Ly96, Lyn, Mapkapk2, Mefv, Mif, Ms4a2, Myd88, Nfatc4, Nfkb1, Nlrp3, Nos2, Nt5e, Pik3cd, Pik3cg, Pnma1, Pparg, Ptg2, Pycard, Ripk2, S100a8, Sbn2, Sele, Stat3, Tgfb1, Thbs1, Ticam1, Ticam2, Tirap, Tlr1, Tlr2, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr8, Tlr9, Tnf, Tnfaip3, Tnfrsf1a, Tnfrsf1b, Tnfrsf4, Tnfsf4, Tollip, Xcl1, Xcr1
InnateResponse	A2m, Abca1, Abcg1, Abl1, Aire, Angpt1, App, Atf1, Atf2, Atg12, Atg5, Axl, Bcl10, Bcl2, Bcl2l1, Bid, Bst2, Btk, C1qa, C1qb, C1ra, C1s1, C2, C3, C4b, C6, C7, C8a, C8b, C8g, C9, Camp, Card9, Casp1, Casp8, Ccl17, Ccl2, Ccl5, Ccr1, Ccr3, Ccr6, Ccr9, Cd14, Cd180, Cd1d1, Cd1d2, Cd36, Cd4, Cd46, Cd55, Cd74, Cd8a, Cd97, Cdk1, Cebpb, Cfb, Cfd, Cfh, Cfi, Cfp, Chuk, Clec4a2, Clec4n, Clec5a, Clec7a, Clu, Colec12, Cr2, Creb1, Crebbp, Crp, Csf1, Csf1r, Csf2, Ctss, Cxcl10, Cxcl11, Cxcl16, Cxcl2, Cxcl9, Cxcr2, Cxcr3, Cxcr6, Cybb, Cyfip2, Cyld, Ddx58, Defb1, Dmbt1, Dusp4, Dusp6, Ecsit, Elk1, Ep300, F12, F2rl1, Fadd, Fcgr1, Fos, Gzmk, Gzmm, Hamp, Hc, Hck, Hmgb1, Ifih1, Ifitm1, Ifitm2, Ifna1, Ifna2, Ifnb1, Ifngr1, Ikbkb, Ikbke, Ikbkg, Il18r1, Il18rap, Il1a, Il1b, Il1r1, Il1rap, Il1rapl2, Il1rl1, Il1rl2, Il23a, Il23r, Il27, Il34, Il4, Irak1, Irak2, Irak3, Irak4, Irf3, Irf7, Irgm2, Isg15, Isg20, Itch, Itga5, Itgam, Itgax, Jak1, Jak2, Jak3, Klrg1, Lbp, Lcn2, Lgals3, Liril5, Ly86, Ly96, Lyn, Map2k1, Map2k2, Map2k4, Map3k1, Map3k5, Map3k7, Map4k2, Mapk1, Mapk11, Mapk14, Mapk3, Mapk8, Mapkapk2, Marco, Masp1, Masp2, Mavs, Mbl2, Mefv, Mif, Mst1r, Mx1, Mx2, Myd88, Ncf4, Nfkb1, Nfkb2, Nfkbia, Nlr5, Nlrp3, Nod1, Nod2, Pik3cd, Pik3cg, Pin1, Pparg, Pycard, Rela, Ripk2, S100b, Saa1, Serping1, Sigirr, Slamf7, Stat1, Syk, Tab1, Tank, Tbk1, Ticam1, Ticam2, Tirap, Tlr1, Tlr2, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr8, Tlr9, Tmem173, Tnfaip3, Tollip, Traf2, Traf3, Traf6, Txnip, Tyk2, Ubc, Xcl1, Zbp1
InterferonResponse	Ccr7, Cd3e, Ciita, Cxcl16, Ddx58, Eomes, Fadd, Gbp5, H2-Aa, H2-Ab1, H60a, Ifi27, Ifi35, Ifi44, Ifi44l, Ifih1, Ifit1, Ifit2, Ifit3, Ifitm1, Ifitm2, Ifna1, Ifna2, Ifna4, Ifnar1, Ifnar2, Ifngr1, Ifnl2, Il12rb2, Irf7, Irf8, Irgm2, Mavs, Nlr5, Nos2, Runx3, Sh2d1b1, Tbk1, Tmem173, Ulbp1,
Interleukins	A2m, Bcl10, Card11, Card9, Casp1, Ccl2, Ccr2, Ccr7, Cd1d1, Cd1d2, Cd276, Cd28, Cd34, Cd3e, Cd40lg, Cd83, Cma1, Cmk1r1, Csf2, Cxcl15, Cxcr1, Cxcr2, Ebi3, Egr1, Elane, Fadd, Fcer1a, Fcer1g, Fcgr2b, Foxj1, Foxp3, Gfi1, H2-Eb1, H2-Q1, Icosl, Ido1, Ifng, Il10, Il11, Il11ra1, Il12a, Il12b, Il12rb1, Il13, Il13ra1, Il15, Il16, Il17a, Il17f, Il17ra, Il18, Il18rap, Il19, Il1a, Il1b, Il1r1, Il1r2, Il1rap, Il1rapl2, Il1rl1, Il1rl2, Il1rn, Il2, Il21, Il22, Il22ra2, Il23a, Il23r, Il24, Il25, Il27, Il2rb, Il2rg, Il3, Il4, Il5, Il5ra, Il6, Il6ra, Il6st, Il7, Il9, Inpp5d, Irak2, Irak3, Irak4, Irf1, Irf4, Irf8, Itk, Jak2, Jak3, Lag3, Ltb, Mapk3, Mapkapk2, Mavs, Myd88, Nfkb1, Nlrp3, Nod1, Nod2, Pycard, Rel, Rela, Sele, Stat5b, Syk, Tcf7, Ticam1, Ticam2, Tigit, Tirap, Tlr1, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr8, Tlr9, Tnfrsf11a, Tnfrsf1a, Tnfsf4, Tollip, Traf2, Traf6, Txk,
LeukocyteFunctions	Ccl19, Ccl25, Ccl4, Ccr1, Ccr7, Cd34, Ckif, Clec7a, Cxcl10, Cxcl12, Cxcl2, Cxcl5, Elane, F2rl1, Foxj1, Fut7, Hc, Icam1, Il16, Il23r, Il3, Itga2, Itga2b, Itga4, Itga5, Itga6, Itgal, Itgam, Itgb1, Itgb2, Itgb3, Jam3, Lbp, Pecam1, Psen1, Psen2, Sele, Selplg, Syk, Tlr2, Vcam1
MacrophageFunctions	C3ar1, Casp8, Ccl2, Ccl5, Ccr2, Ccr5, Ccr7, Cd1d1, Cd69, Ckif, Cmk1r1, Crp, Csf1, Csf1r, Csf2, Cx3cl1, Cx3cr1, Eng, Fcer1a, Fcer2a, H60a, Hc, Il13, Il17f, Il18, Il1b, Il1rl1, Il23a, Il34, Il4, Il4ra, Itgb3, Lbp, Msr1, Nfkbia, Pparg, Prkce, Rora, Saa1, Sbn2, Syk, Thbs1, Tlr1, Ulbp1, Vegfa
MastCellFunctions	C5ar1, Cd48, Fcer1a, Tpsab1
MatureB-CellFunctions	Atm, Bcl10, Bcl6, Blk, Blink, Bmi1, Card11, Casp3, Cd19, Cd200r1, Cd22, Cd37, Cd74, Cd79b, Cxcl13, Fas, Fcgr2b, Gpr183, H2-Q10, Ikbkb, Ikbkg, Ikzf1, Il13, Il13ra1, Il1r2, Il21, Il2rg, Il5, Il7r, Inpp5d, Itga2, Jak3, Lck, Lyn, Mapk1, Mef2c, Mif, Nt5e, Prdm1, Sh2b2, Stat5b, Syk, Ticam1, Tirap, Tnfaip3, Tnfrsf4, Tnfsf4
MatureT-CellFunctions	Anxa1, Bcl10, Card11, Ccl19, Ccl2, Ccl3, Ccr2, Ccr7, Cd1d2, Cd247, Cd274, Cd276, Cd48, Cd5, Cd59b, Cd80, Cd83, Cd86, Ctsh, Cxcl13, Eomes, Fasl, Fcgr4, Foxj1, Fut7, H2-Aa, H2-Ab1, H2-D1, H2-DMa, H2-K1, H2-M3, H2-Q1, H2-T23, Icam1, Ido1, Ifnar1, Ifnb1, Ikzf1, Il12a, Il12rb1, Il23a, Il2rg, Il6st, Il7r, Itgal, Itgam, Itgax, Itgb2, Itk, Lcp1, Mapk1, Mill2, Psen1, Psen2, Psmb10, Pvr, Pvr12, Rag1, Rorc, Rps6, Spn, Stat5b, Syk, Tap1, Tcf7, Tgfb1, Tgfb2, Tigit, Tnfsf18, Tnfsf8, Traf2, Txk, Vcam1, Xcl1, Zap70
MHCclassII	Cd160, Cd1d1, Cd40lg, Cd74, Ciita, Ctsh, Fcer1g, Fcgr1, Fcgr2b, Fcgr3, H2-Aa, H2-Ab1, H2-D1, H2-DMa, H2-DMb1, H2-DMb2, H2-Eb1, H2-K1, H2-M3, H2-Ob, H2-Q1, H2-Q2, H2-T23, Il10, Klrk1, Lag3, Mr1, Nlr5, Pml, Tap1, Tap2, Tapbp
MicroglialFunctions	Casp1, Cx3cr1, Nod2, Tlr6, Tlr7

NaturalKillerCellFunctions	Axl, Ccl2, Ccl3, Ccl4, Ccl5, Ccl7, Cd2, Cd244, Cd247, Cd7, Cd96, Flt3l, H2-M3, H60a, Ifi27, Ikzf1, Il11ra1, Il12a, Il12b, Il12rb1, Il15, Il15ra, Il21, Il23a, Il2rb, Itgb2, Klra1, Klra15, Klra17, Klra2, Klra20, Klra21, Klra27, Klra3, Klra4, Klra5, Klra6, Klra7, Klrb1c, Klrc1, Klrd1, Klrk1, Lag3, Mertk, Mill2, Ncam1, Pvr, Pvr12, Sh2d1a, Sh2d1b1, Slamf7, Stat5b, Ulbp1
Phagocytosis	Anxa1, C3, Cd14, Cd36, Cd44, Cd47, Clec7a, Colec12, Crp, Csf1, Csf2, Fas, Fcgr1g, Fcgr1, Fcgr2b, Fcgr3, Ifng, Il1r1, Itgam, Itgb2, Marco, Mbl2, Mfge8, Mif, Myd88, Nod1, Pecam1, Siglec1, Ticam1, Tlr3, Tlr9, Tnf, Tnfsf11
RegulationofInflammatoryResponse	Bcl6, C3, C3ar1, C4b, Ccl1, Ccl12, Ccl17, Ccl19, Ccl2, Ccl20, Ccl22, Ccl24, Ccl25, Ccl3, Ccl4, Ccl7, Ccl8, Ccr2, Ccr3, Ccr4, Ccr7, Cd14, Cd40, Cd40lg, Cebpb, Crp, Csf1, Cxcl1, Cxcl10, Cxcl11, Cxcl2, Cxcl3, Cxcl5, Cxcl9, Cxcr1, Cxcr2, Cxcr4, Fos, Il10, Il1r1, Il1rap, Il22, Il9, Itgb2, Ly96, Myd88, Nfkb1, Nos2, Ripk2, Sele, Tirap, Tlr1, Tlr2, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr9, Tollip
RegulatoryTCellsFunctions	Ccr6, Foxp3, Ikzf2, Il9, Irf4, Irf8, Pou2f2, Rel, Tnfsf11
SenescencePathway	Abi1, Atm, Bmi1, Cdkn1a, Egr1, Ets1, Hras, Ifng, Igf1r, Irf3, Irf5, Irf7, Map2k1, Mapk14, Myc, Nfkb1, Plau, Prkcd, Serpinb2, Tgfb1, Trp53, Twist1
T-cellAnergy	Cma1, Ctla4, Gzmb, Icos, Itch, Itga1, Jak1, Lgals3, Pdcd1, Sell
T-CellDifferentiation	Ada, Bcl2, Cd1d1, Cd3d, Cd4, Cd74, Egr1, Flt3, Il27, Il7, Irf4, Nos2, Socs1
T-CellProliferation	Casp3, Ccnd3, Cd3e, Cxcl2, Cxcr4, Icosl, Il15, Il1b, Pdcd1lg2, Ptprc, Ripk2, Spp1, Tnfrsf13c, Tnfsf13b, Tnfsf14, Traf6, Trp53
T-CellRegulation	Btla, Cd27, Cd3g, Cd47, Cd8a, Cd8b1, Dpp4, Fas, Foxp3, Icam1, Il2, Lag3, Lck, Map3k7, Tgfb1, Thy1, Tnfrsf14
Th&Th2Differentiation	Cd2, Cd28, Cd40, Cd40lg, Ifng, Il12b, Il18, Il2ra, Il4, Il6, Relb
Th2CellFunctions	Bcl6, Ccl11, Ccl5, Ccl7, Ccr3, Ccr4, Cebpb, Gata3, Gfi1, Gpr44, Icos, Il10, Il13, Il13ra1, Il1r1, Il25, Il4ra, Il5, Jak1, Jak3, Maf, Nfatc1, Nfatc2, Stat6, Tmed1
Th7CellsFunctions	Il17a, Il21, Rora, Rorc
ThCellFunctions	Ccr5, Csf2, Cxcr3, Havcr2, Il12rb2, Il18r1, Il18rap, Il2, Il27, Irf1, Nfkb1, Socs1, Stat1, Stat4, Tbx21, Tlr4, Tlr6, Tnf, Vegfa
TLRSignaling	Cd86, Gfi1, Irak1, Irak2, Irf3, Irf4, Map3k7, Mapkapk2, Myd88, Nfkb1a, Prkce, Tbk1, Ticam1, Ticam2, Tirap, Tlr1, Tlr2, Tlr3, Tlr4, Tlr5, Tlr6, Tlr7, Tlr8, Tlr9, Traf3, Traf6,
TNFSuperfamilyMembers	Cd40lg, Cd70, Fasl, Lta, Ltb, Tnf, Tnfsf10, Tnfsf11, Tnfsf12, Tnfsf13, Tnfsf13b, Tnfsf14, Tnfsf15, Tnfsf18, Tnfsf4, Tnfsf8
TNFSuperfamilyReceptors	Cd27, Cd40, Fas, Ltbr, Tnfrsf10b, Tnfrsf11a, Tnfrsf11b, Tnfrsf12a, Tnfrsf13b, Tnfrsf13c, Tnfrsf14, Tnfrsf17, Tnfrsf18, Tnfrsf1a, Tnfrsf1b, Tnfrsf4, Tnfrsf8, Tnfrsf9
TranscriptionFactors	Jun, Atf1, Atf2, Batf, Bcl10, Bcl2, Bcl6, Card11, Card9, Cd34, Cd36, Cd40, Cdh1, Cebpb, Ciita, Clu, Cmk1r1, Creb1, Creb5, Crebbp, Cylid, Ddx58, Ecsit, Egr1, Egr2, Elk1, Eomes, Ep300, Ets1, Fos, Foxj1, Foxp3, Gata3, Gfi1, Gtf3c1, Hck, Hmgb1, Icam1, Ikbkb, Ikbkg, Ikzf1, Il10, Il4, Il5, Irak1, Irak2, Irak3, Irf1, Irf2, Irf3, Irf4, Irf5, Irf7, Irf8, Itch, Itgb2, Maf, Mapk1, Mapk3, Mavs, Mef2c, Mnx1, Myc, Nfatc2, Nfatc3, Nfatc4, Nfkb1, Nfkb2, Nfkb1a, Nlrc5, Nlrp3, Nod1, Nod2, Pax5, Pou2f2, Pparg, Pycard, Rel, Rela, Relb, Rora, Rorc, Runx1, Runx3, Sigirr, Smad4, Snai1, Stat1, Stat3, Stat4, Stat6, Tal1, Tbx21, Tcf7, Tfe3, Tfeb, Ticam1, Tlr3, Tlr9, Tmem173, Tnfrsf11a, Tnfrsf4, Tnfrsf8, Tnfsf18, Traf2, Traf3, Traf6, Twist1, Xbp1, Yy1
TransmembraneTransportation	Abca1, Abcb1a, Abcg1, Akt3, Ampb, Amica1, Apoe, App, Atg10, Atg16l1, Atg7, Axl, Bax, C8g, Ccl3, Ccl4, Ccl5, Ccr1, Ccr5, Cd36, Cd3g, Cmah, Col1a1, Csf2, Cxcl1, Cxcl12, Cxcr4, Cybb, Dmbt1, Fez1, Fyn, Icam1, Ifit1, Igf2r, Il13, Il1b, Il4, Itgb3, Lbp, Lcn2, Lcp1, Lrp1, Ltf, Lyn, Lyve1, Lyz2, Map2k1, Mapk14, Mertk, Msr1, Nefl, Nfatc1, Nup107, Pparg, Prkcd, Prkce, Psen1, Slc11a1, Slc7a11, Syk, Syt17, Tap1, Tap2, Tfrc, Tmed1
ViralResponse	Ifnb1, Ifng, Il12a, Il6, Irf3, Rela, Tbk1, Ticam1, Tlr3, Tlr7, Tlr8, Tnf