

Category	Term	Count	P Value	Genes
GOTERM_BP_DIR_ECT	GO:0002376~immune system process	58	3.76E-22	MASP1, S100A8, LY86, S100A9, TLR2, HP, C1QC, TLR7, CFP, OASL1, CLEC4A2, LBP, MX1, CD300C2, PIK3CG, ADGRE1, SERPING1, CLEC4N, CD84, C1QA, C1QB, CD86, SERPINA3G, H2-AA, MST1R, PRDM1, CD300LB, CLEC5A, CD300LD, TNFAIP8L2, TNFRSF21, HMGB2, IFITM1, C3, FCNA, IL4RA, OAS3, IFI30, ALCAM, PTK2B, PSTPIP1, CSF1R, ZBP1, LGALS3, CFB, HCK, TLR13, CTLA4, ANXA1, H2-AB1, FCGR1, CD180, LCN2, PIRB, IFIT3, IRF7, H2-EB1, CD14
GOTERM_BP_DIR_ECT	GO:0007155~cell adhesion	55	2.80E-15	MYBPC2, ATP1B2, FERMT3, IGFBP7, POSTN, CDH22, WISP2, CGREF1, WISP1, CTGF, HPSE, TGFBI, CSF3R, COL12A1, CNTNAP1, CDH23, PARVG, PTPRF, PDPN, CERCAM, CD84, NCAM1, SIGLEC1, MFAP4, CYP1B1, TNC, ITGB2, ITGB3, CD24A, ITGAM, ALCAM, LPXN, COL6A6, PTK2B, COMP, ITGB6, PSTPIP1, EMB, GPNMB, COL8A1, SELPLG, THBS3, SPP1, FN1, THBS4, SVEP1, ADAM23, PCDH12, COL16A1, COL5A1, EPHA4, LYVE1, COL14A1, SRPX2, SULF1
GOTERM_BP_DIR_ECT	GO:0045087~innate immune response	49	6.03E-15	S100A8, MASP1, LY86, S100A9, TLR2, C1QC, TLR7, CFP, ANG, OASL1, CLEC4A2, LBP, MX1, C4B, SERPING1, CLEC4N, C1QA, CD84, C1QB, PRDM1, MST1R, TREM2, CLEC5A, TNFAIP8L2, HMGB2, IFITM1, C3, FCNA, OAS3, PTK2B, PSTPIP1, FCER1G, CSF1R, ZBP1, TYROBP, LGALS3, CFB, HCK, TLR13, ANXA1, FCGR1, CD180, LCN2, IFIT3,

				CYBB, TRIM59, IRF7, CLEC7A, CD14
GOTERM_BP_DIR_ECT	GO:0006954~inflammatory response	44	3.97E-14	TNFRSF21, C3AR1, HMGB2, S100A8, C3, CCR1, LY86, S100A9, CCL9, TLR2, CCL8, PF4, TLR7, CCL6, CXCL10, S1PR3, SLC11A1, CYP26B1, ITGB6, PSTPIP1, NOS2, ADAM8, CSF1R, SPP1, PIK3CG, BMP2, C5AR1, C4B, NCF1, HCK, TLR13, ANXA1, ACKR2, ECM1, CD180, CD163, CCL12, CYBB, CCR5, CCR2, PLA2G7, CLEC7A, PTAFR, CD14
GOTERM_BP_DIR_ECT	GO:0007049~cell cycle	44	2.36E-06	E2F1, KIF23, PRC1, DBF4, ANLN, AURKB, CGREF1, NCAPH, CDCA8, HMCN1, NCAPG2, INCENP, FBXO5, CCNA2, ASPM, CKAP2, CDK1, KIF11, MKI67, TRNP1, IKZF1, TPX2, NUSAP1, CENPE, BIRC5, CDC20, RACGAP1, UBE2C, KNSTRN, SMC2, MCM5, SMC4, CDKN1C, UHRF1, CCNB2, MAD2L1, DUSP1, PLK1, SPAG5, RGCC, KIF20B, BUB1B, CHAF1A, SMPD3
GOTERM_BP_DIR_ECT	GO:0043066~negative regulation of apoptotic process	34	0.001010 77	IER3, MMP9, CLU, HSPA1B, TGFB2, TIMP1, GPX1, CASP3, PTK2B, COMP, ANGPT1, SCX, CSF1R, SPP1, ANGPTL4, FN1, BMP4, CDK1, LGALS3, HCK, NCKAP1L, BIRC5, PLAC8, KDR, PLAUR, IFIT3, MAD2L1, SFRP1, DUSP1, BCL2A1B, BTG2, UCP2, PLK1, CLEC5A
GOTERM_BP_DIR_ECT	GO:0051301~cell division	32	2.19E-06	KIF23, KIFC1, PRC1, ANLN, AURKB, CDCA8, NCAPH, HMCN1, NCAPG2, INCENP, FBXO5, CCNA2, ASPM, CDK1, KIF11, TPX2, NUSAP1, CENPE, CDC20, BIRC5, KNSTRN, UBE2C, RACGAP1, SMC2, MCM5, SMC4, MAD2L1, CCNB2, PLK1, SPAG5, KIF20B, BUB1B

GOTERM_BP_DIR ECT	GO:0010628~positive regulation of gene expression	32	8.24E-06	E2F1, HMGB2, LDLR, STAR, TNC, VIM, IQGAP3, TLR2, PF4, ITGB3, TGFB2, ALDH1A2, SLC11A1, CTGF, CD46, CYP26B1, SERPINE1, NFIL3, SCX, FN1, EGR1, BMP4, CDK1, BMP2, IKZF1, RNF207, PLAUR, LCN2, INHBA, CCR5, RGCC, PRDM1
GOTERM_BP_DIR ECT	GO:0008284~positive regulation of cell proliferation	32	0.001913 16	PRC1, TNC, CRLF1, CLU, CXCL10, TGFB2, TIMP1, ALDH1A2, RAC2, FOLR2, PTK2B, CTGF, PTN, PDGFC, PAK1, SCX, MYC, CSF1R, FN1, BMP4, PTPN6, LGALS3, NTF3, HCK, CDC20, S100A13, PLAC8, KDR, PLA2G4A, SFRP1, KIF20B, HBEGF
GOTERM_BP_DIR ECT	GO:0006508~proteolysis	30	0.016557 23	AEBP1, MASP1, CNDP2, LGMN, MMP9, UCHL1, PAMR1, HP, ENPEP, MMP3, PCOLCE, ACE, CASP3, CD46, ADAMTS12, ADAM8, DPEP2, CTSZ, ADAM23, CFB, MMP19, ESPL1, KY, CTSS, MMP12, CTSK, ADAM1A, CTSC, CTSB, ADAMTS2
GOTERM_BP_DIR ECT	GO:0007067~mitotic nuclear division	29	1.29E-07	KIF23, ANLN, AURKB, CDCA8, NCAPH, NCAPG2, INCENP, FBXO5, CCNA2, ASPM, TUBB3, CDK1, KIF11, TPX2, NUSAP1, CDC20, ESPL1, BIRC5, CENPE, KNSTRN, UBE2C, SMC2, SMC4, MAD2L1, CCNB2, PLK1, SPAG5, KIF20B, BUB1B
GOTERM_BP_DIR ECT	GO:0006955~immune response	27	1.06E-06	CCR1, CCL9, OAS3, TLR2, CCL8, PF4, TLR7, CD24A, CCL6, CXCL10, HRH2, OASL1, NFIL3, PRG4, CTLA4, COLEC12, H2-AB1, CTSS, VAV1, WAS, CCL12, CCR5, FCGR2B, CCR2, H2-EB1, H2-AA, LCP2
GOTERM_BP_DIR ECT	GO:0043065~positive regulation of apoptotic process	27	4.43E-05	TSPO, CYP1B1, MMP9, CLU, OSGIN1, ANKRD1, TGFB2, ALDH1A2, ACE, CASP3, HMOX1, TGM2, PTN, TOP2A, BMP4, NOX4, BMP2, PTPRF, NTF3,

				CTLA4, ANXA1, FRZB, PLA2G4A, NUPR1, SFRP1, DUSP1, BCL2A1B
GOTERM_BP_DIR_ECT	GO:0001525~angiogenesis	26	3.18E-07	RTN4, CYP1B1, ENPEP, CTGF, PTK2B, ANG, HMOX1, TGFBI, SERPINE1, ANGPT1, COL8A1, ADAM8, FN1, ANGPTL4, PIK3CG, BMP4, MMP19, CCDC80, ECM1, ANXA2, KDR, CCL12, SRPX2, PLXDC1, CCR2, HBEGF
GOTERM_BP_DIR_ECT	GO:0006915~apoptotic process	26	0.084544	E2F1, TNFRSF21, S100A8, S100A9, GPR65, GPX1, CASP3, DYNLL1, COMP, HMOX1, PAK1, AATK, CKAP2, CDK1, C5AR1, NCF1, LGALS1, TPX2, BIRC5, TOX3, LSP1, LCN2, RASSF5, SERPINA3G, SULF1, BUB1B
GOTERM_BP_DIR_ECT	GO:0030335~positive regulation of cell migration	25	5.49E-08	C3AR1, FERMT3, CCR1, ITGB3, MMP3, LGR6, TGFB2, CXCL10, PTK2B, PDGFC, RHOD, PAK1, GPNMB, CSF1R, FN1, BMP4, BMP2, NTF3, PDPN, MYO1F, KDR, CORO1A, CARMIL1, HBEGF, COL1A1
GOTERM_BP_DIR_ECT	GO:0042493~response to drug	25	3.44E-04	PAM, CDK1, TSPO, HMGB2, HSP90AA1, STAR, LGALS1, MMP9, ANXA1, NCKAP1L, AQP7, TGFB2, KDR, LCN2, NCAM1, INHBA, CYBB, CD86, SFRP1, APOD, PTK2B, PTN, COL1A1, LOX, NNMT
GOTERM_BP_DIR_ECT	GO:0008285~negative regulation of cell proliferation	25	0.0019405	BMP4, CEBPA, NOX4, BMP2, CYP1B1, PTPRF, IFITM1, CLMN, TLR2, FRZB, SLFN1, TGFB2, IFIT3, HIST1H2AP, ALDH1A2, INHBA, RASSF5, WISP2, SFRP1, SERPINE2, BTG2, PTK2B, HMOX1, RGCC, CSF1R
GOTERM_BP_DIR_ECT	GO:0006935~chemotaxis	22	2.20E-10	PIK3CG, C3AR1, HMGB2, C5AR1, S100A8, CCR1, S100A9, CCL9, CCL8, ACKR2, NCKAP1L, PF4, ACKR4, CCL6, CXCL10, LSP1, CCL12, DOCK2, CCR5, RAC2, CCR2, PTAFR
GOTERM_BP_DIR_ECT	GO:0001666~response to hypoxia	22	1.35E-06	EGR1, NOX4, PAM, BMP2, TLR2, POSTN, KCNA5, TACC3,

				CD24A, KDR, TGFB2, PTGIS, ALAS2, PENK, PTK2B, UCP2, ANG, HMOX1, PAK1, NOS2, NPPA, ANGPTL4
GOTERM_BP_DIR_ECT	GO:0070374~positive regulation of ERK1 and ERK2 cascade	21	3.70E-06	NOX4, BMP4, BMP2, C5AR1, C3, CCR1, CCL9, TLR2, CCL8, ITGB3, CCL6, KDR, GLIPR2, CCL12, CTGF, PTK2B, ANGPT1, PDGFC, TREM2, GPNMB, CSF1R
GOTERM_BP_DIR_ECT	GO:0007568~aging	18	5.43E-05	NOX4, TSPO, COL3A1, ITGB2, SERPING1, AURKB, TIMP1, NCAM1, CDKN1C, CD86, PPP1R9A, APOD, PENK, SERPINF1, CTGF, UCP2, IFI27L2A, CTSC
GOTERM_BP_DIR_ECT	GO:0042127~regulation of cell proliferation	18	0.00132829	CEBPA, TRNP1, PRG4, HCK, TNC, IL4RA, ANXA1, S100A11, NR3C2, PF4, SPARC, TGFB2, CXCL10, PLA2G4A, PTK2B, SERPINE1, PRDM1, NOS2
GOTERM_BP_DIR_ECT	GO:0030593~neutrophil chemotaxis	17	5.32E-10	C5AR1, S100A8, LGALS3, S100A9, CCL9, CCL8, NCKAP1L, ITGB2, VAV1, ITGAM, CCL6, TGFB2, FCGR3, CCL12, FCER1G, CSF3R, SPP1
GOTERM_BP_DIR_ECT	GO:0045766~positive regulation of angiogenesis	17	2.07E-06	C3AR1, CYP1B1, C5AR1, LGALS3, C3, MMP9, ITGB2, ITGB3, ECM1, KDR, CYBB, PTGIS, PTK2B, LRG1, HMOX1, SERPINE1, HSPB1
GOTERM_BP_DIR_ECT	GO:0043524~negative regulation of neuron apoptotic process	17	7.25E-05	C5AR1, STAR, NTF3, LGMN, CRLF1, PRKCG, BIRC5, TOX3, KDR, CCL12, CORO1A, BTG2, PTK2B, HMOX1, MT1, ANGPT1, ADAM8
GOTERM_BP_DIR_ECT	GO:0032496~response to lipopolysaccharide	17	7.75E-04	TNFRSF21, HMGB2, C5AR1, S100A8, NCF2, TLR2, ACP5, PF4, SPARC, CXCL10, SLC11A1, ACE, PENK, LBP, NOS2, LOXL1, PTAFR
GOTERM_BP_DIR_ECT	GO:0071222~cellular response to lipopolysaccharide	17	0.00145026	ZFP36, MRC1, TSPO, HMGB2, STAR, FCGR4, ANKRD1, CD180, CXCL10, LCN2, CD86, NR1D1, SERPINE1, LBP, NOS2, CD300LB, CD14
GOTERM_BP_DIR_ECT	GO:0008283~cell proliferation	17	0.00244731	PTPN6, CDK1, MKI67, CFB, PDPN, NCF1, UCHL1, DACH1,

				ENPEP, AURKB, TACC3, GPX1, GLUL, UHRF1, TGFB1, MYC, CSF1R
GOTERM_BP_DIR_ECT	GO:0050729~positive regulation of inflammatory response	16	1.25E-09	S100A8, LDLR, S100A9, TLR2, CCL9, CCL8, CTSS, CCL6, CCL12, ACE, PLA2G4A, CCR5, SERPINE1, CCR2, TGM2, ADAM8
GOTERM_BP_DIR_ECT	GO:0016477~cell migration	16	0.0015656	PTPRF, ENPEP, ITGB3, SIRPA, CD24A, COL5A1, TGFB2, KDR, CORO1A, CTGF, ANG, CARMIL1, PSTPIP1, HBEGF, ADAMTS12, LCP1
GOTERM_BP_DIR_ECT	GO:0010629~negative regulation of gene expression	16	0.02825209	BMP4, HMGB2, BMP2, LDLR, CCR1, IQGAP3, TGFB2, ACE, SFRP1, SERPINF1, CTGF, CD46, SERPINE1, PRDM1, NOS2, MYC
GOTERM_BP_DIR_ECT	GO:0042060~wound healing	15	2.14E-06	S100A8, TNC, COL3A1, FCGR4, SPARC, MMP12, TGFB2, TIMP1, SLC11A1, HPSE, SERPINE1, COL1A1, LOX, PAK1, FN1
GOTERM_BP_DIR_ECT	GO:0001503~ossification	15	2.76E-06	BMP4, BMP2, IFITM1, CTGF, MMP9, FSTL3, MGP, PTN, SPARC, TMEM119, COL11A2, ECM1, COL5A2, SPP1, AHSG
GOTERM_BP_DIR_ECT	GO:0008360~regulation of cell shape	15	1.87E-04	PDPN, PLXNB1, HCK, ANXA1, RHOU, S100A13, KDR, CCL12, MYO10, CORO1A, PTK2B, PTN, PAKAP, CSF1R, FN1
GOTERM_BP_DIR_ECT	GO:0071356~cellular response to tumor necrosis factor	14	6.19E-05	CEBPA, ZFP36, TNFRSF21, CCL9, CCL8, POSTN, ANKRD1, CCL6, LCN2, CCL12, SFRP1, COL1A1, ADAMTS12, DBN1
GOTERM_BP_DIR_ECT	GO:0002250~adaptive immune response	14	6.43E-04	TNFRSF21, ADGRE1, CTLA4, ANXA1, CTSS, CLEC4N, CD84, PIRB, ALCAM, CD86, PTK2B, SERPINA3G, CLEC4A2, PRDM1
GOTERM_BP_DIR_ECT	GO:0007507~heart development	14	0.08797785	BMP4, ALDH1A2, PAM, CASP3, BMP2, DNAAF3, XIRP2, MMP9, COL3A1, PTN, SPARC, LOX, TGFB2, IFT74
GOTERM_BP_DIR_ECT	GO:0030199~collagen fibril organization	13	2.32E-09	COL14A1, CYP1B1, COL3A1, COL1A2, COL1A1, LOX, COL11A2, SCX, ADAMTS2, COL5A2, COL5A1, TGFB2, ANXA2

GOTERM_BP_DIR_ECT	GO:0071347~cellular response to interleukin-1	13	1.05E-05	LCN2, CCL12, PTGIS, SFRP1, SERPINE1, CCL9, SAA3, CCL8, ANKRD1, ADAMTS12, MYC, CCL6, FN1
GOTERM_BP_DIR_ECT	GO:0009615~response to virus	13	1.75E-05	IFITM1, TLR13, CLU, OAS3, CXCL10, IFIT3, LCN2, IFI27L2A, OASL1, HSPB1, STMN1, MST1R, MX1
GOTERM_BP_DIR_ECT	GO:0007229~integrin-mediated signaling pathway	13	4.95E-05	PLEK, FERMT3, COL3A1, ITGB2, ITGB3, VAV1, ITGAM, CTGF, PTK2B, ITGB6, FCER1G, ADAM8, TYROBP
GOTERM_BP_DIR_ECT	GO:0030324~lung development	13	7.58E-04	BMP4, CEBPA, PDPN, FSTL3, MGP, SPARC, KDR, ALDH1A2, EIF4EBP1, CTGF, PTN, LOX, ADAMTS2
GOTERM_BP_DIR_ECT	GO:0001934~positive regulation of protein phosphorylation	13	0.0180186	BMP4, BMP2, C3, MMP9, IQGAP3, PLAUR, ANXA2, KDR, CTGF, AKAP5, PAK1, GPNMB, CSF1R
GOTERM_BP_DIR_ECT	GO:0002244~hematopoietic progenitor cell differentiation	12	3.54E-04	BMP4, PTPN6, INHBA, SFRP1, PLEK, KCNAB2, PLD4, FSTL3, ANLN, SIRPA, TOP2A, SMPD3
GOTERM_BP_DIR_ECT	GO:0032355~response to estradiol	12	4.60E-04	ALDH1A2, PAM, PENK, DUSP1, CTGF, GRN, ANXA1, PTN, POSTN, COL1A1, FCGR1, MYC
GOTERM_BP_DIR_ECT	GO:0030198~extracellular matrix organization	12	0.00127236	NEPN, LGALS3, ADAMTSL2, HPSE, SPOCK2, MMP9, COMP, TGFB1, CCDC80, POSTN, TGFB2, FN1
GOTERM_BP_DIR_ECT	GO:0045471~response to ethanol	12	0.00157181	CDK1, EIF4EBP1, TBXAS1, S100A8, STAR, PENK, PTK2B, TNC, SPARC, CDO1, MYC, CD14
GOTERM_BP_DIR_ECT	GO:0010976~positive regulation of neuron projection development	12	0.00565902	BMP4, PPP1R9A, SCN1B, SERPINE2, SERPINF1, PTK2B, GRN, PTN, HSPB1, ANKRD1, CD24A, DBN1
GOTERM_BP_DIR_ECT	GO:0019221~cytokine-mediated signaling pathway	12	0.0085385	CEBPA, PIRB, ASPN, CCL12, PTPN6, BGN, CSF2RB2, CCR2, CSF2RB, PF4, PTPRN, CSF1R
GOTERM_BP_DIR_ECT	GO:0051607~defense response to virus	12	0.02149471	IFIT3, CD86, ISG15, IFITM1, SLFN9, OASL1, OAS3, IFIT3B, MX1, TLR7, ZBP1, CXCL10
GOTERM_BP_DIR_ECT	GO:0051260~protein homooligomerization	12	0.05927259	IKBKE, PAM, GLUL, P2RX6, HMOX1, TGM2, ANGPT1, KCNA5, SLC1A1, KCNV2, THBS4, ANGPTL4

GOTERM_BP_DIR_ECT	GO:0007160~cell-matrix adhesion	11	2.20E-04	SNED1, CTGF, HPSE, COL3A1, ITGB6, ITGB2, ITGB3, ADAMTS12, ADAM8, SIRPA, FN1
GOTERM_BP_DIR_ECT	GO:0048661~positive regulation of smooth muscle cell proliferation	11	2.71E-04	EGR1, BMP4, C3AR1, WISP1, HMOX1, SULF1, TGM2, HBEGF, ITGB3, MYC, PTAFR
GOTERM_BP_DIR_ECT	GO:0030308~negative regulation of cell growth	11	0.00794321	RTN4, INHBA, CGREF1, SFRP1, SERPINE2, FHL1, OSGIN1, FRZB, NPPA, TGFB2, AHSG
GOTERM_BP_DIR_ECT	GO:0007411~axon guidance	11	0.02462752	ALCAM, NCAM1, EPHA4, ENAH, SCN1B, EFNB3, NTF3, CD24A, TUBB3, CSF1R, TGFB2
GOTERM_BP_DIR_ECT	GO:0071560~cellular response to transforming growth factor beta stimulus	10	1.52E-04	NOX4, STAR, SFRP1, PENK, SERPINE1, POSTN, COL1A1, ANKRD1, SCX, DBN1
GOTERM_BP_DIR_ECT	GO:0071407~cellular response to organic cyclic compound	10	7.37E-04	CEBPA, CCL12, P2RY6, BMP2, MSR1, CYP1B1, LGALS1, NOS2, PAK1, ANKRD1
GOTERM_BP_DIR_ECT	GO:0007015~actin filament organization	10	0.00153125	ENAH, CORO1A, PPP1R9A, RAC2, PTK2B, ACTN1, SIRPA, WAS, DBN1, PAKAP
GOTERM_BP_DIR_ECT	GO:0030097~hemopoiesis	10	0.00196546	SFRP1, IKZF1, CCR2, ANGPT1, HBB-BS, HBB-BT, TACC3, CSF1R, TGFB2, KDR
GOTERM_BP_DIR_ECT	GO:0050830~defense response to Gram-positive bacterium	10	0.00336374	LYZ2, HMGB2, C5AR1, ANG, NCF1, HCK, TLR2, MYO1F, ACP5, LBP
GOTERM_BP_DIR_ECT	GO:0071456~cellular response to hypoxia	10	0.00659666	E2F1, EIF4EBP1, PTGIS, SFRP1, HMOX1, RGCC, PTN, ANKRD1, ADAM8, CCNA2
GOTERM_BP_DIR_ECT	GO:0001501~skeletal system development	10	0.00840981	BMP4, CDKN1C, LGALS3, MMP9, COL3A1, COL1A2, COL1A1, COL11A2, COL5A2, TGFB2
GOTERM_BP_DIR_ECT	GO:0008584~male gonad development	10	0.01118095	INHBA, HMGB2, NUPR1, STAR, SFRP1, FSTL3, ASPM, TGFB2, AHSG, KDR
GOTERM_BP_DIR_ECT	GO:0001649~osteoblast differentiation	10	0.01180868	BMP4, BMP2, SFRP1, PENK, TNC, MRC2, COL1A1, GPNMB, TMEM119, SPP1
GOTERM_BP_DIR_ECT	GO:0010466~negative regulation of peptidase activity	10	0.01458521	SERPINA3N, SERPINE2, SERPINA3G, SERPINE1, SERPINB1A, BIRC5, SERPING1, PAPLN, ECM1, TIMP1

GOTERM_BP_DIR_ECT	GO:0001822~kidney development	10	0.0269396	BMP4, CDKN1C, ALDH1A2, ACE, SERPINF1, SULF1, WNT9B, FSTL3, CYS1, TGFB2
GOTERM_BP_DIR_ECT	GO:0034765~regulation of ion transmembrane transport	10	0.03323139	CLCN1, KCNQ4, CYBB, SCN1B, KCNAB2, SCN4B, KCNA5, CLIC1, KCNV2, SCN4A
GOTERM_BP_DIR_ECT	GO:0030036~actin cytoskeleton organization	10	0.04364645	GAS2L3, CORO2A, ENAH, CORO1A, DOCK2, SFRP1, RAC2, XIRP2, PAK1, RHOU
GOTERM_BP_DIR_ECT	GO:0000281~mitotic cytokinesis	9	3.85E-06	CKAP2, KIF23, PLK1, KIF4, NUSAP1, ANLN, STMN1, RACGAP1, KIF20A
GOTERM_BP_DIR_ECT	GO:0050766~positive regulation of phagocytosis	9	1.48E-04	SLC11A1, DOCK2, FCGR2B, C3, FCER1G, FCGR1, SIRPA, FCGR3, AHSG
GOTERM_BP_DIR_ECT	GO:0070098~chemokine-mediated signaling pathway	9	3.90E-04	CCL12, PTK2B, CCR1, CCR2, CCL9, CCL8, PF4, CCL6, CXCL10
GOTERM_BP_DIR_ECT	GO:0042542~response to hydrogen peroxide	9	5.64E-04	GPX1, CASP3, STAR, DUSP1, PTK2B, HMOX1, HP, COL1A1, KCNA5
GOTERM_BP_DIR_ECT	GO:0032760~positive regulation of tumor necrosis factor production	9	6.34E-04	CCR5, CLU, TLR2, FCER1G, PF4, LBP, SASH3, PTAFR, CD14
GOTERM_BP_DIR_ECT	GO:0048839~inner ear development	9	0.00134487	CEBPA, C1QB, BMP2, IGFBP7, SPARC, CYS1, CDH23, TGFB2, IFI204
GOTERM_BP_DIR_ECT	GO:0001938~positive regulation of endothelial cell proliferation	9	0.00148439	BMP4, BMP2, HMGB2, ANG, LRG1, ITGB3, ECM1, THBS4, KDR
GOTERM_BP_DIR_ECT	GO:0071346~cellular response to interferon-gamma	9	0.00163515	MRC1, CCL12, STAR, CCL9, CCL8, H2-AB1, NOS2, MYC, CCL6
GOTERM_BP_DIR_ECT	GO:0016525~negative regulation of angiogenesis	9	0.00236329	SERPINF1, CCR2, RGCC, SULF1, PTN, PF4, SPARC, THBS4, CXCL10
GOTERM_BP_DIR_ECT	GO:0043627~response to estrogen	9	0.00305956	ARPC1B, HSP90AA1, STAR, HMOX1, IL4RA, RCAN1, PTPRN, CD24A, TGFB2
GOTERM_BP_DIR_ECT	GO:0007018~microtubule-based movement	9	0.00390584	KIF23, KIF22, KIFC1, KIF11, KIF6, KIF4, KIF20B, CENPE, KIF20A
GOTERM_BP_DIR_ECT	GO:0060326~cell chemotaxis	9	0.00390584	CCL12, HMGB2, CCL9, SAA3, CCL8, HBEGF, BIN2, CCL6, CXCL10
GOTERM_BP_DIR_ECT	GO:0060548~negative regulation of cell death	9	0.00456329	NCAM1, BMP4, NPAS2, WISP2, WISP1, CTGF, CTSB, ITGB3, MYC

GOTERM_BP_DIR_ECT	GO:0051897~positive regulation of protein kinase B signaling	9	0.014100 39	NOX4, PIK3CG, GPX1, HPSE, HBEGF, ANGPT1, PIK3R5, MST1R, ADAM8
GOTERM_BP_DIR_ECT	GO:0031175~neuron projection development	9	0.085934 06	NCAM1, EFHD1, PPP1R9A, BTG2, PTK2B, CLMN, TNC, CNTNAP1, CD24A
GOTERM_BP_DIR_ECT	GO:0030574~collagen catabolic process	8	8.20E-06	CTSK, MMP9, MRC2, MMP19, CTSB, CTSS, MMP3, ADAMTS2
GOTERM_BP_DIR_ECT	GO:0042130~negative regulation of T cell proliferation	8	2.80E-04	TNFRSF21, PTPN6, CTLA4, H2-AA, H2-AB1, GPNMB, VSIG4, SLFN1
GOTERM_BP_DIR_ECT	GO:0051496~positive regulation of stress fiber assembly	8	5.15E-04	NOX4, PPM1E, CTGF, CARMIL1, RGCC, GPR65, S100A10, PAK1
GOTERM_BP_DIR_ECT	GO:0006909~phagocytosis	8	0.001435 36	SLC11A1, CORO1A, HCK, PLD4, ANXA1, ITGB2, VAV1, CD302
GOTERM_BP_DIR_ECT	GO:0043408~regulation of MAPK cascade	8	0.003008 35	INHBB, INHBA, BMP2, TLR13, PAK1, GDF15, CD24A, TGFB2
GOTERM_BP_DIR_ECT	GO:0009612~response to mechanical stimulus	8	0.004363 2	INHBB, BTG2, PTK2B, TNC, COL3A1, RCAN1, POSTN, KCNA5
GOTERM_BP_DIR_ECT	GO:0048812~neuron projection morphogenesis	8	0.004363 2	NBL1, PLXNB1, CLU, KIF20B, CNTNAP1, PAK1, THBS4, KDR
GOTERM_BP_DIR_ECT	GO:0048146~positive regulation of fibroblast proliferation	8	0.005192 55	E2F1, SERPINE1, PDGFC, ITGB3, MYC, CCNA2, FN1, ANXA2
GOTERM_BP_DIR_ECT	GO:0006461~protein complex assembly	8	0.005649 05	CDK1, NUPR1, TSPAN4, SLC2A1, NCKAP1L, MGP, PF4, AHSG
GOTERM_BP_DIR_ECT	GO:0000165~MAPK cascade	8	0.007199 28	ZFP36, SLC11A1, CCL12, DOK1, PTK2B, PLVAP, ITPKB, MYC
GOTERM_BP_DIR_ECT	GO:0001568~blood vessel development	8	0.008394 54	BMP4, ALDH1A2, COL3A1, COL1A2, COL1A1, LOX, COL5A1, TGFB2
GOTERM_BP_DIR_ECT	GO:0043434~response to peptide hormone	8	0.009729 65	SERPINA3N, BTG2, CTGF, SERPINA3G, ANXA1, COL1A1, SPARC, TIMP1
GOTERM_BP_DIR_ECT	GO:0009749~response to glucose	8	0.013736 9	EGR1, CASP3, GLUL, NCF2, CTGF, PTK2B, ILDR2, PTPRN
GOTERM_BP_DIR_ECT	GO:0034097~response to cytokine	8	0.016642 92	ALDH1A2, CORO1A, SERPINA3N, SERPINA3G, COL3A1, ACP5, SPARC, TIMP1
GOTERM_BP_DIR_ECT	GO:0050728~negative regulation of inflammatory response	8	0.023709 72	ZFP36, TNFAIP8L2, IER3, PTGIS, SERPINF1, AOAII, ACP5, CTLA2A
GOTERM_BP_DIR_ECT	GO:0007059~chromosome segregation	8	0.026463 89	KIF11, SPAG5, INCENP, BIRC5, CENPE, ESPL1, KNSTRN, TOP2A

GOTERM_BP_DIR_ECT	GO:0007169~transmembrane receptor protein tyrosine kinase signaling pathway	8	0.045518 26	DOK1, EPHA4, NTF3, HCK, ANGPT1, CSF1R, LCP2, KDR
GOTERM_BP_DIR_ECT	GO:0050731~positive regulation of peptidyl-tyrosine phosphorylation	8	0.047595 06	NTF3, PTK2B, HBEGF, ANGPT1, ITGB3, TREM2, CD24A, THBS4
GOTERM_BP_DIR_ECT	GO:0030336~negative regulation of cell migration	8	0.058877 07	CYP1B1, SFRP1, CCR5, IFITM1, SERPINE1, SULF1, PTN, DACH1
GOTERM_BP_DIR_ECT	GO:0000070~mitotic sister chromatid segregation	7	7.46E-05	CDCA8, MAD2L1, PLK1, SPAG5, NUSAP1, ESPL1, KNSTRN
GOTERM_BP_DIR_ECT	GO:0050715~positive regulation of cytokine secretion	7	7.32E-04	CD300C2, PANX1, RGCC, TLR2, CLEC5A, CLEC4N, CD14
GOTERM_BP_DIR_ECT	GO:0006953~acute-phase response	7	8.60E-04	SERPINA3N, SAA3, HP, LBP, FN1, AHSG, CD163
GOTERM_BP_DIR_ECT	GO:0000910~cytokinesis	7	0.001164 99	KIF23, PRC1, PLK1, INCENP, PSTPIP1, BIRC5, KIF20A
GOTERM_BP_DIR_ECT	GO:0014911~positive regulation of smooth muscle cell migration	7	0.001547 17	NOX4, EGR1, P2RY6, CYP1B1, POSTN, ITGB3, MYC
GOTERM_BP_DIR_ECT	GO:0002548~monocyte chemotaxis	7	0.001770 71	CCL12, LGALS3, CCR2, ANXA1, CCL9, CCL8, CCL6
GOTERM_BP_DIR_ECT	GO:0010811~positive regulation of cell-substrate adhesion	7	0.002290 3	FBLN2, SPOCK2, CCDC80, PTN, COL8A1, DBN1, SPP1
GOTERM_BP_DIR_ECT	GO:0045429~positive regulation of nitric oxide biosynthetic process	7	0.003274 61	HSP90AA1, ASS1, PTK2B, CLU, TLR2, ITGB2, SMPD3
GOTERM_BP_DIR_ECT	GO:0006911~phagocytosis, engulfment	7	0.003274 61	FCGR2B, FCER1G, TREM2, FCGR1, SIRPA, BIN2, FCGR3
GOTERM_BP_DIR_ECT	GO:0032956~regulation of actin cytoskeleton organization	7	0.005570 39	PAM, CORO1A, MYO1F, SH3BGRL3, PAK1, ITGB3, TGFB2
GOTERM_BP_DIR_ECT	GO:0051591~response to cAMP	7	0.006142 78	DUSP1, PTK2B, MMP19, COL1A1, SPARC, PTPRN, CDO1
GOTERM_BP_DIR_ECT	GO:0031100~organ regeneration	7	0.009661 94	CDK1, ACE, C5AR1, MKI67, CCNA2, LCP1, NNMT
GOTERM_BP_DIR_ECT	GO:0051603~proteolysis involved in cellular protein catabolic process	7	0.010508 57	CTSZ, CTSK, LGMN, CTSC, CTSB, CTSS, ADAMTS12
GOTERM_BP_DIR_ECT	GO:0009611~response to wounding	7	0.011406 48	ZFP36, GPX1, CASP3, SERPINE2, MYC, LCP1, TGFB2
GOTERM_BP_DIR_ECT	GO:0008217~regulation of blood pressure	7	0.015541 11	C3AR1, ACE, CYP4F18, HMOX1, COL1A2, ENPEP, NPPA
GOTERM_BP_DIR_ECT	GO:0071300~cellular response to retinoic acid	7	0.019252 11	ALDH1A2, SERPINF1, PTK2B, TNC, CYP26B1, COL1A1, MYC

GOTERM_BP_DIR_ECT	GO:0045669~positive regulation of osteoblast differentiation	7 31	0.023525	CEBPA, BMP4, BMP2, IFITM1, CLIC1, TMEM119, IFI204
GOTERM_BP_DIR_ECT	GO:0050679~positive regulation of epithelial cell proliferation	7 15	0.037893	BMP4, GLUL, C5AR1, SFRP1, GRN, MYC, KDR
GOTERM_BP_DIR_ECT	GO:0060395~SMAD protein signal transduction	7 08	0.040009	BMP4, INHBB, INHBA, BMP2, VIM, GDF15, TGFB2
GOTERM_BP_DIR_ECT	GO:0006821~chloride transport	7 43	0.046799	CLCN1, TSPO, CLCA3A1, GABRA3, ANO1, ANO5, CLIC1
GOTERM_BP_DIR_ECT	GO:0051216~cartilage development	7 63	0.051699	BMP4, BMP2, SULF1, MGP, COL1A2, SCX, TIMP1
GOTERM_BP_DIR_ECT	GO:0042535~positive regulation of tumor necrosis factor biosynthetic process	6	3.80E-05	CYBB, CCR2, TLR2, HSPB1, LBP, FCGR3
GOTERM_BP_DIR_ECT	GO:0002523~leukocyte migration involved in inflammatory response	6	3.80E-05	S100A8, S100A9, ITGB2, ADAM8, CD24A, ITGAM
GOTERM_BP_DIR_ECT	GO:0019886~antigen processing and presentation of exogenous peptide antigen via MHC class II	6	5.75E-05	FCGR2B, H2-EB1, IFI30, FCER1G, H2-AA, H2-AB1
GOTERM_BP_DIR_ECT	GO:0033630~positive regulation of cell adhesion mediated by integrin	6	8.39E-05	PTPN6, NCKAP1L, ITGB3, CD24A, TGFB2, IFT74
GOTERM_BP_DIR_ECT	GO:0030261~chromosome condensation	6	1.19E-04	CDK1, NCAPH, NCAPG2, SMC2, TOP2A, SMC4
GOTERM_BP_DIR_ECT	GO:2000573~positive regulation of DNA biosynthetic process	6	2.21E-04	NOX4, C3AR1, CYP1B1, PTK2B, RGCC, MYC
GOTERM_BP_DIR_ECT	GO:0030889~negative regulation of B cell proliferation	6	2.21E-04	TNFRSF21, CASP3, FCGR2B, CTLA4, PRDM1, CD24A
GOTERM_BP_DIR_ECT	GO:0010575~positive regulation of vascular endothelial growth factor production	6	9.30E-04	C3AR1, C5AR1, CYP1B1, HPSE, C3, SULF1
GOTERM_BP_DIR_ECT	GO:0045453~bone resorption	6 94	0.001131	NOX4, CTSK, RAC2, PTK2B, ACP5, CTSS
GOTERM_BP_DIR_ECT	GO:0090023~positive regulation of neutrophil chemotaxis	6 39	0.001931	C3AR1, C5AR1, RAC2, NCKAP1L, LBP, THBS4
GOTERM_BP_DIR_ECT	GO:0044344~cellular response to fibroblast growth factor stimulus	6 02	0.002654	ZFP36, STAR, SFRP1, POSTN, COL1A1, MYC

GOTERM_BP_DIR_ECT	GO:0048147~negative regulation of fibroblast proliferation	6	0.003554 56	NUPR1, SFRP1, MMP9, IFI30, DACH1, MYC
GOTERM_BP_DIR_ECT	GO:0009617~response to bacterium	6	0.005288 22	SLC11A1, FCGR2B, NCF1, TLR2, FCGR1, CD14
GOTERM_BP_DIR_ECT	GO:0045786~negative regulation of cell cycle	6	0.005979 32	CEBPA, BMP4, INHBA, CASP3, BMP2, NUPR1
GOTERM_BP_DIR_ECT	GO:0040007~growth	6	0.005979 32	BMP4, INHBB, INHBA, BMP2, CCNB2, TGFB2
GOTERM_BP_DIR_ECT	GO:0070527~platelet aggregation	6	0.007547 59	PTPN6, PLEK, FERMT3, HSPB1, ITGB3, CLIC1
GOTERM_BP_DIR_ECT	GO:0010595~positive regulation of endothelial cell migration	6	0.010404 02	BMP4, PTK2B, ANGPT1, SPARC, ITGB3, KDR
GOTERM_BP_DIR_ECT	GO:0006879~cellular iron ion homeostasis	6	0.015254 87	LCN2, SLC11A1, ALAS2, FTL1, HMOX1, MYC
GOTERM_BP_DIR_ECT	GO:0010862~positive regulation of pathway-restricted SMAD protein phosphorylation	6	0.019750 28	BMP4, INHBB, INHBA, BMP2, GDF15, TGFB2
GOTERM_BP_DIR_ECT	GO:0045600~positive regulation of fat cell differentiation	6	0.021422 13	CEBPA, ZFP36, BMP2, MEDAG, SFRP1, FRZB
GOTERM_BP_DIR_ECT	GO:0031532~actin cytoskeleton reorganization	6	0.026980 24	PARVG, PLEK, S100A9, ANXA1, GPR65, PAK1
GOTERM_BP_DIR_ECT	GO:0032755~positive regulation of interleukin-6 production	6	0.026980 24	RAB7B, CCR5, TLR2, FCER1G, LBP, TLR7
GOTERM_BP_DIR_ECT	GO:0008630~intrinsic apoptotic signaling pathway in response to DNA damage	6	0.031151 25	E2F1, IER3, IKBKE, BCL2A1B, HMOX1, MYC
GOTERM_BP_DIR_ECT	GO:0043406~positive regulation of MAP kinase activity	6	0.031151 25	NOX4, PIK3CG, PIK3R5, PDGFC, MST1R, CD24A
GOTERM_BP_DIR_ECT	GO:0006958~complement activation, classical pathway	6	0.033379 87	C1QA, C1QB, C4B, C3, SERPING1, C1QC
GOTERM_BP_DIR_ECT	GO:0035914~skeletal muscle cell differentiation	6	0.033379 87	EGR1, NUPR1, BTG2, ANKRD1, SCX, MYC
GOTERM_BP_DIR_ECT	GO:0045785~positive regulation of cell adhesion	6	0.035705 16	TGM2, ANGPT1, RHOD, ADAM8, VAV1, APBB1IP
GOTERM_BP_DIR_ECT	GO:0001541~ovarian follicle development	6	0.038127 91	BMP4, INHBA, MMP19, ANGPT1, MYC, KDR
GOTERM_BP_DIR_ECT	GO:0001558~regulation of cell growth	6	0.040648 8	WISP2, WISP1, CTGF, IGFBP7, IGFBP6, CSF2RB

GOTERM_BP_DIR_ECT	GO:0006898~receptor-mediated endocytosis	6	0.045987 13	MRC1, MSR1, FTL1, FCGR2B, FCGR1, CD14
GOTERM_BP_DIR_ECT	GO:0000082~G1/S transition of mitotic cell cycle	6	0.051723 26	INHBA, EIF4EBP1, RGCC, IQGAP3, TCF19, RHOU
GOTERM_BP_DIR_ECT	GO:0042102~positive regulation of T cell proliferation	6	0.057858 5	CORO1A, CD86, CD46, ANXA1, NCKAP1L, SASH3
GOTERM_BP_DIR_ECT	GO:0014068~positive regulation of phosphatidylinositol 3-kinase signaling	6	0.057858 5	PTPN6, PLXNB1, ANGPT1, PDGFC, TGFB2, KDR
GOTERM_BP_DIR_ECT	GO:0018108~peptidyl-tyrosine phosphorylation	6	0.061075 69	PTPN6, EPHA4, PTK2B, HCK, CSF1R, KDR
GOTERM_BP_DIR_ECT	GO:0010033~response to organic substance	6	0.061075 69	PLA2G4A, CASP3, CTSC, KCNA5, PAK1, SPP1
GOTERM_BP_DIR_ECT	GO:0051592~response to calcium ion	6	0.071322 67	PLA2G4A, TRPC3, PENK, DUSP1, PTK2B, SPARC
GOTERM_BP_DIR_ECT	GO:0071333~cellular response to glucose stimulus	6	0.082452 71	NOX4, GPX1, STAR, SERPINF1, UCP2, LGALS1
GOTERM_BP_DIR_ECT	GO:0045165~cell fate commitment	6	0.086355 83	BMP4, CASP3, BMP2, WNT9B, PRDM1, KDR
GOTERM_BP_DIR_ECT	GO:0050680~negative regulation of epithelial cell proliferation	6	0.086355 83	BMP4, CDKN1C, SFRP1, PTN, TGFB2, IFT74
GOTERM_BP_DIR_ECT	GO:0006812~cation transport	6	0.090354 08	PANX1, SLC24A3, SLC41A2, ANO1, SLC41A3, SCN4A
GOTERM_BP_DIR_ECT	GO:0051384~response to glucocorticoid	6	0.098631 93	PAM, PTGDS, DUSP1, ASS1, SPARC, CDO1
GOTERM_BP_DIR_ECT	GO:0043206~extracellular fibril organization	5	3.10E-04	LTBP2, COL3A1, MFAP4, MFAP5, COL5A1
GOTERM_BP_DIR_ECT	GO:0035457~cellular response to interferon-alpha	5	4.54E-04	IFIT3, STAR, IFIT3B, MYC, IFI204
GOTERM_BP_DIR_ECT	GO:0045576~mast cell activation	5	6.38E-04	CD48, FCGR2B, FCER1G, FCGR3, LCP2
GOTERM_BP_DIR_ECT	GO:0090026~positive regulation of monocyte chemotaxis	5	8.71E-04	CCR1, CCR2, SERPINE1, PLA2G7, CXCL10
GOTERM_BP_DIR_ECT	GO:0006956~complement activation	5	0.001156 59	MASP1, C4B, C3, CFB, RGCC
GOTERM_BP_DIR_ECT	GO:0006693~prostaglandin metabolic process	5	0.001156 59	TBXAS1, PTGIS, PTGDS, PDPN, HPGDS
GOTERM_BP_DIR_ECT	GO:0007051~spindle organization	5	0.001502 54	KIF11, SPAG5, AURKB, KNSTRN, ASPM

GOTERM_BP_DIR_ECT	GO:0016064~immunoglobulin mediated immune response	5	0.00517019	FCGR2B, C4B, IRF7, IL4RA, FCER1G
GOTERM_BP_DIR_ECT	GO:1902042~negative regulation of extrinsic apoptotic signaling pathway via death domain receptors	5	0.00827626	GPX1, HMGB2, TNFRSF23, HMOX1, SERPINE1
GOTERM_BP_DIR_ECT	GO:0034341~response to interferon-gamma	5	0.009533	SLC11A1, CD86, IFITM1, H2-EB1, H2-AA
GOTERM_BP_DIR_ECT	GO:0048821~erythrocyte development	5	0.01090747	HBA-A1, HBA-A2, NCKAP1L, HBB-BS, HBB-BT
GOTERM_BP_DIR_ECT	GO:0035987~endodermal cell differentiation	5	0.01090747	INHBA, MMP9, COL12A1, COL8A1, FN1
GOTERM_BP_DIR_ECT	GO:0048247~lymphocyte chemotaxis	5	0.02181893	CCL12, CCL9, CCL8, ADAM8, CCL6
GOTERM_BP_DIR_ECT	GO:0010718~positive regulation of epithelial to mesenchymal transition	5	0.02410738	GLIPR2, BMP2, RGCC, COL1A1, TGFB2
GOTERM_BP_DIR_ECT	GO:0090307~mitotic spindle assembly	5	0.02653566	KIFC1, KIF11, TPX2, BIRC5, CDC20
GOTERM_BP_DIR_ECT	GO:0071773~cellular response to BMP stimulus	5	0.02653566	BMP4, BMP2, SFRP1, ADAMTS12, SCX
GOTERM_BP_DIR_ECT	GO:0048754~branching morphogenesis of an epithelial tube	5	0.02910521	BMP4, WNT9B, MGP, PAK1, KDR
GOTERM_BP_DIR_ECT	GO:0002931~response to ischemia	5	0.02910521	EGR1, EIF4EBP1, PANX1, UCHL1, RCAN1
GOTERM_BP_DIR_ECT	GO:0007346~regulation of mitotic cell cycle	5	0.03181716	CDKN1C, PLK1, FBXO5, BIRC5, MYC
GOTERM_BP_DIR_ECT	GO:0030177~positive regulation of Wnt signaling pathway	5	0.03181716	BMP2, SFRP1, SULF1, TLR2, LGR6
GOTERM_BP_DIR_ECT	GO:0006910~phagocytosis, recognition	5	0.03467241	COLEC12, CLEC7A, FCGR1, SIRPA, FCGR3
GOTERM_BP_DIR_ECT	GO:0048873~homeostasis of number of cells within a tissue	5	0.03467241	CORO1A, COL14A1, CCR2, ILDR2, SASH3
GOTERM_BP_DIR_ECT	GO:0034605~cellular response to heat	5	0.03767154	MKI67, HMOX1, ANO1, MYOF, CXCL10
GOTERM_BP_DIR_ECT	GO:0007162~negative regulation of cell adhesion	5	0.04753436	LPXN, PLXNB1, TNC, MYO1F, ANGPT1
GOTERM_BP_DIR_ECT	GO:0048706~embryonic skeletal system development	5	0.0548285	BMP4, SULF1, ETL4, COL1A1, SCX
GOTERM_BP_DIR_ECT	GO:0002062~chondrocyte differentiation	5	0.06269133	BMP4, BMP2, TGFBI, COL11A2, SCX

GOTERM_BP_DIR_ECT	GO:0007265~Ras protein signal transduction	5	0.0668332	CNKS1, DOK1, DOK3, IQGAP3, CCNA2
GOTERM_BP_DIR_ECT	GO:0010942~positive regulation of cell death	5	0.07111347	EGR1, BMP4, CTGF, UCP2, HP
GOTERM_BP_DIR_ECT	GO:0030218~erythrocyte differentiation	5	0.07111347	BMP4, CASP3, ALAS2, IKZF1, SPI1
GOTERM_BP_DIR_ECT	GO:0009725~response to hormone	5	0.07111347	PTK2B, ANG, MMP19, LOX, TIMP1
GOTERM_BP_DIR_ECT	GO:0060291~long-term synaptic potentiation	5	0.07553047	SERPINE2, RASGRF2, PTK2B, SYT12, PTN
GOTERM_BP_DIR_ECT	GO:0071320~cellular response to cAMP	5	0.08008239	NOX4, PIK3CG, STAR, PENK, PTAFR
GOTERM_BP_DIR_ECT	GO:0006936~muscle contraction	5	0.08008239	CLCN1, MYBPC2, ANXA1, MYH7, ANXA2
GOTERM_BP_DIR_ECT	GO:0019882~antigen processing and presentation	5	0.09959688	RAB32, H2-EB1, H2-AA, H2-AB1, CTSS
GOTERM_BP_DIR_ECT	GO:0048002~antigen processing and presentation of peptide antigen	4	1.36E-04	SLC11A1, H2-AA, H2-AB1, CTSS
GOTERM_BP_DIR_ECT	GO:0098869~cellular oxidant detoxification	4	3.31E-04	HBA-A1, HBA-A2, HBB-BS, HBB-BT
GOTERM_BP_DIR_ECT	GO:0042590~antigen processing and presentation of exogenous peptide antigen via MHC class I	4	3.31E-04	IFI30, FCER1G, FCGR1, FCGR3
GOTERM_BP_DIR_ECT	GO:0051256~mitotic spindle midzone assembly	4	6.45E-04	KIF23, KIF4, AURKB, RACGAP1
GOTERM_BP_DIR_ECT	GO:0045730~respiratory burst	4	0.00110195	SLC11A1, CYBB, NCF1, CD24A
GOTERM_BP_DIR_ECT	GO:0001798~positive regulation of type IIa hypersensitivity	4	0.00172039	C3, FCER1G, FCGR1, FCGR3
GOTERM_BP_DIR_ECT	GO:0071223~cellular response to lipoteichoic acid	4	0.00251816	TLR2, LBP, TREM2, CD14
GOTERM_BP_DIR_ECT	GO:0071305~cellular response to vitamin D	4	0.00351048	SFRP1, PENK, TNC, PTN
GOTERM_BP_DIR_ECT	GO:0008347~glial cell migration	4	0.00471053	EPHA4, TSPO, TGFB2, FN1
GOTERM_BP_DIR_ECT	GO:0042554~superoxide anion generation	4	0.00471053	NOX4, CYBB, NCF2, NCF1
GOTERM_BP_DIR_ECT	GO:0050777~negative regulation of immune response	4	0.00471053	FCGR2B, COL3A1, CTLA4, TGFB2

GOTERM_BP_DIR_ECT	GO:0071276~cellular response to cadmium ion	4 54	0.006129	CYBB, STAR, HMOX1, MT2
GOTERM_BP_DIR_ECT	GO:0010447~response to acidic pH	4 54	0.006129	SERPINF1, LGMN, GPR65, CTSS
GOTERM_BP_DIR_ECT	GO:0007076~mitotic chromosome condensation	4 93	0.007776	NCAPH, NUSAP1, SMC2, SMC4
GOTERM_BP_DIR_ECT	GO:0033690~positive regulation of osteoblast proliferation	4 93	0.007776	BMP2, HPSE, ITGB3, TMEM119
GOTERM_BP_DIR_ECT	GO:0051279~regulation of release of sequestered calcium ion into cytosol	4 49	0.009660	PTPN6, CORO1A, PTK2B, ITGB3
GOTERM_BP_DIR_ECT	GO:2000249~regulation of actin cytoskeleton reorganization	4 47	0.011786	PTK2B, GMFG, RHOD, CSF1R
GOTERM_BP_DIR_ECT	GO:0045019~negative regulation of nitric oxide biosynthetic process	4 47	0.011786	TSPO, PTGIS, DYNLL1, ACP5
GOTERM_BP_DIR_ECT	GO:0030502~negative regulation of bone mineralization	4 47	0.011786	PTK2B, CCR1, ECM1, AHSG
GOTERM_BP_DIR_ECT	GO:0050918~positive chemotaxis	4 47	0.011786	BMP4, CORO1A, LGALS3, ANGPT1
GOTERM_BP_DIR_ECT	GO:0055008~cardiac muscle tissue morphogenesis	4 68	0.014159	BMP2, XIRP2, ANGPT1, ANKRD1
GOTERM_BP_DIR_ECT	GO:0001516~prostaglandin biosynthetic process	4 68	0.014159	TBXAS1, PTGIS, PTGDS, HPGDS
GOTERM_BP_DIR_ECT	GO:0002224~toll-like receptor signaling pathway	4 65	0.016783	CD86, TLR2, TLR7, CD180
GOTERM_BP_DIR_ECT	GO:0007094~mitotic spindle assembly checkpoint	4 68	0.019660	MAD2L1, PLK1, BUB1B, CENPE
GOTERM_BP_DIR_ECT	GO:0070542~response to fatty acid	4 99	0.022791	TBXAS1, CTGF, UCP2, TLR2
GOTERM_BP_DIR_ECT	GO:0016339~calcium-dependent cell-cell adhesion via plasma membrane cell adhesion molecules	4 99	0.022791	CDH22, PCDHGA12, PCDH12, CDH23
GOTERM_BP_DIR_ECT	GO:0006801~superoxide metabolic process	4 99	0.022791	NOX4, CYBB, NCF2, NOS2
GOTERM_BP_DIR_ECT	GO:1901741~positive regulation of myoblast fusion	4 99	0.022791	IL4RA, CCL8, CD53, GDF15
GOTERM_BP_DIR_ECT	GO:0007088~regulation of mitotic nuclear division	4 76	0.026177	MKI67, KIF20B, FBXO5, CENPE

GOTERM_BP_DIR_ECT	GO:0022409~positive regulation of cell-cell adhesion	4 76	0.026177	MYO10, CCR5, FSTL3, CD24A
GOTERM_BP_DIR_ECT	GO:0045780~positive regulation of bone resorption	4 76	0.026177	ITGB3, ADAM8, SPP1, AHSG
GOTERM_BP_DIR_ECT	GO:0030517~negative regulation of axon extension	4 76	0.026177	RTN4, CCR5, FSTL4, AATK
GOTERM_BP_DIR_ECT	GO:0071398~cellular response to fatty acid	4 26	0.029817	E2F1, OLFR78, LDLR, PTAFR
GOTERM_BP_DIR_ECT	GO:0045648~positive regulation of erythrocyte differentiation	4 26	0.029817	INHBA, HMGB2, ISG15, NCKAP1L
GOTERM_BP_DIR_ECT	GO:0090280~positive regulation of calcium ion import	4 26	0.029817	CCL12, LGALS3, SERPINE1, GM34302
GOTERM_BP_DIR_ECT	GO:0048870~cell motility	4 26	0.029817	MYO10, SRPX2, PDPN, CCDC80
GOTERM_BP_DIR_ECT	GO:0022617~extracellular matrix disassembly	4 9	0.033708	MMP19, MMP3, MMP12, LCP1
GOTERM_BP_DIR_ECT	GO:0002687~positive regulation of leukocyte migration	4 9	0.033708	CCL12, MMP9, TLR2, ITGB3
GOTERM_BP_DIR_ECT	GO:0030595~leukocyte chemotaxis	4 9	0.033708	CORO1A, CCR1, S100A9, PF4
GOTERM_BP_DIR_ECT	GO:0032733~positive regulation of interleukin-10 production	4 34	0.037850	CD46, TLR2, FCER1G, SASH3
GOTERM_BP_DIR_ECT	GO:0036120~cellular response to platelet-derived growth factor stimulus	4 34	0.037850	PTN, ITGB3, MYC, CCNA2
GOTERM_BP_DIR_ECT	GO:0007159~leukocyte cell-cell adhesion	4 5	0.042238	FERMT3, ITGB2, CD24A, ITGAM
GOTERM_BP_DIR_ECT	GO:0030833~regulation of actin filament polymerization	4 5	0.042238	ARPC1B, CORO1A, PPP1R9A, DBN1
GOTERM_BP_DIR_ECT	GO:0050850~positive regulation of calcium-mediated signaling	4 5	0.042238	NCAM1, TREM2, CD24A, KDR
GOTERM_BP_DIR_ECT	GO:0032757~positive regulation of interleukin-8 production	4 72	0.046869	SERPINE1, TLR2, LBP, TLR7
GOTERM_BP_DIR_ECT	GO:0048010~vascular endothelial growth factor receptor signaling pathway	4 72	0.046869	PTK2B, SULF1, VAV1, KDR

GOTERM_BP_DIR_ECT	GO:0045662~negative regulation of myoblast differentiation	4	0.051739 73	BMP4, CCL9, NMRK2, CXCL10
GOTERM_BP_DIR_ECT	GO:0032967~positive regulation of collagen biosynthetic process	4	0.051739 73	BMP4, CTGF, RGCC, SCX
GOTERM_BP_DIR_ECT	GO:0030325~adrenal gland development	4	0.056843 76	CDKN1C, DKK3, TSPO, FSTL3
GOTERM_BP_DIR_ECT	GO:0042476~odontogenesis	4	0.056843 76	MYO5A, BMP4, INHBA, PAM
GOTERM_BP_DIR_ECT	GO:0030099~myeloid cell differentiation	4	0.056843 76	CEBPA, CDKN1C, CCR1, CLEC5A
GOTERM_BP_DIR_ECT	GO:2000352~negative regulation of endothelial cell apoptotic process	4	0.062176 59	SERPINE1, ANGPT1, ANGPTL4, KDR
GOTERM_BP_DIR_ECT	GO:0007052~mitotic spindle organization	4	0.062176 59	WDR62, GPSM2, STMN1, AURKB
GOTERM_BP_DIR_ECT	GO:0031214~biomineral tissue development	4	0.067732 6	ASPN, TMEM119, ECM1, SPP1
GOTERM_BP_DIR_ECT	GO:0032570~response to progesterone	4	0.073505 79	TSPO, TLR2, PTN, TGFB2
GOTERM_BP_DIR_ECT	GO:0031663~lipopolysaccharide-mediated signaling pathway	4	0.079489 88	CCL12, LBP, TREM2, CD14
GOTERM_BP_DIR_ECT	GO:2000379~positive regulation of reactive oxygen species metabolic process	4	0.079489 88	NOX4, TSPO, CYP1B1, PTK2B
GOTERM_BP_DIR_ECT	GO:0043029~T cell homeostasis	4	0.079489 88	CORO1A, CASP3, CCNB2, NCKAP1L
GOTERM_BP_DIR_ECT	GO:0043388~positive regulation of DNA binding	4	0.085678 28	HMGB2, MMP9, MYC, PLAUR
GOTERM_BP_DIR_ECT	GO:0061077~chaperone-mediated protein folding	4	0.085678 28	FKBP5, CLU, TTC9, FKBP11
GOTERM_BP_DIR_ECT	GO:2000134~negative regulation of G1/S transition of mitotic cell cycle	4	0.085678 28	FHL1, SLFN9, GPNMB, SLFN1
GOTERM_BP_DIR_ECT	GO:0045071~negative regulation of viral genome replication	4	0.085678 28	ISG15, IFITM1, OASL1, OAS3
GOTERM_BP_DIR_ECT	GO:0050776~regulation of immune response	4	0.085678 28	CLEC12A, FCER1G, FCGR1, FCGR3
GOTERM_BP_DIR_ECT	GO:0032147~activation of protein kinase activity	4	0.092064 22	SLC11A1, TPX2, ITGB3, TGFB2
GOTERM_BP_DIR_ECT	GO:0032467~positive regulation of cytokinesis	4	0.092064 22	KIF23, KIF20B, AURKB, RACGAP1

GOTERM_BP_DIR_ECT	GO:1900026~positive regulation of substrate adhesion-dependent cell spreading	4	0.092064 22	CARMIL1, S100A10, ITGB3, DBN1
GOTERM_BP_DIR_ECT	GO:0071310~cellular response to organic substance	4	0.092064 22	EGR1, CD68, CASP3, IQGAP3
GOTERM_BP_DIR_ECT	GO:0042110~T cell activation	4	0.098640 69	CD48, DOCK2, VAV1, WAS
GOTERM_BP_DIR_ECT	GO:0007080~mitotic metaphase plate congression	4	0.098640 69	KIF22, KIFC1, CDCA8, CENPE
GOTERM_BP_DIR_ECT	GO:0050769~positive regulation of neurogenesis	4	0.098640 69	ACE, BMP2, STAR, SERPINF1
GOTERM_BP_DIR_ECT	GO:0001805~positive regulation of type III hypersensitivity	3	0.006124 58	FCER1G, FCGR1, FCGR3
GOTERM_BP_DIR_ECT	GO:0060244~negative regulation of cell proliferation involved in contact inhibition	3	0.006124 58	SRPX, DACH1, PAK1
GOTERM_BP_DIR_ECT	GO:0014012~peripheral nervous system axon regeneration	3	0.009987 15	TSPO, APOD, TNC
GOTERM_BP_DIR_ECT	GO:0018119~peptidyl-cysteine S-nitrosylation	3	0.009987 15	S100A8, S100A9, NOS2
GOTERM_BP_DIR_ECT	GO:0002693~positive regulation of cellular extravasation	3	0.014658 05	PLVAP, ADAM8, PTAFR
GOTERM_BP_DIR_ECT	GO:0001936~regulation of endothelial cell proliferation	3	0.014658 05	BMP4, ALDH1A2, KDR
GOTERM_BP_DIR_ECT	GO:0033622~integrin activation	3	0.020080 49	FERMT3, COL16A1, FN1
GOTERM_BP_DIR_ECT	GO:0051988~regulation of attachment of spindle microtubules to kinetochore	3	0.020080 49	SPAG5, KNSTRN, RACGAP1
GOTERM_BP_DIR_ECT	GO:0051549~positive regulation of keratinocyte migration	3	0.026200 52	MMP9, SERPINE1, HBEGF
GOTERM_BP_DIR_ECT	GO:0002223~stimulatory C-type lectin receptor signaling pathway	3	0.026200 52	FCER1G, CLEC7A, CLEC4N
GOTERM_BP_DIR_ECT	GO:0006691~leukotriene metabolic process	3	0.026200 52	NCF1, ALOX5AP, TLR2

GOTERM_BP_DIR_ECT	GO:0002446~neutrophil mediated immunity	3	0.026200 52	ACE, MYO1F, CD300LB
GOTERM_BP_DIR_ECT	GO:0050810~regulation of steroid biosynthetic process	3	0.026200 52	TSPO, STAR, IGFBP7
GOTERM_BP_DIR_ECT	GO:0002675~positive regulation of acute inflammatory response	3	0.026200 52	PIK3CG, ALOX5AP, ADAM8
GOTERM_BP_DIR_ECT	GO:0019227~neuronal action potential propagation	3	0.026200 52	CLCN1, SCN1B, CNTNAP1
GOTERM_BP_DIR_ECT	GO:0001878~response to yeast	3	0.026200 52	CD86, ANG, NCF1
GOTERM_BP_DIR_ECT	GO:0032680~regulation of tumor necrosis factor production	3	0.032966 91	ZFP36, ANGPT1, CD300LD
GOTERM_BP_DIR_ECT	GO:0060346~bone trabecula formation	3	0.032966 91	SFRP1, COL1A1, THBS3
GOTERM_BP_DIR_ECT	GO:0042308~negative regulation of protein import into nucleus	3	0.032966 91	APOD, CABP1, ANGPT1
GOTERM_BP_DIR_ECT	GO:0031340~positive regulation of vesicle fusion	3	0.032966 91	PLA2G4A, ANXA1, ANXA2
GOTERM_BP_DIR_ECT	GO:0030071~regulation of mitotic metaphase/anaphase transition	3	0.032966 91	PLK1, CENPE, UBE2C
GOTERM_BP_DIR_ECT	GO:0060452~positive regulation of cardiac muscle contraction	3	0.032966 91	HSP90AA1, CTGF, NPPA
GOTERM_BP_DIR_ECT	GO:0002504~antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	3	0.032966 91	H2-EB1, H2-AA, H2-AB1
GOTERM_BP_DIR_ECT	GO:0034501~protein localization to kinetochore	3	0.040331 02	CDK1, BUB1B, AURKB
GOTERM_BP_DIR_ECT	GO:0002827~positive regulation of T-helper 1 type immune response	3	0.040331 02	SLC11A1, CCR2, H2-AB1
GOTERM_BP_DIR_ECT	GO:0043534~blood vessel endothelial cell migration	3	0.040331 02	GPX1, PTK2B, ADAM8
GOTERM_BP_DIR_ECT	GO:0006957~complement activation, alternative pathway	3	0.040331 02	CFP, C3, CFB
GOTERM_BP_DIR_ECT	GO:0060055~angiogenesis involved in wound healing	3	0.040331 02	GPX1, HPSE, ITGB3

GOTERM_BP_DIR_ECT	GO:0006809~nitric oxide biosynthetic process	3 02	0.040331 69	HSP90AA1, CYP1B1, NOS2
GOTERM_BP_DIR_ECT	GO:0060100~positive regulation of phagocytosis, engulfment	3 69	0.048246 69	NCKAP1L, LBP, FCGR1
GOTERM_BP_DIR_ECT	GO:0000050~urea cycle	3 69	0.048246 69	CEBPA, ASS1, GM5424
GOTERM_BP_DIR_ECT	GO:0045577~regulation of B cell differentiation	3 69	0.048246 69	PTPN6, NFAM1, CD24A
GOTERM_BP_DIR_ECT	GO:0051639~actin filament network formation	3 69	0.048246 69	CARMIL1, ACTN1, LCP1
GOTERM_BP_DIR_ECT	GO:0007252~I-kappaB phosphorylation	3 12	0.056670 12	SAA3, TLR2, TLR7
GOTERM_BP_DIR_ECT	GO:0071294~cellular response to zinc ion	3 12	0.056670 12	TSPO, MT2, MT1
GOTERM_BP_DIR_ECT	GO:0001542~ovulation from ovarian follicle	3 12	0.056670 12	PLA2G4A, MMP19, NOS2
GOTERM_BP_DIR_ECT	GO:0035313~wound healing, spreading of epidermal cells	3 12	0.056670 12	HBEGF, COL5A1, MMP12
GOTERM_BP_DIR_ECT	GO:0002237~response to molecule of bacterial origin	3 79	0.065559 79	TLR2, CD24A, CD14
GOTERM_BP_DIR_ECT	GO:0060317~cardiac epithelial to mesenchymal transition	3 79	0.065559 79	RTN4, BMP2, TGFB2
GOTERM_BP_DIR_ECT	GO:0010524~positive regulation of calcium ion transport into cytosol	3 79	0.065559 79	BMP4, TRPC3, AKAP5
GOTERM_BP_DIR_ECT	GO:0032743~positive regulation of interleukin-2 production	3 34	0.074876 34	CCR2, ANXA1, SASH3
GOTERM_BP_DIR_ECT	GO:2000279~negative regulation of DNA biosynthetic process	3 34	0.074876 34	DUSP1, DACH1, ANKRD1
GOTERM_BP_DIR_ECT	GO:0030194~positive regulation of blood coagulation	3 34	0.074876 34	HPSE, S100A9, SERPINE1
GOTERM_BP_DIR_ECT	GO:0001775~cell activation	3 34	0.074876 34	CD24A, FN1, TIMP1
GOTERM_BP_DIR_ECT	GO:0043267~negative regulation of potassium ion transport	3 34	0.074876 34	PTK2B, AKAP5, KCNA5
GOTERM_BP_DIR_ECT	GO:0051489~regulation of filopodium assembly	3 34	0.074876 34	MYO10, PPP1R9A, DBN1
GOTERM_BP_DIR_ECT	GO:0060252~positive regulation of glial cell proliferation	3 34	0.074876 34	TSPO, VIM, MYC

GOTERM_BP_DIR_ECT	GO:0030225~macrophage differentiation	3 34	0.074876	CEBPA, BMP4, SPI1
GOTERM_BP_DIR_ECT	GO:0006518~peptide metabolic process	3 34	0.074876	PAM, ACE, AEBP1
GOTERM_BP_DIR_ECT	GO:0030949~positive regulation of vascular endothelial growth factor receptor signaling pathway	3 34	0.074876	BMP4, ANGPT1, KDR
GOTERM_BP_DIR_ECT	GO:0042573~retinoic acid metabolic process	3 47	0.084582	ALDH1A2, RBP1, CYP26B1
GOTERM_BP_DIR_ECT	GO:0033627~cell adhesion mediated by integrin	3 47	0.084582	ITGB6, ITGB3, COL16A1
GOTERM_BP_DIR_ECT	GO:0061351~neural precursor cell proliferation	3 47	0.084582	TRNP1, GRN, DBN1
GOTERM_BP_DIR_ECT	GO:2001241~positive regulation of extrinsic apoptotic signaling pathway in absence of ligand	3 47	0.084582	INHBA, SRPX, TGFB2
GOTERM_BP_DIR_ECT	GO:0007263~nitric oxide mediated signal transduction	3 47	0.084582	MT2, MT1, NOS2
GOTERM_BP_DIR_ECT	GO:2000649~regulation of sodium ion transmembrane transporter activity	3 87	0.094642	SCN1B, SCN4B, FXYD5
GOTERM_BP_DIR_ECT	GO:0002755~MyD88-dependent toll-like receptor signaling pathway	3 87	0.094642	TLR13, TLR2, TLR7
GOTERM_BP_DIR_ECT	GO:0010288~response to lead ion	3 87	0.094642	NCAM1, STAR, SPARC
GOTERM_BP_DIR_ECT	GO:2000406~positive regulation of T cell migration	3 87	0.094642	ITGB3, ADAM8, CXCL10
GOTERM_BP_DIR_ECT	GO:0061036~positive regulation of cartilage development	3 87	0.094642	BMP4, BMP2, SCX
GOTERM_BP_DIR_ECT	GO:0032270~positive regulation of cellular protein metabolic process	3 87	0.094642	INHBA, UHRF1, PTK2B
GOTERM_BP_DIR_ECT	GO:0031529~ruffle organization	3 87	0.094642	PLEK, CARMIL1, CSF1R
GOTERM_BP_DIR_ECT	GO:0070488~neutrophil aggregation	2 35	0.064302	S100A8, S100A9
GOTERM_BP_DIR_ECT	GO:2000098~negative regulation of smooth muscle cell-matrix adhesion	2 35	0.064302	APOD, SERPINE1

GOTERM_BP_DIR_ECT	GO:0003130~BMP signaling pathway involved in heart induction	2 35	0.064302	BMP4, BMP2
GOTERM_BP_DIR_ECT	GO:0071373~cellular response to luteinizing hormone stimulus	2 35	0.064302	STAR, CCNA2
GOTERM_BP_DIR_ECT	GO:0000915~actomyosin contractile ring assembly	2 35	0.064302	KIF23, RACGAP1
GOTERM_BP_DIR_ECT	GO:0031449~regulation of slow-twitch skeletal muscle fiber contraction	2 35	0.064302	GM34302, MYH7
GOTERM_BP_DIR_ECT	GO:1903225~negative regulation of endodermal cell differentiation	2 35	0.064302	COL5A2, COL5A1
GOTERM_BP_DIR_ECT	GO:0051383~kinetochore organization	2 49	0.094888	SMC2, SMC4
GOTERM_BP_DIR_ECT	GO:0031577~spindle checkpoint	2 49	0.094888	BIRC5, AURKB
GOTERM_BP_DIR_ECT	GO:0002246~wound healing involved in inflammatory response	2 49	0.094888	HMOX1, CCR2
GOTERM_BP_DIR_ECT	GO:0035993~deltoid tuberosity development	2 49	0.094888	BMP4, SCX
GOTERM_BP_DIR_ECT	GO:0010046~response to mycotoxin	2 49	0.094888	LCN2, ASS1
GOTERM_BP_DIR_ECT	GO:0035989~tendon development	2 49	0.094888	SCX, COL5A1
GOTERM_BP_DIR_ECT	GO:0071603~endothelial cell-cell adhesion	2 49	0.094888	CYP1B1, THBS4
GOTERM_BP_DIR_ECT	GO:0072138~mesenchymal cell proliferation involved in ureteric bud development	2 49	0.094888	BMP4, BMP2
GOTERM_BP_DIR_ECT	GO:0000053~argininosuccinate metabolic process	2 49	0.094888	ASS1, GM5424
GOTERM_BP_DIR_ECT	GO:1901509~regulation of endothelial tube morphogenesis	2 49	0.094888	ADAMTS12, CXCL10
GOTERM_BP_DIR_ECT	GO:0071378~cellular response to growth hormone stimulus	2 49	0.094888	STAR, MYC
GOTERM_BP_DIR_ECT	GO:0002924~negative regulation of humoral immune response mediated by circulating immunoglobulin	2 49	0.094888	PTPN6, FCGR2B

GOTERM_BP_DIR ECT	GO:2001180~negative regulation of interleukin-10 secretion	2	0.094888 49	CD84, TNFRSF21
GOTERM_BP_DIR ECT	GO:0042376~phylloquinone catabolic process	2	0.094888 49	CYP4F18, CBR3
GOTERM_BP_DIR ECT	GO:0009609~response to symbiotic bacterium	2	0.094888 49	GPX1, PTAFR
GOTERM_BP_DIR ECT	GO:0071727~cellular response to triacyl bacterial lipopeptide	2	0.094888 49	TLR2, CD14
GOTERM_BP_DIR ECT	GO:0061035~regulation of cartilage development	2	0.094888 49	BMP4, SCX