

Supp Table S5. Pathway analysis of RNA-sequencing data in pancreatic islets isolated from control E2f1fl/fl and beta-cell specific E2f1beta^{-/-} deficient mice identifies potential upstream regulators associated to E2f1 deficiency.

Upstream Regulator	Expr Log Ratio	Molecule Type	Predicted Activation	Activation z-score	p-value of over	Target Molecules in Dataset	Mechanistic N	
TNF		cytokine	Activated	6.542	bias	9,24E-35	ALGALT,ACOD1,AKR1B10,ALCAM,ALDH2,AMPD3,APOA1,APOBEC3B,ARID5B,B4GALNT1	192 (14)
IFNG		cytokine	Activated	6.621	bias	7,25E-33	ACOD1,BCL2L1,BIRC3,BLNK,BMF,BMP6,BST1,C1R,CAMK4,CASP3	199 (18)
lipopolysaccharide		chemical drug	Activated	8,302	bias	3,99E-31	ACOD1,ALCAM,ALDH2,AMPD3,ANXA3,APOA1,APOBEC3B,ApofE (includes others),ARHGEF3,BATF	215 (14)
TGFβ1		growth factor	Activated	7,75E-23	bias	1,75E-23	ADAM1,ALGALT,ARHGEF3,BMP2,BMP4,BMP6,BUB1,C1R,CASP3	235 (19)
dexamethasone		chemical drug	Activated	1,059	bias	6,77E-23	ACOT7,ALAS1,ALCAM,AMIGO2,AMPD3,ANXA3,APOA1,BATF,BCL2L1,BIRC3	222 (15)
IL1β	1,038	cytokine	Activated	5,905	bias	1,30E-22	ALGALT,ACOD1,AMPD3,ANTXR1,BCL2L1,BIRC3,BMF,BMP2,BMP4,C1R	240 (19)
NFKBIA	0,623	transcription regulator	Activated	2,801	bias	9,07E-19	ACOD1,AMPD3,APOA1,BCL11A,BCL2L1,BIRC3,BMP2,CNAA2,CD40,CD86	196 (17)
TNFSF11		cytokine	Activated	5,689	bias	2,84E-18	ACOD1,BCL2L1,BMP4,BST1,BIRC3,BMP2,CNAA2,CD40,CD86,CSF3	133 (21)
beta-estradiol		chemical - endogenous mamma	Activated	2,051	bias	8,85E-17	ACOD1,ALCAM,ANXA3,APOA1,ARID5B,BATF,BCL2L1,BIRC3,BLNK,BMP2	263 (21)
CSF2		cytokine	Activated	5,651	bias	4,93E-17	BCL2L1,BIRC3,BUB1,CASP3,CNAA2,COR7,CD14,CD28,CD40,CD83	232 (17)
IL4		cytokine	Activated	3,078	bias	5,78E-17	ACOD1,ADAM19,ALAS1,ALDH2,ANXA6,B4GALNT1,BCL11A,CAMK1D,CASP3,COR7	187 (16)
IKZF1		transcription regulator	Inhibited	4,354	bias	2,66E-16	ADAM19,ANTXR1,BLNK,CAV2,CD86,CD8A,CSF3,DEP1,DOCK1,DOCK4	
interleukin A		chemical drug	Activated	2,202	bias	7,12E-16	ANXA6,BCL11A,BCL2L1,BMP2,BMP4,CASP3,CNAA2,COR7,CD14,CD28	
MYD88		other	Activated	4,953	bias	1,59E-15	ACOD1,APOBEC3B,BATF,CD14,CD40,CD44,CD83,CD86,CEBPB,CSF1	229 (22)
HRAS		enzyme	Activated	-0,331	bias	1,75E-15	ANTXR1,ANXA3,ANXA6,BIRC3,BMP4,CNAA2,CD44,CD81,CEBPB,CRM1	223 (19)
NFκB (complex)		complex	Activated	6,136	bias	3,04E-15	B4GALT1,BATF,BCL11A,BCL2L1,BIRC3,BMP2,C1R,CCRAR,COR7,CD40	185 (12)
decalbine		chemical drug	Activated	3,610	bias	6,35E-15	BCL11A,BIRC3,BMP4,BTG3,CNAA2,COR7,CD44,CD8A,CD9,CDCA7	219 (20)
IKRKB		kinase	Activated	3,454	bias	7,53E-15	ACOD1,AMPD3,BIRC3,BMP2,CNAA2,COR7,CD44,CEBPB,CP,CSF1	185 (13)
cyclosporin A		biologic drug	Activated	0,308	bias	9,42E-15	ALAS1,ANG,BATF,BIRC3,BMP2,CASP3,COR7,CD14,CD28,CD40,CD44	214 (21)
IL10		cytokine	Activated	0,825	bias	1,16E-14	BCL2L1,BMP2,BMP6,CASP3,COR7,CD14,CD2,CD28,CD40,CD44	180 (19)
TICAM1		other	Activated	4,566	bias	2,89E-14	ACOD1,APOBEC3B,ApofE (includes others),Cg2,CD40,CD86,CEBPB,FAS,GDF15,ICAM1	137 (17)
IL2		cytokine	Activated	5,046	bias	3,44E-14	ADAM19,ARHGEF3,Bcl2L1,BIRC3,BMP2,CASP3,COR7,CD2,CD28,CD40	180 (19)
IL6		cytokine	Activated	4,595	bias	1,19E-13	AKR1B10,ALAS1,ANG,APOA1,BATF,BMP2,BMP6,BUB1,CASP3,CNAA2	191 (16)
OGA		enzyme	Activated	-0,434	bias	1,51E-13	ADAM19,AHNAK2,CAMK1D,CD14,CD40,CD44,CD86,CD8A,CDCA7,CEBPA	114 (7)
cisplatin		chemical drug	Activated	4,037	bias	1,69E-13	AHNAK2,BCL2L1,BIRC3,BMP4,CASP3,CD14,CD44,CD86,CEBPA,CLCA1	219 (20)
transferrin		chemical drug	Activated	3,965	bias	2,95E-13	BIRC3,CD14,CD44,CDLNA,CP,LAMC2,MC3,MR1,PSMB10,RCN1	172 (17)
poly r(r)-RNA		biologic drug	Activated	5,531	bias	7,71E-13	ACOD1,ApofE (includes others),BIRC3,BMP2,COR7,CD14,CD40,CD44,CD83,CD86	194 (14)
fenamic acid		chemical reagent	Activated	3,959	bias	6,24E-13	BIRC3,CD14,CD44,CDLNA,CP,LAMC2,MC3,MR1,PSMB10,RCN1	
salmonella minnesota R595 lip		chemical - endogenous non-mar	Activated	4,378	bias	7,27E-13	ACOD1,Cg2,Cd8,CD83,CD86,CEBPB,FOSL1,GDF15,ICAM1,IL1B	182 (16)
immunoglobulin		complex	Activated	0,524	bias	8,30E-13	ADAM19,BATF,BCL2L1,BIRC3,COR7,CD14,CD28,CD40,CD44,CD86	172 (17)
CEBPB		transcription regulator	Activated	4,177	bias	9,07E-13	AKR1B10,ANTXR1,BCL2L1,BLNK,CNAA2,CD14,CEBPA,CEBPB,CP,CSF3	204 (20)
IKKα		kinase	Activated	3,290	bias	1,03E-12	ACOD1,AMPD3,BIRC3,BMP2,Cg2,CEBPB,CP,CSF1,CTSZ,CXCL12,CYBA	209 (13)
allopurinol		chemical drug	Activated	3,637	bias	1,56E-12	BIRC3,CD14,CD44,CDLNA,CP,IL1B,LAMC2,MC3,MR1,PSMB10	
vancomycin		biologic drug	Activated	3,483	bias	2,84E-12	BIRC3,CD14,CD44,CDLNA,CP,LAMC2,MC3,MR1,PSMB10,RCN1	
STAT3		transcription regulator	Activated	1,893	bias	3,79E-12	BATF,BMF,CASP3,CD40,CD83,CD86,Cg2,CEBPA,CRM1,PSMB10,RCN1	185 (22)
KRAS		enzyme	Activated	1,188	bias	3,94E-12	AKR1B10,BCL2L1,BIRC3,BMP4,CASP3,CAVIN1,CNAA2,CD44,CLIC5,CSF2R8	203 (21)
IL1A		cytokine	Activated	4,591	bias	4,06E-12	BIRC3,Cg2,CD40,CD44,CD83,CD86,Cle2d (includes others),CSF1,CSF3,CXCL12	180 (15)
resiquimod		chemical drug	Activated	3,566	bias	4,58E-12	BATF,BCL2L1,Cg2,CD40,CD44,CD83,CD86,Cle2d (includes others),CSF3,CXCL12	145 (16)
purinomycin aminonucleoside		chemical reagent	Activated	2,621	bias	4,61E-12	CD14,CD44,CDLNA,CLIC5,CP,CYBA,GSTP1,LAMC2,MC3,MR1	
progesterone		chemical - endogenous mamma	Activated	3,040	bias	4,14E-12	ACOD1,ALGALT,AMPD3,AMY2A,BIRC3,BMP2,CNAA2,CD40,CD86	
doxorubicin		chemical drug	Activated	4,451	bias	7,23E-12	ANXA6,BCL2L1,BIRC3,BMP4,CASP3,CD14,CD40,CD44,CDLNA,CP	
E. coli B5 lipopolysaccharide		chemical - endogenous non-mar	Activated	4,073	bias	7,64E-12	ALDH2,APOA1,BIRC3,COR7,CD40,CD44,CD83,CD86,CEBPA,CSF3	176 (14)
IL33		cytokine	Activated	4,282	bias	8,75E-12	BCL2L1,BIRC3,Cg2,CD40,CD86,CXCL16,FAS,GADD45B,GATA3,ICAM1	146 (16)
EP300		transcription regulator	Activated	0,647	bias	1,07E-11	ANXA6,ARHGEF3,BMF,CAMK4,COR7,CEBPA,CRM1,CRISPLD2,CSF3,DHR53	248 (23)
PARP8		ligand-dependent nuclear recep	Activated	1,760	bias	1,07E-11	ACOD1,BCL2L1,CAV2,Cg2,CD40,CD44,CD86,CEBPB,CDL12,CYBA	215 (17)
CHUK		kinase	Activated	4,203	bias	1,69E-11	ACOD1,AMPD3,BMP2,Cg2,CEBPB,CP,CSF1,CTSZ,CXCL12,CYBA	192 (14)
ZBTB16	3,395	transcription regulator	Activated	0,209	bias	1,77E-11	BMP2,CASP3,CNAA2,CD14,CD2,CD44,CD81,CD83,CD86,CD8A	160 (7)
TP53		transcription regulator	Activated	4,025	bias	2,85E-11	ANTXR1,ANXA3,ANXA6,APOA1,BCL2L1,BIRC3,BMF,BUB1,CASP3,CAV2	229 (22)
trichostin		chemical - endogenous mamma	Activated	4,896	bias	2,89E-11	ALAS1,ANXA6,APB1P,ATC9B,BCL2L1,BIRC3,BMP2,BMP4,BMP6,CAMK4	238 (23)
COX		complex	Activated	4,388	bias	2,94E-11	AKR1B10,BMP2,BTG3,CAMK4,Cg2,CEBPA,CEBPB,DMD,FABP5,FAS	238 (22)
STAT1		transcription regulator	Activated	4,251	bias	3,62E-11	ACOD1,ALPK1,APOBEC3B,C1R,CASP3,COR7,CD14,CD40,CD86,CEBPB	191 (18)
gentamicin C		chemical drug	Activated	3,729	bias	4,12E-11	BIRC3,CD14,CD44,CDLNA,CP,DMD,LAMC2,MC3,MR1,PSMB10	
imustine		chemical drug	Activated	3,742	bias	4,12E-11	BIRC3,CD14,CD44,CDLNA,CP,LAMC2,MC3,MR1,SLC34A2,TMEM172	
ERK1/2		group	Activated	3,30E-11	bias	4,30E-11	AKR1B10,BCL2L1,BIRC3,BMP2,COR7,CD40,CD44,CD86,CEBPB,CXCL12	215 (17)
Alpha catenin		group	Inhibited	-4,059	bias	6,41E-11	BIRC3,CXCL12,GAP43,IL1B,IL36G,IL6ST,KLK3,LAMA2,LYN,NFKBIA	177 (15)
STAT5A		transcription regulator	Activated	0,745	bias	7,46E-11	BCL11A,BCL2L1,BIRC3,CASP3,Cg2,CD86,CEBPA,CSF3,CXCR3,FAS	252 (19)
CDM1G		cytokine	Activated	3,119	bias	8,19E-11	ALGALT,ALCAM,ANXA6,BATF,BCL2L1,BIRC3,BTG3,COR7,CD40,CD44	138 (14)
IL10RA		transmembrane receptor	Activated	-1,612	bias	1,20E-10	ACOD1,ALDH2,BMP2,BMP4,COR7,CD14,CD83,CD86,FABP5,FAS	177 (15)
ID2		transcription regulator	Activated	0,786	bias	9,43E-11	BATF,COR7,CD44,CD83,CSF1,CSF2R8,CXCR3,GADD45B,HOMER2,ICAM1	135 (7)
prostaglandin E2		chemical - endogenous mamma	Activated	4,183	bias	1,07E-10	BIRC3,BMP2,CASP3,COR7,CD14,CD40,CD44,CD83,CD86,CEBPB	150 (16)
TCF3		transcription regulator	Activated	1,213	bias	1,08E-10	ALCAM,ANXA6,BLNK,BUB1,CASP3,CNAA2,Cg2,Cle2d (includes others),CTRB2,DOCK1	30 (2)
ERBB2		kinase	Activated	2,690	bias	1,08E-10	ALAS1,ALAS1,ANG,ARHGEF3,BUB1,CAVIN1,CNAA2,COR7,CDCA7,CDL12	230 (23)
EphA2		chemical drug	Activated	-1,001	bias	1,10E-10	ACOD1,ALAS1,CASP3,Cg2,CD14,CD44,CD86,CEBPB,DFA,FAS,FTL	254 (23)
PI3K (complex)		complex	Activated	3,094	bias	1,29E-10	BIRC3,CASP3,Cg2,CD2,CD4,CD86,FABP5,FOSL1,GAP43,GATA3	203 (19)
Jnk		group	Activated	3,528	bias	1,56E-10	BIRC3,BMF,CASP3,Cg2,COR7,CD40,CD44,CD83,CD86,CXCL12	180 (16)
methylprednisolone		chemical drug	Activated	1,908	bias	1,75E-10	ALAS1,ANXA3,B4GALNT1,Ca91,CAMK1D,Cg2,CD24,CD44,CD86,DMD	215 (20)
CD3		transcription regulator	Activated	1,909	bias	1,90E-10	BATF,COR7,CD44,CD83,CSF1,CSF2R8,CXCR3,GADD45B,HOMER2,ICAM1	174 (11)
VCAN	0,768	other	Inhibited	-1,309	bias	1,98E-10	ANG,C1R,BMP2,Cg2,CRISPLD2,CXCL12,CYBA,FABP5,FAS,ICAM1	161 (19)
2-bromomethylamine		chemical reagent	Activated	3,434	bias	2,51E-10	CD14,CD44,CDLNA,CP,LAMC2,MC3,MR1,SLC34A2,TMEM173,TNFRSF12A	
E. coli B4 lipopolysaccharide		chemical toxicant	Activated	3,764	bias	2,62E-10	ACOD1,AMPD3,CASP3,Cg2,COR7,CD40,CD83,CD86,CSF3,FAS	183 (17)
ethionine		chemical toxicant	Activated	2,720	bias	2,67E-10	CD14,CD44,CP,LAMC2,MC3,PSMB10,SLC34A2,TNFRSF12A,Tpm1,TSPAN8	
SP1		transcription regulator	Activated	3,869	bias	2,80E-10	ACOD1,AMPD3,CNAA2,CD40,CD86,CEBPB,CXCL12	202 (21)
CD40	0,881	transmembrane receptor	Activated	3,352	bias	2,70E-10	ALGALT,BCL2L1,BIRC3,CNAA2,CD40,CD44,CD83,CD86,CD8A,CSF1	155 (15)
MYB		transcription regulator	Activated	-1,340	bias	3,07E-10	BIRC3,BLNK,BMF,Cg2,CD14,CSF3,CXCL12,CXCL16,GATA3,ICAM1	195 (20)
ESR1		ligand-dependent nuclear recep	Activated	0,647	bias	3,26E-10	ALCAM,ANXA3,APOA1,BIRC3,BMP2,BMP4,BUB1,CAV2,CBL,CNAA2	234 (20)
NOTCH1		transcription regulator	Activated	1,811	bias	3,34E-10	CD14,CD44,BIRC3,BMP2,CD14,CD44,CD86,CEBPB,CSF2R8	186 (15)
STAT6		transcription regulator	Activated	0,107	bias	3,40E-10	ADAM19,ALDH2,CAMK1D,Cg2,COR7,CD2,Cg2a4,CD40,DOCK10,EHD2	175 (16)
SMARCA4		transcription regulator	Activated	3,591	bias	3,78E-10	ALDH2,ANTXR2,APOA1,BATF,BCL2L1,BMP4,CASP3,CNAA2,CD44,CP	228 (20)
SP1		transcription regulator	Activated	2,737	bias	3,91E-10	BCL11A,BLNK,CNAA2,COR7,CD14,CD86,CEBPA,CSF1,CSF2R8,FTH1	178 (20)
Interferon alpha		group	Activated	3,825	bias	3,99E-10	ALGALT,ADAM19,APOBEC3B,BCL2L1,BMP4,CASP3,COR7,CD40,CD81,CD83	172 (17)
BCL6		transcription regulator	Activated	1,448	bias	4,44E-10	ALCAM,ANXA6,BCL2L1,BLNK,Cg2,COR7,CD14,CD86,CEBPB,DOCK10	177 (17)
IL3		cytokine	Activated	3,459	bias	7,60E-10	ALDH2,BIRC3,BMP2,CASP3,CD14,CD44,CD83,CD86,CSF1,CSF3	156 (17)
bleomycin		chemical drug	Activated	4,260	bias	8,81E-10	BMP4,CASP3,Cg2,Cd8,CD86,CD86,CEBPA,CXCL12,FAS,FOSL1	233 (19)
ADR8		group	Inhibited	-3,154	bias	9,41E-10	ARHGEF3,CASP3,Cg2,CNAA2,CD40,CD86,CLEC4D,FAS,GDF15,GSTA3	209 (22)
CREBBP		transcription regulator	Activated	3,339	bias	9,93E-10	ALAS1,ANXA6,ARHGEF3,CAMK4,COR7,CD14,CD86,CEBPB,CLIC5,CSF1	235 (19)
tetracyclinepyrrolol acetate		chemical drug	Activated	4,834	bias	1,01E-09	ANTXR1,ALAS1,AMIGO2,APOBEC3B,BCL2L1,BIRC3,BMF,CAV2,CNAA2,CSF1	235 (19)
NR3C1		ligand-dependent nuclear recep	Activated	-0,977	bias	1,05E-09	AMIGO2,ARHGEF3,BIRC3,BMF,BMP2,C1R,CD83,CEBPA,CORO2A,CYP3A7	238 (21)
ATF3		transcription regulator	Inhibited	-2,496	bias	1,25E-09	BIRC3,CD83,CXCL16,FBP1,G8P6,HSPB1,ICAM1,JD1,IL1B,JUN	224 (19)
IL13		cytokine	Activated	3,073	bias	1,26E-09	BATF,BCL2L1,Cg2,COR7,CD14,CD40,CD86,CEBPA,CSF1,CLCA1	178 (20)
TCR		complex	Activated	2,634	bias	1,33E-09	BATF,BAT1,BIRC3,COR7,CD28,CD44,CD86,CXCR3,FAS,GADD45B	170 (20)
KLF2		transcription regulator	Activated	-1,899	bias	1,42E-09	BMP4,Cg2,COR7,CD40,CD44,CD86,CEBPA,CXCR3,IO1,IO3	194 (19)
APOE		transporter	Activated	-1,448	bias	1,46E-09	APOA1,BMP4,CASP3,CCRAR,CD40,CD44,CD86,CD86,CSF1,CSR1P	156 (16)
Cg oligonucleotide		chemical drug	Activated	3,749	bias	1,48E-09	BCL2L1,CD14,CD44,CD83,CD86,CLEC4D,FAS,G8P6,Glycylat,ICAM1	180 (22)
JUN		transcription regulator	Activated	1,494	bias	1,49E-09	ALAS1,BCL2L1,BIRC3,Cg2,CNAA2,CD14,CD86,CEBPB,CSF1,CXCL16	121 (21)
resiquizone	0,556	chemical drug	Activated	2,010	bias	1,49E-09	CASP3,CAV2,CCRAR,Cg2,Cd8,CD86,CD86,CEBPA,CSF1,DHR53	207 (21)
PDGF BB		complex	Activated	3,317	bias	1,56E-09	BMP4,BMP6,CAV2,Cg2,CD44,CEBPB,CP,CSF1,CSF3,ENPP1	216 (22)
LY294002		chemical - kinase inhibitor	Inhibited	-3,867	bias	1,62E-09	BIRC3,BMP2,CASP3,CNAA2,CD14,CD44,CD83,CD86,CEBPA,CDLNA	198 (16)
hexachlorobenzene		chemical - kinase inhibitor	Activated	3,464	bias	1,65E-09	CD14,CD44,CP,LAMC2,MR1,PSMB10,RCN1,SLC34A2,TNFRSF12A,TSPAN8	
lge		complex	Activated	1,897	bias	1,78E-09	BATF,BCL2L1,CD2,Cg2,CD40,CD86,CSF3,GDF15,FAS,GADD45B	155 (17)
APP		other	Activated	1,618	bias	1,83E-09	ADAM19,ANXA6,BASP1,BMP,BMP4,BMP6,C1R,CASP3,CD40,CD44	220 (17)
GF1		transcription regulator	Inhibited	-3,260	bias	1,85E-09	ANXA6,Cg2,COR7,CD40,CEBPA,CSF1,GATA3,GZMA,ICAM1,IL1B	134 (13)
amphotericin		transcription regulator	Activated	1,879	bias	1,89E-09	BCL11A,BCL2L1,BIRC3,BTG3,CASP3,CD40,CD83,CD86,CSF1,FAS	170 (15)
IL1RA		transmembrane receptor	Activated	1,624	bias	1,93E-09	APOBEC3B,BATF,BMP2,COR7,CD14,CD44,CD86,CEBPB,CSF3	170 (15)
DUSP1		phosphatase	Activated	-0,961	bias	2,04E-09	BMP2,Cg2,CD40,CD86,FOSL1,GDF15,GJ2,ICAM1,IL1B,JUN	210 (24)
F2		peptidase	Activated	4,789	bias	2,16E-09	B4GALT1,BIRC3,CASP3,Cg2,CNAA2,CD44,CD86,CDCA2EP1,DOCK10,FOSL1	168 (15)
5-O-methyl-beta-araf-1->2-5,4		chemical - endogenous non-mar	Activated	3,695	bias	2,20E-09	BCL2L1,COR7,CD40,CD44,CD83,ICAM1,IL1B,MGLL,NFKB1,RND3	174 (13)
IL17A		cytokine	Activated	3,673	bias	2,21E-09	BCL2L1,Cg2,Cd8,CD14,CD86,CD86,HLA-A,ICAM1,IL1B,IRAK3,JAG1	144 (15)
lactonin		chemical drug						

FNB1		cytokine	Activated	2.766	bias	5.54E-08	ACOD1 ApolF6 (includes others) CASP3 Cc2, CD14, CD24a, CD40, CD83, CD86, GBP6	168	18
MAP3K9		kinase		1.545	bias	5.85E-08	BIRC3, BMP4, Cc2, DMD, FAS, FOSL1, GADD45B, HMG1, IF16, IL1B	216	218
15-deoxy-delta12,14 -PGU 2		chemical - endogenous mammal		0.233	bias	5.86E-08	BIRC3, CASP3, CAV2, Cc2, CEPBD, FTL1, GDF15, GSTP1, HSPB1, ICAM1	227	222
asvatrol		chemical drug		0.598		5.90E-08	BLZ2A1, BIRC3, BMP2, CASP3, Cc2, CD4, CD8, FAS, FOSL1, GDF15	179	177
labetalol-regionalle		chemical drug		1.668	bias	6.38E-08	CD40, CD86, FABP5, FAS, ICAM1, LY75	122	103
IL12 (complex)		complex		1.642	bias	7.56E-08	CASP3, Cc2, CCR7, CD28, CD44, CD86, CSF1, CXCR3, FAS, GADD45B	153	165
methyleneselenic acid		chemical reagent		7.65E-08			B4GALT1, BCL2A1, BIRC3, BMP4, CAMK4, CNA2, CD44, GDF15, ID1, ID3	241	222
NFKB1		transcription regulator	Activated	2.882	bias	7.73E-08	CD14, BIRC3, BMP2, Cc2, CD40, CD86, CEPBA, CSF1, FAS, GATA3	203	144
gemisin1		chemical drug		1.628	bias	7.94E-08	ALAS1, APOA1, BMP2, BTG3, CASP3, CD44, CD86, CEPBA, CXCL12	190	211
YGE		other		1.137	bias	8.35E-08	CD14, CD83, IL1B, IRAK2, NFKB1, RELB, SERPINE1	190	211
IGF1		growth factor	Activated	2.917	bias	9.84E-08	BLZ2A1, BIRC3, BMP2, BMP4, CASP3, CNA2, CD44, CEPBD, CSF1, CYBA	215	211
SMAD3		transcription regulator	Activated	1.652	bias	1.00E-07	APOA1, BMP2, BMP6, Cc2, CRISPLD2, DCLKA, GADD45B, GATA3, GZMA, Hamp/Hamp2	199	209
VEGFA		growth factor	Activated	2.219	bias	1.02E-07	ALAS1, ALDH2, BATF, BCL2A1, BMP2, BMP4, CASP3, CD40, CD83, CD86	166	177
lyseronic acid		chemical - endogenous mammal	Activated	2.762	bias	1.05E-07	Cc2, CCR7, CD40, CD44, CD83, CD86, ICAM1, IL1B, IRAK3, IRF5	183	183
l-lysyl-L-lysine methyl ester		chemical drug		1.439	bias	1.05E-07	CASP3, Cc2, CD86, CD83, CD86, CSF1, CYBA, FAS, ICAM1, IL1B, IL4, IL8	141	161
PTGER4		G-protein coupled receptor		-1.207		1.06E-07	Cc2, CCR7, CD40, CD44, CP, GABR1, GBP6, H2-M2, ICAM1, IF16	193	193
dextran sulfate		chemical drug		1.012	bias	1.07E-07	BUB1, Cc2, CD8, CNA2, CD14, CD40, CD83, CD86, CSF3, ICAM1	154	177
tigoglossine		microRNA		0.784		1.14E-07	ALAS1, BIRC3, Cag1, CAV2, Cc2, CD86, CEPBA, CEPB, CYP3A7, DHR53	207	222
ion dextran		chemical drug		2.391	bias	1.16E-07	ALCALM, AMPK2, BIST1, Cc2, CD4, CD8, CD86, CSF1, HPDGS, ICAM1, IF16, IL1B, MCTP2	207	222
ADCYAP1		other		0.192		1.19E-07	BMP6, Cc2, Hamp/Hamp2, ID1, IL1B, NFKBIA		
bee venom		chemical - endogenous non-man		0.507	bias	1.19E-07	110009, J06R6K, Gm2653, BMP6, CAMK4, Cc2, Cc2, CDNA, CD40, CD86, CEPBD, GAP43, GATA3	167	187
LR3		complex	Activated	3.548	bias	1.22E-07	ACOD1, Cc2, HSPB1, ICAM1, IL1B, JUN, KLF4, LCP2, LPN2, NFKBIA	117	112
LR3		transmembrane receptor	Activated	3.548	bias	1.22E-07	APOBEC3B, BCL2A1, BMP2, CASP3, Cc2, CCR7, CD40, CD86, FAS, ICAM1	179	177
SHC1		other		1.062	bias	1.25E-07	ACOD1 ApolF6 (includes others) Cc2, CD4, CD86, GZMA, IL1B, IL4, IL8, GADD45B, Hamp/Hamp2	167	177
EGF		growth factor	Activated	3.789	bias	1.44E-07	BMF, CCR7, FTL1, GSTP1, ICAM1, NQO1, SDC4, SERPINE1, SOD2	167	177
SMAD4		transcription regulator	Activated	2.366	bias	1.56E-07	ALCALM, APOA1, B4GALT1, CASP3, CD44, CD42CEP1, CEPBD, CTRB2, CXCL14, CXCR3	192	211
AVD		chemical drug		1.800	bias	1.59E-07	APOA1, BMP2, BMP4, CAMK4, CSF1, DCLKA, GADD45B, ICAM1, ID1, IL1B	259	244
ZYAD-FMK		chemical - protease inhibitor		0.174		1.59E-07	BMP2, CASP3, Cc2, CD14, CD40, ICAM1, IL1B, JUN, MRC1	167	177
SMAD5		growth factor	Activated	3.140	bias	1.62E-07	BLZ2A1, BIRC3, CAMK4, CASP3, CD40, GATA3, IL1B, IL6ST, MLKL	154	177
carbolipin		transcription regulator	Activated	2.010	bias	1.66E-07	ANXA3, BMP6, CASP3, Cc2, CCR7, CD4, CD86, CP, CYBA, GAP43	195	188
IL21		chemical drug	Activated	2.530	bias	1.68E-07	BMP2, CSF1, Hamp/Hamp2, ICAM1, ID1, IL1B, RUNX2, SERPINE1	167	177
CD3		cytokine	Activated	3.374	bias	1.78E-07	CASP3, CD44, CD4, CP, LAMC2, MCM5, MRC1, SL, C3A42, TNFRSF12A, UPP1		
CD3		complex	Activated	3.844	bias	1.93E-07	ALAS1, ANG, BATF, BCL2A1, BIRC3, CIR, CASP3, Cc2, CD28, CD44	168	168
IL15		cytokine	Activated	2.546	bias	1.93E-07	CASP3, CD2, CD28, CD40, CD86, CD86, CD86, CD86, CSF1, CSF3	166	167
pinivic acid		chemical toxicant		3.249	bias	2.21E-07	AKR1B10, ALAS1, APOA1, Cc2, CDNA, Cc2, CD24a, CF, CXCL12, CYP3A7, FABP5	218	217
MYC		transcription regulator		1.102	bias	3.0E-07	ACOD1, ALCAM, ANXA6, BCL2A1, BUB1, CASP3, CD44, CD86, CD		

SOD1		chemical toxicant	Inhibited	-2.942	bias	6.54E-06	BC12A1.BIRC3.C2.C2.FAS.ICAM1.IFNRG2.IB.LB.RACK1.SERPINE1	140 (4)
BMP2	3,424	enzyme	Activated	1.982	bias	6.56E-06	BMP4.BUB1.CASP3.CD14.OP.FAS.FTH1.GSTP1.HSPB1.ICAM1	191 (7)
RARA		ligand-dependent nuclear recep	Activated	2.593	bias	6.74E-06	BMP2.BMP4.BTG3.Ca1k1.CAMK4.CSF1.CXCL12.GADD45B.Hamp/Hamp.ID1	185 (9)
PRDM12		transcription regulator	Inhibited	1.661	bias	6.78E-06	APOA1.CNNA2.CD14.CD44.CD9.CEBPA.CLMN.CCBP.CP.CSF3	230 (22)
12-O-phytolanediol		chemical drug	Activated	2.263	bias	6.78E-06	BC12A1.C2.C2.CD44.CD68.CRISPLD2.CSF3.DUSP16.FOSL1.FTH1	232 (18)
PP2A		chemical - kinase inhibitor	Inhibited	-2.963	bias	7.24E-06	AKR1B10.ALA31.CXCL14.Glycam1.GSTP1.HSPB1.HSP27.HL.A.IF1	221 (9)
MTPN		transcription regulator	Activated	3.130	bias	7.48E-06	BC12A1.CXCL16.ICAM1.ID1.IB.LB.JUP.KLK3.LYN.SERPINE1.SOD2	232 (19)
oxazoline		chemical reagent	Activated	1.289	bias	7.52E-06	BC12A1.CASP3.C2.C2.CNNA2.CEBPA.CP.FAS.HSPD.JUN.SERPINE1	102 (10)
CD44	0.486	other	Activated	2.897	bias	7.62E-06	C2.C2.Glycam1.ICAM1.IB.LB.SDC1.SDC4	94 (7)
CD44	5.084	growth factor	Activated	2.897	bias	7.62E-06	BIRC3.C2.C2.CD44.CD68.CXCR3.FAS.IB.LB.IRAXA.JUN	171 (18)
TRPC		transporter	Activated	2.817	bias	7.62E-06	BMP2.BMP4.Ca1k1.CD44.CD68.CSF3.DEPPI1.GAT3A.Hamp/Hamp.ID1	171 (18)
infixinab		biologic drug	Inhibited	-3.000	bias	6.84E-06	CASP3.CNNA2.FTH1.FTH1.HK2.JUN.LYN.V75.SLC11A2.STC2.TNFRSF12A	43 (3)
Vegf		group	Activated	4.094	bias	8.51E-06	ADAM19.BATF.BMP2.C2.C2.IB.LB.LAG3.MYO1B.NFKB1A.TG33	124 (11)
CD44		chemical reagent	Activated	2.847	bias	8.74E-06	BC12A1.BMP2.BUB1.CASP3.C2.C2.CD44.CD44.CXCL12.FAS.FOSL1	160 (17)
PRKCA		kinase	Inhibited	-2.887	bias	9.01E-06	BC11A.CNNA2.CD42.DHRG3.DOCK1.GAP43.GPRC3D1.KL.FA.MICAL2	111 (8)
celecoxib		chemical drug	Activated	0.595	bias	9.01E-06	BMP4.HEG1.IJLST.IR17R.JAG1.LRP1.NOTCH2.PTK7.PTPRK.SEMA3E	203 (23)
valproic acid		chemical drug	Activated	0.708	bias	9.01E-06	BC11A.CSF3.GDF15.ICAM1.ID1.IB3.JUN.NFKBIA.NQO1.OASL	197 (20)
PTGS2		enzyme	Activated	3.642	bias	9.43E-06	AMP3.ANTRX.APOA1.BAGALN1.CASP3.CD44.CD44.CD68.CDCA7.CEBPA	207 (20)
IKZF2		transcription regulator	Activated	2.646	bias	9.43E-06	CD44.CRM1.FAS.FOSL1.HLA.A.IF1.LYN.PRX2.IB.Sema3b3 (includes other).SRGAP3.ZBTB16	134 (8)
ATP-gamma-S		chemical reagent	Activated	9.62E-06	bias	9.62E-06	ANG.BIRC3.C2.C2.CD44.CD68.CSF3.CXCL12.CXCL14.ICAM1	175 (19)
Mat (family)		group	Activated	3.000	bias	9.67E-06	BATF.CD2.CD28.GATA3.GZMA.ICAM1.LAG3	165 (17)
UAP		enzyme	Activated	0.156	bias	9.72E-06	BAQALN1.CD40.DOCK10.FAS.ICAM1.KL.F6.LAG3.REL.B.SDC4.SERPINE1	178 (21)
sirolimus		chemical drug	Inhibited	-2.124	bias	9.84E-06	ACD01.CASP3.CSF1.CSF3.SERPINE1.SOD2	16 (16)
nifedipine		chemical drug	Activated	1.437	bias	9.92E-06	BC12A1.BMP2.CASP3.CNNA2.C2.CD44.CD68.CD68.CEBPA.CSF1	164 (18)
IGV		complex	Activated	0.822	bias	1.03E-05	CASP3.CP.CP.FAS.GSTP1.HMGCS2.ID1.IB.LB.KRT19.NFKBIA	219 (21)
calyculin		transmembrane receptor	Activated	2.253	bias	1.03E-05	C2.C2.CD40.CD68.CD9.CEBPD.CD44.CSF1.FABP5.HSPB1.IB1B	139 (18)
VDR		transcription regulator	Activated	1.291	bias	1.06E-05	BMP2.C2.C2.CD68.CD41.CD44.CD68.CSF1.CXCL12.CXCL14.ICAM1	139 (18)
BC13		transcription regulator	Activated	0.105	bias	1.06E-05	CAV2.CAVIN1.CD14.FAS.HK2.ICAM1.ID1.KRT19.KR18.NQO1	199 (22)
IRF6		transcription regulator	Activated	0.114	bias	1.08E-05	ARHGEF3.C2.CD41.CD44.Clec2d (includes others).CSF1.GATA3.HK2.ICAM1.ID1	188 (20)
roflumoxacin		chemical drug	Activated	2.333	bias	1.08E-05	BC12A1.CD68.GATA3.ICAM1.ID1.IB.LB.IJ36G.JUN	152 (14)
CYLD		transcription regulator	Activated	0.031	bias	1.14E-05	AP06B.C3B.CD14.CD68.CD8A.IB.LB.KL.FA.MRC1.SOD2	141 (16)
ADORA2B		G-protein coupled receptor	Activated	-0.114	bias	1.14E-05	BIRC3.CEBPA.HL.AA.ICAM1.NFKBIA.SERPINE1.SLC11A2.SOD2.TNFAIP3	117 (14)
FGF1		growth factor	Activated	0.996	bias	1.16E-05	CD40.CD68.IB.LB.KL.FA.MRC1.RUNX2.SERPINE1	219 (21)
phenolic acid		chemical - endogenous mammal	Activated	0.092	bias	1.16E-05	AKR1B10.C2.C2.CD68.GSTP1.ICAM1.IB.LB.JUN.NQO1.RHO.SERPINE1	167 (17)
HDC1		transcription regulator	Activated	-1.141	bias	1.17E-05	BC12A1.CD40.CD68.CD68.FAS.FOSL1.IB.JUN.NFKB1A.MRC1	175 (18)
androgen		chemical drug	Activated	-1.671	bias	1.22E-05	AMP3.APOA1.BMF.CNNA2.CD44.CEBPA.FAS.GSTP1.ID1.KLK3	215 (21)
SP3		transcription regulator	Activated	2.195	bias	1.23E-05	BMP4.BMP6.CD44.CT52.FOSL1.JUN.KLK3.NFKBIA.PTPA42.PTPRK	190 (20)
JAK1		kinase	Activated	2.937	bias	1.23E-05	BMF.CD2.CD40.CEBPA.DMD.FAS.FOSL1.GDF15.JUN.KL.FA	216 (20)

ibutylin		chemical drug	Activated	2.157	bias	5.75E-05	BCL2L1, BIRC3, CASP3, ID3, IL1B, SLCO3A1, SOD2, TNFAIP3		
CpG ODN 2395		chemical reagent	Activated	2.236	bias	5.79E-05	Cd2, CD4, CD46, CD86, IL1B		141 (15)
CYP2J2		enzyme		-0.785		5.79E-05	Cd2, CD44, ICAM1, IL1B, NFKBIA		127 (10)
lutealstrant		chemical drug		-0.233		5.84E-05	AP0A1, BMP2, BMP4, CAV2, Cc2, Cc2A, CSF1, CXCL12, GJB2, GSTP1		210 (20)
lutealstrant		chemical drug		0.083		5.84E-05	ANKK1, BLNK, BMP2, BMP4, CSF1, CXCL12, JUN, KLF6, LITAF, MYO1B		221 (22)
PPARD		ligand-dependent nuclear receptor		0.022	bias	6.26E-05	ALDH2, APOA1, Cc2, CD68, FBP1, HMGCS2, ICAM1, IL1B, LPN2, RASGRP1		197 (18)
NOX4		enzyme	Activated	2.425	bias	6.31E-05	BMF, Cc2, CD4, ICAM1, Saa3, SERPINE1		183 (18)
PAF1		other	Activated	2.646	bias	6.35E-05	BIRC3, KLF4, NFKB1Z, OASL, SDC4, SERPINE1, SOD2		
MAPK7		kinase	Activated	2.580	bias	6.35E-05	BCL2L1, ID1, IL1B, JUN, KLF4, NQO1, STEAP4		212 (23)
Mapk3/7		kinase		1.616		6.42E-05	BMF4, CASP3, Cc2, IL1B, JUN, NFKB1Z, NOX2, Vmn3		181 (17)
SMARCB1		transcription regulator		1.933	bias	6.46E-05	Cc2A, CD4, CSF1, CYP3A7, DCKA, F11R, FAS, FBP1, GJB2, IFI16		193 (11)
mycophenolic acid		chemical drug	Activated	2.121	bias	6.67E-05	BIRC3, ID3, IL1B, KRT19, RUNX2, SERPINE1, SLCO3A1, SOD2, TNFAIP3		142 (14)
gossypolacetic acid		chemical drug		-0.277	bias	6.85E-05	BCL2L1, Cc2, CD4, CD44, CD83, CD86, CSF1, FAS, IL1B, MRC1		143 (15)
IFP2		transcription regulator	Activated	2.267	bias	6.91E-05	ANK, CD44, HK2, ID1, Iffat7, IL1B, IL18, KLF4, MAPK6, PSM810		156 (18)
TCF7L2		transcription regulator	Activated	2.299	bias	7.16E-05	ANG, ARX, FBAP5, FBP1, Hsp81a, Iffat2, OASL, RASEL, SDC1		181 (17)
NR1H3		ligand-dependent nuclear receptor		1.239	bias	7.17E-05	BMP4, CSRP1, CYP3A7, DCK10, FBP1, FTH1, GAB1, HMGCS2, ID1, ID3		138 (7)
LYN	0.712	kinase		1.177	bias	7.29E-05	AP0A1, Cc2, CD8, Cc2A, CCR7, CD40, CSF3, CXCL16, IL6, FBP1, GSTP1		193 (15)
LYN		kinase		1.177	bias	7.31E-05	Cc2, CD2, Cc2A, CD40, CD86, CSF1, IL1B, NFKBIA, NFKB1Z		178 (10)
lactadherin (SR)-sulfoximine		chemical - protease inhibitor		0.320	bias	7.45E-05	CASP3, NFKBIA, NQO1, SERPINE1, TNFAIP3		143 (15)
KLRI1		other		0.000	bias	7.90E-05	Cc2, CD9, FAS, FBP1, FOSL1, FTL, GATA3, GSTP1, HLA-A, HSPB1		188 (20)
PIK3CA		kinase		1.941		7.97E-05	BMP2, JUN, KLF4, SOD2		
PLAU		peptidase		0.186		7.97E-05	ALCAM, Cc2, CD4, Cc2A, CD44, Cc2A, Cc2B, JAG1, SERPINE1		211 (23)
CD2		cytokine		1.412		7.97E-05	ANG, Cc2, GDF15, ICAM1, IL1B, RELB, SERPINE1, SERPINE1		232 (24)
FADD		other		0.333	bias	8.01E-05	Cc2, CD40, CD86, CECPA, CECPD, ICAM1, IL1B, SERPINE1, ZC3H12A		196 (19)
BRD2		kinase		0.633	bias	8.01E-05	BIRC3, Cc2, FAS, GADD45B, ICAM1, IRF5, JUN, KLF6, TNFAIP3		146 (18)
SREBF1		transcription regulator	Activated	2.466	bias	8.26E-05	CBLCC, Cc2, IL1B, IL7R, LY9, NQO1, PRKD3		186 (20)
TRIM56		peptidase		0.585	bias	8.34E-05	CAMK1D, CD14, CECPA, CECPD, CFI, CSRP1, DEPP1, FAPB5, FAS, HK2		186 (20)
Wd17		other		0.707		8.58E-05	BMP5, Hamp/Hamp2, ID1		
IKBKE		kinase		0.594	bias	8.76E-05	Cc2, IL1B, MRC1		
RARG		ligand-dependent nuclear receptor		1.620		8.76E-05	ACOD1, BIRC3, Cc2, CSF3, CXCL12, HLA-A, IFI16, NFKBIA, SLCO2A3		175 (15)
FASLG		cytokine		0.293		8.82E-05	AP0A1, BMP2, DHR53, GAP43, JUN, KLF4, KLF3, KRT20, ZNF703		160 (10)
PS1		cytokine	Activated	2.411	bias	8.82E-05	CASP3, CD44, FAS, FTH1, IL1B, RUNX2		187 (18)
NGF		growth factor	Activated	2.488	bias	8.90E-05	Cc2, CD86, ICAM1, IL1B, KLF4, LY75		137 (18)
inosine		chemical - endogenous mammal	Activated	2.646	bias	9.38E-05	AKR1B10, CCR7, CD40, CD83, CD86, FAS, FOSL1, GAP43, ID1, JUN		149 (18)
caragogenan		chemical drug	Activated	2.592	bias	9.38E-05	ALCAM, ANTXR2, CD68, FTL, GAP43, SERPINE1, SERPINE1		
caragogenan		chemical drug	Activated	2.592	bias	9.38E-05	Cc2, FOSL1, GRM8, ICAM1, IL1B, JUN, NFKBIA		205 (18)
caragogenan		chemical drug	Inhibited	-2.415	bias	9.57E-05	Cc2, FOSL1, ICAM1, IL1B, JUN, NFKBIA, NFKB1Z, NFKB1Z		161 (17)
lactadherin/hydroquinone		chemical reagent	Activated	2.740	bias	9.57E-05	FOSL1, FTH1, FTL, GSTA3, GSTP1, JUN, NQO1, SERPINE1, UGT1A7 (includes others)		186 (19)
17-alpha-ethinylestradiol		chemical drug		1.863	bias	9.75E-05	Cc2, CCR7, CD86, CXCR3, GDF15, IFI16, JUN, KRT19, MRC1, PERP		247 (20)
SYK		kinase		-0.256		9.80E-05	BIRC3, CCR7, CD44, DOKK10, FOSL1, GATA3, ICAM1, IL1B, LY9, RASSF4		192 (22)
vanmammann		chemical - kinase inhibitor	Inhibited	-2.689	bias	1.02E-04	CASP3, Cc2, CD4, CD44, CECPD, CSFP1, CXCL16, GAP43, GSTP1, ICAM1		206 (20)
SA		group	Activated	2.403	bias	1.03E-04	Cc2, CSF1, CSF3, ICAM1, IL1B, MRC1		158 (18)
NORAD		other	Activated	2.449	bias	1.03E-04	BASP1, GADD45B, ID3, JUN, SDC1, TNFRSF12A		93 (7)
Ins1		other		1.372	bias	1.04E-04	ALAS1, APOA1, CECPA, CECPD, GATA3, GSTA3, HK2, IL1B, IL6ST, JUN		223 (23)
hemim		chemical - endogenous mammal		0.838		1.04E-04	Cc2, CD68, FTH1, FTL, GSTP1, IL1B, JUN, MRC1, NQO1		220 (19)
KITLG		growth factor		1.344	bias	1.09E-04	CASP3, Cc2, Cc2A, CD4, CD44, Cc2A, CD86, CECPA, CSF1, CXCL12, FAPB5		142 (16)
lysocephosphatidylcholine		chemical - other		1.692		1.09E-04	Cc2, FAPB5, ICAM1, IL1B, JUN, LRP1, NQO2, SERPINE1		196 (19)
Bay 11-7082		chemical - kinase inhibitor	Inhibited	-2.789	bias	1.09E-04	BCL2L1, BMP2, Cc2, CD44, CD83, ICAM1, IL1B, SOD2		141 (15)
PLA2G2D		enzyme		-1.000	bias	1.12E-04	Cc2, CD88, IL1B, MRC1		190 (16)
SCR (complex)		complex		1.354	bias	1.12E-04	BMGALT1, BCL2L1, CASP3, Cc2A, CCR7, CD4, CD86, FAS, KLF4, LCK		142 (12)
JNB		transcription regulator		1.109	bias	1.12E-04	CD8, CD86, CXCL16, FOSL1, FTH1, IL1B, IL6ST, IL		

Fcεr1		complex		1,802	bias	3,19E-04	BCL2A1, Cc2, CD83, CSF1, IL1B, JUN, MRC1	160 (17)
IL25		cytokine		1,608	bias	3,19E-04	Cc2, CSF3, F11R, GATA3, IL1B, IL1RL1, JAG1	179 (17)
CSF3	1,184	cytokine		1,146	bias	3,20E-04	BATF, BIRC3, Cc2, CCR7, CD14, CD44, CEBPA, CXCL12, GADD45B, ICAM1	141 (15)
reactive oxygen species		chemical toxicant		1,824	bias	3,20E-04	CASP3, CSF3, FAS, ICAM1, IL1B, JUN, KLF6, SERPINE1, SOD2, TNFAIP3	205 (18)
cardiotoxin		chemical - other	Activated	2,828	bias	3,21E-04	CASP3, Cc2, CCNA2, CSF2RB, FLT3, IL1B, IL17R, ITGB7, MCM3, MEST	
goldilaminycin		chemical - endogenous non-mar	Inhibited	2,724	bias	3,21E-04	Cc2, CEBPD, GPR119, Hspa13, IL1, IL1, IRF5, JUN, KLF, RNASEL, RTN1	123 (11)
TRAF2		enzyme		0,822		3,25E-04	BIRC3, FAS, ICAM1, Muc1, PTPN14, RHBDP1, Serpin3a (includes others), TNFAIP3	100 (12)
zinc		chemical drug		-0,167		3,25E-04	AKR1B10, CD86, FAS, IL1B, NFKBIA, SLC11A2, SLC30A1, SLC39A4	182 (17)
IL22		cytokine		1,334	bias	3,41E-04	CLCA1, CXCL12, CYBA, FTH1, HSPB1, IL1B, IL36G, Muc1, SOD2, TGM3	154 (12)
lansoprazole		chemical drug		-1,770	bias	3,41E-04	BCL2A1, BIRC3, FAS, Fcγ3, JUN, KLF, RNASEL, SERPINE1, SOD2, TNFAIP3	132 (17)
medroxyprogesterone acetate		chemical drug		-1,019		3,41E-04	CAMK4, CASP3, Cc2, CD44, FAS, ICAM1, IL1B, JUN, NEK2, Ngp1	218 (25)
PTX3		other		-1,571	bias	3,48E-04	Cc2, Cc8, GATA3, IL1B, JUN	147 (16)
ACSL4		enzyme		-1,342	bias	3,48E-04	CAMK10, ENPP1, FERMT1, PRKG1, RHOU	
vinblastine		chemical drug	Activated	2,213	bias	3,48E-04	CD40, CD86, HLA-A, IL1B, SOD2	142 (17)
Cy223		enzyme		0,983	bias	3,50E-04	Cc2, CCNA2, CD86, IL36G	
PPP2R5C		other	Inhibited	2,000	bias	3,50E-04	BCL2A1, BIRC3, RELB, TNFAIP3	117 (12)
P2RY2		G-protein coupled receptor				3,50E-04	Cc2, GAP43, ICAM1, SERPINE1	142 (17)
DAXX		transcription regulator		-1,982	bias	3,50E-04	CASP3, HSPB1, KLF3, SERPINE1	208 (19)
SPB1		transcription regulator	Activated	2,813	bias	3,52E-04	BLNK, BMP6, CD86, Hspa1b, KLF4, KLF3, LILRB3, P2RY10	
HMGB1		transcription regulator		1,983	bias	3,52E-04	CASP3, CD40, CD83, CD86, ICAM1, IL1B, MRC1, RELB	161 (19)
SMAD1		transcription regulator	Activated	2,429	bias	3,56E-04	CSF1, GADD45B, Hamp/Hamp2, ICAM1, ID1, RUNX2	158 (13)
PROC		peptidase		-0,294	bias	3,56E-04	BCL2A1, Cc2, ICAM1, IL1B, SERPINE1, TNFAIP3	154 (16)
stallinon		biologic drug	Activated	2,449	bias	3,56E-04	CSP1, IFI16, IL1B, IL36G, IL7R, SP110	97 (7)
Nr1h		group	Inhibited	2,723	bias	3,59E-04	BMP6, Cc2, CCR7, CDMPD, CSF1, CSF3, HPD, IL1B, NFKBIZ, SP110	169 (19)
SNAI1		transcription regulator		0,896		3,79E-04	BMP4, CGN, CLDN4, FOSL1, GDF15, ID1, KRT8, LASP1, RUNX2, SDC1	226 (22)
dimethyl sulfoxide		chemical drug	Activated	2,578	bias	3,86E-04	BMP2, BMP4, IFI16, IL1B, JUN, PTK2B, RUNX2, SLC11A2, Tcf7, Tpm1	206 (22)
G6 6976		chemical - kinase inhibitor	Inhibited	-2,607	bias	3,87E-04	BMP2, BMP6, Cc2, CD83, CSF3, NFKBIA, SOD2	144 (16)
MEI		kinase		0,633	bias	3,89E-04	BMP, CD44, Hspa1b, HSPB1, IL1B, JUN, KLF4, NFKBIZ, SOD2	173 (18)
Cmb		group		3,91E-04		3,91E-04	ANTXR1, ANTXR2, BMP6, CD14, CEBPA, CEBPD, CLMN, CSRP1, FAS, FOSL1	159 (11)
obetholic acid		chemical drug		-1,347		4,01E-04	APOA1, Cc2, CD86, CEBPA, ICAM1, IL1B	144 (17)
NGFR		transmembrane receptor		0,895	bias	4,07E-04	CCNA2, DMD, IL1RL1, JUN, SERPINE1	162 (12)
TNFSF15		cytokine	Activated	2,200	bias	4,07E-04	BIRC3, CCR7, CD40, CD83, CD86	155 (16)
crocidolite asbestos		chemical toxicant		1,985	bias	4,07E-04	Cc2, CD44, FOSL1, JUN, ZFX	225 (19)
proteasome inhibitor PSI		chemical - protease inhibitor		1,342	bias	4,07E-04	BMP2, Cc2, FAS, MAPK6, RUNX2	192 (16)
Tgf beta		kinase		1,334	bias	4,09E-04	BASP1, Cc2, CCR7, CSF1, CSF3, GADD45B, GATA3, ID1, ID3, IL1B	216 (20)
EP2AK3		kinase		1,846	bias	4,17E-04	ANG, BIRC3, Cc2, FOSL1, IL1B, JUN, KLF4, RELB, RNASEL	182 (18)
VIP		other		-0,009		4,17E-04	Cc2, CD40, CD86, CEBPD, GATA3, IL1B, IL1RL1, IRAK2, NFKBIA	153 (17)
aspirin		chemical reagent	Inhibited	2,372	bias	4,17E-04	APOA1, Cc2, CD40, CD86, CSF1, CSF3, GDF15, ICAM1, IL1B	122 (16)
1,2-dithiol-3-thione		chemical reagent	Activated	3,560	bias	4,24E-04	AKR1B10, ALAS1, ANG, B4GALNT1, ESD, FTH1, GSTA3, GSTP1, MGLL, NQO1	45 (3)
vitamin E		chemical drug		-1,941	bias	4,26E-04	APOA1, CD44, Hamp/Hamp2, IL1B, KLF6, SERPINE1, SLC11A2	177 (19)
LEF1		transcription regulator		0,371	bias	4,26E-04	CASP3, CD44, FAS, GATA3, IL7R, LCK, RUNX2	160 (12)
NB02		transcription regulator		0,115		4,26E-04	AMY2A, BIRC3, GSTP1, HK2, OAT, PLA2G16, RELB	
IL17RC		transmembrane receptor				4,29E-04	PLE1, STEAP4	
ZNF3858		other				4,29E-04	FAS, PERP	
PARM1		other				4,29E-04	BMP2, BMP4	
diaziquone		chemical drug				4,29E-04	CD40, IL1B	
cobimetinib		chemical drug				4,29E-04	CD44, CSF3	
cyclic AMP		chemical - endogenous mammal	Activated	2,925	bias	4,37E-04	ANTXR1, ANTXR2, BMP2, CD86, CEBPA, CEBPD, GAP43, GATA3, IL1B, JUN	230 (22)
mannitol		chemical - endogenous mammal		1,231	bias	4,43E-04	Cc2, ICAM1, JUN, SOD2	174 (21)
NR13		ligand-dependent nuclear receptor	Activated	2,759	bias	4,46E-04	ALAS1, APOA1, CYP3A7, GADD45B, GSTP1, HK1, ICAM1, PGD, STEAP4	139 (10)
PRPC1		transcription regulator	Activated	2,449	bias	4,50E-04	Cc2, CD86, GDF15, HK2, LAMB3, NFKBIZ, NQO1	
GATA1		transcription regulator		1,117	bias	4,57E-04	BMP6, CAVIN1, CEBPA, CXCR3, ENPP1, GATA3, IL1RL1, IL6ST, IL7R, JDP2	
EPO		cytokine		-0,404	bias	4,57E-04	ATOH8, BMP4, CASP3, CTSZ, CXCL12, FABP5, FAS, GATA3, GDF15, Hamp/Hamp2	210 (16)
butyl N-3-[4-(imidazol-1-yl)methyl		chemical reagent				4,58E-04	CASP3, IL1B, MLKL	
CD5L		transmembrane receptor				4,58E-04	Cc2, Cc8, IL1B	
FE1A1		transcription regulator				4,58E-04	Cc2, CD86, IL1B	83 (7)
GIPR		G-protein coupled receptor				4,58E-04	Cc2, Cc8, Tcf7	143 (13)
MIA-602		chemical reagent				4,58E-04	CASP3, Cc2, IL1B	
GSK4J		chemical reagent				4,58E-04	CD40, CD83, CD86	
Fc gamma receptor		group	Activated	2,200	bias	4,75E-04	CCNA2, CD40, CD86, ICAM1, TNFAIP3	117 (17)
TRB		transmembrane receptor		0,468	bias	4,75E-04	CD44, CD8A, CXCR3, FAS, GATA3	147 (11)
8-bromo-cAMP		chemical reagent		-0,731	bias	4,79E-04	ALDH2, APOA1, BMP2, Cc2, FAS, GSTP1, IL1B, JUN, KRT8, NQO1	164 (19)
ATN1		transcription regulator				4,91E-04	BASP1, BTG3, CAMK4, Cd24a, IFI16, JUP, LTB2, Marcks, TIAM1, TM6SF1	
glucocorticoid		chemical drug		0,268		4,92E-04	Cc2, CD40, CD86, CEBPD, CSF1, CSF3, CYP3A7, FAS, ICAM1, IL1B	170 (15)
PTPM		phosphatase	Inhibited	-2,412	bias	5,04E-04	Cc2, CCR7, CD44, CD86, IL1B, LYN	155 (16)
zymosan		chemical - endogenous non-mar		1,988	bias	5,12E-04	Cc2, CD40, CD86, CSF1, CSF3, DEPT1, IL1B	134 (15)
3,3'-diindolylmethane		chemical drug		1,937	bias	5,12E-04	FAS, GDF15, HLA-A, IL1B, KRT19, NFKBIA, NQO1	215 (21)
PI3K (family)		group		1,510	bias	5,45E-04	AKR1B10, BIRC3, CXCL12, FTH1, HK1, IL1B, NQO1, PREX1, SERPINE1	195 (20)
IL36A		cytokine	Activated	2,490	bias	5,50E-04	Cc2, CSF3, IL1B, IL1B, IL36G, NFKBIZ	87 (7)
prostaglandin E1		chemical - endogenous mammal		-1,192	bias	5,51E-04	CD14, CD40, CD86, ICAM1	211 (19)
TMSB4		group		1,964	bias	5,51E-04	BMP2, BMP4, RUNX2, SERPINE1	132 (12)
AORB3		G-protein coupled receptor				5,51E-04	Cc2, CXCL12, IL1B, JUN	178 (19)
BIRC2		enzyme				5,51E-04	BIRC3, CCNA2, CSF1, CSF3	146 (11)
Usp17a (includes others)		peptidase		1,987	bias	5,51E-04	Cc2, CD44, IL1B, KLF4	87 (7)
ethoxyquin		chemical toxicant		1,934	bias	5,51E-04	FTH1, GSTA3, GSTP1, NQO1	
metyrapone		chemical drug		0,000	bias	5,51E-04	ALAS1, CXCL12, ICAM1, IL1B	124 (11)
CD38		enzyme		1,964	bias	5,53E-04	ANKK6, CD44, CD86, CSF2RB, HIGD1A, ICAM1, ITGB7, NEK2, PDLM1, SDC1	
Raf		group				5,59E-04	CSF1, GDF15, IFI16, JUN, RNK3, SLC45A3, TNFAIP3	220 (20)
FANCC		other				5,59E-04	CXCL12, GDF15, IL1B, JAG1, OAT, RND3, TAX1BP3	147 (16)
TBX21		transcription regulator		-0,180		5,59E-04	CXCR3, GATA3, GZMA, IL1RL1, IL6ST, IL7R, Tcf7	159 (15)
ADAM10		peptidase				5,63E-04	CSF1, CXCL12, CXCL16, DTN1, IL36G, IL6ST, LCK, SYT1	
NLRX1		other	Inhibited	2,449	bias	5,63E-04	BIRC3, CD40, IL1B, NFKBIA, RELB, TNFAIP3	158 (13)
sphingosine-1-phosphate		chemical - endogenous mammal	Activated	2,044	bias	6,08E-04	Cc2, CD44, FAS, GAP43, ICAM1, JUN, RUNX2, SERPINE1	167 (19)
PDX1		transcription regulator		1,066	bias	6,08E-04	Cc2, CD44, GAP43, HK1, ID1, ID3, IL1B, JUN, KLF6, KRT8	120 (7)
RIPK2	0,574	kinase		2,621	bias	6,11E-04	ACOD1, Cc2, CD40, CD86, ICAM1, RASGRP1, SOD2	132 (17)
TERT		enzyme		-0,686		6,19E-04	ICAM1, IFI16, IL1B, JUP, KLF3, KRT19, NFKBIA, PCDHGA3, RASA3, SOD2	191 (14)
TSC2D3		transcription regulator		1,053	bias	6,27E-04	CD86, CD86, CEBPA, ICAM1, IL1B, RUNX2	130 (7)
TIMP3		enzyme		0,816	bias	6,27E-04	BMP4, FAS, JUN, KLF4, LAMC2, SERPINE1	225 (18)
APOA1	4,105	transporter		-1,636	bias	6,27E-04	APOA1, Cc2, ICAM1, IL1B, SOD2, XDH	153 (19)
OSCAR		other		1,342	bias	6,34E-04	CD40, CD83, CD86, ICAM1, RRAS	153 (15)
GATA3	7,490	transcription regulator		0,470	bias	6,34E-04	BATF, BCL11A, BMP6, CEBPA, GATA3, GZMA, ICAM1, IL1RL1, IL7R, KLF4	180 (16)
CCP1		transporter		-0,194	bias	6,45E-04	ALAS1, CASP3, Cd24a, CD86, GDF15, GSTO1, IL1B, PGD, RNASEL, SERPINE1	85 (7)
CD36		transmembrane receptor		1,170	bias	6,52E-04	APOA1, CD86, CSF3, FAS, ICAM1, IL1B, LRP1, SERPINE1	162 (18)
AG490		chemical - kinase inhibitor	Inhibited	-2,792	bias	6,52E-04	BIRC3, CASP3, Cc2, CD86, ICAM1, IL1B, LYN, SOD2	224 (21)
CND01		transcription regulator		0,132		6,57E-04	CCNA2, CD44, CD6, CDGAT, DONSON, HOMER2, HSPB1, ID1, ID3, KLF3	137 (7)
melatonin		chemical - endogenous mammal		1,768	bias	6,60E-04	BMP2, CASP3, FAS, GDF15, IL1B, KRT19, NQO1, RUNX2, SOD2	181 (19)
nicotine		chemical drug		1,115	bias	6,67E-04	BMP2, CASP3, Cc2, CD40, CD44, CD86, GATA3, ICAM1, ID1, IL1B	148 (16)
sphingosylphosphocholine		chemical - endogenous mammal				6,77E-04	Cc2, ICAM1, JUN	185 (19)
C8		complex				6,77E-04	Cc2, ICAM1, IL1B	107 (9)
SLC16A3		transporter				6,77E-04	CASP3, HK2, IL1B	
salmonella typhimurium lipopolysaccharide		chemical - endogenous non-mar				6,77E-04	Cc2, CD86, IL1B	
TNFRSF17		transmembrane receptor				6,77E-04	CD40, CD86, ICAM1	136 (15)
ATG16L1		enzyme				6,77E-04	IL1B, NFKBIA, SOD2	112 (9)
RTKN	1,276	other				6,77E-04	BCL2A1, BIRC3, TNFAIP3	81 (9)
C7		other				6,77E-04	Cc2, ICAM1, IL1B	107 (9)
DEK		transcription regulator				6,77E-04	BIRC3, Cc2, NFKBIA	95 (8)
1,1-bis(3'-indolyl)-1-(4-trifluoromethylphenyl)-4-(4-trifluoromethylphenyl)-5-(4-trifluoromethylphenyl)-1,3,5-triazine		chemical reagent				6,77E-04	CAV2, GDF15, KLF3	160 (7)
guromycin		chemical - endogenous non-mar				6,78E-04	CASP3, CD40, IL1B, SERPINE1	186 (22)
TP53ICOR1		chemical reagent	Activated	2,000	bias	6,78E-04	BIRC3, FAS, IL1B, SOD2	174 (13)
S-2,2-bis[4-methoxybenzyl]propyl-ox		group		1,872	bias	6,78E-04	Apo1a (includes others), CD40, CD86, ICAM1	126 (15)
Pkcδ		other	Activated	2,673	bias	6,89E-04	APOA1, DMD, FAS, FOSL1, GADD45B, GAP43, IL1B, JUN, KLF6, KRT8	207 (19)
PRKAG3		other				7,14E-04	ALAS1, DDIT4L, FTL, ID1, KLF4, PLIN3, POLE4, RHOU, SLC2A3, TSPAN8	
GNAT14		enzyme				7,24E-04	ANKK3, BMP2, BMP4, ENPP1, HK2, KLF6, XDH	
indinavir sulfate		chemical drug		0,447	bias	7,27E-04	CASP3, GATA3, GSTP1, ICAM1, IL1B	180 (21)
SN-38		chemical drug		1,982	bias	7,27E-04	BIRC3, BMP6, FAS, GDF15, HK2	183 (14)
DDIT3		transcription regulator		-1,054	bias	7,48E-04	CEBPA, CEBPD, DOK4, GALNT4, HPD, IL1B, IRAK2, JAG1, Ngp1	210 (16)
mR-146a-5p (and other miRNA)		mature microRNA	Inhibited	-2,791	bias	7,52E-04	ATOH8, CCNA2, CD40, IL36G, IRAK2, IRF5, NFKBIA, SYT1	91 (6)
NOG		growth factor		1,664	bias	7,73E-04	BMP2, CAVIN1, DMD, ICAM1, Ngp, RUNX2	217 (22)
PTPRJ		phosphatase	Activated	2,236	bias	7,73E-04	BMP2, BMP4, Cc2, FAS, ID3, RUNX2	189 (23)
minocycline		chemical drug		-1,775	bias	7,78E-04	CCNA2, CEBPD, NFKBIZ, OASL, Vmn3, ZC3H12A	
YY1		transcription regulator		0,447	bias	7,87E-04	CASP3, Cc2, CD86, GATA3, ICAM1, IL1B, IL6ST	174 (17)
HDAC3		transcription regulator		0,751	bias	8,01E-04	ALCAM, BLNK, BMP4, BMP6, CCNA2, CXCL12, DMD, FAS, ID3, IL1B	202 (19)
Pka		complex		1,915	bias	8,16E-04	BIRC3, BMP2, ICAM1, JUP, KLF3, NFKBIA, RELB, SERPINE1	218 (23)
Fibrinogen		complex		1,929	bias	8,24E-04	ANTXR1, ANTXR2, CAMK4, CCR7, CD14, CD40, CD44, JUN, KLF6, MEST	200 (18)
ITGA9	0,739	other	Activated	2,000	bias	8,24E-04	Cc2, CD40, ICAM1, IL1B	133 (17)
RPS6KA5		kinase				8,24E-04	Cc2, CXCL12, CXCL14, IL1B	146 (12)
PCDH11Y		other	Activated	2,000	bias	8,24E-04	CCR7, FOSL1, IL1B, JUN	191 (21)
IL37		cytokine		-1,938	bias	8,24E-04	BMP4, CD44, FOSL1, JUN	130

antihistamine		chemical drug		9.218	bias	9.44E-04	BIRC3, ICAM1, IL1B, NQO1, RUNX2	142 (10)
KDH	0.689	enzyme		0.094		9.44E-04	Cc2, CEPBA, ID3, IL1B, SERPINE1	224 (24)
CD80		transmembrane receptor				9.44E-04	CASP3, CD28, FAS, ICAM1, IL1B	161 (20)
ltp		group				9.52E-04	FTH1, FTL, SLC11A2	
RBPJL		transcription regulator				9.52E-04	AMY2A, CPA2, CTRB2	
SELE		transmembrane receptor				9.52E-04	Cc2, CSF3, IL1B	148 (17)
RANBP9		other				9.52E-04	GAP43, JUN, PTK2B	130 (7)
FTH1	0.558	enzyme				9.52E-04	CD86, FTH1, FTL	36 (3)
TRF2		transporter				9.52E-04	BMP6, GDF15, Hamp/Tamp2	120 (8)
sodium dodecyl sulfate		chemical drug				9.52E-04	FABP5, IL1B, SERPINE2	
chemokine		chemical drug				9.52E-04	DEPP1, HPN, SL, C2A3	
lin mesoporphyrin		chemical drug				9.52E-04	Cc2, ICAM1, IL1B	99 (7)
pepstatin		chemical - protease inhibitor				9.52E-04	BMP2, CD8, STC2	
perilla alcohol		chemical drug				9.52E-04	BCL2A1, IL1B, NFKBIA	116 (11)
NKS		enzyme				9.56E-04	C08, CD86, HLA-A, IFI16, IL1B, MCM3, MEST, NQO1, PERP, SDC1	149 (17)
L27		cytokine	Inhibited	2.804	bias	9.57E-04	CD14, CD86, CEPBD, DEPP1, GAT3, HLA-A, ICAM1, IL1B, LAG3, MRC1	185 (17)
lfn gamma		complex		2.226	bias	9.90E-04	CASP3, Cc2, CD86, CXCL16, CXCR3, FAS, ICAM1, IL1B	157 (20)
lactosylceramide		chemical - endogenous mammal				9.91E-04	Cc2, CD40, ICAM1, RELB	144 (15)
Pka		group		1.067	bias	9.91E-04	HK2, JUN, SOD2, VCL	180 (16)
EF2G2		translation regulator		1.01E-04		9.91E-04	JUN, KLF4, KRT19, SERPINE2	
LRPAP1		other		-0.308	bias	9.91E-04	Cc2, IL1B, LRP1, SERPINE1	144 (16)
EPCAM		other		-0.762	bias	9.91E-04	FABP5, FOSL1, ID1, JUN	164 (13)
GRN		growth factor				9.91E-04	Cc2, CTSZ, ICAM1, IL1B	212 (19)
ketamine		chemical drug				9.91E-04	CASP3, HK1, KLF6, NQO1	102 (7)
apocidin		chemical - endogenous non-mar		0.000		9.91E-04	AMPD3, FAS, HSPD, ITGB7	
IF16	2.317	transcription regulator		1.815	bias	1.00E-03	CD28, CD81, ICAM1, IFI16, IL1B, IL7R, NFKBIA	211 (20)
HTT		transcription regulator		1.372	bias	1.00E-03	APOA1, BASP1, BTG3, CIR, CAMK4, CASP3, Cc2, d4a, CD9, CEPBA, FOSL1	232 (21)
PAPR1		enzyme		0.537	bias	1.01E-03	Cc2, CXCL12, FAS, GBP6, GDF15, ICAM1, IL1B, JUN, KLF3	215 (20)
aluminum chloride		chemical drug		0.923	bias	1.01E-03	B4GAL, T1, BMP2, BMP4, CD44, GAT3, GDF15, KLF3, KRT20, Muc6a	219 (26)
cholesterol		transcription regulator				1.04E-03	CSF2RB, FLT3, IL1B, LCK, LYN, RUNX2	110 (7)
cholesterol		chemical - endogenous mammal		1.021	bias	1.04E-03	CAMK1D, CAV2, Cc2, CD14, CD86, CSF1, FABP5, ICAM1, IL1B, SMO	137 (17)
KMT2D		transcription regulator		1.372	bias	1.04E-03	BTG3, CDCA7, GJB2, GPRC5C, KLF4, KRT23, LAMB3, LCK, POLE4, PPIC	
TLR2		transmembrane receptor	Activated	3.226	bias	1.05E-03	BMP2, Cc2, CD40, CD86, CEPBD, CSF3, GAT3, GAT3, ICAM1, IL1B, IRAK3	148 (18)
phosphatidic acid		chemical - other	Activated	2.781	bias	1.06E-03	Cc2, CD14, CSF1, ICAM1, IL1B, JUN, RALA, SERPINE1	149 (19)
NQO1	1.033	enzyme		1.387	bias	1.07E-03	BIRC3, CD8, CEPBA, CXCL12, CXCR3	105 (7)
IGHM		transmembrane receptor		-0.577	bias	1.07E-03	Cc2, CD86, FAS, IL1B, ILJUN	191 (20)
nevalonic acid		chemical - endogenous mammal		1.477	bias	1.07E-03	APOA1, CD40, ICAM1, IL1B, SERPINE1	171 (19)
Cc2		other		0.990	bias	1.07E-03	ANXA3, B4GALNT1, CD86, PAD3, FOSL1, PL2A2, SERPINE1, SYTL2, TNAGL1	178 (20)
Growth hormone		group		1.098	bias	1.08E-03	ARID5B, BMP2, BMP4, CEPBA, CEPD, FTH1, GDF15, GSTP1, ID1, JUN	227 (18)
Notch		CDCA7		1.144	bias	1.08E-03	CDCA7, GAD64S6, GAT3, ID1, ID3, JAG1, Nes	123 (14)
Sos		group				1.09E-03	B4GAL, T1, CD44, DOCK1, HPDGS, IL36G, KLF6, MAPK6, Nrg1, SEMA3B, SEMA3E	
2,4-amino-1-isopropyl-1H-pyrazole		chemical reagent		0.859	bias	1.10E-03	BMP2, CIR, CD44, FOSL1, ID1, ID3, KLF16, MCM3, SDC4, SERPINE1	118 (12)
CD86		chemical drug	Activated	2.552	bias	1.10E-03	BMP2, CD86, CCKAR, CXCL12, FAS, FTH1, GAP43, GJB2, ICAM1, IL1B	178 (20)
adenosine		chemical - endogenous mammal		-0.394	bias	1.14E-03	CD28, CD86, ICAM1, IL1B, Saa3, SERPINE1	197 (21)
CLEC4G		other		0.816	bias	1.14E-03	BMP2, CSF1, CSF3, FLT3, IL1B, Nrg1	
PAX5		transcription regulator		-0.730	bias	1.14E-03	BLNK, CD40, FLT3, HK2, SDC1, SL, C2A3	
FOSL2		transcription regulator	Activated	2.219	bias	1.14E-03	Cc2, FAS, FOSL1, IL1B, RELB, RUNX2	130 (11)
biacastamide		chemical - endogenous mammal		1.688	bias	1.14E-03	BCL2A1, CD14, CD40, CXCL12, ICAM1, SL, C3A42	149 (15)
CTR9		chemical drug		1.000	bias	1.18E-03	CXCL12, RASGRP1, SDC1, TIAM1	
epilcatechin gallate		chemical drug				1.18E-03	GDF15, ICAM1, LYN, PERP	96 (7)
evodiamine		chemical - endogenous non-mar		-1.715	bias	1.18E-03	BCL2A1, BIRC3, CASP3, ICAM1	86 (7)
chelyerythrine		chemical drug		-1.000	bias	1.18E-03	Cc2, CD86, ICAM1, NFKBIA	116 (11)
TNFRSF1B		transmembrane receptor		1.809	bias	1.20E-03	CASP3, CXCL12, FAS, ICAM1, JUN, SERPINE1, SOD2, TNFAIP3	134 (16)
MEC2		transcription regulator		-1.400	bias	1.21E-03	ICAM1, ID1, ID3, LRP1, TNFAIP3	
NR2F1		ligand-dependent nuclear recept		0.000	bias	1.21E-03	ALDH2, APOA1, FNBP1, GDF15, JAG1	
miroxantone		chemical drug		1.067	bias	1.21E-03	FAS, IFI16, IL1B, KLF3, PERP	167 (13)
pipecolinol		chemical drug		-1.000	bias	1.21E-03	BMP2, Cc2, CYP17, ICAM1, IL1B	
IRI76		enzyme				1.25E-03	BIRC3, Cc2, CSF1, IL1, LTR1, IRAK3, SOD2	212 (16)
miR-145-5p (and other miRNAs)		mature microRNA	Inhibited	-2.411	bias	1.25E-03	CNNA2, F11R, KLF4, RTKN, SERPINE1, SOD2	
CD14	1.316	transmembrane receptor	Activated	2.392	bias	1.25E-03	BCL2A1, Cc2, CXCL12, ICAM1, IL1B, TNFAIP3	144 (16)
MAP2K1/2		group		1.771	bias	1.26E-03	Cc2, FOSL1, HK2, HSPB1, IL1B, JAG1, JUN	189 (21)
PTPN11		phosphatase		1.254	bias	1.26E-03	CD14, CD86, CEPBA, CSF1, GAB1, JUN, PERP	184 (23)
SFTPA1		transporter		-1.087	bias	1.26E-03	Cc2, GPRH8, IL1B, IL1RL1, MRC1, SERPINE1, TCEA3	138 (15)
galactosylceramide		chemical - endogenous mammal		1.688	bias	1.27E-03	CD40, CD86	
C10orf12		other				1.27E-03	Cc2, IL1B	103 (7)
RIPK1		transcription regulator				1.27E-03	KLF4, POLE4	
ASH1L		transcription regulator				1.27E-03	IRAK3, TNFAIP3	
KLHL21		other				1.27E-03	NFKBIA, NFKBIZ	
CNDP2		peptidase				1.27E-03	CD44, CXCR3	
Ap1 gamma		group				1.27E-03	CD28, HLA-A	
CARD8		other				1.27E-03	BCL2A1, IL1B	
FTMT		enzyme				1.27E-03	FTH1, FTL	
STRAP		other				1.27E-03	JUN, SERPINE1	
DeS2		other				1.27E-03	CD24a, CD40	
TLR4		enzyme				1.27E-03	Cc2, TNFAIP3	142 (10)
1-thapsigal		chemical reagent				1.27E-03	CD40, CD86	
ellipticine		chemical reagent				1.27E-03	CD40, IL1B	
prostratin		chemical - endogenous non-mar				1.27E-03	CASP3, ICAM1	95 (7)
Mn2+		chemical - endogenous mammal				1.27E-03	GAP43, ICAM1	
levulamide		chemical drug				1.29E-03	FAS, ICAM1, IL1B	126 (11)
Trail8		other				1.29E-03	Cc2, CD40, CD86	135 (11)
GPR132		G-protein coupled receptor				1.29E-03	Cc2, ICAM1, MRC1	175 (13)
ACVR2A		kinase				1.29E-03	Hamp/Tamp2, ICAM1, ID1	97 (4)
APDH		transporter				1.29E-03	CD40, CD86, CD86	156 (18)
MAS1		G-protein coupled receptor				1.29E-03	Cc2, IL1B, MRC1	179 (17)
NDPFI1		other				1.29E-03	IL1B, LYN, SLC11A2	
2-[6-isopropyl-6-[(4-(2-pyridyl)yl]nz (includes others)		chemical - kinase inhibitor				1.29E-03	Cc2, CNNA2, CD86	
miR10X1		cytokine				1.29E-03	CD40, CD86, CD86	
ERG		enzyme		0.000	bias	1.34E-03	CASP3, Cc2, CD14, CXCL12, ICAM1, ID1, ID3, IL1B, NQO1	119 (8)
TSLP		transcription regulator		1.000	bias	1.34E-03	ARHGAP28, BIRC3, CAMK1D, CNNA2, DOCK1, DOCK10, ICAM1, KLF3, MYO1D, RRAS	197 (21)
CEACAM1		cytokine		1.966	bias	1.35E-03	CCR7, CD40, CD83, CD86, ICAM1	154 (16)
Tcf7	4.054	transporter		1.342	bias	1.35E-03	ANG, CD40, CD86, CSF3, ICAM1	176 (18)
nonocostaline		transcription regulator		-1.167	bias	1.35E-03	BATF, GAT3, G2M4, IL7R, LYN	
RETNLB		chemical toxicant		0.600	bias	1.35E-03	Cc2, GAP43, ID1, ID3, IL1B	103 (7)
Gsk3		other	Activated	2.630	bias	1.36E-03	CASP3, Cc2, CD8, CD86, IL1B, Saa3, TNAGL1	197 (18)
JUNO		group		0.911	bias	1.36E-03	CD40, CEPBA, GDF15, ICAM1, IL1B, JUN, TNFAIP3	185 (16)
JUNO		transcription regulator				1.36E-03	ALA51, Cc2, CXCL16, FOSL1, FTH1, RUNX2, SDC1	91 (9)
glabazone		chemical drug				1.36E-03	CAV2, Cc2, ICAM1, JUN, KLF3, NFKBIA, SERPINE1	247 (24)
Ac-Lys-Lys-Leu-norleucinal		chemical - protease inhibitor		-0.508	bias	1.36E-03	CAMK4, CASP3, CEPBA, HLA-A, ICAM1, NFKBIA, RUNX2	182 (18)
dehydroandrosterone		chemical - endogenous mammal		-0.742	bias	1.36E-03	BMP4, Cc2, ICAM1, KLF3, NFKBIA, RACK1, Saa3	197 (22)
IL12B		cytokine		1.525	bias	1.37E-03	Cc2, CD86, CEPBD, ICAM1, IL1B, PIK3AP1	182 (18)
TCF12		transcription regulator		0.655	bias	1.37E-03	BLNK, FLT3, GAT3, GJB2, IL7R, ZC3H12A	30 (2)
chloro arsenite		chemical drug		1.400	bias	1.37E-03	CEBPA, FTH1, GAD45H, HK2, JUN, LITAF	187 (18)
TFAP2A		transcription regulator		1.623	bias	1.37E-03	ALCAM, BIRC3, CEPBA, KLF4, PLAGL1, RAB27B, SERPINE1, SOD2	195 (16)
INSIG1		other	Inhibited	-2.828	bias	1.37E-03	CD8, CCR7, CD86, CLEC4D, FABP5, HMGC2, MRC1, NQO2	
BRCA1		transcription regulator	Activated	2.319	bias	1.37E-03	CD24a, FAS, GAD64S6, GDF15, HSPB1, KLF3, NEK2, NQO1, PERP, SERPINE2	198 (17)
zuribone		chemical - endogenous non-mar		-0.832	bias	1.39E-03	BCL2A1, BIRC3, CASP3, ICAM1	101 (10)
TRIM1 (complex)		complex				1.39E-03	CD86, CD86, ICAM1, SERPINE1	
TRPS1		transcription regulator		0.152	bias	1.39E-03	ENPP1, GALNT3, RUNX2, SERPING1	
MAP3K3		kinase				1.39E-03	BMP2, JUN, STEAP4, TNFAIP3	150 (17)
CLDN6		other				1.39E-03	CLDN10, CLDN4, KLF4, TMG3	
TRPV4		ion channel	Activated	2.000	bias	1.39E-03	Cc2, CD8, FAS, Saa3	113 (7)
IL-290157		chemical reagent		2.000	bias	1.39E-03	BMP4, CD40, CD86, IL1B	176 (13)
GLI1		transcription regulator	Activated	2.527	bias	1.40E-03	BCL2A1, Cc2, C24a, CSF1, FAS, JUP, KLF4, KLF3, KRT19, MEST	139 (7)
4-hydroxytamoxifen		chemical drug	Activated	2.359	bias	1.44E-03	CDCA7, CEPBA, CEPBD, CLDN4, IL7R, JUN, KRT19, NFKBIA, RND1, TM4SF1	215 (22)
2,LL-CHO		chemical - protease inhibitor		1.791	bias	1.44E-03	BIRC3, Cc2, CEPBA, DMD, FAS, GSTP1, HSPB1, ICAM1, IL1B, JUN	217 (22)
TRAF3		transcription regulator		1.925	bias	1.46E-03	Cc2, CEPBA, GAT3, Hamp/Tamp2, PRKGI, SERPINE1, TNFAIP3	
NCOA3		transcription regulator	Activated	2.592	bias	1.46E-03	CNNA2, CEPBA, GJB2, HK2, Muc1, NFKBIA, XDH	151 (11)
KLF6	1.036	transcription regulator		1.503	bias	1.46E-03	Cc2, IL1B, MRC1, NFKBIA, SDC1, TNFAIP3, TNIP1	154 (16)
PRNP		other		0.059	bias	1.46E-03	CASP3, CD44, FOSL1, HSPB1, IL1B, LRP1, NFKBIA	212 (20)
STAT2		transcription regulator		0.980	bias	1.46E-03	Cc2, CD40, CD86, GBP6, Irf1, IRF5	137 (10)
PTGIR		transcription regulator		-1.706	bias	1.46E-03	BLNK, Cc2, CD14, CD86, NFKBIA, ZNF703	
diphenyleneiodonium		chemical reagent	Inhibited	-2.400	bias	1.49E-03	BMP2, Cc2, CLDN4, IL1B, SERPINE1, SOD2	189 (18)
DICER1		enzyme	Inhibited	-2.621	bias	1.49E-03	CASP3, CD44, CD86, DEPP1, ICAM1, ID3, IL1B, IL7R, JUN, RASGRP1	210 (22)
CDKN2A		transcription regulator		-0.432	bias	1.49E-03	BTG3, CASP3, Cc2, Cc2, CNNA2, CCR7, CEPBD, CXCL14, DONSON, IL1B	226 (22)
TRIM1		enzyme		1.571	bias	1.52E-03	BIRC3, CD83, CD86, HK1, IL1B, NFKBIA, RUNX2, SDC1, SOD2, SERPINE1	215 (17)
RNASEH2A		enzyme				1.52E-03	IFI16, IFNGR2, IRF5, NFkBIA, OASL	
TLR7/8		group	Activated	2.000	bias	1.52E-03	BCL2A1, NFKBIA, NFKBIZ, PNR1, TNFAIP3	107 (7)
TNFSF12		cytokine		2.747	bias	1.55E-03	BST1, Cc2, CD86, CLEC4D, ICAM1, IL1B, NFKBIA, TNFRSF12A	174 (17)
PTGER2		G-protein coupled receptor		1.725	bias	1.55E-03	CNNA2, CCR7, CLEC4D, ESD, IL1B, IL36G, NEK2, SERPINE1	157 (17)
TNFRSF18		transmembrane receptor		0.816	bias	1.63E-03	CCR7, FAS, IFI16, C2, RELB, VCL	
NODAL		growth factor		-1.000	bias	1.63E-03	CCR7, CD40, CD86, MRC1	94 (7)
SLPI		other		-0.762	bias	1.63E-03	CD40, CD86, ICAM1, NFKBIA	126 (16)
NFKBIZ	0.499	transcription regulator		1.960	bias	1.63E-03	Cc2, CEPBD, CSF3, IL36G	189 (12)
HSPD1		enzyme		1.969	bias	1.63E-03	Cc2, GAT3, ICAM1, IL1B	156 (19)
chalconoxin A		chemical toxicant				1.63E-03	CASP3, FAS, GSTP1, NQO1	
IRS1		enzyme		1.054	bias	1.66E-03	BMP6, BUB1, CEPBA, CEPBD, GAT3, KLF4, NFKBIA, RHO, Tcf7	173 (12)
chlorpromazine		chemical drug		-0.555	bias	1.69E-03	CD83, DEPP1, HPN, IL1B, SL, C2A3	
azithromycin		chemical drug				1.69E-03	Cc2, IL1B	

SR 144528		chemical reagent			1.69E-03	ICAM1, IL1B, NFKBIA	187 (6)
5-fluorouracil		chemical drug	Activated	2.031	1.70E-03	CASP3, CD40, CD81, CD86, FAS, GAP43, GDF15, IL1B, JUN, RHBD2	207 (19)
5-N-ethylcarboxamido adenosine		chemical reagent		-0.707	1.75E-03	Cd2, CEBPD, CSF2RB, DUSP16, HK2, IL1B, KLF6, SERPINE1	177 (15)
TSG2		other	Inhibited	-2.355	1.75E-03	Cd2, CD68, CP, GAP43, HK2, HMGCS2, HSPB1, RASSF4, SOD2	198 (19)
EGLN1		enzyme		1.000	1.77E-03	Cd2, CD86, Hamp/Hamp2, ICAM1, IL1B, SDC4	196 (19)
RHO		G-protein coupled receptor		-0.447	1.77E-03	CASP3, CD4, CEBPD, HK2, SERPINE1, TNFAIP3	173 (19)
SIN3A		transcription regulator			1.77E-03	CASP3, GADD45B, GSTP1, KLF6, KLF3, SERPINE1	162 (11)
IRF1		transcription regulator	Activated	3.056	1.79E-03	CTR, CASP3, CD40, CXCL16, IRF47, IL1B, IRF5, OASL, PLA2G16, PSMB10	168 (16)
CDH1		other		0.051	1.80E-03	BMP4, CD44, FOSL1, JUN, JUP, KRT19, RALA	213 (22)
CFTR		ion channel		-0.896	1.80E-03	BLNK, CTR, FAS, NFKBIA, NFKB1, Saa3, TNFAIP3	173 (19)
phytohemagglutinin		chemical drug	Activated	2.720	1.81E-03	ALDH2, CASP3, CCR7, CD44, CD83, CSF1, CXCL12, FAS, GATA3, ICAM1	135 (7)
CD24		other			1.85E-03	APOBEC3B, GDF15, ICAM1, JUN, OASL, RELB, SLC30A1, SLC4A4	148 (17)
ACKR2		G-protein coupled receptor	Inhibited	-2.236	1.88E-03	ACOD1, IFI16, IRF47, IL1B, OASL	148 (17)
D-galactosamine		chemical - endogenous mammal	Activated	2.219	1.88E-03	CD14, GDF15, ICAM1, JUN, SOD2	111 (7)
TIFA6		transcription regulator			1.90E-03	JUN, NFKBIA, TNFAIP3, ZBTB16	175 (18)
OSMR		transmembrane receptor		1.969	1.92E-03	BIRC3, Cd2, GAP43, IRF47, IL6ST, Serpina3g (includes others)	175 (18)
USF2		transcription regulator			1.92E-03	CD2, GATA3, Hamp/Hamp2, KLF3, PRKG1, SERPINE1	116 (9)
HDAC4		transcription regulator			2.04E-03	DMD, FOSL1, HOMER2, JUN, RAB3C, RTN1, RUNX2, SYN2, TNFRSF12A	106 (11)
LCN2		transporter		0.163	2.06E-03	BMP2, Cd2, Cc8, IL1B, MRC1, RUNX2, TINAG1	150 (18)
amphetamine		chemical drug		1.050	2.06E-03	BMP4, BUB1, FOSL1, GRM6, ICAM1, JUN, TNFAIP3	150 (18)
ATP		chemical - endogenous mammal	Activated	2.515	2.08E-03	Cd2, CCR7, CD14, CD83, CD86, ICAM1, IL1B, SERPINE1	151 (7)
EGLN		group	Inhibited	-3.109	2.09E-03	CAVIN1, Cd2, FTL, GATA3, Hamp/Hamp2, HK2, RNASE4, Serpina3g (includes others), SERPINE1, STC2	134 (16)
resatorvid		chemical drug			2.17E-03	APOBEC3B, Cd2, IL1B	
peroxivine		chemical drug			2.17E-03	DEP1, HNF1, SL, CD2A3	
LILRA2		other			2.17E-03	CD40, CSF3, MRC1	
ERFE		other			2.17E-03	ATOH8, Hamp/Hamp2, ID1	
mi-373		microRNA			2.17E-03	CD4, LATS2, SERPINE1	
FSTL1		other			2.17E-03	Cd2, GDF15, IL1B	
ATXN3		peptidase			2.17E-03	CXCL12, IL1RL1, SOD2	146 (16)
KRT8	0.955	other			2.17E-03	KRT19, KRT20, Reg3d	
CCL3L3		cytokine			2.17E-03	Cd2, CD40, IL1B	135 (13)
SIRP4		phosphatase			2.17E-03	Cd2, CSF3, IL1B	150 (17)
hydroquinone		chemical - endogenous mammal			2.17E-03	IL1B, JUN, SFR1	146 (16)
MRTFA		transcription regulator		0.946	2.19E-03	CXCL12, CYBA, F11R, HLA-A, ICAM1, ID1, RAB27B, Saa3, TST, VCL	29 (3)
UTP		chemical - endogenous mammal			2.19E-03	Cd2, CD14, ICAM1, SERPINE1	161 (18)
PROCR		other		-0.747	2.19E-03	Cd2, G8P6, ICAM1, IL1B	169 (19)
SCAP31		transporter		-0.152	2.19E-03	Cd2, CD81, CD8, IL1B	
BGN		other		0.862	2.19E-03	BMP2, IL1B, RUNX2, SERPINE1	220 (22)
Saa3	1.778	other			2.19E-03	APOA1, BMP2, CSF3, RUNX2	
SLC9A3		ion channel			2.19E-03	IRF47, Reg3d, Saa3, Upp1	
BMPR1B		kinase		1.969	2.19E-03	ID1, ID3, RUNX2, SERPINE1	176 (17)
disulfide		chemical - endogenous non-mar		1.980	2.19E-03	CASP3, GDF15, GSTA3, NQO1	
ceramide		chemical - endogenous mammal		1.091	2.19E-03	CASP3, ICAM1, IL1B, JUN	199 (21)
NCOA2		transcription regulator		0.964	2.20E-03	BMP2, Cd2, CEBPA, IL1B, KLF3, KRT19, NFKBIA, OASL	166 (18)
arsenite		chemical toxicant			2.20E-03	ESD, GSTP1, Hspa15, HSPB1, JUN, NQO1, PRKG1, SERPINE1	217 (22)
FOX42		transcription regulator		1.668	2.24E-03	ALAS1, APOA1, C8a, CEBPA, CLCA1, CLDN6, EPHD2, FABP5, GPRC5C, HK2	144 (18)
Rx-21		microRNA	Inhibited	-3.219	2.25E-03	CASP3, CDNA2, FAS, GATA3, G8P6, Shp8, ICAM1, IFI16, IL1B, IL26	184 (19)
FOXJ2		transcription regulator	Activated	2.429	2.26E-03	BCL2A1, BMP2, FAS, ICAM1, SOD2, TNFAIP3	
BCL2L1		other		-0.928	2.26E-03	CASP3, Cd2, CD44, FAS, IL1B, NQO1	160 (18)
QASR		G-protein coupled receptor		1.667	2.26E-03	ARHGEP3, CD44, Clec4d (includes others), CSF1, GATA3, ID1, ITGB7, VCL, ZYX	132 (7)
TIR8		transmembrane receptor	Activated	3.219	2.31E-03	Cd2, Cc8, CD40, CD86, CSF1, CSF3, CXCL12, IL1B	180 (20)
A2M		transcription regulator		0.372	2.31E-03	Cd2, GADD45B, GAP43, IL1B, LRP1	151 (15)
IFNGR1		transmembrane receptor		1.686	2.31E-03	Cd2, CXCL12, FAS, ICAM1, IL1B	150 (15)
NLRP3		other		0.840	2.35E-03	Cd2, CSF3, CXCR3, GATA3, IL1B, MRC1, RELB	183 (18)
bexarotene		chemical drug		1.411	2.40E-03	ALCAM, BMP6, Cd2, DEP1, DHR33, ICAM1, ID1, IL1B, Nes, Pnrc1	193 (18)
cytarabine		chemical drug	Activated	2.431	2.44E-03	CD40, CD86, FAS, HLA-A, ICAM1, IL1B	168 (18)
black raspberry extract		chemical drug			2.46E-03	AKR1B10, BUB1, CD44, KRT20, LAMB3, PLS3, SDC1, SLC30A1	
RET		kinase	Activated	2.425	2.46E-03	Cd2, CSF1, CSF3, CXCL12, IL1B, KLF3, PTPN13, SCAR3A	181 (17)
CCR2		G-protein coupled receptor	Activated	2.743	2.46E-03	Cd2, Cc8, CD40, CD86, CSF1, CSF3, CXCL12, IL1B	184 (19)
BIR4		kinase	Activated	2.000	2.49E-03	CNA2, CEBPA, ICAM1, IL1RL1, CX, MAL, NQO1, NQO1, STC2	131 (13)
RORA		ligand-dependent nuclear recept		1.609	2.49E-03	Ca1t, Cd2, Cc8, CLCA1, GADD45B, GSTP1, IL1B, LPIN2, NFKBIA, SLC2A3	97 (7)
aluminum hydroxide		chemical drug			2.50E-03	Glycam1, ICAM1	137 (11)
LY75	1.199	transmembrane receptor			2.50E-03	CD40, CD86	
B3GN2		enzyme			2.50E-03	CD14, IL1B	
CYP2C8		enzyme			2.50E-03	Cd2, IL1B	
SIRT4		enzyme			2.50E-03	Cd2, IL1B	
Casein		group			2.50E-03	ICAM1, IL1B	
serotonic acid		chemical - endogenous mammal			2.50E-03	CD40, IL1B	
RNF5		transcription regulator			2.50E-03	BMF, KLF3	136 (7)
TAOK2		kinase			2.50E-03	GSTP1, SOD2	
miR-328-3p (and other miRNAs)		mature microRNA			2.50E-03	CD44, CEBPA	
EGFL7		other			2.50E-03	ICAM1, NFKBIA	
FBXL5		enzyme			2.50E-03	FTTH, SLC11A2	
PTG2		transmembrane receptor			2.50E-03	CXCL12, JAG1	
CFL1		other			2.50E-03	ICAM1, JUN	122 (12)
M3		other			2.50E-03	CEBPD, GSTP1	
DEETGE-CAL-Tat		chemical reagent			2.50E-03	NQO1, SOD2	
ascornycin		chemical reagent			2.50E-03	CD83, CD86	
phenanthridine		chemical toxicant			2.50E-03	CD83, CD86	
sucniylacetone		chemical - endogenous mammal			2.50E-03	ALA51, CYBA	
MAX		transcription regulator		-0.128	2.51E-03	FTTH, GADD45B, HK2, HMG1, ID1, KLF6, SLC2A3	181 (17)
COL18A1		other	Inhibited	-2.621	2.51E-03	ANTXR1, HK2, ICAM1, ID1, ID3, JUN, SERPINE1	
TLG1A		transcription regulator			2.51E-03	ACOD1, CD86, GLEAD, GDF15, IL1B, LY93, STEAP4	
choline fenofibrate		chemical drug		-0.218	2.51E-03	CXCL12, NFKBIA, SERPINE1, UGT1A7 (includes others)	111 (7)
CX3CR1		G-protein coupled receptor		0.000	2.51E-03	Cd2, CD14, ICAM1, IL1B	160 (17)
RC3H1		enzyme			2.51E-03	CCR7, IL1B, IL6ST, SDC1	
MALP-2a		chemical reagent	Activated	2.000	2.51E-03	BCL2A1, CD40, CD86, IL1B	194 (21)
SNCA		complex	Activated	2.207	2.55E-03	CASP3, Cd2, CD86, CD8L, DHR33, HOMER2, Hspa15, IRF47, IL1B, PTK2B	201 (18)
VitaminD3-VDR-RXR		transcription regulator		0.152	2.55E-03	CD14, IL1RL1, KLF4, SEMA3B, SERPINE1	
MYB12		transcription regulator		1.432	2.55E-03	BIRC3, BUB1, CNA2, CEBPA, ID1	174 (18)
SPHK1		kinase		1.091	2.55E-03	BIRC3, Cd2, IL1B, JUN, SERPINE1	160 (16)
IL12A		cytokine		1.467	2.55E-03	CASP3, CD86, FAS, ICAM1, IL1B	170 (20)
vincristine		chemical drug		2.219	2.55E-03	FAS, GAP43, IL1B, JUN, SOD2	176 (14)
D-fructose		chemical - endogenous mammal	Activated	-1.066	2.59E-03	Cd2, CD86, CEBPA, ICAM1, IL1B	131 (12)
TAL1		transcription regulator		0.426	2.61E-03	BUB1, DOKK1, GATA3, HLA-A, ICAM1, JUN, MEST, NFKB1, PTK2B, SLC2A3	244 (22)
Hdac		group		2.389	2.63E-03	BMP2, BMP2, CD44, GATA3, PRKG1, RND3, RUNX2	146 (9)
DKK1		growth factor	Inhibited	-1.347	2.67E-03	GDF15, ICAM1, IL1B, JUN, PRKG1, RND3, RUNX2	203 (21)
RHOA		enzyme		-0.292	2.71E-03	BLNK, BMP2, CASP3, CNA2, CEBPA, CXCL12, ID1, IL1B, LYN, MAPK4	222 (23)
matinib		group			2.72E-03	CAVIN1, CD44, IL1B	
Actin		phosphatase			2.72E-03	Cd2, CEBPD, CXCL14	
Ptprb		phosphatase			2.72E-03	Cd2, ICAM1, IL1B	152 (15)
N2-(gamma-D-glutamyl)-meso-elastase		chemical reagent			2.72E-03	ICAM1, IL1B, MLKL	133 (15)
PSMB10	0.446	peptidase			2.72E-03	GATA3, NFKBIA, TNFAIP3	85 (7)
Betacatenin/TCF		complex			2.72E-03	CD44, JUN, RUNX2	160 (11)
ACE2		peptidase			2.72E-03	Cd2, IL1B, SERPINE1	192 (18)
Hsp27		group		0.000	2.80E-03	CASP3, CD14, CD86, CSF1, KLF3	
LRP6		transmembrane receptor		-0.176	2.80E-03	CD86, GATA3, HK2, IL1B, SLC2A3	118 (10)
ADORA1B		G-protein coupled receptor			2.80E-03	CEBPD, FABP4, IL6ST, JUN, RALA	123 (9)
LTG7		transcription regulator			2.80E-03	CEBPA, CEBPD, GATA3, LCK, Tcf7	179 (20)
Igm		complex		-1.119	2.84E-03	BCL2A1, CNA2, CD40, CD44, FAS, ID3	100 (9)
SPDEF		transcription regulator			2.84E-03	BIRC3, CD40, KLF3, LASP1, SDC1, SERPINE1	137 (7)
RASSF1		other		0.626	2.85E-03	AMIGO2, CASP3, CAV2, CNA2, GDF15, KLF4, LITAF	89 (8)
SAMSN1		other	Activated	2.646	2.85E-03	BATF, CD40, NFKBIA, OASL, SDC1, Vmn3, ZC3H12A	164 (18)
CLEC7A		transmembrane receptor		1.940	2.87E-03	CCR7, CLCA1, CSF3, IL1B	205 (20)
B2M		transmembrane receptor		0.152	2.87E-03	CD8A, Hamp/Hamp2, HLA-A, IL1B	204 (17)
FCGR2A		transmembrane receptor		1.992	2.87E-03	Cd2, FAS, IL1B, SERPINE1	150 (18)
olipraz		chemical drug		1.961	2.87E-03	FTTH, GSTP1, NQO1, UGT1A7 (includes others)	81 (7)
methylxanthinosoguanidine		chemical toxicant		1.990	2.87E-03	CEBPA, FAS, GDF15, SERPINE1	154 (18)
suramin		chemical drug		-0.911	2.87E-03	Cd2, CD40, CD86, ICAM1	150 (18)
dicarbethoxydihydrocolidine		chemical toxicant			2.87E-03	Cd2, CNA2, IL1B, KRT19	154 (18)
hemozoin		chemical - endogenous non-mar		1.921	2.87E-03	Cd2, CD83, ICAM1, IL1B	146 (16)
CyD ODN 2006		chemical reagent	Activated	2.507	2.91E-03	BIRC3, CD40, CD86, ICAM1, IL1B, NFKB1, OASL	184 (20)
MIF		cytokine	Activated	2.742	3.05E-03	Cd2, CD44, CXCL16, ICAM1, IL1B, IL6ST, IL7R, JUN	136 (7)
paraquat		chemical toxicant		1.916	3.05E-03	APOA1, CEBPD, FAS, GSTA3, GSTP1, KLF6, LAMC2, LPIN2	143 (16)
C3		peptidase		1.378	3.06E-03	CASP3, Cd2, CSF1, CXCL16, IL1B, JUN	204 (21)
MYRF		transcription regulator		0.000	3.06E-03	ANKA6, GDF15, HPDGS, NPSD1, RHOU	175 (18)
PRKD1		kinase	Activated	2.080	3.08E-03	Cd2, CD2, CD86, IL1B, TNFAIP3	154 (16)
valsartan		chemical drug	Inhibited	-2.202	3.09E-03	Cd2, CYBA, ICAM1, IL1B, SERPINE1	175 (18)
PTH		group	Activated	2.296	3.09E-03	BMP2, Cd2, CSF1, CXCL12, CYBA, GALNT3, JUN, RUNX2, Saa3, SDC4	176 (16)
EN1		cytokine	Activated	2.748	3.15E-03	ADAM19, ANKX6, BCL2A1, CCR7, FOSL1, ICAM1, JUN, P, Q84, SDC1, SERPINE1	173 (18)
IRN Beta		group		1.445	3.16E-03	ACOD1, CCR7, CD40, CD83, CD86, HLA-A, IFI16, IL1B, OASL	201 (20)
mi-155		microRNA		-0.684	3.22E-03	CD86, CEBPA, CSF3, DOKK1, HK2, IL1B, IRAK3, SERPINE1	
HNF1B		transcription regulator		0.816	3.22E-03	CD44, F11R, ID1, ID3, JAG1, RNASE4, UGT1A7 (includes others), UPP1	151 (9)
RPSA		translation regulator	Inhibited	-2.000	3.26E-03	CSF3, IRF47, IL1B, RELB	
miR-221-3p (and other miRNAs)		mature microRNA		-1.994	3.26E-03	BMF, ICAM1, KLF3, SOD2	
VAV3		cytokine			3.26E-03	BCL2A1, CAV2, KLF3, RALA	
CDK5		kinase		1.929	3.26E-03	CD14, JUN, RALA, TNFAIP3	113 (10)
NFATC3		transcription regulator		-0.254	3.29E-03	B3GAT1, BMP2, CASP3, GAP43, JUN, PRKD3	164 (17)
2-deoxyglucose		chemical drug		0.056	3.29E-03	BMF, CASP3, Cd2, IL1B, JUN, SOD2	209 (17)
AKT1		kinase	Activated	2.751	3.29E-03	AKT1B10, BCL2A1, BIRC3, BMP2, CASP3, Cc8, CD40, CD86, CEBPD, FABP5	155 (20)
monophosphoryl lipid A		chemical drug			3.34E-03	Cd2, CD86, IL1B	
1'-acetoxycyclool acetate		chemical reagent			3.34E-03	BCL2A1, BIRC3, ICAM1	118 (12)
TIFA		other			3.34E-03	ICAM1, NFKBIA, TNFAIP3	126 (15)
NSD1		transcription regulator			3.34E-03	BMP4, IRAK3, KLF6	155 (17)
TRAF5		transporter			3.34E-03	CD86, FAS, ICAM1	104 (7)
TNFSF9		cytokine			3.34E-03	CCR7, CD14, ICAM1	105 (7)
Z-551		chemical reagent			3.34E-03	Cd2, CD86, IL1B	

PDLIM2		other		-1.890		3.41E-03	BST1,CRISPLD2,FBP1,RTN1,SCARA3,SLC43A3,STC2		
mr-210		microRNA	Inhibited	-2.368	bias	3.41E-03	CDH9,CXCL12,FGFR1,KLFB,LASP1,RADS52,SCARA3		
FOXO4		transcription regulator		0.692		3.41E-03	ANKX3,FABP5,GADD45B,JAG1,LCP2,SERPINE1,SOD2	150 (7)	
ciprofibrate		chemical drug		0.174		3.47E-03	CXCL12,GSTP1,KRT8,MGLL,NFKBIA,OAT,Saa3,SLC4A4,Vnn3	114 (8)	
L-tryptophan		chemical - endogenous mamma		-0.730	bias	3.49E-03	APOA1,BMP4,CAMK4,CD44,CEBPA,CXCL12,FAS,GDF15,HBPD,ID1	190 (19)	
LGAL5		other		1.710	bias	3.53E-03	ANG2,Cd2,CXCL16,IFNGR2,IL1B,SERPINE1	219 (23)	
GW3965		chemical reagent		-1.039		3.57E-03	APOA1,Cd2,CNA2,CD86,CSF3,FABP5,IL1B,NFKBIA	148 (12)	
RPTOR		other		-0.136	bias	3.62E-03	Cd2,CCR7,CD86,HK2,IL1B,LY75,MRC1	188 (21)	
TRAP		other		0.762	bias	3.68E-03	CD40,CD86,ICAM1,IL1B	148 (17)	
VTN		other		1.199	bias	3.68E-03	IL1B,RUNX2,SERPINE1,SFN	154 (20)	
TAB1		enzyme		-0.702	bias	3.68E-03	BIRC3,IL1B,JUN,SERPINE1	143 (8)	
butylated hydroxyanisole		chemical toxicant		1.896	bias	3.68E-03	GSTA3,GSTP1,JUN,NQO1	46 (3)	
selenium		chemical drug		-0.152		3.68E-03	APOA1,CEBPA,KLK3,MRC1	114 (7)	
Hedgehog		group				3.68E-03	CNA2,JAG1,KLF4,KLK3,KRT19		
silylic acid		chemical drug		-1.000	bias	3.68E-03	APOA1,CSF1,CSF3,GDF15,IL1B	161 (20)	
AMPK		complex		1.195		3.75E-03	BMP2,BMP2,Cd2,CXCL12,LITAF,OAT,RUNX2,SERPINE1	202 (21)	
3M402		chemical reagent	Activated	2.204		3.75E-03	ACOD1,BCL2A1,CD40,CD83,CD86,FOSL1,IL1B,Saa3	140 (15)	
staurosporine		chemical - kinase inhibitor		-1.238		3.75E-03	CASP3,CD28,FAS,FOSL1,ICAM1,IL1B,NQO1,SERPINE1	169 (20)	
flutamin		chemical drug	Activated	2.412	bias	3.79E-03	ALAS1,CD14,CSF1,CYP3A7,GSTP1,IL1B,PDGFR,SERPINE1,UGT1A7 (includes others)	26 (4)	
H99		chemical - kinase inhibitor		-1.795	bias	3.79E-03	Cd2,CD14,CD83,GSTP1,IL1B,NFKBIA,SDC1,SERPINE1,SOD2	209 (16)	
daidzein		chemical drug		0.816	bias	3.84E-03	CASP3,CD86,CXCR3,HLA-A,LCP2,NQO1,RASGRP1	169 (17)	
ARNT		transcription regulator		0.277	bias	3.95E-03	CCR7,CD81,CSF3,CXCR3,HK2,NQO1,SERPINE1,SLC2A3	182 (13)	
vorinostat		chemical drug		-1.356		3.99E-03	BIRC3,BMP,CSF3,CD86,CEBPA,FAS,ICAM1,IL1B,JUN,KLF4	204 (18)	
9,10-dimethyl-1,2-benzanthrac		chemical toxicant				4.02E-03	IL1B,JUN,MRC1,NQO1,SERPINE1	182 (20)	
beta-naphthoflavone		chemical toxicant		1.350	bias	4.02E-03	FTH1,GSTP1,NQO1,Saa3,UGT1A7 (includes others)	208 (17)	
HDAC5		transcription regulator				4.05E-03	HK2,HMGCS2,JUN,KLF6,PTPN13,RUNX2		
AGER		transmembrane receptor		1.449	bias	4.05E-03	Cd2,CSF1,FAS,ICAM1,IL1B,SERPINE1	186 (21)	
SHARPIN		other				4.05E-03	IL1B,M,K,L,TNFAIP3	120 (14)	
GA52L3		other				4.05E-03	FAS,PTPN14,TM6SF1		
BMP10		growth factor				4.05E-03	ICAM1,ID1,NFKBIA	149 (7)	
PRF1		transporter				4.05E-03	Cd2,CD44,IL1B	137 (12)	
MAFG		transcription regulator				4.05E-03	GSTA3,GSTP1,NQO1		
EPHX2		enzyme				4.05E-03	Cd2,ICAM1,IL1B	190 (19)	
MAPK10		kinase				4.05E-03	CASP3,CD44,JUN	184 (17)	
CXCL2		cytokine				4.05E-03	Cd2,ICAM1,IL1B	182 (18)	
VIPR1		G-protein coupled receptor				4.05E-03	Cd2,CD40,CD86	119 (13)	
SMURF2		enzyme				4.05E-03	JUN,RUNX2,SERPINE1	186 (17)	
NAM1		transcription regulator				4.05E-03	IL1B,IL7R,RND3	66 (7)	
EFNB2		kinase				4.05E-03	IL7R,RUNX2,TIAM1		
DSP		other				4.05E-03	Cd2,CEBPA,JUP		
BHLHA15		transcription regulator				4.05E-03	CKAR,GJ2,KRT19		
cyclopiazonic acid		chemical - endogenous non-ma				4.05E-03	BCL2A1,Cd2,FAS	86 (7)	
silicon dioxide		chemical drug				4.05E-03	FOSL1,IL1B,JUN	208 (21)	
erythromycin		chemical drug				4.05E-03	CD86,ICAM1,IL1B	148 (17)	
CDK19		kinase		-1.414	bias	4.07E-03	CD81,FAS,JUN,RHBD2,SDC1,SFN,UPP1		
atorvastatin		chemical drug		-1.671		4.09E-03	AP0A1,BMP2,BMP6,Cd2,CD40,CYBA,GADD45B,ICAM1,IL17RD,JUN	204 (21)	
p38 Sapk		group				4.11E-03	CD83,CD86		
Msi/Krs		group				4.11E-03	RELB,YAP1		
ATPase		group				4.11E-03	CD40,ICAM1		
Em		group				4.11E-03	CD44,ICAM1		
CYP		group				4.11E-03	CD86,NQO1		
olmesartan		chemical drug				4.11E-03	CYBA,ICAM1		
FOXK2		transcription regulator				4.11E-03	MCM3,SERPINE1		
ZM22		transcription regulator				4.11E-03	CD44,JUN		
Mucin		group				4.11E-03	CD83,CD86		
DCB 3503		chemical reagent				4.11E-03	Cd2,IL1B		
TDP2		transcription regulator				4.11E-03	KLK3,SYT1		
HADHA		enzyme				4.11E-03	Cd2,IL1B	95 (7)	
MAPKAPK5		kinase				4.11E-03	MAPK6,TNFAIP3		
Om1 (includes others)		other				4.11E-03	Cd2,IL1B		
EIF2AK1		kinase				4.11E-03	Hamp/Hamp2,IL1B		
BCAR3		other				4.11E-03	RALA,RRAS		
CE51		enzyme				4.11E-03	Cd2,IL1B		
Cw33		cytokine				4.11E-03	CEBPA,CEBPD		
ELF2		transcription regulator				4.11E-03	KLK3,LYN		
4,4'-disothiocyanostilbene-2,2'		chemical drug				4.11E-03	CASP3,Cd2	128 (13)	
cimetidine		chemical drug				4.11E-03	FAS,GDF15		
cinnamyl-3,4-dihydroxy-alpha-c		chemical reagent				4.11E-03	Cd2,MRC1		
orantin		chemical drug				4.11E-03	CASP3,ICAM1		
retinaldehyde		chemical - endogenous mamma				4.11E-03	BMP2,CD44		
Stat3-Stat3		complex	Activated	2.000	bias	4.14E-03	FTL,ICAM1,JUN,SOD2	144 (7)	
HOXC8		transcription regulator		-1.000	bias	4.14E-03	ADAM19,Cd2,KRT19,NQO1		
SHH		peptidase		1.133	bias	4.28E-03	BMP2,BMP4,HK2,HMG2A1,ID1,LASP1,MCM3,RUNX2,SERPINE1,YAP1	213 (26)	
mr-199a-5p (and other mRNA		mature microRNA	Inhibited	-2.433	bias	4.33E-03	CD31,ICL1,EL4,1,AMC2,RND1,ZBTB16		
methamphetamine		chemical drug	Activated	2.407	bias	4.35E-03	Cd2,FAS,HOMER2,ICAM1,IL1B,JUN	200 (18)	
PELP1		other				4.35E-03	AHNAK2,BMP2,CSF3,GJB2,IL1B,KLK3,MAPK4,MRC1	121 (7)	
QPER1		G-protein coupled receptor	Activated	2.236	bias	4.37E-03	CEBPD,JUN,NFKBIA,RND1,TNFAIP3	259 (21)	
enalapril		biologic drug				4.37E-03	CD44,CP,SERPINE1,SLC3A2,TNFRSF12A		
RB1		transcription regulator		-0.473		4.41E-03	BTG3,CASP3,CNA2,CEBPA,DONSON,FAS,FOSL1,GPRI75,GPRCSC,ID1	215 (20)	
Pdgfr (complex)		complex		1.424	bias	4.55E-03	Cd2,CD44,CYBA,ICAM1,JAG1,JUN,SERPINE1	197 (20)	
NTRK2		kinase		1.964	bias	4.63E-03	BMP2,CNA2,JAG1,Muc1,SERPINE1,SYT1	97 (7)	
KDMA3		transcription regulator		1.962	bias	4.63E-03	ALCAM,CD3,GDF15,SERPINE1		
ARHGAP31		other		0.000		4.63E-03	BMP2,GADD45B,GDF15,JUN		
SOST		enzyme		1.980	bias	4.63E-03	Cd2,CEBPA,IL1B,SOD2	129 (12)	
CYBB		other	Activated	2.000	bias	4.63E-03	Cd2,CYBA,ICAM1,IL1B	195 (17)	
IL17RA		transmembrane receptor		1.992	bias	4.63E-03	Cd2,CSF3,CXCL12,IL1B	153 (15)	
SFRP1		transmembrane receptor		-1.413	bias	4.74E-03	CASP3,GATA3,RUNX2,SERPINE1,Tcf7	189 (16)	
MMP1		peptidase		1.432	bias	4.74E-03	CXCL12,JUN,NFKBIA,RUNX2,SERPINE1	152 (15)	
DCN		other		-0.836		4.74E-03	CASP3,ICAM1,IL1B,SDC1,SERPINE1	167 (23)	
IL12 (family)		group	Activated	2.813	bias	4.79E-03	ADAM19,CD44,CD86,GATA3,IL1B,NFKBIZ,SERPINE1,SLC2A3	185 (20)	
FZD9		G-protein coupled receptor				4.85E-03	Cd2,CXCL14,IFI16		
fontolizumab		biologic drug				4.85E-03	FAS,LAG3,TGM5		
GIP		other				4.85E-03	Cd2,Cd8,Tcf7		
CD70		cytokine				4.85E-03	BCL2A1,CD44,FAS	140 (19)	
IL1RAP		transmembrane receptor				4.85E-03	Cd14,CD40,IL1RL1	134 (10)	
S1PR2		G-protein coupled receptor				4.85E-03	Cd2,ICAM1,JUN	197 (20)	
KLK5		peptidase				4.85E-03	Cd8,ICAM1,IL1B		
7-nitroindazole		chemical reagent				4.85E-03	GSTP1,NFKBIA,PRKG1		
phenyl-N-tert-butylitron		chemical reagent				4.85E-03	CD40,CD83,CD86	169 (14)	
glutaryl-Sa-methylselenocyste		chemical - endogenous mamma				4.85E-03	GSTP1,ID1,JUN		
IB		cytokine				4.94E-03	ADAM19,CD14,CD86,CSF1,CSF3,FAS	165 (19)	
MAP2K6		kinase		-0.763	bias	4.94E-03	Cd2,CD40,CD83,CD86,JUN,RELB	138 (17)	
doxycycline		chemical drug		1.000		4.94E-03	BMP2,CD86,CXCL12,SDC1,SOD2,XDH	127 (13)	
ESRRA		ligand-dependent nuclear recep		1.562	bias	4.99E-03	ALAS1,CCR7,CEBPA,CSF3,IKK1,HK2,KRT19,KRT20,KRT23,RUNX2	80 (5)	
acetaminophen		chemical drug	Activated	2.304	bias	4.99E-03	CASP3,Cd2,CXCR3,FAS,GSTP1,HMGCS2,ICAM1,IL1B,JUN,NQO1	187 (19)	
diethylstilbestrol		chemical toxicant		0.555		5.07E-03	CASP3,CXCL12,GSTP1,Hspa1b,KRT8,DAT,Vnn3	136 (7)	
L-methionine		chemical - endogenous mamma				5.14E-03	BUB1,GADD45B,IFI16,NFKBIA,SOD2	143 (7)	
CASP8		peptidase				5.14E-03	CD14,CD44,CSF1,FAS,IL1B	139 (14)	
LPL		enzyme		1.792	bias	5.14E-03	AP0A1,CASP3,CSF1,ICAM1,IL1B	208 (20)	
MAPK31		kinase	Activated	2.176	bias	5.14E-03	BIRC3,FAS,HSPB1,JUN,SERPINE1	146 (18)	
RGS10		other				5.14E-03	Cd8,CXCR3,FAS,IL1B,IL6ST	121 (10)	
DETA-NONOate		chemical reagent		0.365		5.14E-03	BIRC3,FAS,ICAM1,PRKG1,SERPINE1	202 (23)	
ARRB2		other		-1.987		5.16E-03	Cd2,IL1B,NFKBIZ,SERPINE1	182 (18)	
MAR2		kinase		1.000	bias	5.16E-03	BATF,CD44,NFKBIZ,Vnn3		
green tea polyphenol		chemical drug		-1.067	bias	5.16E-03	CASP3,ICAM1,IL1B,JUN	139 (15)	
barboxolone		chemical drug		1.067	bias	5.16E-03	CEBPA,FTH1,NFKBIA,NQO1		
PD173074		chemical reagent	Activated	2.449	bias	5.27E-03	CCR7,CEBPA,DEPP1,GATA3,KRT23,PRRS		
lactic acid		chemical toxicant	Activated	2.919	bias	5.35E-03	CASP3,Cd2,FOSL1,GADD45B,GAP43,IL1B,JUN,SDC1,SLC39A4	169 (18)	
IL1RN		cytokine	Inhibited	-2.179		5.52E-03	CD44,HBPD,ICAM1,IL1B,KLF9,OASL,RIPK2,SERPINE1	175 (19)	
MOG		other				5.56E-03	Cd2,CD40,CD44,CD86,ICAM1	156 (16)	
mr-34a-5p (and other mRNA		mature microRNA	Inhibited	-2.215	bias	5.56E-03	ICAM1,JAG1,KLF4,MCM3,NOTCH2		
BNIP3L		other		0.000	bias	5.56E-03	BLNK,Cd2,CNA2,NFKBIA,PTK2B	110 (11)	
bucouline		chemical - endogenous non-ma	Activated	2.191	bias	5.56E-03	GADD45B,HK2,JUN,KLF4,SLC2A3	162 (12)	
PRKCE		kinase		1.633	bias	5.61E-03	AMIGO2,BIRC3,CSF3,IL1B,IL6ST,JUN	164 (17)	
CCL5		cytokine	Activated	2.416	bias	5.61E-03	ALCAM,Cd2,CD40,CD44,HMGA1,IL1B	166 (18)	
1-methyl-4-phenyl-1,2,3,6-tetra		chemical toxicant	Activated	2.180	bias	5.61E-03	CASP3,Cd2,HSPB1,IL1B,JUN,SOD2	171 (15)	
rottem		chemical toxicant	Inhibited	-2.415	bias	5.61E-03	AP0BEC3B,BIRC3,Cd2,CD44,ICAM1,JUN	195 (18)	
Ctbp		group				5.73E-03	GATA3,JUP,PERP		
IFNW1		cytokine				5.73E-03	CD40,CD83,CD86		
GLIS2		transcription regulator				5.73E-03	Cd2,LTBP2,SERPINE1		
S100B		other				5.73E-03	Cd2,IL1B,JUN	177 (19)	
TAF1		transcription regulator				5.73E-03	BCL2A1,CNA2,RUNX2	135 (7)	
PLA2G4A		enzyme				5.73E-03	Cd2,ICAM1,IL1B	154 (16)	
CXCL3		cytokine				5.73E-03	Cd2,ICAM1,IL1B	199 (19)	
EGLN3		enzyme				5.73E-03	Cd2,Hamp/Hamp2,IL1B	149 (7)	
ACTN4		transcription regulator				5.73E-03	IL1B,PDLM1,SERPINE1	115 (9)	
propionic acid		chemical - endogenous mamma				5.73E-03	CCR7,ICAM1,IL1B		
lesinapr		biologic drug				5.73E-03	Cd2,IL1B,JUN	165 (14)	
ZC3H12A	1,270	enzyme		0.105	bias	5.74E-03	Cd2,CEBPA,CEBPD,IL1B	171 (15)	
SU6656		chemical toxicant				5.74E-03	Cd2,CSF1,IL1RL1,KRT8	166 (15)	
nicotinic acid		chemical - endogenous mamma		-1.192		5.74E-03	ANG2,APOA1,CD86,IL1B	156 (15)	
sodium orthovanadate		chemical reagent		1.000	bias	5.74E-03	CNA2,CEBPA,NFKBIA,SERPINE1	201 (22)	

CCAR1		transcription regulator				6.08E-03	CEBPA,CEBPD	
CCN6		growth factor				6.08E-03	BMP4,ICAM1	
Cd3		complex				6.08E-03	CD40,CD86	100 (7)
PXN		other				6.08E-03	KLK3,VCL	136 (7)
CSRP3		other				6.08E-03	DMD,KRT8	
SDC4	0,444	other				6.08E-03	IL1B,KLF4	104 (7)
W-54011		chemical reagent				6.08E-03	CD86,IL1B	
PTPRR		phosphatase				6.08E-03	FOSL1,JUN	
PIPSK1B		kinase				6.08E-03	IL1B,PIPSK1C	
FGF18		growth factor				6.08E-03	CSF1,RUNX2	
STX2		transporter				6.08E-03	BMP2,BMP4	130 (7)
ABCB7		transporter				6.08E-03	FTH1,FTL	36 (3)
SERPIND1		other				6.08E-03	Cd2,IL1B	108 (7)
ferric nitrotriacetate		chemical toxicant				6.08E-03	ID3,KLF4	
FC-09		chemical reagent				6.08E-03	CD40,CD86	
calcium chloride		chemical drug				6.08E-03	ENPP1,ID3	106 (7)
ferric chloride		chemical toxicant				6.08E-03	FTH1,FTL	
phenylamil		chemical reagent				6.08E-03	ID1,RUNX2	
zifenopril		chemical drug				6.08E-03	Gd2,CSF1	
NEAT1		transcription regulator				6.26E-03	B3GAT1,CD40,FAS,ICAM1,IL1B,NQO1,PLS3	187 (21)
Ipxoxin A4		chemical - endogenous mamma	-1,982	bias		6.35E-03	Cd2,ICAM1,IL1B,SERPINE1	198 (21)
3-methyladenine		chemical toxicant	0,334			6.35E-03	CD40,CD86,IL1B,RUNX2	187 (21)
asoprenil		chemical drug	-1,000	bias		6.35E-03	CASP3,LAMB3,SPN,XDH	
amodafone		chemical drug				6.35E-03	HPN,ICAM1,SLC2A3,SOD2	
NCOR2		transcription regulator				6.47E-03	BIRC3,CEBPA,IL1B,JUN,RELB	180 (17)
SERPINE1		other	-0,600			6.47E-03	BCL2A1,CEBPA,CYBA,NFKBIA,SOD2	208 (20)
luteolin		chemical drug	0,492	bias		6.47E-03	CASP3,FAS,ICAM1,JUN,SOD2	184 (19)
EGR2		transcription regulator	1,823	bias		6.54E-03	CAMK4,GATA3,ID3,IL1B,IL17R,JUN,LAQ3,LAMA2,ZBTB16	155 (13)
potassium chloride		chemical drug	1,087	bias		6.58E-03	AMIGO2,CASP3,Cd2,ID3,IL1B,JUN	183 (19)
THRA		ligand-dependent nuclear recept	0,577			6.61E-03	APOA1,BMP4,CAMK4,Cd2,CD44,CEBPA,JUN,SERPINE1	184 (25)
Pde4		group				6.70E-03	CD14,CD40,ICAM1	129 (12)
CKKS1		kinase				6.70E-03	CD14,IL1B,SERPINE1	180 (14)
TNFRSF11B		transmembrane receptor				6.70E-03	BMP2,Cd2,RUNX2	118 (9)
Ibutilinb		chemical drug				6.70E-03	CD4,CD86,FAS	136 (16)
NT5E		phosphatase				6.70E-03	Cd2,IL1B,SERPINE1	175 (21)
POCD4		other				6.70E-03	CASP3,IL1B,JUN	199 (18)
RARRS2		transmembrane receptor				6.70E-03	Cd2,CdNA2,IL1B	61 (4)
PS-1145		chemical - kinase inhibitor				6.70E-03	ICAM1,NFKBIA,TNFAIP3	109 (12)
thioridazine		chemical drug				6.70E-03	DEPP1,HPN,SLC2A3	
vitamin K2		chemical drug				6.70E-03	CD14,CSF1,SERPINE1	
magnesium		chemical - endogenous mamma				6.70E-03	BMP4,PTIP42,RUNX2	
CXCL8		cytokine	1,671	bias		6.73E-03	CD44,FAS,ICAM1,IL1B,KLK3,NFKBIA	174 (17)
TGFA		growth factor	1,371	bias		6.73E-03	BIRC3,Cd2,GSTP1,ICAM1,LAMC2,SERPINE1	239 (21)
apigenin		chemical - endogenous non-mar	-1,513	bias		6.73E-03	CASP3,Cd2,ICAM1,IL1B,KLK3,SOD2	146 (16)
SUZ12		enzyme	1,000			6.90E-03	IRAK3,KLF4,LAMB3,LAMC2,LITAF,MGAT4B,Nes,PLCB4	79 (5)
L-glutamic acid		chemical - endogenous mamma	2,571	bias		6.93E-03	CASP3,Cd2,GADD45B,IL1B,JUN,MSLL,RUNX2	202 (20)
Mapk		group	2,000			6.93E-03	AP0A1,CD44,IL1B,IRAK3,TGFB7,JUN,RUNX2	221 (27)
MAP-13p (and other miRNAs w		mature microRNA	-3,123	bias		6.94E-03	CSRP1,LASP1,LRP1,MOV10,NOTCH2,OAT,PREX1,SDCA,SH2D4A,UNC93B1	
MAP2K4		kinase	1,996			6.96E-03	BIRC3,CD44,CD86,FAS,JUN	194 (18)
PTK2		kinase	-0,371	bias		6.98E-03	BIRC3,Cd2,KRT18,PTK2B,SERPINE1	136 (7)
CC111		cytokine	2,190	bias		6.98E-03	BMP6,CXCL12,FAS,ICAM1,IL1B	121 (14)
thiodic acid		chemical drug				6.98E-03	Cd2,ICAM1,JUN,NQO1,SOD2	139 (16)
3M-001		chemical drug	1,987	bias		7.01E-03	CD40,CD83,CD86,IL1B	100 (7)
HSF2		transcription regulator				7.01E-03	Hspa1b,HSPB1,IL1B,JUN	
IL27RA		transmembrane receptor	-1,414	bias		7.01E-03	CD44,CD86,FAS,IL1B	166 (17)
pentoxifylline		chemical drug	-1,091	bias		7.01E-03	Cd2,ICAM1,IL1B,NFKBIA	147 (16)
NR12		ligand-dependent nuclear recept	-0,218			7.07E-03	ALAS1,ANG,CEBPA,CYP3A7,GSTP1,Hamp/Hamp2,HMGCS2,JUN,PGD	83 (8)
FFAR3		G-protein coupled receptor	1,039			7.14E-03	BCL11A,CCR7,GBP6,ICAM1,IL1B,RCN1	
apronoladone		chemical drug	-2,418	bias		7.14E-03	BMP4,CASP3,Cd2,CCR7,ICAM1,IL1B	151 (16)
SLC2		transporter	-0,562	bias		7.28E-03	CASP3,FAS,GAP43,GZMA,ICAM1,IL1B,NFKBIA	178 (18)
MR-155-5p (miRNAs w/seel U		mature microRNA	-2,945	bias		7.35E-03	AMIGO2,Cd2,IL1B,PLXND1,POLE4,RAB27B,SERPINE1,SLC30A1,TRIP13	146 (12)
dalfampridine		chemical drug	2,191	bias		7.48E-03	GADD45B,HK2,JUN,KLF4,SLC2A3	176 (12)
pravastatin		chemical drug				7.48E-03	CD40,ICAM1,IL1B,RHO,SDC4	150 (15)
metformin		chemical drug	-0,900	bias		7.64E-03	BMP2,CASP3,FTTH,GADD45B,NFKBIA,PARP14,RUNX2,SERPINE1,SOD2	176 (15)
uronil nitrate		chemical toxicant	1,912			7.64E-03	Cd2Aa,Cd2c2 (includes others),CSRP1,ESD,FBP1,FTL,RACK1	
TGFB2		growth factor	-0,116	bias		7.64E-03	BMP4,CD40,CD86,DOCK4,FAS,JAG1,SERPINE1	209 (19)
CP-55940		chemical reagent				7.70E-03	CSF1,JUN,NFKBIA,TNFAIP3	86 (7)
DL4		other	0,000			7.70E-03	GATA3,MCMB,REL,B,1c7	
TWIST2		transcription regulator	1,000	bias		7.70E-03	BCL11A,CD44,IL1B,KLF8	
SUMO3		other	1,087			7.70E-03	CAV2,CXCL16,HMGA1,RNASE4	
tempol		chemical drug	-1,000	bias		7.70E-03	BMP4,ICAM1,SERPINE1,SOD2	171 (18)
temozolomide		chemical drug	-0,283			7.70E-03	CASP3,FAS,NFKBIA,SOD2	195 (20)
11,12-epoxyoctadecatrienoic acid		chemical - endogenous mamma				7.76E-03	CD44,ICAM1,NFKBIA	100 (9)
SRNA40		chemical reagent				7.76E-03	CD83,CD86,IL1B	144 (16)
WLS		other				7.76E-03	BMP4,Cd2,IL36G	
MSR1		transmembrane receptor				7.76E-03	ACOD1,CD40,IL1B	138 (15)
GDF15	0,675	growth factor				7.76E-03	GDF15,RND3,SERPINE1	153 (9)
TFAM		transcription regulator				7.76E-03	FABP5,IKK1,IL1B	
HOXD3		transcription regulator				7.76E-03	JUP,SDC1,SERPINE1	
CND3		kinase				7.76E-03	CEBPA,KLK3,MCMB	114 (7)
IL11RA		transmembrane receptor				7.76E-03	Cd2,Cd8,OLCA1	
THZ1		chemical - kinase inhibitor				7.76E-03	BIRC3,CD2,QSOX1	
suifasalsazine		chemical drug				7.76E-03	ICAM1,IL1B,NFKBIA	193 (21)
2,4-dinitrofluorobenzene		chemical toxicant				7.76E-03	Cd2,ICAM1,IL1B	117 (7)
CD28	5,675	transmembrane receptor	2,339	bias		7.76E-03	BCL2A1,CASP3,CD28,CD86,CXCR3,GATA3,GZMA,HK2,HOMER2,IL1B	166 (18)
3,4,5,3',4'-pentachlorobiphenyl		chemical toxicant	1,461	bias		8.01E-03	BMP4,CD44,CYP3A7,GSTP1,JUN,NQO1	122 (10)
plicamycin		chemical drug	0,114	bias		8.02E-03	Cd2,ID1,Marcas,SERPINE1,SERPINE2,SLC11A2,WWC1	147 (7)
PTGES		enzyme				8.03E-03	Cd2,CXCL14,CYBA,IL1B,SERPINE1	137 (7)
chloroquine		chemical drug	-1,498			8.03E-03	CD40,CD83,CD86,IL1B,RUNX2	190 (20)
CLOCK		transcription regulator	-0,239			8.12E-03	AHNK2,CD86,CEBPA,DTX4,GADD45B,HMGCS2,Hspa1b,ICAM1,ID1,MAPK4	
EZF1		transcription regulator	1,269	bias		8.16E-03	BMP4,CASP3,CDNA2,CD44,CD9,CEBPA,FAS,HMGA1,Hspa1b,ICAM1	221 (21)
NR1H4		ligand-dependent nuclear recept	0,233			8.23E-03	AP0A1,Cd2,CEBPA,FABP5,FAS,GSTA3,IL1B,KLF4,SDC1	198 (16)
nicotinic acetylcholine receptor		complex				8.40E-03	ID1,JUN	137 (7)
triamcinolone hexacetinide		chemical drug				8.40E-03	ICAM1,IL1B	
ANKRD42		transcription regulator				8.40E-03	CSF3,IL1B	
SFRP5		transmembrane receptor				8.40E-03	Cd2,IL1B	96 (7)
valine		chemical - endogenous mamma				8.40E-03	CD83,SOD2	
Iguratmod		chemical drug				8.40E-03	Cd2,CSF3	144 (14)
Sk		group				8.40E-03	ICAM1,IL1B	196 (24)
HNRPNR		other				8.40E-03	Calb1,Nes	
TSC2D1		transcription regulator				8.40E-03	IL1B,SERPINE1	103 (10)
C6		other				8.40E-03	Cd2,IL1B	
CHGA		other				8.40E-03	IL1B,SERPINE2	146 (7)
ERBIN		other				8.40E-03	Ng1,SERPINE1	
KLK81		peptidase				8.40E-03	ICAM1,KLF4	
TSPO		transmembrane receptor				8.40E-03	ICAM1,SOD2	
teasaponin		chemical - endogenous non-mar				8.40E-03	IL1B,NFKBIA	
WNT10B		other				8.40E-03	CEBPA,RUNX2	130 (7)
PILRA		other				8.40E-03	Cd2,IL1B	82 (7)
nicozanil		chemical drug				8.40E-03	CASP3,JUN	111 (7)
thienoylfluoroacetone		chemical reagent				8.40E-03	BIRC3,SERPINE1	
ARA-014418		chemical reagent				8.40E-03	CD44,GDF15	
6-methylsulfinylhexyl isothioyc		chemical reagent				8.40E-03	GSTP1,NQO1	45 (3)
zimalidine		chemical drug				8.40E-03	DEPP1,HPN	
75K		other				8.40E-03	Calb1,Nes	
mandipine		chemical drug				8.40E-03	IL1B,JUN	142 (9)
polyphosphate		chemical - endogenous mamma				8.40E-03	BMP2,ICAM1	
BAR501		chemical reagent				8.40E-03	Cd2,IL1B	
cyclosporin		biologic drug				8.40E-03	ICAM1,LAMA2	
MR-30c-5p (and other miRNAs		mature microRNA	-2,580	bias		8.41E-03	CPNE8,JUN,PTGFRN,PTPRK,RAB27B,RUNX2,SLC12A4	
BMPRI1A		kinase	1,981	bias		8.45E-03	Hamp/Hamp2,ID1,ID3,SERPINE1	173 (14)
TFAP4		transcription regulator	-0,762			8.45E-03	CD44,CDLM4,GDF15,ID1	
NEDD9		other	2,000	bias		8.45E-03	BMP2,GDF15,LRP1,SERPINE1	
propofol		chemical drug	-1,982	bias		8.45E-03	CASP3,CD14,IL1B,SOD2	175 (13)
IFNL1		cytokine	2,219	bias		8.47E-03	CCR7,CD40,CD83,MLKL,OASL,SP110	172 (17)
FGF19		growth factor				8.47E-03	AMY2A,BTG3,FABP5,FBP1,ID1,Saa3	
ITGB1		transmembrane receptor	1,175			8.53E-03	ADAM19,ICAM1,IL1B,TGA9,ITGB7,JUN,SERPINE1,TNFAIP3	196 (21)
PKD1		ion channel	-1,408			8.54E-03	CAVIN1,Cd2,QLDM10,CXCL16,IL1B,IL1,KLK3,MCJ6,Ng1,RUNX2,YAP1	93 (7)
Sma2/3		group				8.60E-03	AP0A1,GATA3,ID1,RUNX2,SERPINE1	
milomycin C		chemical drug	2,207	bias		8.60E-03	CASP3,FAS,ITPIRPL2,JUN,NQO1	188 (18)
MEI2		transcription regulator				8.91E-03	BMP4,GDF15,POLE4	
ITGAM		transmembrane receptor				8.91E-03	CD28,CD86,IL1B	156 (19)
ACKR1		G-protein coupled receptor				8.91E-03	ICAM1,IT1b,TNFAIP3	
SOC6		other				8.91E-03	CEBPD,IL1B,Vnn3	113 (10)
MSX1		transcription regulator				8.91E-03	BMP2,BMP4,RUNX2	
NLRG5		transcription regulator				8.91E-03	CD40,HLA-A,IL1B	142 (17)
2-mercaptoacetate		chemical drug				8.91E-03	CD83,ICAM1,IL1B	
alendronic acid		chemical drug				8.91E-03	ENPP1,ID1,IL1B	91 (7)
nickel		chemical toxicant				8.91E-03	CD86,ICAM1,SERPINE1	116 (10)
PKSR1		kinase	0,000	bias		8.95E-03	CD44,CXCL12,ICAM1,IL1B,SERPINE1,SOD2	171 (16)
MAF8		transcription regulator	0,217	bias		8.95E-03	AKR1B10,ALCAM,CD28,CXCL12,IL1B,OLFML2B	
homocysteine		chemical - endogenous mamma	1,370	bias		8.95E-03	AP0A1,Cd2,CXCL12,ID1,IL1B,Saa3	207 (19)
ZEB1		transcription regulator				9.20E-03	GATA3,KRT19,LAMC2,SERPINE1,XDH	
PLAUR		transmembrane receptor				9.24E-03	ANG,Cd2,FOSL1,JUN	188 (18)
ABL1		kinase	1,921	bias		9.24E-03	BMP2,CDNA2,CSF1,FAS	204 (21)
pinagidine		chemical drug				9.24E-03	CASP3,GADD45B,ICAM1,SERPINE1	86 (7)
tetraethylammonium		chemical drug	-1,982	bias		9.24E-03	EFHD2,FTH1,GSTO1,HSPB1	
prednisolone		chemical drug	-1,554	bias		9.37E-03	BIRC3,CASP3,Cd2,CD86,CEBPD,FAS,GAB1,IL1B,SOD2,TNFAIP3	145 (15)
PRDM5		transcription regulator				9.45E-03	AP0BEC3B,CYP3A7,GADD45B,NOTCH2,RUNX2,TINAGL1	
ERBB4		kinase	0,447			9.45E-03	ADAM19,CXCL12,GAP43,JUN,RASA3,SERPINE2	191 (17)

NUPR1		transcription regulator		0.688	bias	9.57E-03	AP0REC3B,BUB1,CCNA2,CD68,FCHSD2,GDF15,HK2,KLF4,KLF6,LHFPL2
PP1		chemical - kinase inhibitor		-1.583	bias	1.01E-02	CXCL16,IL1B,JUN,SERPINE1
HOTAIR		other		0.819		1.01E-02	GDF15,ICAM1,LAMB3,LAMC2
LGR4		transmembrane receptor		-1.091	bias	1.01E-02	CD14,HSD17B13,IL1B,OAT
RCE1		peptidase				1.01E-02	Cd2,CXCL12,FLT3,RCN1
SRG		kinase	Activated	2.547	bias	1.01E-02	CAVIN1,CSF3,FOSL1,ICAM1,ID1,JUN,KLK3
PARBP		other				1.02E-02	KRT8,TIAM1,TST
CaMKII		complex				1.02E-02	BIRC3,CD44,IL1B
IKK (complex)		complex				1.02E-02	BIRC3,ICAM1,IL1B
SALL4		transcription regulator				1.02E-02	CD44,CBPBA,KRT19
IgG1		complex				1.02E-02	CD14,CD40,CD86
IL2RA		transmembrane receptor				1.02E-02	CD86,GZMA,JUN
mR-218-5p (and other miRNAs)		mature microRNA				1.02E-02	CASP3,LAMB3,RUNX2
STK4		kinase				1.02E-02	FAS,IL1R,YAP1
IGFBP5		other				1.02E-02	RUNX2,SERPINE1,SFN
PLA2G6		enzyme				1.02E-02	Cd2,MRC1,RUNX2
SFTPD		other				1.02E-02	Cd2,CD14,IL1B
GADD45A		other				1.02E-02	IL1B,JUN,NEK2
CCK2		growth factor				1.02E-02	BMP4,RUNX2,SERPINE1
DYRK1A		kinase				1.02E-02	APC1A1,MCM3,SERPINE1
ELF5		transcription regulator				1.02E-02	GATA3,KLK3,KRT8
Gm21596/Hmgb1		transcription regulator				1.02E-02	CXCL12,IL1B,IL1RL1
probucoil		chemical drug				1.02E-02	BMP2,CYBA,SERPINE1
agmatine		chemical - endogenous mamma				1.02E-02	BMP2,BMP4,ICAM1
fluticasone propionate		chemical drug	0.000			1.02E-02	CD83,CD86,GADD45B,GJB2,IL1B,ITGB7,OLFM2B,SDC4,SERPINE1
WT1		transcription regulator	0.734			1.03E-02	BCL2A1,CSF1,IL1B,JUP,KLF4,LRP1,PIR,SDC1,SERPINE1,SLC2A3
MM12		peptidase				1.05E-02	CD8,IL6ST,NFKBIA,PLS3,VCL
gemfibrozil		chemical - endogenous mamma				1.05E-02	Cd2,CXCL12,FAS,FOSL1,IL1B
4-phenylbutyric acid		chemical - endogenous mamma	-0.816			1.05E-02	CASP3,Cd2,CXCL12,HLA-A,PADI2,SOD2
TO-901317		chemical reagent	-1.755	bias		1.09E-02	ALAS1,ALDH2,Cd2,FABP5,FBP1,GSTP1,HK2,HMGS2,IL1B,MGLL
Laminin (complex)		complex				1.10E-02	BIRC3,RUNX2,SDC4,SERPINE1
SLMO2		enzyme	1.067			1.10E-02	CAV2,CXCL16,HMGA1,RNASE4
AT1F1		transcription regulator				1.10E-02	FOSL1,FTH1,JUN,SOD2
SAHM1		chemical reagent	-2.000	bias		1.10E-02	CD44,HK2,ID1,RHOU
UDP		chemical - endogenous mamma				1.11E-02	Cd2,SERPINE1
L-phenylalanine		chemical - endogenous mamma				1.11E-02	FAS,SOD2
salikosaponin A		chemical reagent				1.11E-02	BMP4,JUN
ganglioside GM3		chemical - endogenous mamma				1.11E-02	CD40,ICAM1
Calcineurin B		group				1.11E-02	B3GAT1,CXCR3
Cyp4a14		enzyme				1.11E-02	Cd2,IL1B
budilast		chemical drug				1.11E-02	IL1B,NCST1
lecithogenin		chemical - endogenous non-mar				1.11E-02	ICAM1,IL1B
GPR84		G-protein coupled receptor				1.11E-02	Cd2,IL1B
GSTK1		enzyme				1.11E-02	Cd2,TMEM173
ADGRF5		G-protein coupled receptor				1.11E-02	Cd2,CSF1
LTBP4		growth factor				1.11E-02	BMP4,ID1
SMAD1/5		group				1.11E-02	ID1,ID3
IL26		cytokine				1.11E-02	ICAM1,IL1B
ABCC1		transporter				1.11E-02	CYBA,NQO1
PDLM7		other				1.11E-02	BMP2,RUNX2
CD8A	8,241	other				1.11E-02	CASP3,IL1B
SLC25A4		transporter				1.11E-02	BIRC3,SOD2
MAP3K12		kinase				1.11E-02	CASP3,JUN
CAV3		enzyme				1.11E-02	CAV2,DMD
mR-326		microRNA				1.11E-02	NOTCH2,SMO
levetiracetam		chemical drug				1.11E-02	GAP43,IL1B
SMN1/SMN2		other				1.11E-02	Cd2,DMD
LPA		other				1.11E-02	ICAM1,SERPINE1
RASSF10		other				1.11E-02	CASP3,JUN
LY86		other				1.11E-02	CD14,CD86
CXCT71		chemical reagent				1.11E-02	CD44,CXCL12
RBCK1		transcription regulator				1.11E-02	ICAM1,TNFAIP3
Pla2os2		other				1.11E-02	Cd2,Saa3
ULBP1		transmembrane receptor				1.11E-02	CD83,HLA-A
influncic acid		chemical drug				1.11E-02	CD86,FAS
NCX-4040		chemical drug				1.11E-02	GSTP1,NQO1
mechlorethamine		chemical drug				1.11E-02	CD40,IL1B
benzoic acid		chemical - endogenous mamma				1.11E-02	CD86,IL1B
SC-58125		chemical drug				1.11E-02	FAS,GDF15
acetic acid		chemical - endogenous mamma				1.11E-02	CASP3,JUN
aplidine		biologic drug				1.11E-02	FOSL1,JUN
N,N-dimethylarginine		chemical - endogenous mamma				1.11E-02	ICAM1,SERPINE1
SDCS3		phosphatase				1.11E-02	Cd2,CD40,CD86,ICAM1,IL1B,JUN
tunicamycin		chemical - endogenous non-mar	-1.687	bias		1.11E-02	CASP3,Cd2,CEBPD,GADD45B,Hamp/Hamp2,ICAM1,IL1B,KLF4,NFKBIA,Ntg1
12-(3-adamantan-1-yl-ureido) d		chemical reagent	0.000			1.12E-02	BIRC3,CASP3,CD40,FAS,RIPK2
BSCL2		other				1.12E-02	Cd2,CBPBA,HMGA1,IL1RL1,MGLL
NEUROG1		transcription regulator	-1.342			1.12E-02	AMISQ2,MEST,PPIC,PXDIN,SLC43A3
methotrexate		chemical reagent	3.360	bias		1.13E-02	BUB1,CAV2,CCNA2,FGFR1,GDF15,HK1,HK2,HOMER2,KLK3,MGLL
NkB-RelA		complex				1.15E-02	ICAM1,IL1B,NFKBIA
PDGF-DD		complex				1.15E-02	CASP3,Cd2,TNFRSF12A
MGP		other				1.15E-02	JAG1,Prss1 (includes others),RUNX2
resolvin D2		chemical - endogenous mamma				1.15E-02	Cd2,IL1B,JUN
IRN6		cytokine				1.15E-02	CD40,CD83,CD86
LTB		cytokine				1.15E-02	Cd2,Glycam1,IL1B
hydrochloric acid		chemical - endogenous mamma				1.15E-02	ICAM1,IL1B,JUN
iporabinomannan		chemical - endogenous non-mar				1.15E-02	CD14,ICAM1,IL1B
diaryl trisulfide		chemical - endogenous non-mar				1.15E-02	FAS,JUN,NQO1
lomatstat		chemical drug				1.15E-02	Cd2,F11R,IL1B
NCOR1		transcription regulator				1.16E-02	CCNA2,CBPBA,HK1,IL1B,KLK3,PDE8A
mR-10		microRNA	-1.166	bias		1.16E-02	BMP2,CD40,CD44,CD86,KLF4,SMO
phosphate		chemical - endogenous mamma	2.449	bias		1.16E-02	BMP2,ENRPP1,FOSL1,HK2,SLC3A42,STC2
LMK2		kinase	2.193	bias		1.17E-02	IL1NK,Cd2,Glycam1,ICAM1,IL1B,LYN,Saa3,SDC4
JD1		chemical reagent	-2.213	bias		1.19E-02	BIRC3,Cd2,CCNA2,MCM3,TNFAIP3
ACVR1		kinase				1.19E-02	C1R,Hamp/Hamp2,ICAM1,ID1
mR-200b-3p (and other miRNA)		mature microRNA	-1.944	bias		1.19E-02	BST1,JAG1,PERP,PTPN13
ED		transcription regulator				1.19E-02	GATA3,KLF4,RUNX2,SCN
SELP1G		other	2.000	bias		1.19E-02	BCL2A1,BST1,IL1B,LAG3
CALR		transcription regulator				1.19E-02	Cd2,CBPBA,ICAM1,VCL
GABPA		transcription regulator				1.19E-02	FAS,IL1R,NQO1,RRAS
4-hydroxynonenal		chemical toxicant	1.091	bias		1.19E-02	ICAM1,IL1B,JUN,SERPINE1
N,N,N',N'-di(4-fluorophenylacetyl)-L-		chemical - protease inhibitor	-2.100	bias		1.19E-02	CSF1,IL1B,REL,B,NR3
NCOA1		transcription regulator	1.331	bias		1.22E-02	CEBPA,CHD9,GJB2,KLK3,Muc1,NFKBIA,NFKBIZ,SERPINE1
CDX2		transcription regulator	1.032	bias		1.22E-02	CD9,JUN,KLF4,KRT23,LAMC2,Muc1,SCIN,UGT1A7 (includes others)
EFZ3		transcription regulator	0.478	bias		1.22E-02	CAV2,CCNA2,CD9,CXCR3,ID3,MCM3,PLCB4,Rae1d,Rae1e,SERPINE1
HGX49		transcription regulator	1.949	bias		1.22E-02	CD9P1,FLT3,HMGA1A,IL1R,JUN,LYN,PRKX3,SDC4,SERVINC2
FGF8		growth factor	0.747	bias		1.22E-02	BMP2,BMP3,CSF3,LAMB3,RUNX2,TRIP6
CDP2A		other	-0.600	bias		1.26E-02	HK2,LASP1,S100A16,SCIN,SERPINE2
mR-29b-3p (and other miRNAs)		mature microRNA	-2.182	bias		1.26E-02	CAV2,KLF4,PPIC,TNFAIP3,Tpm1
TBP		transcription regulator				1.26E-02	BCL2A1,HLA-A,NFKBIA,TNFAIP3,XDH
Wnt1		group				1.29E-02	CD44,CBPBA,GATA3,RUNX2
ALB		transporter	1.982	bias		1.29E-02	CASP3,Cd2,CYBA,IL1B
RAC2		enzyme				1.29E-02	Gd24a,IL1B,RUNX2,ZYX
TNC		other				1.29E-02	Cd2,CD8A,CXCL12,IL1B
OIG1		enzyme	-0.928			1.29E-02	DTMA,GAP43,HMGA1,JUN,JUP,NEK2
leukotriene B4		chemical - endogenous mamma				1.30E-02	Cd2,IL1B,JUN
dexamethasone phosphata		chemical drug				1.30E-02	ID3,IL1B,NFKBIA
deoxycorticosterone acetate		chemical drug				1.30E-02	Gald1,CD86,CYBA
Cbp		group				1.30E-02	Cd2,CSF3,IL1B
daporinad		chemical drug				1.30E-02	ID1,SERPINE1,TRIP13
GRHL2		transcription regulator				1.30E-02	BMP2,CLDN4,SEMA3B
CD81	0.944	other				1.30E-02	CD86,ICAM1,ID1
IL36G	6,681	cytokine				1.30E-02	CD83,CSF3,MRC1
Cd9a1c		other				1.30E-02	CCNA2,MAL,MCM3
AZGP1		transporter				1.30E-02	BMP4,HK2,KRT19
carvedilol		chemical drug				1.30E-02	CYBA,GAP43,IL1B
N2+		chemical reagent				1.30E-02	BIRC3,CSF1,ICAM1
RUNX2		transcription regulator	1.726	bias		1.31E-02	BMP2,CBPBA,CEBPD,GADD45B,GALNT3,RUNX2,SERPINE1
TEAD1	2,637	transcription regulator	2.236	bias		1.34E-02	ARID9,F3T1,LATS2,NFKBIZ,TRNP1
F3		transmembrane receptor	1.951	bias		1.34E-02	Cd2,DOCK4,ICAM1,IL1B,SERPINE1
uric acid		chemical - endogenous mamma	1.178			1.35E-02	Cd2,CD86,CSF3,ICAM1,IL1B,RELB
sodium bisulfide		chemical reagent	0.152			1.39E-02	CASP3,FAS,ICAM1,SOD2
ZMPSTE24		peptidase	1.264	bias		1.39E-02	Cd8,CXCL14,GADD45B,ICAM1
PPP2CA		phosphatase	2.000	bias		1.39E-02	Cd2,GZMA,Saa3,UPT1
PRKACA		kinase	1.951	bias		1.39E-02	ALAS1,ANTXR1,ANTXR2,SDC1
dimethylnitrosamine		chemical toxicant				1.39E-02	ICAM1,IL1B,NQO1,SOD2
R631-8220		chemical - kinase inhibitor	-1.987	bias		1.39E-02	ICAM1,IL1B,KLK3,SERPINE1
K1		chemical - endogenous mamma	-1.264	bias		1.39E-02	CASP3,IL1B,JUN,SLC12A4
ganglioside		chemical - endogenous mamma				1.40E-02	Cd2,ICAM1
16,16-dimethylprostaglandin E2		chemical - endogenous mamma				1.40E-02	CD44,IL1B
TEAD		group				1.40E-02	CAV2,CD44
ganglioside GD3		chemical - endogenous mamma				1.40E-02	CD40,ICAM1
desoxycorticosterone		chemical - endogenous mamma				1.40E-02	CYBA,SERPINE1
SLC11A1		transporter				1.40E-02	Hamp/Hamp2,SLC11A2
(-)-epicatechin gallate		chemical - endogenous non-mar				1.40E-02	GDF15,RUNX2
APC/AP2		group				1.40E-02	JAG1,JUP
5'-di(2-hydroxy-2'-guanosine		chemical reagent				1.40E-02	CD86,IL1B
bacterial lipopolysaccharides		chemical - other				1.40E-02	IL1B,Saa3
OLF4M		other				1.40E-02	Cd2,IL1B
FBXO42		other				1.40E-02	CSF1,ICAM1
FAT1		other				1.40E-02	IL1B,JUN

PHF8		enzyme				1.40E-02	ID1,IRAK3
MEMO1		other				1.40E-02	JUN,STC2
STK17A		kinase				1.40E-02	GSTO1,SOD2
nicotiflorin		chemical reagent				1.40E-02	ICAM1,IL1B
UNC5B		transmembrane receptor				1.40E-02	Cd2,YAP1
SERPINB2		other				1.40E-02	CNA2,CD14
THBD		transmembrane receptor				1.40E-02	Cd2,IL1B
TRG		other				1.40E-02	CAV2,IL1B
DLX1		transcription regulator				1.40E-02	ARX,SERPINE1
CTSZ	0,893	peptidase				1.40E-02	CD83,CD86
PTGDR		G-protein coupled receptor				1.40E-02	Cd2,IL1B
HAS2		enzyme				1.40E-02	Cd2,CD44
CDKN2B		transcription regulator				1.40E-02	CD86,SERPINE1
IKK4		transcription regulator				1.40E-02	Cd2,NFKBIA
FKBP5		enzyme				1.40E-02	ICAM1,KLK3
USP37		peptidase				1.40E-02	CEBPA,ZBTB16
ST6GAL1		enzyme				1.40E-02	BIRC3,SLC2A3
COCH		other				1.40E-02	Cd2,IL1B
IL22RA1		transmembrane receptor				1.40E-02	Hamp/Hamp2,SOD2
cyclic guanosine monophosphate		chemical - endogenous non-mar				1.40E-02	CD86,IL1B
asbestos		chemical toxicant				1.40E-02	FOSL1,JUN
6-aminonicotinamide		chemical reagent				1.40E-02	Cd2,Saa3
sulindac sulfone		chemical - endogenous mammal				1.40E-02	NOO1,PRKG1
bupivacaine		chemical drug				1.40E-02	FOSL1,HPGDGS
ketorolac		chemical drug				1.40E-02	Cd2,NFKBIA
SR1078		chemical reagent				1.40E-02	Cd2,PADI2
mR-182 inhibitor		chemical reagent				1.40E-02	CASP3,NFKBIA
2,4-dinitrobenzenesulfonic acid		chemical reagent				1.40E-02	CD86,ICAM1
YBX1		transcription regulator	1,982	bias		Cd2, ID1, IRF5, KLF4, SLC2A3, STC2	
ITGB3		transmembrane receptor	0,200	bias		CD40, CSF1, IL1B, RUNX2, SERPINE1	
CHD7		enzyme				JAG1, PERP, POLE4	
Smad		complex				ID1, ID3, SERPINE1	
BCL2L11		other				CASP3, Cd2, IL1B	
miR-124		microRNA				CASP3, Cd2, RUNX2	
BTG2		transcription regulator				IL1B, NQO1, SOD2	
BAG1		other				Hspa1b, JUN, KLK3	
hemocyanin		biologic drug				CD14, CD83, CD86	
amitriptyline		chemical drug				DEP1, HPN, SLC2A3	
piceatannol		chemical - endogenous non-mar				FAS, ICAM1, IL1B	
kaempferol		chemical toxicant				ICAM1, JUN, RUNX2	
roscovitine		chemical drug	-1,954	bias		CD44, CEBPA, Rael1d/Rael1a, RALA	
EGRO		transcription regulator	1,980			ESD, ID3, JUN, PLYND1	
TEAD3		transcription regulator	2,000	bias		ARID5B, FJX1, NFKBIZ, TRNP1	
ABCA1		transporter	-1,009			APOA1, Cd2, CSF3, IL1B	
N-acetylsphingosine		chemical reagent	1,969	bias		Cd2, JUN, SERPINE1, SOD2	
dopiboprel		chemical drug	-1,342			ATOH8, BMP4, CXCL12, DHRS3, STC2	
thyroid hormone		chemical - endogenous mammal	-1,342			CAMK4, CNA2, CD2, ID1, OAT, PGD, RTN1, SERPINE2, TCEA3	
DMD	1,365	other				BLNK, DMD, FTH1, Marks, PAD2, PTGFRN, SCIN, SERPINB1, SYNC, WWC1	
PC-SPE5		chemical drug				1.56E-02 CNA2, CD9, FTL, ID1, IL1B, KLK3	
LCK	1,108	kinase				1.59E-02 CNA2, CD2, GADD45B, JUN, NOTCH2	
ID1	1,349	transcription regulator	1,360	bias		DTX4, GATA3, ICAM1, IF16, RUNX2	
sulindac sulfide		chemical drug	1,460			1.59E-02 ESD, GDF15, KRT1B, NQO1, STC2	
ADRA1D		G-protein coupled receptor				1.61E-02 CEBPD, FABP5, IL6ST, JUN	
herbimycin		chemical - kinase inhibitor	-1,118	bias		ICAM1, IL1B, SERPINE1, SOD2	
SB202190		chemical - kinase inhibitor	-1,980	bias		1.61E-02 Cd2, CD86, ICAM1, IL1B, MAPK6, SERPINE1, XDH	
Tnfr5cor1		other				1.61E-02 Cd2, IL1B, PERP	
CXCL10		cytokine				1.61E-02 Cd2, CXCR3, IL1B	
LTBP1		other				1.61E-02 BMF, GATA3, SERPINE1	
FGF9		growth factor				1.61E-02 BMP4, CSF3, RUNX2	
HMG2		transcription regulator				1.61E-02 CSF3, IL1B, RUNX2	
K-252		chemical - kinase inhibitor				1.61E-02 CD14, JUN, SOD2	
geranylgeranyl pyrophosphate		chemical - endogenous mammal				1.61E-02 BMP2, ICAM1, IL1B	
linoleic acid		chemical - endogenous mammal				1.61E-02 ICAM1, NFKBIA, SERPINE1	
CEBPD	0,429	transcription regulator	0,447	bias		1.63E-02 BCL2A1, Cd2, CD14, CEBPD, IL1B, Saa3	
linoleic acid		chemical - endogenous mammal	0,468	bias		1.68E-02 APOA1, Cd2, ICAM1, IL1B, NFKBIA	
ATM		kinase				1.68E-02 FAS, GADD45B, JUN, SERPINE1, TNFAIP3	
ETS2		transcription regulator	Activated	2,236	bias	1.68E-02 BMP4, CSF3, ICAM1, JUN, PLA2G16	
1L-6-hydroxymethyl-chiro-inositol		chemical - kinase inhibitor				1.73E-02 CXCL16, GDF15	
THOCS		other				1.73E-02 APOA1, CEBPA	
DPY30		other				1.73E-02 ID1, ID3	
ADCY7		enzyme				1.73E-02 IL1RL1, IRAK2	
FOXN1		transcription regulator				1.73E-02 GZMA, SERPINB1	
SEMA4D		transmembrane receptor				1.73E-02 CD40, RAS	
ITGA4		transmembrane receptor				1.73E-02 IL1B, TNFAIP3	
AMEP		transporter				1.73E-02 Cd2, IL1B	
SPRY4-IT1		other				1.73E-02 F11R, ZNF703	
FRMD6		other				1.73E-02 BMP2, RASSF4	
HLA-G		other				1.73E-02 CD8A, FAS	
LUM		other				1.73E-02 FAS, IL1B	
LY9	2,405	other				1.73E-02 CD81, ZBTB16	
lykx1-117		other				1.73E-02 JUN, RELB	
Sry		transcription regulator				1.73E-02 IL1B, SOD2	
NFKBIE		transcription regulator				1.73E-02 CSF3, ICAM1	
PA2G4		transcription regulator				1.73E-02 GDF15, KLK3	
HBB		transporter				1.73E-02 ICAM1, SERPINE1	
COP1		enzyme				1.73E-02 FAS, ICAM1	
S100P		other				1.73E-02 KRT19, KRT8	
CYBA	1,652	enzyme				1.73E-02 SERPINE1, SOD2	
zileuton		chemical drug				1.73E-02 Cd2, ICAM1	
astressin 2B		biologic drug				1.73E-02 Cd2, SLC2A3	
polymyxin B		biologic drug				1.73E-02 APOBEC3B, IL1B	
S-equol		chemical drug				1.73E-02 CD86, SERPINE1	
formononetin		chemical - endogenous non-mar				1.73E-02 BMP2, CD86	
lysophosphatidylinositol		chemical - endogenous mammal	Activated	2,000	bias	1.73E-02 CSF3, ICAM1, IL1B, SOD2	
JAK3		kinase				1.73E-02 CSF3, GATA3, IL7R, LAG3	
EPF2		transcription regulator				1.78E-02 CNA2, ID1, MC3J, Rael1d/Rael1a, SERPINE1	
PSEN1		peptidase	-0,762			1.78E-02 AMY2A, BASP1, C1R, CASP3, CD9, CTSZ, GADD45B, GSTP1, HK1, IL1B	
glutamine		chemical - endogenous mammal	Inhibited	2,000	bias	1.79E-02 FABP5, HK1, ICAM1, JUN, KLF4, NFKBIA	
tetradotoxin		chemical drug				1.79E-02 AMIGO2, FAS, ID1	
PRKDC		kinase				1.79E-02 BIRC3, KLK3, PREX1	
CTSS		peptidase				1.79E-02 CASP3, FAS, IL1B	
miR-23		microRNA				1.79E-02 PTK2B, RUNX2, SOD2	
ICOSLG, LOC102723996		other				1.95E-02 Cd8, CXCL14, DHRS3, GSTP1, IL1B, ZNF703	
PTPN22		phosphatase				1.79E-02 IL1B, LAG3, MRC1	
ESRRB		ligand-dependent nuclear receptor				1.79E-02 HK2, Hspa1b, POLE4	
ozone		chemical toxicant				1.79E-02 Cd2, IL1B, JUN	
PML		transcription regulator	-1,066			1.81E-02 APOA1, FAS, FTL, HSPB1, IL1B, JUP, NQO1, TNFAIP3	
isoproterenol		chemical drug	1,860	bias		1.81E-02 ALDH3B1, CSF3, DHRS3, FOSL1, IL1B, JUN, PRKD3, SOD2	
GFGR2		kinase				1.81E-02 BMP4, FAS, ICAM1, IL1B, MEST, RUNX2, TSPAN8	
EPAS1		transcription regulator	Activated	2,404	bias	1.84E-02 BIRC3, CEBPA, GADD45B, SERPINE1, SLC11A2, SLC2A3, SOD2, STC2, TNFAIP3, YAP1	
SCARB1		transporter	-1,387			1.85E-02 APOA1, CD86, ICAM1, IL1B	
ITGA5		transmembrane receptor				1.85E-02 CD40, CD44, IL1B, JUN	
RETN		other	1,067	bias		1.85E-02 APOA1, FABP5, ICAM1, SERPINE1	
TEAD2		transcription regulator	Activated	2,000	bias	1.85E-02 ARID5B, FJX1, NFKBIZ, TRNP1	
ATF4		transcription regulator				1.93E-02 GDF15, JAG1, JUN, KLF4, SOD2, STC2, TNFRSF12A, XDH	
STAT4		transcription regulator	Activated	2,800	bias	1.94E-02 GATA3, Hspa1b, LRP1, Me4a4b (includes others), RCN3, SERPINB1, SERPINE1, SLC2A3, STC2, Tgf	
N-cor		group				1.95E-02 Cd8, CXCL14, DHRS3, GSTP1, IL1B, ZNF703	
Mr122a.b		group				1.97E-02 Cd2, CD86, IL1B	
CDH11		other				1.97E-02 CD9, JUP, PTK2B	
USP7		peptidase				1.97E-02 BMF, KLK3, PDE9A	
PLA2R1		transmembrane receptor				1.97E-02 ALDH2, BDH2, SOD2	
FABP4		transporter				1.97E-02 Cd2, FABP5, IL1B	
CD47		transmembrane receptor				1.97E-02 CSF1, FTL, IL1B	
imipramine		chemical drug				1.97E-02 DEP1, HPN, SLC2A3	
BTNL2		transmembrane receptor	1,342	bias		1.97E-02 GJB2, Hspa1b, IL1RL1, SPECC1, XDH	
triadimefon		chemical toxicant	1,000	bias		1.98E-02 ALAS1, CYP3A7, GSTA3, TST	
fish oils		chemical drug				1.98E-02 APOA1, Cd2, CEBPA, IL1B	
SQSTM1		transcription regulator				1.98E-02 IL1B, JUN, NFKBIA, NQO1	
CUL3		enzyme	-0,849			1.98E-02 NOO1, PLS3, Prs1 (includes others), TCEA3	
ADRA1A		G-protein coupled receptor				1.98E-02 CEBPD, FABP5, IL6ST, JUN	
FOXO3		transcription regulator	1,597			2.04E-02 ANKA3, BMP2, FABP5, GADD45B, HMGCS2, ICAM1, JAG1, LCP2, NFKBIA, NTN4	
9-hydroxy-(S)-10,12-octadecadienoic acid		chemical - endogenous mammal				2.07E-02 SERPINE1	
acetylacetyl-coenzyme A		chemical - endogenous mammal				2.07E-02 IL1B	
endocannabinoid		chemical - endogenous mammal				2.07E-02 APOA1	
GPSM3		other				2.07E-02 IL1B	
COMMD5		other				2.07E-02 NOTCH2	
resubstrate		biologic drug				2.07E-02 Cd2	
BDNF-AS		other				2.07E-02 CASP3	
BMP2/4		group				2.07E-02 Hamp/Hamp2	
patched		group				2.07E-02 SMO	
IRAK14		group				2.07E-02 IL1B	
glutethimide		chemical drug				2.07E-02 ALAS1	
G-Actin		group				2.07E-02 JUN	
acridine half-mustard		chemical toxicant				2.07E-02 ANTXR2	
WSX1-sp130		complex				2.07E-02 GATA3	
bovine testicular hyaluronidase		biologic drug				2.07E-02 CD44	
PMM2		enzyme				2.07E-02 ICAM1	
NLRP2		other				2.07E-02 ICAM1	
IIIbbs		other				2.07E-02 IL1B	
PEL13		enzyme				2.07E-02 IL1B	

WFDC1		other				2,07E-02	ICAM1	
CMPK2		kinase				2,07E-02	IL1B	
PP1PK51		phosphatase				2,07E-02	RUNX2	
SV2B		transporter				2,07E-02	SYT1	
SNORD21		other				2,07E-02	HLA-A	
IDO2		enzyme				2,07E-02	CD40	
FNDC3B		other				2,07E-02	RUNX2	
CLPX		enzyme				2,07E-02	ALAS1	
DAGLA		enzyme				2,07E-02	IL1B	
UBN1		transcription regulator				2,07E-02	CCNA2	
canakinumab		biologic drug				2,07E-02	IL1B	
DEPDC1		transcription regulator				2,07E-02	TNFAIP3	
SQMS2		enzyme				2,07E-02	APOA1	
MYADM		other				2,07E-02	ICAM1	
MACROD1		enzyme				2,07E-02	NFKBIA	
CCDC22		other				2,07E-02	BIRC3	
MLLT11		other				2,07E-02	CD44	
COMMD9		other				2,07E-02	NOTCH2	
KIF26B		other				2,07E-02	NGO1	
CLIC1		ion channel				2,07E-02	IL1B	
TCFL5		transcription regulator				2,07E-02	CD2	
PHF10		other				2,07E-02	CASP3	
DSC2		other				2,07E-02	CD44	
THUM123	0,505	other				2,07E-02	CD40	
DPP3		peptidase				2,07E-02	NGO1	
FANK1		transcription regulator				2,07E-02	JUN	
Testosterone-AR dimer		complex				2,07E-02	KLK3	
CEL SR3		G-protein coupled receptor				2,07E-02	Nrg1	
galipanten		biologic drug				2,07E-02	CASP3	
landutinib		chemical drug				2,07E-02	ID1	
FAS-AS1		other				2,07E-02	FAS	
Ox-4503		chemical drug				2,07E-02	CXCL12	
black cohosh extract		chemical drug				2,07E-02	SERPINE1	
GTPase		group				2,07E-02	BMP2	
EIF3i		translation regulator				2,07E-02	SERPINE1	
ACBD3		other				2,07E-02	SLC11A2	
PRCC		other				2,07E-02	SERPINE1	
cabazitaxel		chemical drug				2,07E-02	KLK3	
DYNLRB1		other				2,07E-02	SERPINE1	
NFE2L3		transcription regulator				2,07E-02	NGO1	
FGF8		growth factor				2,07E-02	CSF3	
COL6A3		other				2,07E-02	WWC1	
RAB27A		enzyme				2,07E-02	CD44	
MED7		transcription regulator				2,07E-02	TNFAIP3	
LINC00872		other				2,07E-02	LASP1	
SLC22A1		transporter				2,07E-02	ICAM1	
miR-615-5p (and other miRNAs)		mature microRNA				2,07E-02	KRT19	
miR-690 (miRNAs wiswed AAG)		mature microRNA				2,07E-02	CEBPA	
Mr690		microRNA				2,07E-02	CEBPA	
mi-1301		microRNA				2,07E-02	KLF6	
mi-613		microRNA				2,07E-02	RTKN	
AQUAPORIN		group				2,07E-02	IL1B	
CAMK2		group				2,07E-02	BIRC3	
EPSTI1		other				2,07E-02	NFKBIA	
Rae1d/Rae1e	3,853	other				2,07E-02	HLA-A	
RNF14		transcription regulator				2,07E-02	KLK3	
PLXNB1		transmembrane receptor				2,07E-02	KLK3	
COL4A2		other				2,07E-02	FAS	
AXIN2		other				2,07E-02	BMP4	
FSMA1		peptidase				2,07E-02	GSTP1	
RNF7		enzyme				2,07E-02	JUN	
CTNNA1		other				2,07E-02	VCL	
SART3		other				2,07E-02	KLK3	
MED21		transcription regulator				2,07E-02	TNFAIP3	
Uox		enzyme				2,07E-02	IL1B	
B3GAT2		enzyme				2,07E-02	B3GAT1	
PRDM14		transcription regulator				2,07E-02	POLE4	
POPN		other				2,07E-02	CD44	
JAK2		other				2,07E-02	CXCL12	
RPN2		enzyme				2,07E-02	GSTP1	
FAP		peptidase				2,07E-02	Cd2	
VPS4B		transporter				2,07E-02	CASP3	
ZC3H8		transcription regulator				2,07E-02	GATA3	
cytarabine/daunubicin		chemical drug				2,07E-02	CEBPA	
GDF10		growth factor				2,07E-02	SERPINE1	
F12		peptidase				2,07E-02	IL1B	
binapant		biologic drug				2,07E-02	MKL	
quercetin-3-methyl ether		chemical reagent				2,07E-02	IL1B	
quercetin-3,4'-dimethyl ether		chemical reagent				2,07E-02	IL1B	
CDKL2		kinase				2,07E-02	CD44	
SRRM1		other				2,07E-02	CD44	
HIST1H4B		other				2,07E-02	Hsp91b	
minotax free base		chemical reagent				2,07E-02	IL1B	
IGHMBP2		enzyme				2,07E-02	APOA1	
Rhodobacter sphaeroides lipop		chemical - endogenous non-mar				2,07E-02	IL1B	
3M452		chemical drug				2,07E-02	Cd2	
ETP-46464		chemical reagent				2,07E-02	OASL	
ISCU		other				2,07E-02	FTH1	
sintokamide A		chemical reagent				2,07E-02	KLK3	
etfeberel		chemical drug				2,07E-02	IL1B	
metaboite		chemical - endogenous mamma				2,07E-02	NGO1	
lipophosphonoglycan		chemical - endogenous non-mar				2,07E-02	IL1B	
3-hydroxybutyric acid		chemical - endogenous mamma				2,07E-02	IL1B	
SC-19220		chemical reagent				2,07E-02	ICAM1	
bathophenanthroline		chemical reagent				2,07E-02	GP	
RO31-9790		chemical - protease inhibitor				2,07E-02	GAP43	
AZ10606120		chemical reagent				2,07E-02	CD86	
fluorescein		chemical drug				2,07E-02	CASP3	
1-(3-(1,4-dihydroimidazo[4,5-c]p		chemical - kinase inhibitor				2,07E-02	Cd2	
pentachlorophenol		chemical toxicant				2,07E-02	NGO1	
SiMG2N		chemical reagent				2,07E-02	CD86	
L18-muramyl dipeptide		chemical reagent				2,07E-02	ACOD1	
anti-miR-32 inhibitor		chemical reagent				2,07E-02	KLF4	
1-methylspemidine		chemical reagent				2,07E-02	AMY2A	
leucyl-leucine-methyl ester		biologic drug				2,07E-02	IL1B	
2-methoxy-5-(2',3'-4'-trimethoxy		chemical reagent				2,07E-02	JUN	
carbon		chemical reagent				2,07E-02	GSTP1	
17S-hydroperoxy-docosahexae		chemical - endogenous mamma				2,07E-02	IL1B	
UMP		chemical - endogenous mamma				2,07E-02	IL1B	
cladribine		chemical drug				2,07E-02	IL1B	
2'-fucosylactose		chemical - endogenous mamma				2,07E-02	ICAM1	
P2y Receptor		group				2,07E-02	SLC2A3	
ferric citrate		chemical drug				2,07E-02	FTH1	
tetracycline		chemical drug	Activated	2,000		2,08E-02	CSF1, JAG1, MAL, SERPINE1, SOD2	
lipitride		chemical drug		-0,277	bias	2,08E-02	CASP3, CXCL12, FAS, ICAM1, JUN	
coal tar		chemical drug				2,08E-02	GSTP1, NGO1	
METTL3		enzyme				2,08E-02	CD9, SERPINE2	
APOL1		transporter				2,08E-02	IFNGR2, IL1B	
Adaptor protein 1		complex				2,08E-02	CD44, SOD2	
T 0070907		chemical reagent				2,08E-02	Cd2, CEBPA	
PLCL2		enzyme				2,08E-02	ID1, RUNX2	
Alnal Natruietic Peptide		group				2,08E-02	NPR2, SERPINE1	
Kaikarin		group				2,08E-02	Cd2, ICAM1	
astragaln		chemical - endogenous non-mar				2,08E-02	ICAM1, IL1B	
Mcp4		peptidase				2,08E-02	Cd2, CLDN4	
TXK		kinase				2,08E-02	CD44, ZBTB16	
DYRK1B		kinase				2,08E-02	GP, SOD2	
miR-208a-3p (and other miRNA		mature microRNA				2,08E-02	CD14, RUNX2	
MAFF		transcription regulator				2,08E-02	GSTP1, NGO1	
IL17RB		transmembrane receptor				2,08E-02	Cd2, CSF3	
VLDR		transporter				2,08E-02	SERPINE1, TNFAIP3	
ENTPD1		enzyme				2,08E-02	CD86, SERPINE1	
CHRNA3		transmembrane receptor				2,08E-02	CASP3, GATA3	
HIST2H3C		other				2,08E-02	IL1B, RND3	
sevoflurane		chemical drug				2,08E-02	CASP3, IL1B	
ferric ammonium citrate		chemical drug				2,08E-02	FTH1, FTL	
8-chlorophenylthio-adenosine 3		chemical - kinase inhibitor		1,982	bias	2,12E-02	BIRC3, CASP3, CEPD, LPIN2	
IFN type 1		group		1,969	bias	2,12E-02	Cd2, IFI16, OASL, XDH	
EPHB4		kinase		1,000	bias	2,12E-02	BMP2, BMP4, GATA3, Nes	
IGFBP2		other				2,12E-02	CASP3, CHD9, GDF15, PTGFRN	
ARNTL		transcription regulator		0,591	bias	2,12E-02	CEBPA, HMGC32, IL1B, NGO1	
LMNB1		other				2,12E-02	Cd2, CXCL12, FLT3, RGN1	
benfektin A		chemical - endogenous non-mar		-0,130		2,12E-02	CD44, GADD45B, HLA-A, KLF4	
GRP		growth factor				2,17E-02	CTRB2, JUN, KLK3	
ACTL6A		other				2,17E-02	CCNA2, FAS, SFN	
DL11		enzyme				2,17E-02	CD86, GATA3, JAG1	
CHADL		other				2,17E-02	Cd2, FAS, STEAP4	
CFLAR		other				2,17E-02	CSF3, GATA3, IL1B	
PD 123319		chemical drug				2,17E-02	Cd2, CY8A, SERPINE1	
chrysotile asbestos		chemical toxicant				2,17E-02	CLCA1, CTSZ, IL1B	

deoxymylenol		chemical toxicant			2.17E-02	CLDN4, ICAM1, IL1B
stearic acid		chemical - endogenous mammal			2.17E-02	ICAM1, IL1B, NFKBIA
GnR1 analog		biologic drug	0.577		2.18E-02	ACOT7, BCL2A1, CASP3, CD40, FAS, GAB1, GSTO1, JUN, NFKBIA, PLA2G16
GNA12		enzyme	0.447	bias	2.19E-02	CNA2, GSTA3, GSTP1, LAMB3, VCL
PAX3		transcription regulator			2.21E-02	BMP4, FLT3, ITD3, IL7R, LAMB3, MEST, PTPN14, PXDN, SFN
FOXP3		transcription regulator	0.447	bias	2.21E-02	HLA-A, IISGF3, IL11R, IL17R, LAT52, TNFAIP3
SRC (family)		group	1.969	bias	2.26E-02	BMP2, Ccl2, ICAM1, ID1
RTN4		other			2.26E-02	GAP43, JUN, NQO1, Tpm1
CN2		growth factor	1.148	bias	2.31E-02	BCL2A1, CD44, JUN, SDCA, SERPINE1, Tpm1
RXRα		ligand-dependent nuclear recept	0.000		2.33E-02	APOA1, CCR2, CNA2, CEBPA, CEBPD, CLMN, FABP5, FTL, HMGCS2, IL1B
elanecept		biologic drug			2.37E-02	CD83, ICAM1, IL1B
LPIN1		phosphatase			2.37E-02	CEBPA, IL1B, LPIN2
indican		chemical - endogenous mammal			2.37E-02	GATA3, ICAM1, IL1B
LLGL2		other			2.37E-02	CRM1, SERPINE1, SH2D4A
Focal adhesion kinase		group			2.37E-02	ICAM1, KLR3, KRT8
CASP3	0.801	peptidase			2.37E-02	CAMK4, CASP3, RUNX2
ROCK1		kinase			2.37E-02	CD44, ICAM1, LAMA2
PRKC1		kinase			2.37E-02	OLDN4, HK1, HK2
NG2A4		transcription regulator			2.37E-02	FABP5, JAG1, KLR3
ferulic acid		chemical - endogenous non-mar			2.37E-02	CASP3, CSF3, IL1B
R-WIN 55,212		chemical reagent			2.37E-02	CASP3, ICAM1, IL1B
glycothiazic acid		chemical drug			2.37E-02	APOA1, CASP3, CD40
bardoxolone methyl		chemical drug			2.37E-02	BIRC3, Ccl2, IL1B
fucoidin		chemical reagent			2.37E-02	CASP3, CXCL12, IL1B
CD5		transmembrane receptor	0.762	bias	2.40E-02	CCR7, CD86, ICAM1, RELB
ADM		other	-1.067		2.40E-02	Ccl2, ICAM1, IL1B, PRKG1
phenethyl isothiocyanate		chemical drug			2.40E-02	BUB1, CYP3A7, GSTA3, KRT20, MAPK6, PL33
budesonide		chemical drug	1.342		2.41E-02	BTG3, Ccl2, CSF3, JUN, PDLIM1
ascorbic acid		chemical - endogenous mammal	-0.277		2.41E-02	APOA1, BMP, FAS, RUNX2, SERPINE1
FOXM1		transcription regulator	2.582	bias	2.43E-02	CNA2, CXCL12, CXCR3, JUN, NEK2, Nes, SOD2
halofuginone		chemical drug			2.43E-02	Cd24a, CD44, CP, HK1, PLCB4, PTGFRN, PTK2B
mozafinostat		chemical drug			2.47E-02	CASP3, IL1B
WP1066		chemical drug			2.47E-02	CD86, IL1B
TCIRG1	1.150	enzyme			2.47E-02	CD44, CD86
CLEC1B		transmembrane receptor			2.47E-02	CXCL12, LCP2
RGS2		other			2.47E-02	CEBPD, Vnn3
ALOX12		enzyme			2.47E-02	FOSL1, JUN
CST3		other			2.47E-02	IL1B, NFKBIA
PLTP		enzyme			2.47E-02	APOA1, IL1B
DD2		other			2.47E-02	NFKBIA, SOD2
BAP1		peptidase			2.47E-02	Ccl2, MCM3
ETV6		transcription regulator			2.47E-02	CASP3, ID1
NUMBL		other			2.47E-02	CASP3, KLF4
ZBTB32		transcription regulator			2.47E-02	CSF2RB, GATA3
HSPB8		kinase			2.47E-02	BMP4, ICAM1
RIPK3		kinase			2.47E-02	Ccl2, IL1B
PAX4		transcription regulator			2.47E-02	ARX, Nes
AJUBA		transcription regulator			2.47E-02	BUB1, DOCK1
ITGA3		other			2.47E-02	SERPINE1, VCL
CDH5		other			2.47E-02	ICAM1, ITAM1
IREB2		translational regulator			2.47E-02	FTHL, FTL
ELN		other			2.47E-02	CD86, IL1B
PLCL1		enzyme			2.47E-02	ID1, RUNX2
ACO1		enzyme			2.47E-02	FTHL, FTL
perylene-tetrazol		chemical drug			2.47E-02	IL1B, JUN
tenemfene		chemical drug			2.47E-02	CD86, KLR3
D-sphingosine		chemical - endogenous mammal			2.47E-02	Ccl2, SERPINE1
KT5720		chemical - kinase inhibitor			2.47E-02	NFKBIA, PRKG1
lin protoporphyrin IX		chemical reagent			2.47E-02	CD86, Hamp/Hamp2
curcubitacin B		chemical - endogenous non-mar			2.47E-02	CASP3, CNA2
fatty acid		chemical - endogenous mammal	1.519	bias	2.50E-02	APOA1, Ccl2, IL1B, LPIN2, NFKBIA, SERPINE1
TET2		enzyme	-0.378	bias	2.51E-02	Ccl2, CLEC4D, IFI16, IL1B, PL33, RND3, ZBTB16
NR4A1		ligand-dependent nuclear recept	-1.615	bias	2.53E-02	CEBPA, CSF1, CXCL12, FBP1, HK2, ICAM1, IL1B, JUP, KRT8, NFKBIA
R5020		chemical reagent	1.969	bias	2.53E-02	BIRC3, CEBPA, LAMC2, NFKBIA, ZBTB16
CK29		kinase			2.55E-02	ALAS1, NFKBIA, STC2, TNFAIP3
ZEB2		transcription regulator	-1.000	bias	2.55E-02	GZMA, IL7R, KRT19, Tcf7
AKT2		kinase			2.55E-02	BUB1, Ccl2, IRAK3, NQO1
VAV1		transcription regulator			2.59E-02	BCL2A1, JUN, RALA
IPR01		other			2.59E-02	CTSC, HK1, LAMA2
THBS4		other			2.59E-02	Ccl2, CD40, ICAM1
fluvoxamine		chemical drug			2.59E-02	CCR7, HTR7, RACK1
ERN1		kinase	1.404	bias	2.60E-02	ANG, Ccl2, CEBPD, FAS, IL1B, JUN, TINAGL1
SPARC		other	-1.353		2.60E-02	CEBPD, CLDN4, NOTO2, PLET1, SERPINE1, SLC34A2
GAS1		other	1.65E-02	bias	2.65E-02	Hamp/Hamp2, JAG1, JUN, MCM3, NFKBIA
berberine		chemical drug	0.686	bias	2.71E-02	BIRC3, CASP3, CD40, CD86, ICAM1, IL1B
alefacept		biologic drug	-1.982	bias	2.71E-02	CD2, CD8A, CYBA, IL7R
oblimersen		biologic drug	2.000	bias	2.71E-02	CEBPD, GADD45B, IFI16, OASL
CAT		enzyme	1.067	bias	2.71E-02	BCL2A1, Ccl2, CLCA1, SERPINE1
PLAG1		transcription regulator	0.000	bias	2.71E-02	KRT19, LILRB3, PIR, PPIC
mi-24		microRNA	-0.404		2.71E-02	CXCR3, GATA3, SERPINE1, Tcf7
CLEC11A		growth factor			2.71E-02	CXCL12, IL1B, RUNX2, ZYX
anisomycin		chemical - endogenous non-mar	1.966	bias	2.71E-02	IL1R1, JUN, SDC1, SERPINE1
SP110	2.929	transcription regulator	-0.378		2.78E-02	BMP4, DMD, PANK1, PERP, RIPK2, TAB3, YAP1
CAH9		other			2.81E-02	Ccl2, CSF3, IL1B
IHH		enzyme			2.81E-02	BMP4, RUNX2, SMO
PRKC2		kinase			2.81E-02	CASP3, JUN, NFKBIA
BECN1		other			2.81E-02	BMF, IL1B, SOD2
CORT		other			2.81E-02	Ccl2, CCR7, IL1B
N-3-(aminomethyl)benzylacetate		chemical reagent			2.81E-02	CASP3, FAS, RIPK2
hymecromone		chemical drug			2.81E-02	CASP3, CD44, FAS
IFNα1/IFNα13		cytokine	1.131	bias	2.87E-02	CD40, CD83, CD86, IL1B
EB3		cytokine	1.982	bias	2.87E-02	CD86, HLA-A, ICAM1, LAG3
MDGA2		other			2.88E-02	BCL2A1, FAS
FH		enzyme			2.88E-02	LTBP2, NQO1
CRBN		enzyme			2.88E-02	IL1B, JUN
hammine		chemical - endogenous non-mar			2.88E-02	BMP2, RUNX2
SOX5		transcription regulator			2.88E-02	BMP6, RUNX2
miR-210-3p (miRNAs w/seed UK		mature microRNA			2.88E-02	FGFR1, RAD52
mi-127		microRNA			2.88E-02	IL1B, MRC1
HLA-A	1.061	other			2.88E-02	HLA-A, LAG3
XRD25		enzyme			2.88E-02	KLR3, XDH
CD180		other			2.88E-02	BCL2A1, CD86
NLR4		other			2.88E-02	CD86, IL1B
FRS2		other			2.88E-02	BMP4, CD44
PLA2G2E		enzyme			2.88E-02	IL1B, SERPINE1
UGCG		enzyme			2.88E-02	CASP3, ICAM1
PON1		phosphatase			2.88E-02	CD86, ICAM1
SDC1	1.625	enzyme			2.88E-02	Ccl2, GALNT3
CRV1		enzyme			2.88E-02	CEBPA, IL1B
CDK7		kinase			2.88E-02	STC2, TNFAIP3
DUSP14		phosphatase			2.88E-02	NFKBIZ, Vnn3
BHLHE41		transcription regulator			2.88E-02	GATA3, HK2
HSPA1A/HSPA1B		enzyme			2.88E-02	Hspa1b, IL1B
2'-3'-cyclic guanosine monophos		chemical - endogenous mamma			2.88E-02	CD86, IL1B
bisphenol A diglycidyl ether		chemical reagent			2.88E-02	ICAM1, SERPINE1
RV 538		chemical reagent			2.88E-02	ICAM1, IL1B
ethylene diaminetetraacetic acid		chemical drug			2.88E-02	BCL2A1, IL1B
emolcan		chemical drug			2.88E-02	FAS, IL1B
isatorbaine		chemical reagent			2.88E-02	CD40, CD86
cyclo maltodextrin		chemical drug			2.88E-02	CSF3, IL1B
topiramate		chemical drug			2.88E-02	CASP3, IL1B
CNR1		G-protein coupled receptor	0.420	bias	2.88E-02	BMP2, BMP4, Ccl2, Ccl8, CORO2A, NOD2, PTK2B
ZAP70		kinase	1.982	bias	3.04E-02	ALAS1, ANG, CCR7, CYBA
ELK1		transcription regulator	1.951	bias	3.04E-02	BMP2, FOSL1, JUN, RUNX2
Pin		other			3.04E-02	APOA1, RACK1, RALA, RRAS
FBXO32		enzyme	1.109		3.04E-02	IL1B, KRT19, OAT, SOD2, Tcf7
3M4011		chemical reagent			3.05E-02	CD40, CD83, CD86
MALAT1		other			3.05E-02	Ccl2, FRMD8, Glycam1
KEAP1		transcription regulator			3.05E-02	GSTP1, IL1B, NQO1
PDPK1		kinase			3.05E-02	CCR7, IL1B, SERPINE1
TMMP1		cytokine			3.05E-02	AGALY, CD40, CD44
lactic acid		chemical - endogenous mamma			3.05E-02	CXCL12, IL1B, MRC1
batifomycin A1		chemical drug			3.05E-02	CD40, CD8, NFKBIA
TGFB3		growth factor	1.709	bias	3.15E-02	ADAM19, GATA3, JUN, LTBP2, SERPINE1, SERPINE2
Wium		chemical drug	-0.447		3.18E-02	CAMK4, CASP3, FAS, JUN, NCS1
FBXW7		enzyme	-0.577	bias	3.21E-02	HSPB1, JUN, NQO1, SERPINE1
POU2AF1		transcription regulator			3.21E-02	BAGALT1, CD86, ID3, LCK
cadmium chloride		chemical toxicant			3.21E-02	CXCL12, HSPB1, JUN, KLR3
Secretase gamma		complex			3.29E-02	BATF, CD83, CD86
ZBED6		transcription regulator			3.29E-02	CRM1, UPP1, WWC1
QHRNA7		transmembrane receptor			3.29E-02	Ccl2, ID1, IL1B
ANXA2		other			3.29E-02	ANG, FAS, JUN
DNASE2		enzyme			3.29E-02	CP, Hamp/Hamp2, Mef44b, (includes others)
SELP		transmembrane receptor			3.29E-02	BCL2A1, BST1, IL1B
PRMT1		enzyme			3.29E-02	FTHL, FTL, MRC1
ZBTB7B		transcription regulator			3.29E-02	CD8A, GATA3, KLF4
PLAT		peptidase			3.29E-02	IL1B, JUN, SERPINE1
TYK2		kinase			3.29E-02	CSF3, Hamp/Hamp2, IL1B
CDC42		enzyme			3.29E-02	CASP3, CD86, JUN
MEIS1		transcription regulator			3.29E-02	CHD9, FLT3, RUNX2

S-nitroso-N-acetylpenicillamine		chemical reagent				3,29E-02	CXCL12,FAS,PRKG1
glycochenodeoxycholate		chemical - endogenous mammal				3,31E-02	BCL2A1,BIRC3
MEG3		other				3,31E-02	GDF15,JUN
Rac		group				3,31E-02	BMP2,CD9
behacasan		chemical drug				3,31E-02	Cd2,IL1B
SGRP1		phosphatase				3,31E-02	IL1B,TGFB
NFKBID		transcription regulator				3,31E-02	CD86,CD9
TNFAIP6L2		other				3,31E-02	Cd2,IL1B
CBS/CBSL		enzyme				3,31E-02	APOA1,CASP3
TAC4		other				3,31E-02	CD86,IL1B
COX4I1		enzyme				3,31E-02	SLC22A3,TSPAN8
SRSF3		other				3,31E-02	CD44,JUN
PIAS4		transcription regulator				3,31E-02	IL1B,SERPINE1
ATXN7		other				3,31E-02	BASP1,Marcks
CSF3R		transmembrane receptor				3,31E-02	CD14,CXCL12
ACVR1B		kinase				3,31E-02	KLF4,SERPINE1
CSAR2		G-protein coupled receptor				3,31E-02	Cd2,CSF3
NPFF		other				3,31E-02	CEBPA,ID3
ST14		peptidase				3,31E-02	ICAM1,IL1B
ebselen		chemical drug				3,31E-02	ICAM1,IL1B
diato-lactacyclin beta-lactone		chemical - protease inhibitor				3,31E-02	GSTP1,MAPK6
N-(3-oxododecanoyl)-homoserine dimethyl fumarate		chemical reagent				3,31E-02	CSF1,IL1B
polyamides		chemical - other				3,31E-02	CCR7,JUN
nickel chloride		chemical toxicant				3,31E-02	CD4,CEBPA
spemine		chemical - endogenous mammal				3,31E-02	IL1B,JUN
anti-benzo(a)pyrene-diol-epoxide		chemical toxicant				3,31E-02	IL1B,RUNX2
bochanin A		chemical toxicant				3,31E-02	GADD45B,JUN
noscapine		chemical drug				3,31E-02	CD86,RUNX2
cyproterone acetate		chemical drug				3,31E-02	BIRC3,ICAM1
MAPK3		kinase	0,000	bias		3,32E-02	GAP43,KLK3
HNRNPA2B1		other				3,38E-02	B4GALT1,BMP4,CD86,FOSL1,JUN
5-hydroxytryptamine		chemical - endogenous mammal	1,954	bias		3,39E-02	CP,GDF15,JUP,MEIS1,PLCB4,SEMA3B,SYT1
oxalipatin		chemical drug				3,39E-02	APBB1P,ICAM1,IL1B,PLN3,RUNX2,SERPINE1
ISL1		transcription regulator	1,387			3,47E-02	CASP3,FAS,GAP43,GDF15
NYFA		transcription regulator	2,000	bias		3,47E-02	BMP4,CCKAR,IL1B,LILRB3,PTRT
USP22		peptidase	-0,163			3,48E-02	CCNA2,FTH1,GADD45B,ICAM1,JUN
SETD2		enzyme				3,55E-02	BCL11A,Cd44,GM7094,GATA3,IFI16,IL1B,JUN,LAG3,OASL,PRKG1,PTPRK
ABCG1		transporter				3,55E-02	BCL2A1,CSF2RB,MRC1
PRKCO		kinase				3,55E-02	ANG,JUN,SERPINE1
formaldehyde		chemical - endogenous mammal				3,55E-02	Cd2,CSF3,IL1B
methylnitrosourea		chemical toxicant				3,55E-02	CD44,FOSL1,GATA3
phorbol 12,13-dibutyrate		chemical - endogenous non-mar				3,55E-02	FOSL1,IL1B,JUN
AIRE		transcription regulator				3,55E-02	GSTP1,IDI1,JUN
urolic acid		chemical drug				3,58E-02	APOA1,Cd2,SERPINE1
SBD5		other				3,58E-02	AKR1B10,BMP2,BMP4,KLK3
MAPT		other				3,58E-02	CASP3,GDF15,IL1B,SOD2
MAPK4		kinase	Inhibited	-2,449	bias	3,64E-02	GADD45B,GAP43,IDI1,IFI16,ZNRF1
BDNF		growth factor	1,779	bias		3,64E-02	ANXA6,BASP1,C1R,CASP3,GSTP1,HK1,IL1B,JUN,Prss1 (includes others),SERPINE1
STAT5B		transcription regulator	0,302			3,64E-02	ALDH3B1,CEBPA,H6PD,MGLL,PLCB4,ST3GAL4
LtH		complex	0,911	bias		3,64E-02	AC017,BMP2,CASP3,CAV2,CP,FTL,GAP43,JUN,SEMA3E,SOD2
cyclic GMP		chemical - endogenous mammal				3,70E-02	HR23,FAS,CASP3,FAS,GADD45B,Glycam1,GSTP1,Hamp,Hamp2,KRT19,NQO1
fluoride		chemical - endogenous mammal				3,72E-02	DHR53,HK2,MAPK6,PLN3,RUNX2,SOD2,TNFAIP3,TNFRSF12A,UPP1,VCL
tenafamib		chemical drug				3,77E-02	SERPINE1,VCL
PfAFR-RXRa		complex				3,77E-02	FAS,RUNX2
CLCN5		ion channel				3,77E-02	BCL2A1,BIRC3
IGFBP7		transporter				3,77E-02	APOA1,NFKBIA
TAP1		transporter				3,77E-02	Cd2,SLC34A2
AIMF1		cytokine				3,77E-02	CASP3,SOD2
PNN		other				3,77E-02	HLA-A,IL1B
CAPN3		peptidase				3,77E-02	ICAM1,IL1B
SLC2A1		transporter				3,77E-02	GDF15,JUN
BOKRB2		G-protein coupled receptor				3,77E-02	FTH1,SOD2
TREX1		enzyme				3,77E-02	NQO1,SERPINE1
PARK7		enzyme				3,77E-02	CD44,ICAM1
PDE5A		enzyme				3,77E-02	IF116,OASL
SPIIN1		other				3,77E-02	ICAM1,SOD2
L-685,458		chemical - protease inhibitor				3,77E-02	IL1B,PRKG1
Mn(II)-tetrakis-(4-benzoic acid)		chemical reagent				3,77E-02	PIR7,TGFB
lauric acid		chemical - endogenous mammal				3,77E-02	IDI1,PTPRK
IL1R1		transmembrane receptor	1,718	bias		3,77E-02	CD14,SERPINE1
FLI1		transcription regulator	1,969	bias		3,77E-02	CD40,CD86
8-hydroxyguanosine 3' 5'-cyclic n		chemical - kinase inhibitor				3,77E-02	Cd2,CXCL12,ICAM1,IL1B
TARDBP		transcription regulator				3,77E-02	Cd2,CSF3,CXCR3,RAK1
IGFBP3		other				3,81E-02	BMP2,CDBA,SLC12A4
GTF2B		transcription regulator				3,81E-02	CASP3,Cd2,IL1B
parthenolide		chemical drug				3,81E-02	ICAM1,IL1B,SERPINE1
ZFXH3		transcription regulator				3,81E-02	BCL2A1,NFKBIA,TNFAIP3
STK11		kinase	-0,711			3,81E-02	Cd2,IL1B,SOD2
3-deazaneplanocin		chemical drug	0,687	bias		3,93E-02	APOA1,GSTP1,HLA-A,ID3,Nes
UCHL1		peptidase	1,000			3,94E-02	ALCAM,Cd2,CCNA2,CSF3,DOCK4,FOSL1,GADD45B,IDI1,RASGRP1,SERPINE1
QSKOB		kinase	2,433			3,96E-02	FAS,KLF6,LAMB3,NOTCH2
SOX4		transcription regulator	2,813	bias		3,96E-02	ANXA6,DOCK10,MAPK6,SH2D4
POU2F2		transcription regulator	2,000	bias		3,96E-02	BCL2A1,BIRC3,Cd2,IL1B,NFKBIZ,SERPINE1
flutamide		chemical drug - other	-0,784	bias		4,05E-02	Z610035D17Rk,CD2,LCK,PPIC,RNASE4,SERPINE2,TAX1BP3,TIAM1
phorbol esters		chemical - other	2,219	bias		4,09E-02	DEPP1,FJX1,JUN,LCK,TNFRSF12A
6-hydroxydopamine		chemical toxicant	1,980	bias		4,09E-02	B4GALT1,CASP3,Cd2,IL6ST,NQO1
RNASE2		enzyme				4,09E-02	CD44,HK2,IL1B,JUN,SOD2
TANK		other				4,09E-02	CASP3,GAP43,IL1B,JUN,SOD2
CAMK4	1,814	kinase				4,09E-02	CD83,CD86,CSF1
CD4		transmembrane receptor				4,09E-02	NFKBIZ,Vnn3,ZC3H12A
THBS1		other				4,09E-02	CAMK4,CSPR1,JUN
POSTN		other				4,09E-02	FAS,IDI1,LCK
diphosphoryl lipid A		chemical toxicant				4,09E-02	Cd2,IL1B,LRP1
gentamicin C1		chemical drug				4,10E-02	Cd2,CLCA1,RUNX2
syngin		chemical - endogenous non-mar				4,10E-02	IL1B
Cop9 Signaosome		complex				4,10E-02	CD44
CD8		complex				4,10E-02	IL1B
Pdgfra-Pdgfrb		complex				4,10E-02	LCK
endrin		chemical toxicant				4,10E-02	CSF1
enkephalin, methionine		biologic drug				4,10E-02	CEBPA
T-type Calcium Channel		complex				4,10E-02	MRC1
Rgs15a-ps4		other				4,10E-02	ENPP1
MBN3		other				4,10E-02	NFKBIA
SLC27A4		transporter				4,10E-02	CD44
ADRM1		other				4,10E-02	CEBPA
POPD2		other				4,10E-02	NFKBIA
SUCNR1		G-protein coupled receptor				4,10E-02	IL1B
Sin3a5		other				4,10E-02	IL1B
SLC9A9		transporter				4,10E-02	KLF4
GSTZ1		enzyme				4,10E-02	FTH1
Hs3		other				4,10E-02	NQO1
CIOL4		other				4,10E-02	PRDM2
GPR4		G-protein coupled receptor				4,10E-02	CEBPA
LBH		transcription regulator				4,10E-02	ICAM1
METTL8		enzyme				4,10E-02	IL1B
BATF2		other				4,10E-02	CEBPA
lumycyclamine		chemical - endogenous mammal				4,10E-02	JUN
VANGL2		other				4,10E-02	CLDN4
CTDSP12		phosphatase				4,10E-02	SDC4
SV2A		transporter				4,10E-02	IDI1
Rael1a		other				4,10E-02	SYT1
AKNA		transcription regulator				4,10E-02	HLA-A
ginkgetin		chemical - endogenous non-mar				4,10E-02	CD40
HIP1		other				4,10E-02	CASP3
LY 518674		chemical drug				4,10E-02	KLK3
Inflammasome (Nalp3, Asc, Ca		complex				4,10E-02	APOA1
ETV7		transcription regulator				4,10E-02	IL1B
clusterin antisense oligonucleo		biologic drug				4,10E-02	BMP6
AP1M1		transporter				4,10E-02	KLK3
FAIM2		other				4,10E-02	HLA-A
IVNS1ABP		other				4,10E-02	CASP3
HLTF		transcription regulator				4,10E-02	SOD2
ZNF224		transcription regulator				4,10E-02	SERPINE1
CELA1		peptidase				4,10E-02	TNFAIP3
cyprioxazole		chemical drug				4,10E-02	HLA-A
MLIP		other				4,10E-02	GADD45B
CALU		other				4,10E-02	HK1
NMB		other				4,10E-02	GDF15
LAMA3		other				4,10E-02	JUN
ARIH2		enzyme				4,10E-02	IL1B
mir-338		microRNA				4,10E-02	IL1B
miR-483-5p (miRNAs w/secd A		mature microRNA				4,10E-02	IL1B
mir-652		microRNA				4,10E-02	IL1B
MIR585		microRNA				4,10E-02	IL1B
miR-1298-5p (and other miRNA		mature microRNA				4,10E-02	IL1B
Zingiber officiale ginger extract		chemical drug				4,10E-02	IL1B
NUBP1		other				4,10E-02	FTH1
HIF1A-AS1		other				4,10E-02	CASP3

N-acetylcysteine	chemical - endogenous mammal			4.10E-02	IL1B	
BORCS3-4MEF2B	transcription regulator			4.10E-02	JUN	
STK38L	kinase			4.10E-02	YAP1	
NBR1	other			4.10E-02	GATA3	
abiraterone	chemical drug			4.10E-02	KLK3	
NOXO1	other			4.10E-02	SDO2	
IFB3	enzyme			4.10E-02	HLA-A	
SIGLEC11	other			4.10E-02	IL1B	
OSTF1	transcription regulator			4.10E-02	RUNX2	
FGB	other			4.10E-02	ICAM1	
poly-L-glutamic acid-peptoid 1	chemical reagent			4.10E-02	Cd2	
cyclo[Asp-GRHLLIKLAKLA	chemical reagent			4.10E-02	CASP3	
SLC7A11	transporter			4.10E-02	IL1B	
VANGL1	other			4.10E-02	JUN	
PLEKHA1	other			4.10E-02	CD86	
IRG2	transcription regulator			4.10E-02	SERPINE1	
RBM3	other			4.10E-02	CD44	
MYBPC1	other			4.10E-02	Cd2	
CD86	other			4.10E-02	IL1B	
PLEKHA2	other			4.10E-02	CD86	
PATZ1	transcription regulator			4.10E-02	KLK3	
ENC1	peptidase			4.10E-02	NOO1	
FOXO1	transcription regulator			4.10E-02	SDC1	
DRP2	other			4.10E-02	DMD	
FGF5	growth factor			4.10E-02	CSF3	
SMC1A	transporter			4.10E-02	POLE4	
FRAT1	other			4.10E-02	JUN	
14,15-epoxyelocosa-5(Z)-enoic a	chemical reagent			4.10E-02	Cd2	
IPD9	transporter			4.10E-02	PTK2B	
nitrosonifedipine	chemical reagent			4.10E-02	ICAM1	
CRTPA	other			4.10E-02	SERPINE1	
Acp5	phosphatase			4.10E-02	IL1B	
SRI	other			4.10E-02	Cd2	
APOC1	transporter			4.10E-02	CASP3	
CDK11B	kinase			4.10E-02	KLK3	
NLRP1	other			4.10E-02	IL1B	
RNF11	enzyme			4.10E-02	SERPINE1	
CLEC2D	transmembrane receptor			4.10E-02	CD83	
QPS6	other			4.10E-02	SPN	
ZFYVE16	transporter			4.10E-02	SERPINE1	
N-acetyl-L-tyrosyl-L-cysteine-am	chemical reagent			4.10E-02	XDH	
ATB-346	chemical drug			4.10E-02	IL1B	
E-CADHERIN	chemical reagent			4.10E-02	BCL2A1	
verticillin A	chemical reagent			4.10E-02	FAS	
hydroxyl radical	chemical toxicant			4.10E-02	KLK4	
trimellitic anhydride	chemical toxicant			4.10E-02	IL1B	
ama-crme	chemical drug			4.10E-02	JUN	
apocapsale	chemical drug			4.10E-02	SERPINE1	
methiothepin	chemical drug			4.10E-02	SERPINE1	
sibutramine	chemical drug			4.10E-02	SERPINE1	
2,5-hexanedione	chemical toxicant			4.10E-02	FAS	
hexaarginine-neomycin B con	chemical reagent			4.10E-02	CD8A	
oxazepam	chemical drug			4.10E-02	GADD45B	
3,3'-aminodipionitrile	chemical toxicant			4.10E-02	Cd2	
gliclazide	chemical drug			4.10E-02	SLC2A3	
thalcone-24	chemical reagent			4.10E-02	BIRC3	
uchovananthin	chemical drug			4.10E-02	JAG1	
terpenoid	chemical - endogenous mammal			4.10E-02	LRP1	
urushiol	chemical - endogenous non-mar			4.10E-02	IL1B	
phenol	chemical - endogenous mammal			4.10E-02	IL1B	
sodium fluoride	chemical drug			4.10E-02	ICAM1	
cation	chemical - other			4.10E-02	GS TP1	
echium oil	chemical drug			4.10E-02	IL1B	
procatenol	chemical drug			4.10E-02	ICAM1	
Z-VYAD-FMK	chemical reagent			4.10E-02	IL1B	
venetoprin	chemical drug			4.10E-02	YAP1	
KT 5826	chemical - kinase inhibitor			4.10E-02	CD14	
aluminum	chemical drug			4.10E-02	RUNX2	
typhostin B56	chemical - kinase inhibitor			4.10E-02	ICAM1	
tibolone	chemical drug			4.10E-02	SERPINE1	
bunaiside	chemical drug			4.10E-02	ICAM1	
fluorocitric acid	chemical reagent			4.10E-02	IL1B	
1-phenazinecarboxylic acid	chemical - endogenous non-mar			4.10E-02	ICAM1	
HOXD10	transcription regulator	0.000		4.17E-02	CD44,ICAM1,NOS1,SERPINE1	
ptenone	chemical toxicant	0.832		4.17E-02	BIRC3,CASP3,IL1B,SDO2	
pirofenone beta-1a	biologic drug			4.17E-02	GADD45B,GSTP1,IL1R3,MAL,NFKBIA,SERPIN1	
CREM	transcription regulator	1.131		4.18E-02	CAMK4,CD86,CD8A,GADD45B,Marcks,MEST,Tpm1	
aldosterone	chemical - endogenous mammal	2.578	bias	4.18E-02	BMP2,Cd2,CYBA,ICAM1,NFKBIA,SERPINE1,ZBTB16	
apothione B	chemical drug			4.25E-02	FAS,SPN	
eluretinib	chemical drug			4.25E-02	JUN,RUNX2	
DPH5	enzyme			4.25E-02	IL1B,NFKBIA	
MDK	growth factor			4.25E-02	Caln1,Cd2	
NUP62	transporter			4.25E-02	PERP,WWC1	
LY96	transmembrane receptor			4.25E-02	CD40,CD86	
me-204	microRNA			4.25E-02	IL1B,RUNX2	
FCGR1A	transmembrane receptor			4.25E-02	CSF1,IL1B	
HDAC9	transcription regulator			4.25E-02	CEBPA,JUN	
STIM1	ion channel			4.25E-02	GSTO1,NQO1	
10-oxotrolate	chemical - endogenous mammal			4.25E-02	Cd2,ICAM1	
PR2	transmembrane receptor			4.25E-02	FAS,IL1B	
BCL10	transcription regulator			4.25E-02	CD44,TNFAIP3	
CNR2	G-protein coupled receptor			4.25E-02	Cd2,IL1B	
Cux1	transcription regulator			4.25E-02	Cd8,CD8A	
101_10 peptide	chemical reagent			4.25E-02	Cd2,IL1B	
3-aminobenzamide	chemical toxicant			4.25E-02	ICAM1,IL1B	
2-acetylaminofluorene	chemical toxicant			4.25E-02	JAG1,NOTCH2	
allyl sulfide	chemical drug			4.25E-02	CASP3,GSTA3	
concanamycin A	chemical drug			4.25E-02	ICAM1,NFKBIA	
neustatin	chemical drug			4.25E-02	BMP4,KLK4	
indole	chemical - endogenous mammal			4.25E-02	CGN,TJP3	
farnesyl pyrophosphate	chemical - endogenous mammal			4.25E-02	ICAM1,SERPINE1	
tetrandrine	chemical drug			4.25E-02	CASP3,JUN	
IES	transcription regulator	-1.400	bias	4.30E-02	B3GAT1,CEBPA,CXCL12,GAP43,Nes,OAT,SYT1	
arsenic trioxide	chemical drug	1.672		4.34E-02	BCL2A1,CD44,FAS,FTH1,MAPK4,MAPK6,MCM3,NFKBIA,NQO1,PIR	
CDKN1A	kinase	-0.116	bias	4.35E-02	BUB1,CASP3,CNNA2,FAS,IL1B,JAG1,MCM3,SERPINE1,SDO2	
rasagiline	chemical drug			4.37E-02	FAS,Marcks,RACK1	
NSD2	enzyme	0.462		4.37E-02	ITGB7,JUN,RRAS	
KRT14	other			4.37E-02	CXCL14,GJB2,KRT8	
APR-246	chemical drug			4.37E-02	CD81,GADD45B,VCL	
CIDEc	other			4.37E-02	Cd2,SDC1,SERPINE1	
ethylene glycol tetraacetic acid	chemical reagent			4.37E-02	BIRC3,CD83,CD86	
NR4A3	ligand-dependent nuclear recep			4.37E-02	BIRC3,CEBPA,FBP1,NQO1	
PLN	transporter			4.37E-02	AP0A1,RACQ1,RALA,RRAS	
25-hydroxycholesterol	chemical reagent	1.000		4.37E-02	FOSL1,IL1B,JUN,NFKBIA	
ATF2	transcription regulator	1.969	bias	4.42E-02	BCL2A1,CNNA2,IL1RL1,JUN,SDO2	
LIPE	enzyme			4.46E-02	CEBPA,GP,IL1RL1,JUP,RUNX2,SDC4	
BM1	transcription regulator			4.59E-02	FAS,IKK2,MCM3,SPN	
FOLR1	transporter			4.59E-02	BASP1,BIRC3,CD9,CLC1,ST3GAL4	
KLK3	transcription regulator	-1.155	bias	4.59E-02	ALDH3B1,ANXA6,ARHGEF3,GSTP1,ITGB7,LILRB3,NEURL3,PARP3,PDLIM1,PTP42A	
pregnenolone carbonitrile	chemical reagent			4.67E-02	ALAS1,HMGCS2,UGT1A7 (includes others)	
INPP5D	phosphatase			4.67E-02	CD86,FAS,IRAK3	
ATP7B	transporter			4.67E-02	CP,FABP5,TRIP13	
SERPINE2	other	1.374		4.67E-02	Cd2,Cd8,IL1B	
JAG2	growth factor			4.67E-02	BMP2,IL1B,JAG1	
cyclopamine	chemical reagent			4.67E-02	CD14,FAS,SMO	
ROKi	ligand-dependent nuclear recep			4.69E-02	C2B8,GADD45B,GSTP1,IL1B,LPIN2,SLC2A3,ZBTB16	
3-deoxy-2-octulosonic acid(2)k	chemical - endogenous non-mar			4.75E-02	Cd2,IL1B	
pCPT-cAMP	chemical - kinase inhibitor			4.75E-02	JUN,PRKG1	
Sod	group			4.75E-02	Cd2,ICAM1	
Indosan	chemical drug			4.75E-02	JUN,NQO1	
Angiotensin II receptor type 1	group			4.75E-02	GAP43,SERPINE1	
ZC3H14	other			4.75E-02	BATF,Vmn3	
PPP1R1B	phosphatase			4.75E-02	CASP3,CD44	
SMYD3	enzyme			4.75E-02	CEBPD,NEURL1	
HSPB1	other	1.504		4.75E-02	Cd2,IL1B	
HCP2	transporter			4.75E-02	HK2,IL1B	
TNFRSF21	transmembrane receptor			4.75E-02	CASP3,CD28	
INHBB	growth factor			4.75E-02	Hamp/Hamp2,SERPINE1	
PHB2	transcription regulator			4.75E-02	BMP2,ILGST	
IL-17i dimer	complex			4.75E-02	CSF3,IL1B	
PHLPP1	enzyme			4.75E-02	CEBPD,Vmn3	
PSMB8	peptidase			4.75E-02	NFKBIA,TNFAIP3	
LBP	transporter			4.75E-02	CD14,IL1B	
me-515	microRNA			4.75E-02	CD44,SERPINE1	
me-7	microRNA			4.75E-02	KLK4,SLC2A3	
LAMA5	other			4.75E-02	Cd2,CSF3	
KLK10	transcription regulator			4.75E-02	GATA3,SERPINE1	
DDX17	enzyme			4.75E-02	FOSL1,JUN	
NR200	group			4.75E-02	JUN,LRP1	
CCA2	other			4.75E-02	CASP3,AT52	

GAB1	1.515	other				4.75E-02	CASP3,IL1B	
C5		other				4.75E-02	Cd2,IL1B	
batimastat		chemical - protease inhibitor				4.75E-02	ANG,SDC4	
cerulenin		chemical drug				4.75E-02	Cd2,IL1B	
pyruvaldehyde		chemical - endogenous mamma				4.75E-02	ICAM1,NQO1	
bombesin		chemical - endogenous mamma				4.75E-02	KLK3,ZB1B16	
SMAD2		transcription regulator		-0.317	bias	4.77E-02	CRISPLD2,GADD45B,Hamp,Hamp2,RUNX2,SERPINE1	
CD3E		transmembrane receptor				4.81E-02	FAS,JUN,LCP2,NFKBIA	
SGK1		kinase	Activated	2.000	bias	4.81E-02	CEBPA,SLC2A3,SLC34A2,SMO	
sulindac		chemical drug				4.81E-02	CXNA2,IL1B,NQO1,SERPINE1	
INS		other		1.432		4.82E-02	APOA1,Cd2,FADS3,FAS,FOSL1,ICAM1,JUN	
cocaine		chemical drug	Activated	2.415	bias	4.85E-02	Cd2,FOSL1,GADD45B,ICAM1,JUN,LAMC2,MEST,Tpm1	
PXR ligand-PXR-Retinoic acid4		complex				4.97E-02	ALAS1,CYP3A7,UGT1A7 (includes others)	
FOX P1		transcription regulator				4.97E-02	DMD,GAP43,JUN	
progesterol		chemical drug				4.97E-02	HK2,ICAM1,NFKBIA	
miR-124-3p (and other miRNAs)		mature microRNA	Inhibited	-2.978	bias	5.00E-02	B4GALT1,BTG3,Cd2,CDC47,CEBPA,F11R,JAG1,LITAF,TSC22D4	
NR3C2		ligand-dependent nuclear recep		1.954		5.89E-02	BCL2A1,BMP4,Cd2,ICAM1,IL1B,SERPINE1	
DNMT3A		enzyme	Inhibited	-2.000		2.09E-01	BLNK,IRF5,PLCB4,SDC4,Tcf7	