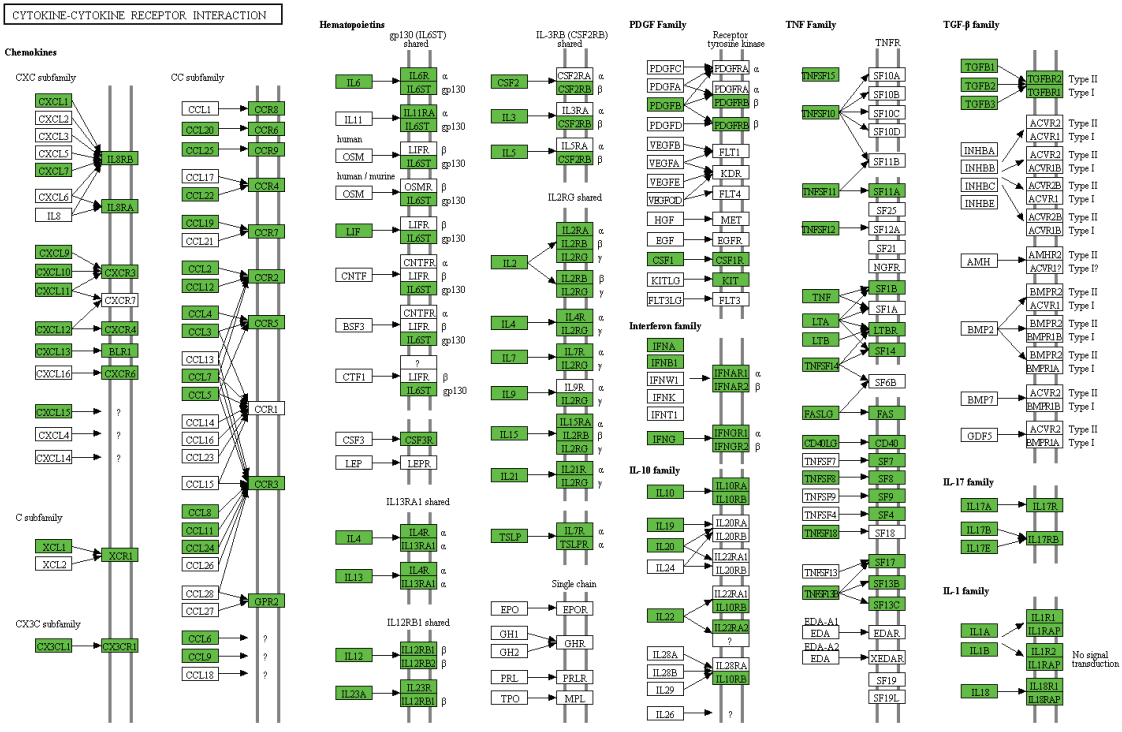
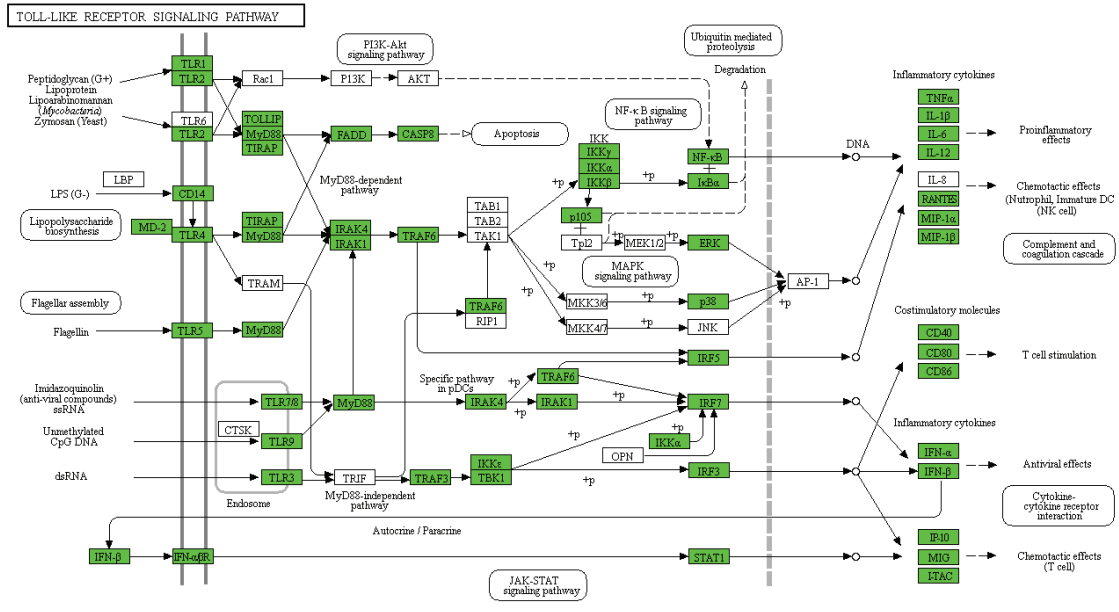
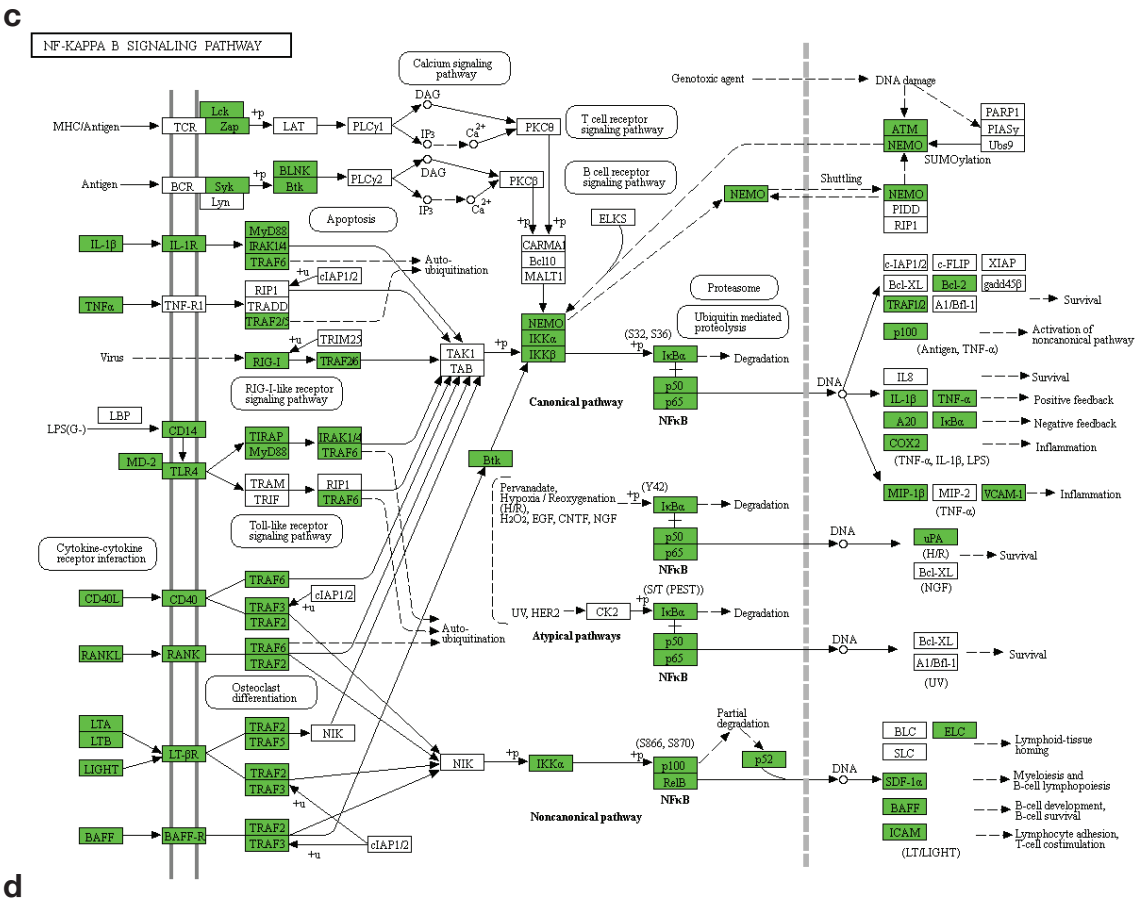
# Supplementary Figure 1

## a

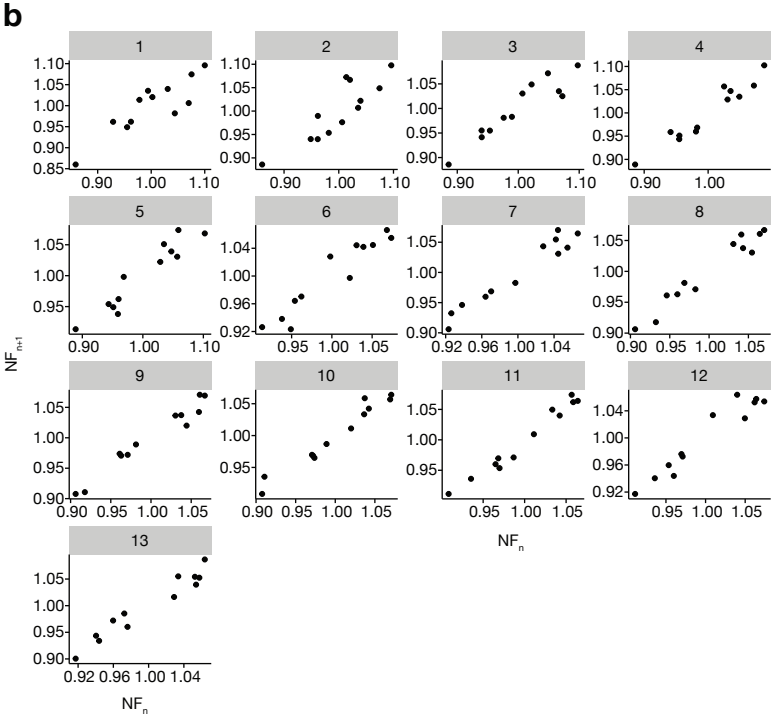


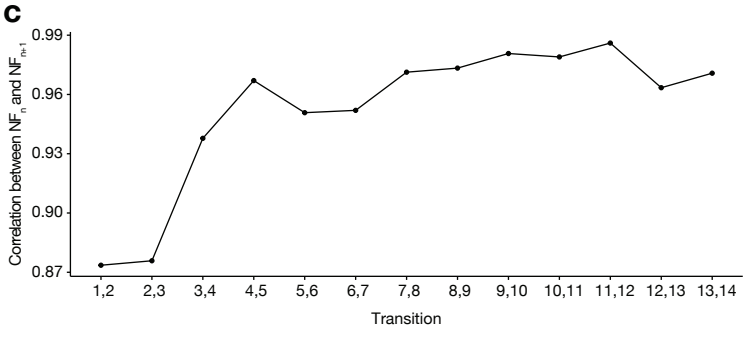

## b



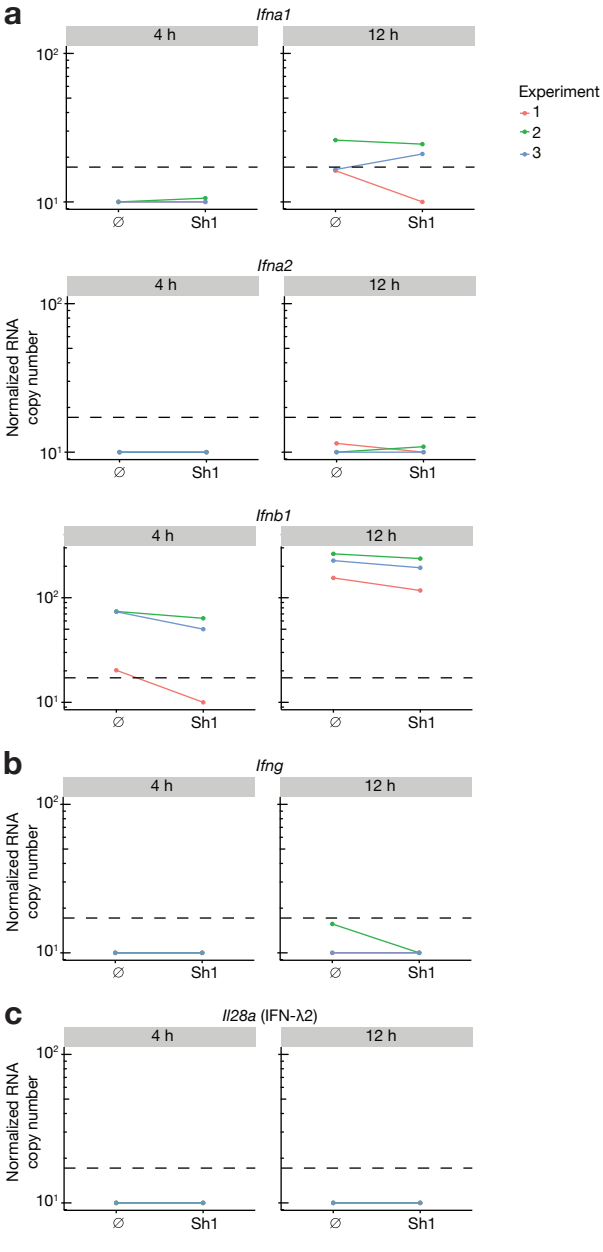

c
NF-KAPPA B SIGNALING PATHWAY
Calcium signaling pathway
Genotoxic agent
DNA damage
MHC/Antigen
TCR
Lck
Zap
LAT
PLCγ1
DAG
IP3
Ca2+
PKCθ
T cell receptor signaling pathway
PARP1
PIASy
Ubc9
SUMOylation
ATM
NEMO
Antigen
BCR
Syk
Lyn
BLNK
Btk
PLCγ2
B cell receptor signaling pathway
Shuttling
FIDD
RIP1
Apoptosis
ELKS
IL-1β
IL-1R
MyD88
IRAK1/4
TRAF6
CARMA1
Bcl10
MALT1
Auto-ubiquitination
cIAP1/2
TNFα
TNF-R1
RIP1
TRADD
TRAF2/5
Proteasome
Ubiquitin mediated proteolysis
c-IAP1/2
c-FLIP
XIAP
Bcl-XL
Bcl-2
gadd45β
TRAF1/2
A1/Bfl-1
Survival
p100
Activation of noncanonical pathway
(Antigen, TNF-α)
Virus
RIG-I
TRAF2/6
TRIM25
TAK1
TAB
NEMO
IKKα
IKKβ
(S32, S36)
IκBα
Degradation
p50
p65
NFκB
Canonical pathway
DNA
IL8
Survival
IL-1β
TNF-α
Positive feedback
A20
IκBα
Negative feedback
COX2
Inflammation
(TNF-α, IL-1β, LPS)
RIG-I-like receptor signaling pathway
LBP
LPS(G-)
CD14
MD-2
TLR4
TIRAP
MyD88
IRAK1/4
TRAF6
TRAM
TRIF
RIP1
TRAF6
Btk
Pervanadate, Hypoxia / Reoxygenation (H/R), H2O2, EGF, CNTF, NGF
(Y42)
MIP-1β
MIP-2
VCAM-1
Inflammation
(TNF-α)
Toll-like receptor signaling pathway
Cytokine-cytokine receptor interaction
DNA
uPA
(H/R)
Survival
Bcl-XL
(NGF)
CD40L
CD40
TRAF6
TRAF3
TRAF2
cIAP1/2
(S/T (PEST))
UV, HER2
CK2
Atypical pathways
RANKL
RANK
Osteoclast differentiation
Bcl-XL
A1/Bfl-1
Survival
(UV)
LTA
LTB
LIGHT
LTβR
NIK
IKKα
(S866, S870)
Partial degradation
p52
p100
RelB
BLC
ELC
SLC
SDF-1α
BAFF
ICAM
Lymphoid-tissue homing
Myeloiesis and B-cell lymphopoiesis
B-cell development, B-cell survival
Lymphocyte adhesion, T-cell costimulation
(LT/LIGHT)
BAFF
BAFF-R
Noncanonical pathway
d
TNF SIGNALING PATHWAY
Apoptosis
FADD
CASP10
CASP8
CASP7
CASP3
Apoptosis
Leukocyte recruitment
Ccl2
Ccl5
Ccl20
Cxcl1
Cxcl2
Cxcl3
Cxcl5
Cxcl10
Cx3cl1
Leukocyte activation
Csf1
Csf2
Surface receptors
Fas
IL18R1
Jag1
Inflammatory cytokines
IL1b
IL6
IL15
Lif
Tnf
Intracellular signaling (negative)
Bcl_3
Nfkbia
Socs3
Tnfaip3
Traf1
Intracellular signaling (positive)
Ifi47
Transcription factors
Fos
Jun
JunB
Remodeling of extracellular matrix
Mmp3
Mmp9
Mmp14
Vascular effects
Edn1
Vegfc
PRRS
Nod2
Cell adhesion
Icam1
Sele
Vcam1
Synthesis of inflammatory mediators
Ptgs2
cIAP1/2
cIAP1/2 degradation
ITCH
c-FLIP
TNF
TNFR1
SODD
TRADD
TRAF2/5
RIP1
ASK1
TAB1/2/3
TAK1
MAPK signaling pathway
MKK4/7
JNK1/2
AP-1
MKK3/6
p38
c/EBPβ
Tpl2
NF-κB
MSK1/2
CREB
DNA
MEK1
ERK1/2
NIK
IKKβ
IKKα
IKKγ
IκBα
NF-κB
Ubiquitin mediated proteolysis
IκBα ubiquitination and degradation
NF-kappa B signaling pathway
Deubiquitination
RIP1
RIP3
MLKL
PGAM5L
PGAM5S
Drp1
Necroptosis
Necrosome
PI3K-Akt signaling pathway
PI3K
Akt
NIK
IKKs
NF-κB
IκBα
Degradation
(Limited expression)
TNFLTA
TNFR2
TRAF1
TRAF2
TRAF3
cIAP1/2
RIP
MKK3
p38
Cell survival
AIP1
JNK
c-Jun
Apoptosis

# Supplementary Figure 2

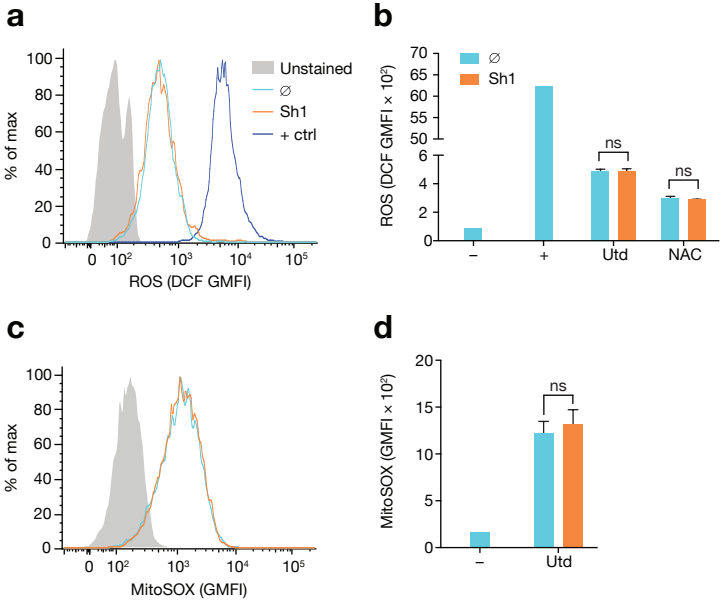


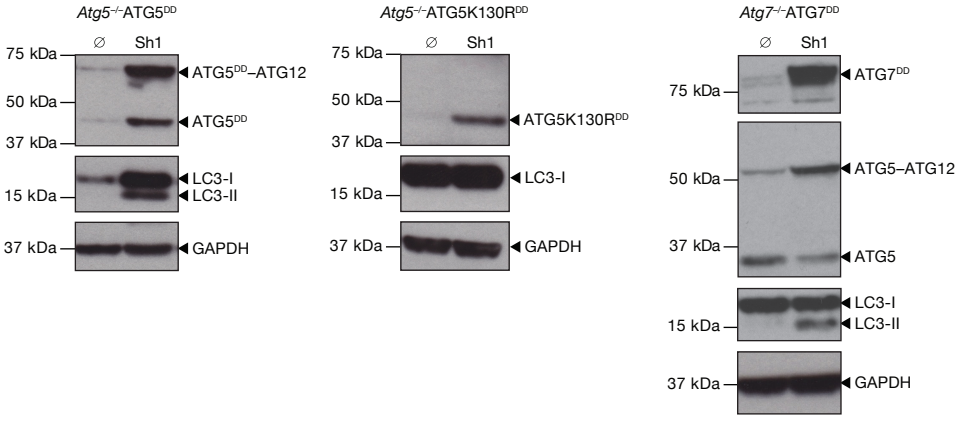
# Supplementary Figure 3



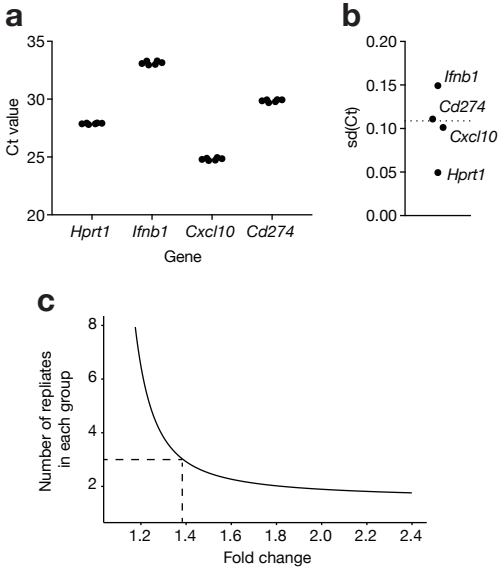
# Supplementary Figure 4



# Supplementary Figure 5



# Supplementary Figure 6



# Table S1

## 4 h

| | Gene | t-statistic | p-value | q-value | FC | z-value |
|---|---|---|---|---|---|---|
| 1 | *Cd3eap* | -2730.5 | 1.34E-07 | 3.25E-05 | 0.88276 | 1.236401 |
| 2 | *Cd24a* | -77.591 | 0.00017 | 0.02009 | 0.87429 | 0.732589 |
| 3 | *Il6st* | 27.9668 | 0.00128 | 0.10294 | 1.03372 | 0.138452 |
| 4 | *Cxcl10* | 13.6059 | 0.00536 | 0.30754 | 1.40089 | 1.10446 |
| 5 | *Ahr* | -12.371 | 0.00647 | 0.30754 | 0.88044 | 0.402119 |
| 6 | *Tlr3* | 10.2275 | 0.00943 | 0.30754 | 1.31015 | 0.789482 |
| 7 | *Maf* | -9.0192 | 0.01207 | 0.30754 | 0.87179 | 0.379728 |
| 8 | *Il1rn* | -8.5344 | 0.01345 | 0.30754 | 0.85855 | 0.411692 |
| 9 | *Psmd7* | -8.0044 | 0.01525 | 0.30754 | 0.98005 | 0.052827 |
| 10 | *Nfkbiz* | 7.86164 | 0.0158 | 0.30754 | 1.08673 | 0.21615 |
| 11 | *Notch2* | -7.5673 | 0.01702 | 0.30754 | 0.96737 | 0.084681 |
| 12 | *Pml* | 7.28403 | 0.01833 | 0.30754 | 1.1731 | 0.400024 |
| 13 | *Cd274* | 6.82393 | 0.02081 | 0.30754 | 1.63318 | 1.190183 |
| 14 | *Ifih1* | 6.58922 | 0.02227 | 0.30754 | 1.21285 | 0.460012 |
| 15 | *Il6* | 6.47391 | 0.02304 | 0.30754 | 1.3499 | 0.708813 |
| 16 | *Mx1* | 6.04646 | 0.02628 | 0.30754 | 1.37267 | 0.72221 |
| 17 | *Tgfbi* | -5.9061 | 0.02749 | 0.30754 | 0.72959 | 0.709921 |
| 18 | *Itga6* | -5.9053 | 0.0275 | 0.30754 | 0.9387 | 0.142445 |
| 19 | *Klra4* | 5.77515 | 0.0287 | 0.30754 | 1.13367 | 0.279135 |
| 20 | *Tlr2* | 5.57668 | 0.03068 | 0.30754 | 1.16966 | 0.342093 |
| 21 | *Casp2* | 5.37019 | 0.03297 | 0.30754 | 1.07981 | 0.164166 |
| 22 | *Cd80* | 5.3628 | 0.03306 | 0.30754 | 1.03687 | 0.077348 |
| 23 | *Tapbp* | 5.35903 | 0.0331 | 0.30754 | 1.17895 | 0.351538 |
| 24 | *B2m* | 5.18974 | 0.03518 | 0.30754 | 1.06641 | 0.13485 |
| 25 | *Socs1* | 5.07328 | 0.03673 | 0.30754 | 1.18343 | 0.348672 |
| 26 | *C1qbp* | -5.0347 | 0.03726 | 0.30754 | 0.96165 | 0.080605 |
| 27 | *Ccl2* | 5.0334 | 0.03728 | 0.30754 | 1.15082 | 0.28951 |
| 28 | *Atg16l1* | -5.0156 | 0.03753 | 0.30754 | 0.96668 | 0.069706 |
| 29 | *Irgm1* | 4.96889 | 0.0382 | 0.30754 | 1.23329 | 0.428957 |
| 30 | *Il15ra* | 4.94069 | 0.03861 | 0.30754 | 1.22106 | 0.407223 |
| 31 | *Ifit2* | 4.83984 | 0.04014 | 0.30754 | 1.24129 | 0.435467 |
| 32 | *Gpi1* | -4.8063 | 0.04067 | 0.30754 | 0.83989 | 0.350099 |
| 33 | *Gm10499* | 4.3207 | 0.04961 | 0.3274 | 1.29568 | 0.48747 |
| 34 | *Cd109* | -4.3139 | 0.04976 | 0.3274 | 0.98599 | 0.026525 |
| 35 | *Ddx58* | 4.26495 | 0.05082 | 0.3274 | 1.1133 | 0.200364 |
| 36 | *Tap1* | 4.26323 | 0.05086 | 0.3274 | 1.27006 | 0.446167 |
| 37 | *Ifi204* | 4.20985 | 0.05206 | 0.3274 | 1.1944 | 0.328953 |
| 38 | *Lef1* | -4.1638 | 0.05313 | 0.3274 | 0.81642 | 0.373004 |
| 39 | *Tgfb1* | -4.0411 | 0.05613 | 0.3274 | 0.94348 | 0.104992 |
| 40 | *Igf2r* | -4.0245 | 0.05656 | 0.3274 | 0.84591 | 0.301184 |
| 41 | *Ikbkg* | 4.01273 | 0.05686 | 0.3274 | 1.19221 | 0.315832 |
| 42 | *Stat1* | 3.9639 | 0.05815 | 0.3274 | 1.23012 | 0.369159 |
| 43 | *Bst2* | 3.96293 | 0.05817 | 0.3274 | 1.14567 | 0.242351 |
| 44 | *Irf7* | 3.88165 | 0.06042 | 0.33229 | 1.20254 | 0.324318 |
| 45 | *Bcl2* | -3.712 | 0.06552 | 0.34629 | 0.86214 | 0.253307 |
| 46 | *Itgb1* | -3.6637 | 0.06709 | 0.34629 | 0.98518 | 0.025282 |
| 47 | *Mif* | -3.6432 | 0.06777 | 0.34629 | 0.97767 | 0.038087 |
| 48 | *Stat3* | 3.61622 | 0.06868 | 0.34629 | 1.05345 | 0.087374 |
| 49 | *Tollip* | -3.4918 | 0.07313 | 0.35066 | 0.90736 | 0.159303 |
| 50 | *Stat2* | 3.47182 | 0.07389 | 0.35066 | 1.39396 | 0.542174 |
| 51 | *Il1r1* | -3.3575 | 0.07842 | 0.35066 | 0.9185 | 0.135593 |
| 52 | *Pdgfrb* | -3.3435 | 0.079 | 0.35066 | 0.7443 | 0.469668 |
| 53 | *Myd88* | 3.27874 | 0.08177 | 0.35066 | 1.13395 | 0.197204 |
| 54 | *Irf1* | 3.26307 | 0.08247 | 0.35066 | 1.17154 | 0.247532 |
| 55 | *Crlf2* | -3.2458 | 0.08324 | 0.35066 | 0.89882 | 0.166162 |
| 56 | *Ifi35* | 3.24024 | 0.08349 | 0.35066 | 1.1267 | 0.185595 |
| 57 | *Fas* | 3.22168 | 0.08434 | 0.35066 | 1.16529 | 0.237022 |
| 58 | *Cxcl12* | -3.2083 | 0.08496 | 0.35066 | 0.93781 | 0.099184 |
| 59 | *Tfrc* | 3.19679 | 0.08549 | 0.35066 | 1.0405 | 0.061182 |
| 60 | *Casp3* | 3.14787 | 0.08783 | 0.35423 | 1.07413 | 0.108985 |
| 61 | *Jak2* | 3.10007 | 0.0902 | 0.35783 | 1.0895 | 0.129207 |
| 62 | *Hif1a* | 3.00506 | 0.09519 | 0.37154 | 1.02316 | 0.033739 |
| 63 | *H2.DMa* | 2.91815 | 0.10011 | 0.3716 | 1.21577 | 0.281739 |
| 64 | *Phlpp2* | -2.8892 | 0.10183 | 0.3716 | 0.95988 | 0.058602 |
| 65 | *Pdgfb* | -2.8823 | 0.10224 | 0.3716 | 0.77622 | 0.361935 |
| 66 | *Tnfaip6* | 2.88179 | 0.10227 | 0.3716 | 1.18644 | 0.244228 |
| 67 | *Fn1* | -2.8718 | 0.10288 | 0.3716 | 0.93414 | 0.097083 |
| 68 | *Traf5* | 2.8318 | 0.10536 | 0.37496 | 1.15553 | 0.203821 |
| 69 | *C1ra* | -2.7875 | 0.10821 | 0.37951 | 0.90497 | 0.139122 |
| 70 | *Tnfsf10* | 2.72291 | 0.11256 | 0.38701 | 1.22429 | 0.276943 |
| 71 | *Il10rb* | -2.7087 | 0.11354 | 0.38701 | 0.94591 | 0.075798 |
| 72 | *Jak3* | 2.6717 | 0.11618 | 0.39028 | 1.16211 | 0.20263 |
| 73 | *Ptger4* | -2.623 | 0.11978 | 0.39028 | 0.82402 | 0.257357 |
| 74 | *Il6ra* | -2.6168 | 0.12025 | 0.39028 | 0.96927 | 0.041424 |
| 75 | *Pdcd2* | -2.6076 | 0.12095 | 0.39028 | 0.89553 | 0.146033 |
| 76 | *Pparg* | -2.527 | 0.12736 | 0.40435 | 0.91202 | 0.118905 |
| 77 | *Prkcd* | -2.5114 | 0.12866 | 0.40435 | 0.95956 | 0.053036 |
| 78 | *Ly96* | 2.44426 | 0.13444 | 0.40688 | 1.09302 | 0.111833 |
| 79 | *Irf5* | 2.44407 | 0.13445 | 0.40688 | 1.16408 | 0.191006 |
| 80 | *Ifngr1* | -2.4309 | 0.13563 | 0.40688 | 0.98758 | 0.015649 |
| 81 | *Bcl6* | -2.4248 | 0.13619 | 0.40688 | 0.9085 | 0.119879 |
| 82 | *Casp8* | -2.3741 | 0.14087 | 0.41575 | 0.95244 | 0.05984 |
| 83 | *Cd99* | -2.318 | 0.14634 | 0.42667 | 0.93022 | 0.087103 |
| 84 | *Tnfrsf1b* | 2.27972 | 0.15023 | 0.4328 | 1.08917 | 0.101443 |
| 85 | *Npc1* | -2.2544 | 0.15288 | 0.43416 | 0.96818 | 0.038053 |
| 86 | *Ikbkap* | -2.2412 | 0.15429 | 0.43416 | 0.98277 | 0.020356 |
| 87 | *Psmb10* | 2.21713 | 0.15691 | 0.43646 | 1.21087 | 0.22204 |
| 88 | *Mme* | -2.158 | 0.1636 | 0.4499 | 0.83527 | 0.204167 |
| 89 | *Tyk2* | -2.1363 | 0.16616 | 0.4518 | 0.84547 | 0.188768 |
| 90 | *Runx1* | 2.11159 | 0.16913 | 0.45477 | 1.0637 | 0.068756 |
| 91 | *Rae1* | -2.0481 | 0.17712 | 0.46199 | 0.97849 | 0.023583 |
| 92 | *H2.K1* | 2.04567 | 0.17743 | 0.46199 | 1.15052 | 0.151912 |
| 93 | *Il1rap* | 2.03858 | 0.17835 | 0.46199 | 1.06075 | 0.063702 |
| 94 | *Fyn* | -2.0302 | 0.17945 | 0.46199 | 0.96255 | 0.041081 |
| 95 | *Bax* | -2.0037 | 0.18299 | 0.46505 | 0.9573 | 0.046431 |
| 96 | *Ptk2* | 1.99284 | 0.18448 | 0.46505 | 1.04502 | 0.046636 |
| 97 | *Litaf* | 1.96998 | 0.18765 | 0.46816 | 1.04183 | 0.042957 |
| 98 | *Plaur* | -1.9321 | 0.19307 | 0.47676 | 0.96295 | 0.038907 |
| 99 | *Jak1* | -1.8753 | 0.20158 | 0.48504 | 0.98846 | 0.011647 |
| 100 | *Ikbke* | 1.84257 | 0.20672 | 0.48504 | 1.10617 | 0.099663 |

## 12 h

| | Gene | t-statistic | p-value | q-value | FC | z-value |
|---|---|---|---|---|---|---|
| 1 | *Cd274* | 27.0385 | 0.00137 | 0.09074 | 1.54174 | 1.789278 |
| 2 | *Ctsc* | 24.6834 | 0.00164 | 0.09074 | 1.08992 | 0.346062 |
| 3 | *Irf1* | 24.4996 | 0.00166 | 0.09074 | 1.23335 | 0.840984 |
| 4 | *Psmb10* | 24.4885 | 0.00166 | 0.09074 | 1.35075 | 1.205411 |
| 5 | *Ly96* | -20.391 | 0.0024 | 0.09074 | 0.80019 | 0.842688 |
| 6 | *Ifngr2* | 19.2717 | 0.00268 | 0.09074 | 1.07263 | 0.260134 |
| 7 | *Csf1* | 19.1991 | 0.0027 | 0.09074 | 1.10386 | 0.366137 |
| 8 | *Ahr* | -18.443 | 0.00293 | 0.09074 | 0.94623 | 0.202037 |
| 9 | *Pml* | 14.8064 | 0.00453 | 0.12484 | 1.12305 | 0.392405 |
| 10 | *Muc1* | 13.3608 | 0.00556 | 0.13777 | 1.14852 | 0.450565 |
| 11 | *Ccl5* | 12.0997 | 0.00676 | 0.14661 | 1.31962 | 0.868259 |
| 12 | *Irf3* | 11.8096 | 0.00709 | 0.14661 | 1.32068 | 0.862403 |
| 13 | *Ptpn22* | 9.75634 | 0.01034 | 0.19038 | 1.4811 | 1.12504 |
| 14 | *Ifi35* | 9.56828 | 0.01075 | 0.19038 | 1.07836 | 0.214275 |
| 15 | *Tapbp* | 8.22536 | 0.01446 | 0.23154 | 1.19179 | 0.465719 |
| 16 | *Tnfsf10* | 7.83174 | 0.01592 | 0.23154 | 1.2706 | 0.621295 |
| 17 | *Il1rap* | 7.61022 | 0.01683 | 0.23154 | 1.09116 | 0.223263 |
| 18 | *Vcam1* | 7.54852 | 0.0171 | 0.23154 | 1.43893 | 0.927649 |
| 19 | *Nfkbia* | 7.06461 | 0.01945 | 0.23154 | 1.09894 | 0.23288 |
| 20 | *Nfil3* | 6.89357 | 0.0204 | 0.23154 | 1.12627 | 0.289972 |
| 21 | *Irak1* | -6.8707 | 0.02053 | 0.23154 | 0.94913 | 0.127102 |
| 22 | *Abcb10* | 6.65965 | 0.02181 | 0.23154 | 1.06262 | 0.145579 |
| 23 | *Zbtb7b* | -6.3467 | 0.02394 | 0.23154 | 0.87822 | 0.303674 |
| 24 | *Ifngr1* | 6.12621 | 0.02563 | 0.23154 | 1.0371 | 0.083621 |
| 25 | *Ptpn6* | 6.01936 | 0.02651 | 0.23154 | 1.34012 | 0.66591 |
| 26 | *Tap1* | 5.7224 | 0.02921 | 0.23154 | 1.28738 | 0.559235 |
| 27 | *Eef1g* | -5.7087 | 0.02934 | 0.23154 | 0.975 | 0.055981 |
| 28 | *H2.K1* | 5.50763 | 0.03142 | 0.23154 | 1.17989 | 0.358643 |
| 29 | *Tfrc* | 5.45089 | 0.03205 | 0.23154 | 1.18185 | 0.360174 |
| 30 | *Ifi204* | 5.31563 | 0.03362 | 0.23154 | 1.2553 | 0.483335 |
| 31 | *Fyn* | -5.2626 | 0.03426 | 0.23154 | 0.91158 | 0.195688 |
| 32 | *Cd74* | 5.25979 | 0.0343 | 0.23154 | 1.22115 | 0.422189 |
| 33 | *B2m* | 5.24762 | 0.03445 | 0.23154 | 1.09006 | 0.181987 |
| 34 | *Ifih1* | 5.13278 | 0.03592 | 0.23154 | 1.15392 | 0.29838 |
| 35 | *Stat1* | 5.12504 | 0.03603 | 0.23154 | 1.13328 | 0.260534 |
| 36 | *Tnfaip6* | 5.00762 | 0.03764 | 0.23154 | 1.37595 | 0.655798 |
| 37 | *Irgm1* | 4.91887 | 0.03893 | 0.23154 | 1.18558 | 0.34621 |
| 38 | *Tlr2* | 4.89733 | 0.03926 | 0.23154 | 1.35169 | 0.611321 |
| 39 | *Tollip* | -4.816 | 0.04051 | 0.23154 | 0.86409 | 0.293447 |
| 40 | *Tlr3* | 4.76894 | 0.04127 | 0.23154 | 1.42878 | 0.712667 |
| 41 | *Il13ra1* | 4.72633 | 0.04197 | 0.23154 | 1.21507 | 0.387015 |
| 42 | *Lif* | 4.66255 | 0.04305 | 0.23154 | 1.30324 | 0.521964 |
| 43 | *Cd44* | 4.62044 | 0.04379 | 0.23154 | 1.0484 | 0.092653 |
| 44 | *Irf7* | 4.61641 | 0.04386 | 0.23154 | 1.15654 | 0.284911 |
| 45 | *Atm* | 4.61556 | 0.04387 | 0.23154 | 1.09359 | 0.175258 |
| 46 | *Cxcl10* | 4.56344 | 0.04482 | 0.23154 | 1.46645 | 0.744853 |
| 47 | *Bcl6* | 4.52262 | 0.04557 | 0.23154 | 1.11209 | 0.205576 |
| 48 | *Ddx58* | 4.51636 | 0.04569 | 0.23154 | 1.1003 | 0.184798 |
| 49 | *Cebpb* | -4.5134 | 0.04575 | 0.23154 | 0.9007 | 0.202123 |
| 50 | *Bax* | -4.4083 | 0.0478 | 0.23709 | 0.94097 | 0.115916 |
| 51 | *Lck* | 4.31939 | 0.04964 | 0.24139 | 1.23334 | 0.394592 |
| 52 | *Pdcd2* | -4.2327 | 0.05154 | 0.24158 | 0.93437 | 0.126116 |
| 53 | *Pou2f2* | 4.19193 | 0.05247 | 0.24158 | 1.2543 | 0.418438 |
| 54 | *Il6st* | 4.18616 | 0.0526 | 0.24158 | 1.07495 | 0.133352 |
| 55 | *Nfkb2* | 4.0054 | 0.05705 | 0.25724 | 1.04612 | 0.080902 |
| 56 | *Tmem173* | 3.91985 | 0.05935 | 0.26072 | 1.16342 | 0.267848 |
| 57 | *Fcgr2b* | 3.86375 | 0.06093 | 0.26072 | 1.2702 | 0.419301 |
| 58 | *Il6* | 3.86215 | 0.06097 | 0.26072 | 1.54922 | 0.767232 |
| 59 | *Ccl2* | 3.77162 | 0.06366 | 0.26758 | 1.33275 | 0.495681 |
| 60 | *Cxcl11* | 3.73072 | 0.06493 | 0.26837 | 1.7343 | 0.943343 |
| 61 | *Ski* | -3.6561 | 0.06734 | 0.2703 | 0.92041 | 0.140201 |
| 62 | *Ncam1* | -3.6491 | 0.06757 | 0.2703 | 0.88338 | 0.20935 |
| 63 | *Tgfb1* | -3.5938 | 0.06946 | 0.27186 | 0.95151 | 0.083065 |
| 64 | *Ifit2* | 3.5738 | 0.07016 | 0.27186 | 1.18303 | 0.279807 |
| 65 | *Ifnb1* | 3.5292 | 0.07175 | 0.27377 | 1.1967 | 0.296408 |
| 66 | *Npc1* | -3.4362 | 0.07526 | 0.2799 | 0.77645 | 0.410104 |
| 67 | *Cxcl1* | 3.42692 | 0.07562 | 0.2799 | 1.56208 | 0.72156 |
| 68 | *Igf2r* | -3.3691 | 0.07794 | 0.28107 | 0.89557 | 0.176346 |
| 69 | *Stat2* | 3.36274 | 0.0782 | 0.28107 | 1.24358 | 0.348081 |
| 70 | *Itgb1* | -3.2336 | 0.08379 | 0.28901 | 0.96121 | 0.061467 |
| 71 | *Fadd* | -3.2046 | 0.08512 | 0.28901 | 0.91115 | 0.143637 |
| 72 | *Tnfaip3* | 3.20323 | 0.08519 | 0.28901 | 1.20207 | 0.283998 |
| 73 | *Ptgs2* | 3.19396 | 0.08562 | 0.28901 | 1.162 | 0.231208 |
| 74 | *Nfatc3* | 3.16889 | 0.08681 | 0.28901 | 1.04441 | 0.066545 |
| 75 | *Plaur* | 3.15663 | 0.0874 | 0.28901 | 1.05977 | 0.088656 |
| 76 | *Stat3* | 3.08119 | 0.09116 | 0.29747 | 1.0723 | 0.104764 |
| 77 | *H2.DMa* | 3.02586 | 0.09406 | 0.30248 | 1.11307 | 0.158652 |
| 78 | *Fn1* | -3.0004 | 0.09544 | 0.30248 | 0.91486 | 0.130978 |
| 79 | *Mx1* | 2.98023 | 0.09656 | 0.30248 | 1.44771 | 0.541888 |
| 80 | *Ets1* | 2.96215 | 0.09757 | 0.30248 | 1.12407 | 0.170533 |
| 81 | *Fcgrt* | 2.93505 | 0.09912 | 0.30349 | 1.04973 | 0.070288 |
| 82 | *Cd99* | -2.9045 | 0.10091 | 0.30519 | 0.95056 | 0.072856 |
| 83 | *Runx1* | 2.8701 | 0.10298 | 0.30771 | 1.06598 | 0.091003 |
| 84 | *App* | -2.8275 | 0.10563 | 0.31186 | 0.93325 | 0.097297 |
| 85 | *Nfkb1* | 2.77921 | 0.10875 | 0.3173 | 1.07285 | 0.097756 |
| 86 | *Hlx* | 2.75226 | 0.11055 | 0.31841 | 1.04624 | 0.06237 |
| 87 | *Itga2b* | 2.73536 | 0.1117 | 0.31841 | 1.18339 | 0.231258 |
| 88 | *Tyk2* | 2.68412 | 0.11529 | 0.32057 | 1.13083 | 0.166417 |
| 89 | *Tslp* | 2.67085 | 0.11624 | 0.32057 | 1.41754 | 0.470484 |
| 90 | *Tbk1* | -2.6696 | 0.11634 | 0.32057 | 0.91726 | 0.116416 |
| 91 | *Ptpn2* | 2.63006 | 0.11925 | 0.32217 | 1.03161 | 0.041462 |
| 92 | *Mapk11* | 2.60032 | 0.12152 | 0.32217 | 1.19203 | 0.231976 |
| 93 | *C1qbp* | -2.5856 | 0.12266 | 0.32217 | 0.99192 | 0.010663 |
| 94 | *Stat5a* | -2.5507 | 0.12543 | 0.32217 | 0.84227 | 0.223276 |
| 95 | *Psmb9* | 2.51895 | 0.12803 | 0.32217 | 1.36015 | 0.396152 |
| 96 | *Stat6* | -2.5184 | 0.12807 | 0.32217 | 0.92466 | 0.100856 |
| 97 | *Tlr4* | -2.5083 | 0.12891 | 0.32217 | 0.90911 | 0.12231 |
| 98 | *Gpi1* | 2.50465 | 0.12922 | 0.32217 | 1.13822 | 0.16598 |
| 99 | *Ccl7* | 2.49864 | 0.12973 | 0.32217 | 1.19287 | 0.225676 |
| 100 | *Prim1* | -2.4896 | 0.13049 | 0.32217 | 0.9383 | 0.081264 |