

Table S1 Primers of the analyzed genes

Gene name	Forward primer	Reverse primer
<i>GAPDH</i>	AAGGTGAAGGTCGGAGTCAA	AATGAAGGGGTCATTGATGG
<i>MIR3142HG</i>	TGGCTCAGAACTCCGATT	CCTACTCCTCACAGATACAC
<i>LOC105374444</i>	AGCCCTCTTTGGTCAACTCC	TGGTTGCAGCATTGTCTTGG
<i>LOC105371619</i>	ATGTCTGTAGCATGCGGCTT	TTTCAGAAAACAGGCCCCG
<i>PACERR</i>	CCGTGTCTGGTCTGTACGTC	AACCTTACTCGCCCCAGTCT
<i>LOC105375914</i>	ACGCAAGCTGGGTTATTGGA	AGCAACTGTGGTTGTAGAT
<i>CXCL1</i>	CTCTTCTCCCTAGGAGCGTC	GATGCAGGATTGAGGCAAGC
<i>CXCL8</i>	ACTGAGAGTGATTGAGAGTGGAC	AACCCTCTGCACCCAGTTTTTC
<i>CXCL10</i>	GTGGCATTCAAGGAGTACCTC	TGATGGCCTTCGATTCTGGATT
<i>CXCL11</i>	GACGCTGTCTTTGCATAGGC	GGATTTAGGCATCGTTGTCCTTT
<i>CCL20</i>	TGCTGTACCAAGAGTTTGCTC	CGCACACAGACAACCTTTTTCTTT
<i>TNF-α</i>	CCTCTCTCTAATCAGCCCTCTG	GAGGACCTGGGAGTAGATGAG
<i>CXCL9</i>	TGAGAAAGGGTCGCTGTTCC	GGGCTTGGGGCAAATTGTTT
<i>PDL1</i>	GCTGCACTAATTGTCTATTGGGA	AATTCGCTTGTAGTCGGCACC
<i>IL-1β</i>	ATGATGGCTTATTACAGTGGCAA	GTCGGAGATTTCGTAGCTGGA
<i>IL-6</i>	ACTCACCTCTTCAGAACGAATTG	CCATCTTTGGAAGTTTCAGGTTG
<i>INOS</i>	TTCAGTATCACAACCTCAGCAAG	TGGACCTGCAAGTTAAAATCCC

Table S2 GO analysis of DE mRNA

ID	Term	Category	Count	Fold enrichment	P value
GO:0051607	Defense response to virus	Biological process	47	10.03	4.03E-34
GO:0060337	Type I interferon signaling pathway	Biological process	26	13.95	1.30E-23
GO:0060333	Interferon-gamma-mediated signaling pathway	Biological process	26	12.58	3.15E-22
GO:0006954	Inflammatory response	Biological process	52	4.81	2.45E-21
GO:0009615	Response to virus	Biological process	26	8.35	3.55E-17
GO:0045071	Negative regulation of viral genome replication	Biological process	16	14.09	4.25E-15
GO:0051092	Positive regulation of NF- κ B TF activity	Biological process	26	6.77	8.34E-15
GO:0006955	Immune response	Biological process	37	3.73	5.49E-12
GO:0032496	Response to LPS	Biological process	24	5.12	4.75E-11
GO:0070098	Chemokine-mediated signaling pathway	Biological process	16	7.97	9.63E-11
GO:0008009	Chemokine activity	Molecular function	16	11.24	2.64E-13
GO:0045236	CXCR chemokine receptor binding	Molecular function	5	18.73	2.57E-06
GO:0004842	Ubiquitin-protein transferase activity	Molecular function	26	2.74	3.57E-06
GO:0003725	Double-stranded RNA binding	Molecular function	10	5.72	8.18E-06
GO:0003700	TF activity, sequence-specific DNA binding	Molecular function	47	1.85	3.69E-05
GO:0016874	Ligase activity	Molecular function	19	2.81	5.17E-05
GO:0005125	Cytokine activity	Molecular function	16	3.10	6.26E-05
GO:0004871	Signal transducer activity	Molecular function	17	2.95	6.83E-05
GO:0008270	Zinc ion binding	Molecular function	57	1.69	7.09E-05
GO:0003950	NAD ⁺ ADP-ribosyltransferase activity	Molecular function	6	7.49	1.15E-04
GO:0005737	Cytoplasm	Cellular component	189	1.37	2.51E-07
GO:0005829	Cytosol	Cellular component	136	1.50	2.92E-07
GO:0005615	Extracellular space	Cellular component	65	1.79	2.98E-06
GO:0005634	Nucleus	Cellular component	186	1.30	1.38E-05
GO:0005576	Extracellular region	Cellular component	66	1.61	7.97E-05
GO:0043657	Host cell	Cellular component	3	21.58	2.05E-04
GO:0033256	I- κ B/NF- κ B complex	Cellular component	3	21.58	2.05E-04
GO:0097342	Ripoptosome	Cellular component	3	15.41	6.88E-04
GO:0031264	Death-inducing signaling complex	Cellular component	3	15.41	6.88E-04
GO:0000932	Cytoplasmic mRNA processing body	Cellular component	8	3.74	1.32E-03

GO, gene ontology; DE, differentially-expressed; mRNAs, messenger RNAs; TF, transcription factor; LPS, lipopolysaccharide.

Table S3 Pathways with the largest significant difference of mRNA in KEGG analysis

ID	Pathway	Count	Fold enrichment	P value	Gene
hsa04621	NLR signaling pathway	38	6.67	1.39E-21	<i>CXCL8, GBP3, NAMPT, RBCK1, CXCL2, GBP4, OAS1, MAPK8, GBP2, GBP1, TICAM1, AIM2, GBP5, IFNAR2, TNFAIP3, BIRC3, IL1B, CXCL1, RIPK2, BIRC2, IRF9, MYD88, NLRP3, OAS2, IL6, RIPK1, NFKB1, PANX1, CCL2, CCL5, IFNB1, CXCL3, ANTXR2, STAT2, STAT1, CASP1, NOD1, OAS3</i>
hsa04668	TNF signaling pathway	31	8.47	4.75E-21	<i>CXCL2, FAS, ICAM1, CSF1, VCAM1, CASP7, PTGS2, MAP3K5, MAPK8, TNFAIP3, BIRC3, IL1B, CXCL1, BIRC2, IL18R1, MLKL, CCL20, LIF, MAP3K8, CX3CL1, IL6, RIPK1, MMP3, NFKB1, CCL2, CCL5, CXCL5, CXCL3, CXCL10, CFLAR, TRAF1</i>
hsa05164	Influenza A	35	5.97	2.95E-18	<i>CXCL8, FAS, ICAM1, TLR3, RSAD2, OAS1, TNFSF10, CIITA, MAPK8, HLA-DOB, TRIM25, MX1, TICAM1, IFNAR2, PML, DDX58, IL1B, EIF2AK2, IRF9, MYD88, NLRP3, OAS2, IL6, NFKB1, CCL2, CCL5, JAK2, IFNB1, CXCL10, IFNGR2, STAT2, CASP1, STAT1, OAS3, IFIH1</i>
hsa05168	Herpes simplex infection	34	5.42	2.12E-16	<i>HLA-F, FAS, SP100, TLR3, OAS1, MAPK8, HLA-DOB, CD74, TICAM1, IFNAR2, PML, TNFSF14, DDX58, IL1B, EIF2AK2, IRF9, MYD88, TRAF1, IFIT1, OAS2, NFKB1, IL6, CCL2, CCL5, JAK2, IFNB1, TAP1, TAP2, IFNGR2, STAT2, C3, STAT1, OAS3, IFIH1</i>
hsa04064	NF-kappa B signaling pathway	22	6.83	4.16E-13	<i>CXCL8, CXCL2, ICAM1, VCAM1, PTGS2, TRIM25, TICAM1, TNFAIP3, TNFSF14, BIRC3, DDX58, IL1B, BIRC2, RELB, MYD88, RIPK1, NFKB1, BCL2A1, CCL4, NFKB2, CFLAR, TRAF1</i>
hsa04060	Cytokine-cytokine receptor interaction	36	3.93	8.02E-13	<i>CXCL8, IL6R, FLT3, CXCL9, CXCL2, FAS, CSF1, IL15RA, TNFSF10, CXCL11, TNFSF9, IL1RAP, BMP2, IFNAR2, TNFSF14, IL1B, CXCL1, IL18R1, CCL7, CCL20, LIF, CXCL16, CXCL6, CX3CL1, IL6, IL7, CCL2, CCL5, IFNB1, TSLP, CXCL3, CXCL5, CXCL10, CCL4, IFNGR2, PDGFC</i>
hsa04217	Necroptosis	27	4.86	5.04E-12	<i>RBCK1, FAS, STAT4, TLR3, PLA2G4A, TNFSF10, MAPK8, TICAM1, IFNAR2, TNFAIP3, BIRC3, IL1B, EIF2AK2, MLKL, BIRC2, IRF9, NLRP3, PARP4, RIPK1, JAK2, IFNB1, IFNGR2, STAT5A, STAT2, CASP1, STAT1, CFLAR</i>
hsa04657	IL-17 signaling pathway	19	6.03	1.83E-10	<i>CXCL8, CXCL2, PTGS2, MMP13, MAPK8, TNFAIP3, IL1B, CXCL1, CCL7, CCL20, CXCL6, TRAF3IP2, IL6, NFKB1, MMP3, CCL2, CXCL5, CXCL3, CXCL10</i>
hsa05162	Measles	22	4.84	5.58E-10	<i>FAS, OAS1, TNFSF10, MX1, IFNAR2, TNFAIP3, DDX58, IL1B, EIF2AK2, IRF9, MYD88, OAS2, IL6, NFKB1, JAK2, IFNB1, IFNGR2, STAT5A, STAT2, STAT1, OAS3, IFIH1</i>
hsa04620	TLR signaling pathway	18	5.11	9.27E-09	<i>CXCL8, TICAM1, MAP3K8, IL6, RIPK1, NFKB1, IFNAR2, CXCL11, CCL5, IFNB1, MAPK8, IL1B, CXCL9, CXCL10, CCL4, STAT1, MYD88, TLR3</i>

mRNA, messenger RNA; KEGG, Kyoto Encyclopedia of Genes and Genomes; NLR, NOD-like receptor; TLR, Toll-like receptor.