

Figure S1. Stimulation of LPS on BV-2 cells. (A) The morphology of BV-2 cells after 0, 2, 4, 8, 16, 24 incubation of 1  $\mu\text{g/ml}$  LPS (magnification,  $\times 200$ ). (B) Viability of BV-2 cells after 0, 2, 4, 8, 16 and 24 h of incubation with 1.00  $\mu\text{g/ml}$  LPS determined using the Cell Counting Kit-8. The ordinate value is the OD at 450 nm in each well. (C) mRNA expression levels of TNF- $\alpha$ , IL-6 and IL-1 $\beta$  after 4 h of incubation with 0.01, 0.10 or 1.00  $\mu\text{g/ml}$  LPS. (D) Changes in mRNA expression levels of TNF- $\alpha$ , IL-6 and IL-1 $\beta$  after incubation with LPS for different durations (0, 2, 4, 8, 16, 24 h). \*\* $P < 0.010$ , compared with the group at 0 h (two-tailed Student's t-test); ## $P < 0.05$ , compared with the group of 0.10  $\mu\text{g/ml}$  (two-tailed Student's t-test). LPS, lipopolysaccharide; OD, optical density; RQ, relative quantity; (relative quantity were calculated according to the standard  $2^{-\Delta\Delta Cq}$  method using the  $Cq$  of  $\beta$ -actin to normalize).

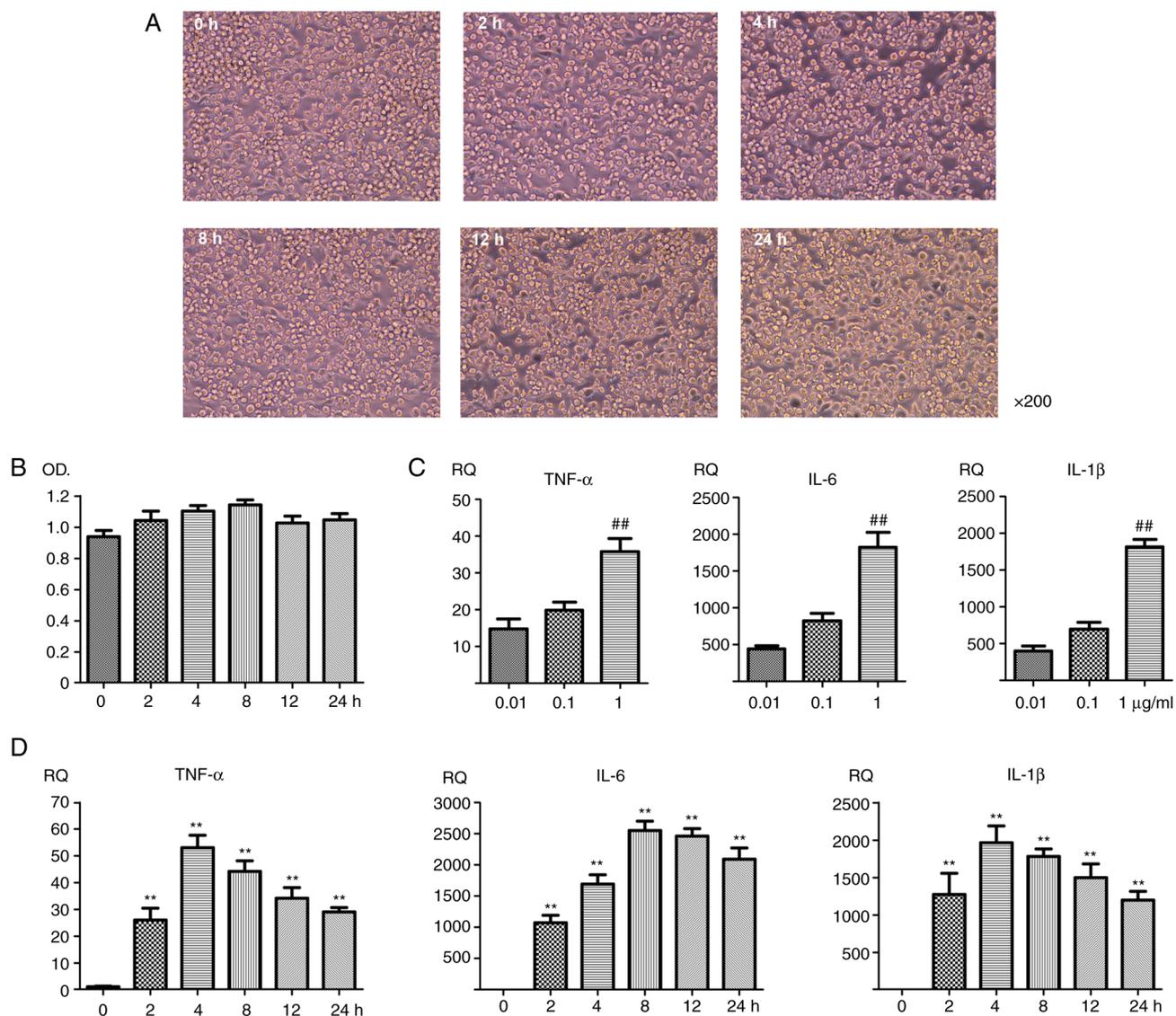


Table SI. Primers used for the validation of mRNAs.

Name	Location	Sequence (5'-3')	Size (bp)
m $\beta$ -actin	chr5: 147082924   147087599	F: GCGGACTGTTACTGAGCTGCGT R: TGCTGTGCGCCTTCACCGTTCC	217
mFpr2	chr17: 17887888   17893853	F: GAGCCTGGCTAGGAAGGTG R: TGCTGAAACCAATAAGGAACCTG	218
mTraf1	chr2: 34943258   34961772	F: TGAGGCTGAAATCATGTGCCC R: GCAGCTCTGACAGGTTCCG	200
mPou2f2	chr7: 25087344   25132488	F: AGCTGGGGACATACAGCAAC R: CGAGTCATAGCCTGTGTAGGAAG	216
mSocs1	chr16: 10782240   10785536	F: CTGCGGCTTCTATTGGGGAC R: AAAAGGCAGTCGAAGGTCTCG	216
mAgm	chr4: 156165290   156185901	F: GGGGGCTGCAATCATCAGG R: GGCCCATCACCCACTTGAA	108
mLacc1	chr14: 77024200   77036641	F: ACTCCGGCTGGAAAGGTACAT R: TGACGGTCCCAGAACAACAAT	110
mRapgef2	chr3: 79062531   79286517	F: AAATGGGTGGACATCTAAGGCT R: GCTTTGCTACACGAGTCAACG	172
mAbhd15	chr11: 77515121   77520045	F: CTGGGATCTCAACGACCCAC R: CCATGCTGGCAAGGGTTCA	205
TNF- $\alpha$	chr17: 35418357   35420983	F: TCTTCTCATTCTGCTTGTGG R: GAGGCCATTTGGGAATTCT	101
IL-6	chr5: 30218112   30224973	F: TAGTCCTTCTACCCCAATTTCC R: TTGGTCCTTAGCCACTCCTTC	76
IL-1 $\beta$	chr2: 129206490   129213059	F: TTCAGGCAGGCAGTATCACTC R: GAAGGTCCACGGGAAAGACAC	75

F, forward; R, reverse; Chr, chromosome.

Table SII. Primers used for the validation of lncRNAs and circRNAs.

Name	Location	Sequence (5'-3')	Size (bp)	DNA strand
ENSMUST00000155949.1	chr17: 62687951   6276605	F: GGAGTGCTTTAATGTGCAGT R: CCAGGGAAGCAGAGAAAC	91	-
NONMMUT144861.1	chr17: 35224801   35230491	F: GGTGATGTTCTGTGATGGC R: TGTGTTCTTCCAGACCCAA	105	+
ENSMUST00000181460.2	chr1: 150098181   150099963	F: CTCCTGATACGAACCTCAGC R: CCCACAGTACTTTGCCTTATC	112	-
NONMMUT141017.1	chr11: 81979606   82019980	F: CTGTATGGTCAACTTCTCTCG R: CTGATGAAGCTCCTGGGT	80	-
ENSMUST00000203956.1	chr6: 125083437   125084029	F: CTCTCCTCCTCTGACCTTTAC R: GTTCCTTGCACAAAGGGATT	84	+
m_Cpedia_216004R	chr17: 17427155   17427319	F: AGCTATGTGACTCTCCCTGG R: TGCTGCTTGCTTTCCCAAAT	92	+
m_Cpedia_37520	chr3: 79098219   79099230	F: GCACAGAGCTCCCGTCTTAC R: AGCTGGATTCTTGGTCAGTG	238	-
m_Cpedia_38964	chr11: 119433410   119433628	F: CCAGCACCTTCCCGATAAGC R: TGTCATTCTCTCCCGCTGAG	83	+

F, forward; R, reverse; chr, chromosome.