

**Supplementary Table 1:** Primers used in this study.

Gene name	Primer name	Primer sequence (5'-3')	Accession number/references
<b>Fathead minnow (<i>Pimephales promelas</i>) genes</b>			
Interleukin 8 (Il8)	Il8-F	CCCTCCTAGCCCTCACTGTAAA	Cheng et al., [24]
	Il8-R	GGATCTTCTCAATGACCTTCTT	
NF-κB	NF-κB-F	GGAGAGGAGGTCTATCTGCTATG	Cheng et al., [24]
	NF-κB-R	GGCTTCTGGAGGTTCTGGTC	
p53 (tumour protein 53)	p53-F	ACAGCAGTTGCATGGGTG	Chen et al., [25]
	p53-R	TGGTCTCCTGGTCTTTCC	
IFN regulatory factor 7 (Irf7)	Irf7-F	CCATTCAATTGCTGACATCTACAGT	Wang et al., [26]
	Irf7-R	GTTCTGCTCAAAGTTGCTCCTC	
Interferon (Inf)	Ifn-F	CAACAACATCATGACCCGCTACCT	Cheng et al., [24]
	Ifn-R	GTTCTCTGCCTCCGTTCTGTCCTT	
Mx1	Tnf- α-F	TGGCATGGGAGAATCAGTTACAAG	Cheng et al., [24]
	Tnf- α-R	TGCCCCAGCCATCTCATCC	
Heat Shock Protein 8B (HspB8)	HspB8-F	CGAGCAGTACGCGTGGGAGTC	Cheng et al.[24]]
	HspB8-R	AGCGTGATGGGGTAGCCGATGAAC	
β-actin	β-act-F	CCGTGCTGTCTGGAGGTA	Cheng et al., [24]
	β-act-R	AAGGAGCAAGGGAGGTGATTTC	
<b>Mouse (<i>Mus musculus</i>) genes</b>			
Toll-like receptor 2 (Tlr2)	Tlr2-F	CACTATCCGGAGGTTGCATATC	NM_011905
	Tlr2-R	GGAAGACCTTGCTGTTCTCTAC	NM_021297.3
Toll-like receptor 4 (Tlr4)	Tlr4-F	GCTTACACCACCTCTCAAAC	
	Tlr4-R	ACAGCCACCAGATTCTCTAAAC	NM_031168.2
Interleukin 6 (Il6)	Il6-F	CTTCCATCCAGTTGCCTTCT	
	Il6-R	CTCCGACTTGTGAAGTGGTATAG	NM_013693.3
Tumor necrosis factor (Tnf)	Tnf-F	TTGTCTACTCCCAGGTTCTCT	
	Tnf-R	GAGGTTGACTTTCTCCTGGTATG	NM_008361
Interleukin 1 beta (Il1b)	Il1-β-F	GGTGTGTGACGTCCCCATTA	
	Il1-β-R	ATTGAGGTGGAGAGCTTTCAG	NM_013590.4
Lysozyme 1 (Lyz1)	Lyz-1-F	GAAGCACCGACTATGGGATATT	
	Lyz-1-R	GATCCCACAGGCATTCTTAGAT	NM_020583.5
Interferon-stimulated protein (Isg20)	Isg20-F	AGAGATCACGGACTACAGAA	
	Isg20-R	TCTGTGGACGTGTCATAGAT	NM_010510.1
Interferon beta 1, fibroblast (Ifnb1)	Ifnb1-F	TCCAAGAAAGGACGAACATTCTG	
	Ifnb1-R	TGAGGACATCTCCCACGTCAA	NM_010846.1
Myxovirus resistance protein (Mx1)	Mx1-F	ACAAGCACAGGAAACCGTATCAG	
	Mx1-R	AGGCAGTTTGGACCATCTTAGTG	NM_011434.2
Superoxide dismutase 1 (Sod1)	Sod-1-F	GGTTCCACGTCCATCAGTATG	
	Sod-1-R	GTCTCCAACATGCCTCTCTTC	NM_001289726.1
Glyceraldehyde-3-phosphate dehydrogenase (Gapdh)	Gapdh-F	AGGTCATCCCAGAGCTGAACG	
	Gapdh-R	CACCCTGTTGCTGTAGCCGTAT	