

Table S1. Sequences of primers for genes

Gene	Primer sequence (5' to 3')	Annealing temperature, °C	Product size, bp
β -Actin	F: TGGAACGGTGAAGGTGACAGC	60	177
	R: GCTTTTGGGAAGGCAGGGACT		
PBD1	F: CTCCTCATGGTCCTGTTACCT	60	146
	R: TGCCGATCTGTTTCATCTTTGG		
PBD2	F: TGTCTGCCTCCTCTCTTCC	60	149
	R: AACAGGTCCCTTCAATCCTG		
PBD3	F: CTTTCTCTTGCCTTGCTCTT	60	163
	R: GCCACTCACAGAACAGCTACC		
PBD129	F: GCACACTTGAAGAGGTCGCCA	60	121
	R: ATGCTGGCGAAAGGGTTGGT		
IL-1 β	F: CAGCTGCAAATCTCTCACCA	60	112
	R: TCTTCATCGGCTTCTCCACT		
IL-6	F: TTCACCTCTCCGGACAAAAC	60	122
	R: TCTGCCAGTACCTCCTTGCT		
TNF- α	F: CGTGAAGCTGAAAGACAACCAG	60	121
	R: GATGGTGTGAGTGAGGAAAACG		
TLR4	F: TCAGTTCTCACCTTCCTCCTG	60	166
	R: GTTCATTCTCACCAGTCTTC		
MyD88	F: GATGGTAGCGGTTGTCTCTGAT	60	148
	R: GATGCTGGGGAACCTTTCTTC		
NF- κ B	F: CGTGAAGCTGAAAGACAACCAG	60	121
	R: GATGGTGTGAGTGAGGAAAACG		
Keap1	F: ACGACGTGGAGACAGAAACGT	60	56
	R: GCTTCGCCGATGCTTCA		
Nrf2	F: GCCCCTGGAAGCGTTAAAC	60	67
	R: GGACTGTATCCCCAGAAGGTTGT		
HO-1	F: GCTGAGAATGCCGAGTTCAT	60	142

R: TGTAGACCGGGTTCTCCTTG

PBD1, porcine beta defensin 1; *PBD2*, porcine beta defensin 2; *PBD3*, porcine beta defensin 3; *PBD129*, porcine beta defensin 129; *IL-1 β* , interleukin-1 beta; *IL-6*, interleukin-6; *TNF- α* , tumour necrosis factor- α ; *TLR4*, toll-like receptor 4; *MyD88*, myeloid differentiation factor 88; *NF- κ B*, nuclear factor-kappa B; *Keap1*, Kelch-like ECH-associated protein-1; *Nrf2*, nuclear factor erythroid-2 related factor 2; *HO-1*, Heme Oxygenase-1.