

Table S1. Sequences of primers for genes and intestinal bacteria

Gene	Primer sequence (5' –3')	Annealing temperature (°C)	Product size (bp)
<i>β-Actin</i>	F: TGGAACGGTGAAGGTGACAGC	60	177
	R: GCTTTTGGGAAGGCAGGGACT		
<i>Bcl-2</i>	F: ATGTGTGTGGAGAGCGTCAA	60	142
	R: GCCCATAACAGCTCCACAAAG		
<i>Caspase3</i>	F:GGGATTGAGACGGACAGTGG	60	136
	R:TGAACCAGGATCCGTCCTTTG		
<i>Caspase9</i>	F:AATGCCGATTTGGCTTACGT	60	195
	R: CATTGCTTGGCAGTCAGGTT		
<i>HO-1</i>	F:CGCTCCCGAATGAACAC	60	112
	R:GCTCCTGCACCTCCTC		
<i>IL-1β</i>	F: GTGATGCCAACGTGCAGTCT	60	97
	R: AGGTGGAGAGCCTTCAGCAT		
<i>IL-6</i>	F: TGGCTACTGCCTTCCCTACC	60	153
	R: CACACATCTCCTTTCTCATTGC		
<i>KEAP-1</i>	F:ACGACGTGGAGACAGAAACGT	60	56
	R:GCTTCGCCGATGCTTCA		
<i>MyD88</i>	F: CCATTCGAGATGACCCCTG	60	183
	R: TAGCAATGGACCAGACGCAG		
<i>NFκB</i>	F: GTGTGTAAAGAAGCGGGACCT	60	139
	R: CACTGTCACCTGGAAGCAGAG		
<i>Nrf-2</i>	F:GCCCCTGGAAGCGTTAAAC	60	67
	R:GGACTGTATCCCCAGAAGGTTGT		
<i>TNF-α</i>	F: GCATCGCCGTCTCCTACCAG	60	173
	R: GGGCAGGTTGATCTCGGCAC		
<i>TLR4</i>	F: TTACAGAAGCTGGTTGCCGT	60	152
	R: TCCAGGTTGGGCAGGTTAGA		
Total bacteria	F: ACTCCTACGGGAGGCAGCAG	60	200
	R: ATTACCGCGGCTGCTGG		

F: CATGCCGCGTGTATGAAGAA

Escherichia coli

R: CGGGTAACGTCAATGAGCAAA

60

96

P: AGGTATTAAC TTTACTCCCTTCCTC

BCL-2: B-cell lymphoma-2; *caspase-3*: cysteinyl aspartate-specific proteinase-3; *caspase-9*: cysteinyl aspartate-specific proteinase-9; *HO-1*: heme oxygenase-1; *IL-1 β* : Interleukin1- β ; *IL-6*: Interleukin-6; *KEAP-1*: kelch like ECH associated protein 1; *MyD88*: myeloid differentiation factor 88; *NF- κ B*: nuclear factor kappa-light-chain-enhancer of activated B cells; *Nrf-2*: nuclear factor erythroid-2 related factor 2; *TLR4*: toll-like receptor 4; *TNF- α* : Tumor necrosis factor- α ;