

**S1 Table.** List of oligonucleotide sequence and their characteristics

Gene	Sequence (5'→3')	Purpose
<i>NRF2</i>	F: TGC CCC TGG AAG TGT CAA ACA R: CAA CAG GGA GGT TAA TGA TTT	qRT-PCR
<i>PD-L1</i>	F: GTG GCA TCC AAG ATA CAA ACT CAA R: TCC TTC CTC TTG TCA CGC TCA	qRT-PCR
<i>PD-1</i>	F: AAA CCC TGG TGG TTG GTG T R: TTC TCT CGC CAC TGG AAA TC	qRT-PCR
<i>COX-2</i>	F: CGG TGA AAC TCT GGC TAG ACA G R: GCA AAC CGT AGA TGC TCA GGG A	qRT-PCR
<i>IL-1<math>\beta</math></i>	F: CCA CAG ACC TTC CAG GAG AAT G R: GTG CAG TTC AGT GAT CGT ACA GG	qRT-PCR
<i>GAPDH</i>	F: TTC ACC ACC ATG GAG AAG GC R: GGC ATG GAC TGT GGT CAT GA	qRT-PCR
<i>NRF2</i>	Met_F: AGG GAG GCG TAG TTT TTA TAT TAA C Met_R: AAC TAA AAT CCC AAC AAA CGA A	MSP
<i>NRF2</i>	UnMet_F: GGA GGT GTA GTT TTT ATA TTA ATG T UnMet_R: ACC AAC TAA AAT CCC AAC AAA CA	MSP
<i>KEAP1</i>	Met_F: TTT TTT TTA GAT TTT GCG GTC Met_R: ATC TCC CGA TTT CGT TAC TAA	MSP
<i>KEAP1</i>	UnMet_F: TAA TTT TTT TTA GAT TTT GTG GTT UnMet_R: CCA TCT CCC AAT TTC ATT ACT AAA	MSP
<i>ACTB</i>	F: TGG TGA TGG AGG AGG TTT AGT AGT R: AAC CAA TAA AAC CTA CTC CTC CCT TAA	MSP

ACTB, actin-beta; COX-2, cyclooxygenase 2; F, forward; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; IL-1 $\beta$ , interleukin-1 $\beta$ ; KEAP1, kelch-like ECH-associated protein 1; Met, methylated; MSP, methylation-specific PCR; NRF2, nuclear factor erythroid 2-related factor 2; PD-L1, programmed cell death ligand 1; PD-1, programmed cell death protein 1; qRT-PCR, quantitative real-time polymerase chain reaction; R, reverse; UnMet, unmethylated.