

**Supplemental Table S1.** Primer sequences used for real-time PCR.

Gene	Primer Sequence (5' –3')	Product Length(bp)	GeneBank Accession No.
<i>ZO-1</i>	F: CGTGTC AACGCCACTATCA R: TTGTCTTCCAAAGCCCCT	105	XM_021098896.1
<i>Occludin</i>	F: AACTTCCACTGATGTCCCCCGT R: CCTAGACTTTCCTGCTCTGCCC	116	NM_001163647.2
<i>Claudin-2</i>	F: GCATCATTTTCCTCCCTGTT R: TCTTGGCTTTGGGTGGTT	156	NM_001161638.1
<i>Mucin-1</i>	F: GTGCCGCTGCCCAACCTG R: AGCCGGGTACCCCAAGACCCA	141	XM_021089730.1
<i>Mucin-2</i>	F: GGTCATGCTGGAGCTGGACAGT R: TGCCTCCTCGGGGTCGTCAC	181	XM_021082584.1
<i>Fas</i>	F: TGATGCCCAAGTGACTGACC R: GCAGAATTGACCCTCACGAT	103	NM_213839
<i>Bax</i>	F: GACGCTGGACTTCCTTCGAG R: GTGGCCCGAGAGAGGTTTATT	334	XM_013998624.2
<i>Bcl-2</i>	F: GCTACTTACTGCCAAAGGGA R: TTCAGGCGGAGCTGTAAGAG	161	XM_021099593.1
<i>Caspase-3</i>	F: GGAATGGCATGTCGATCTGGT R: ACTGTCCGTCTCAATCCAC	351	NM_214131.1
<i>Caspase-8</i>	F: TCTGCGGACTGGATGTGATT R: TCTGAGGTTGCTGGTCACAC	165	XM_021074714.1
<i>Caspase-9</i>	F: AATGCCGATTTGGCTTACGT R: CATTGCTTGGCAGTCAGGTT	195	XM_013998997.2
<i>GPX1</i>	F: GTGAATGGCGCAAATGCTCA R: ATTGCGACACACTGGAGACC	126	NM_214201.1
<i>GPX2</i>	F: AGAATGTGGCCTCGCTCTGA R: GGCATTGCAGCTCGTTGAG	112	DQ898282
<i>SOD1</i>	F: AGACCTGGGCAATGTGACTG R: GTGCGGCCAATGATGGAATG	102	NM_001190422.1
<i>CAT</i>	F: CGAAGGCGAAGGTGTTTG R: AGTGTGCGATCCATATCC	132	NM_214301.2
<i>GCLC</i>	F: TCCTCCTCCAAACTCCGACA R: GCACCACAAACACCACGTAC	101	XM_021098556.1
<i>GCLM</i>	F: GTGATGCCGCCCCGATTAAAC R: TCATGTGCCTCGATGTCAGG	140	XM_001926378.4
$\beta$ -actin	F: GGATGACGATATTGCTGCGC R: GATGCCTCTCTTGCTCTGGG	190	XM_003124280.5

*ZO-1*, zonula occludens 1; *Bax*, B-cell lymphoma-2-associated X protein; *Bcl-2*, B-cell lymphoma-2; *GPX*, glutathione peroxidase; *SOD1*, superoxide dismutase 1; *CAT*, catalase; *GCLC*, catalytic subunit of glutamate-cysteine ligase; *GCLM*, modifier subunit of glutamate-cysteine ligase