

**S7 Table. q-PCR probes and primers**

Target	Genes	Efficiency	UPL <sup>a</sup>	Sequence reference	Primer A	Primer B
<i>Cldn-5</i>	Cldn5	98.6	52	NM_013805.4	TTAAGGCACGGGTAGCACTC	ATGTTGGCGAACCCAGCAG
<i>Ocln</i>	Ocln	94.1	10	NM_008756.2	GTCCGTGAGGCCTTTTGA	GGTGCATAATGATTGGGT TTG
<i>ZO-1<sup>b</sup></i>	ZO-1	94.0	81	NM_009386.2, NM_001163574 .1	CGCGGAGAGAGACAAGATGT	GAAGCGTCACTGTGTGCT GT
<i>P-gp</i>	Abcb1 a	97.0	18	NM_011076.2	GGGCATTTACTTCAA CTTGTC	TTTACAAGCTTCATTT CTAATTCAA
<i>BCRP</i>	Abcg2	97.0	25	NM_011920.3	AGGTCTGGAAAAAGTAGCAGATTC	CTCCATCCCTATGCTTG TCC
<i>GLUT-1</i>	Slc2a1	101	4	NM_011400.3	GTATCCTGTTGCCCTTC TGC	TCGAAGCTTCTTCAGCAC AC
<i>Hprt</i>	Hprt	91.2	95	NM_013556.2	TCCTCCTCAGACCGCTT TT	CCTGGTTCATCATCGCTA ATC
<i>Gapdh</i>	Gapdh	91.2	80	NM_008084.2	TGTCCGTCGTGGATCTG AC	CCTGCTTACCACCTTCT TG
<i>Tbp</i>	Tbp	105	97	NM_013684.3	GGGAGAATCATGGACCA GAA	GATGGGAATTCCAGGAGT CA

<sup>a</sup>: Universal Probe Library from Roche Life Science.

<sup>b</sup>: Two primer pairs were used to detect the two isoforms of zonula occludens 1 (ZO-1).