

**Additional file 1(PDF)**

**List of primers, amplicon sizes and MgCl<sub>2</sub>-concentrations used for qRTPCR**

Gene name	Forward primer 5'→ 3'	Reverse primer 5'→ 3'	size (bp)	MgCl <sub>2</sub>
AraB ( <i>E. coli</i> )	atcccctgatcggtaaagca	acgcctgaaggggtgatta	126	4 mM
Cldn1	gctaagctgctaaccctgtgg t	tctggcaagtctagcagtttg	202	3 mM
Cldn 3	actaccaaccctgatgtacc	ccattcgactggacagttcct	188	3 mM
Cldn 5	tacatgctaaccctgaaggcca	aggaggaaggcaaccctctaa	196	4 mM
Cldn11	tgaaggaactgaaccaagcaga	aaacagcactgctcaagatcg	208	3mM
Cldn 12	tttaagtgtccagattgggca	aggtgtctgacacactggctc	181	4mM
Cldn 19	caagaccccgcccacactg	agcaccgtgcgctgagatcc	195	3mM
Occludin	gactgggtcagggaaatccacc	agcagcagccatgtactttcac	192	3mM
Tjp1	ttcttgcaaagtatccctctg	ccacaaaagaaatcctttcaca	165	4mM
Tjp2	ctgaatgcatgaggatcttga	ccacaaagtgcagggcttgaga	188	4mM
Tjp3	gggaacagcacacggccacac	cggcctccaggtaccacgtc	122	4mM
Abcc4	ttccccttcgacctatcct	taggcagctgtgtcagtg	124	4mM
Abcg2	accacagcggaggcaagt	gcaggtgaggtgccccgttt	105	3mM
Sco1a4	ctcatattcagggggcttca	cggtggcaaacagtctttc	148	3mM
Slco1a5	ttctactgcctgtgcaaga	agcagcatgaaacgacacac	147	3mM
Slco1c1	tgtcttgctgctgtcaatc	atcatgctgaccagttcc	111	4mM
Slc22a17	aatgactctcacgggattg	gcagcaaggagggtactgag	138	3mM
Slc22a8	ggcccttaccggagactatc	tctcagcgggattatttg	108	4mM
Ephx1	gctgtgctctgaatgactct	ctctccagcctccatcc	109	3mM