

Table S1 Primers for qRT-PCR

Gene name	Primers (5'-3')	Length
β-actin	F: CTGCGGCATCCACGAAACT R: AGGGCCGTGATCTCCTTCTG	147
SLC1A5	F: GGGAGGTCTGGTCTCAGCTA R: TCCGAAAAGCTCCAGACGAC	274
SLC6A20	F: TGGTGGTGTCTTCTTCCTC R: GTCATAGCCCGTGTGGTTG	134
SLC15A1 (PEPT1)	F: TTCCTTCAGGCGCAAAAAGC R: CACATAGGTAAACGCGCTGC	110
SLC38A2 (SNAT2)	F:CTGAGCAATGCGATTGTGGG R:TGCCTTATGCCCCAGTTGTT	186

SLC1A5, solute carrier family 1 member 5; SLC6A20, solute carrier family 6 member 20;

SLC15A1(PEPT1), solute carrier family 15 member 1, also name as PepT1;

SLC38A2(SNAT2) , solute carrier family 38 member 2, also name as SNAT2.