

Supplementary files

Table S1. Sequences of primers for genes and intestinal bacteria

Gene	Annealing temperature (°C)	Primer sequences (5' - 3')	Product Length, bp
ZO-1	60	CAGCCCCCGTACATGGAGA GCGCAGACGGTGTTTCATAGTT	114
Occludin	60	CTACTCGTCCAACGGGAAAG ACGCCTCCAAGTTACCACTG	158
FATP1	60	GGAGTAGAGGGCAAAGCAGG AGGTCTGGCGTGGGTCAAAG	208
FATP4	60	TTCATCAAGACGGTCAGGCG AGACGGTGGCAGCGAATAAG	133
LAT1	60	GGAATGGCATGTCGATCTGGT ACTGTCCGTCTCAATCCCA	105
CAT1	58.5	TGCCCATACTTCCCGTCC GGTCCAGGTTACCGTCAG	192
SGLT1	57	CGCGTCCGGTGTGAAAG CTTCCCGATATCTACACATTCCA	137
GLUT2	57.8	GAGGCAGCAGTAGGGAATCTTCGAGCA ACAGTTACTCTGACACCCGTTCTTC	140

TNF- α	60	TCTCATGCACCACCATCAAGGACT ACCACTCTCCCTTTGCAGAACTCA	178
IL-1 β	60	ACCTGTGTCTTTCCCGTGG TCATCTCGGAGCCTGTAGTG	92
IL-6	60	ATCCAGTTGCCTTCTTGGGACTGA TAAGCCTCCGACTTGTGAAGTGGT	162
β -actin	60	TGGAA CGGTG AAGGT GACAGC GCTTTTGGGAAGGCAGGGACT SQ-F, CGCGTCCGGTGTGAAAG	177
<i>Bifidobacterium</i>	55	SQ-R, CTTCCCGATATCTACACATTCCA	126
		SQ-P, (FMA) ATTCCACCGTTACACCGGGAA (BHQ-1)	
		RS-F, GAGGCAGCAGTAGGGAATCTTC	
<i>Lactobacillus</i>	60	RS-R, CAACAGTTACTCTGACACCCGTTCTTC RS-P, (FMA) AAGAAGGGTTTCGGCTCGTAAAACTCTGTT (BHQ-1)	121
		SYB-F, GCAACGAGCGCAACCCTTGA	
<i>Bacillus</i>	53	YB-R, TCATCCCCACCTTCCTCCGGT YB-P, (FMA)CGGTTTGTACCGGCAGTCACCT (BHQ-1)	92
		DC-F, CATGCCGCGTGTATGAAGAA	
<i>Escherichia coli</i>	54	DC-R, CGGGTAACGTCAATGAGCAAA DC-P, (FMA)AGGTATTAACCTTTACTCCCTTCCTC (BHQ-1)	96
Total bacteria	60	Eub338F, ACTCCTACGGGAGGCAGCAG	200

SQ-P, (FMA) ATTCCACCGTTACACCGGGAA (BHQ-5)

ZO-1, zonula occludens-1; FATP1, Fatty acid transport protein-1; FATP4, Fatty acid transportprotein-4; LAT1, L-type amino acid transporter-1; CAT1, cationic amino acid transporter-1; SGLT1,sodium glucose transport protein-1; GLUT2, glucose transporter-2; IL-1 β , interleukin-1 β ; IL-6, interleukin-6; TNF- α , tumour necrosis factor- α .