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Supplementary Material

Short-Chain Fatty Acids Modulate Permeability, Motility and Gene Expression in the Porcine Fetal Jejunum Ex Vivo

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Citation: Metzler-Zebeli, B.U.; Koger, S.; Sharma, S.; Sener-Aydemir, A.; Ruczizka, U.; Kreutzmann, H.; Ladinig, A. Short-Chain Fatty Acids Modulate Permeability, Motility and Gene Expression in the Porcine Fetal Jejunum Ex Vivo. *Nutrients* **2022**, *14*, 2524. https://doi.org/10.3390/nu14122524

Academic Editor: Jamileh Movassat

Received: 4 May 2022
Accepted: 11 June 2022
Published: 17 June 2022

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Table S1. Oligonucleotide primers for target and housekeeping genes [20,21].

Gene	Gene-Name	Accession number		Oligonucleotide sequence (5' to 3')	Amplicon Size	Efficiency(%)	Reference
Reference genes							
ACTG	Gamma-actin	XM_003357928.4	F	GGGCATCCTGACCCTCAAG	89	98.6	[20]
			R	TGTAGAAGGTGTGATGCCAGATCT			
B2M	β-2 microglobulin	NM_213978.1	F	CCCCCGAAGGTTCAGGTT	66	97.463	[20]
			R	GCAGTTCAGGTAATTTGGCTTTC			
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase	NM_001206359.1	F	GGCGTGAACCATGAGAAGTATG	60	101.637	[20]
			R	GGTGCAGGAGGCATTGCT			
HPRT	Hypoxanthine phosphoribosyltransferase	NM_001032376.2	F	AGAAAAGTAAGCAGTCAGTTTCATATCAGT ATCTGAACAAGAGAGAAAATACAGTCAATA G	131	100.767	[20]
			R				
OAZ1	Ornithine decarboxylase antizyme 1	NM_001122994.1	F	TCGGCTGAATGTAACAGAGGAA	70	99.355	[20]
			R	GAGCCTGGATTGGACGTTTAAA			
Receptors and transporters involved in SCFA sensing							
FFAR2	Free fatty acid receptor-2	NM_001278758.1	F	CTGCCTGGGATCGTCTGTG	249	104.780	[21]
			R	CATACCCTCGGCCTTCTGG			
FFAR3	Free fatty acid receptor-3	NM_001315601.1	F	GCCCTTGCCCTTCATCTTCT	136	101.724	[21]
			R	CCGGGTCTTGTACCAGAGTG			
HCAR2	Hydroxycarboxylic acid receptor-2	XM_021072989.1	F	AAGGCGATTTCGTAGTTTCCTG	82	99.616	Newly designed
			R	TGGTTCAGTGCTCGCCTTTAT			
HDAC1	Histone deacetylase 1	XM_013999116.2	F	GACCGACTGACGGGAGG	148	100.434	Newly designed
			R	AGTCATGCGGATTCGGTGAG			
TLR2	Toll-Like Receptor-2	NM_213761.1	F	AATAAGTTGAAGACGCTCCCAGAT	97	100.452	[20]
			R	GTTGCTCCTTAGAGAAAGTATTGATCGT			
NLRP3	NLR family pyrin domain containing 3	NM_001256770.2	F	TCAAAGCTCGCTGATGGTGT	110	99.624	Newly designed
			R	GGCACTGTGGTGAAAACTGTC			

EGFR	Epidermal growth factor receptor	NM_214007.1	F	GCTACGGCAGCTACATAGTC	149	100.739	Newly designed
			R	GACAAAGGAATGTCCCTGCAAC			
PPARG	Peroxisome proliferator-activated receptor γ	NM_214379.1	F	CATTCCCGAGAGCTGATCC	149	100.264	[21]
			R	GGAAGGCTCTTCGTGAGGTT			
SLC5A8 (SMCT1)	Solute Carrier Family 5 Member 8 (Sodium-coupled monocarboxylate transporter 1)	NM_001291414.1	F	AATCCTCACCTGCTCAGTGC	172	96.747	Newly designed
			R	GTAAGCGCAGGCCACAAAAA			
SLC5A12 (SMCT2)	Solute Carrier Family 5 Member 12 (Sodium-coupled monocarboxylate transporter 2)	XM_003122908.4	F	TGGGACACAACTTTCCCTTGG	407	97.025	Newly designed
			R	GGAAGGTGGTTCTCCTGTGG			
SLC16A1 (MCT1)	Solute Carrier Family 16 Member 1 (Monocarboxylate transporter 1)	AM286425.1	F	GGTGGAGGTCCTATCAGCAG	74	99.708	[21]
			R	AAGCAGCCGCCAATAATCAT			
Tight-junction and adherens junction proteins, defensins and cytokines							
ZO1	Zonula occludens-1	AJ318101.1	F	TCAAGGTCTGCCGAGACAAC	75	98.981	Newly designed
			R	CCAAAGGACTCAGCAGGGTT			
OCLN	Occludin	NM_001163647.1	F	TTGTGGGACAAGGAACGTATTTA	76	98.256	[20]
			R	TGCCTGCCGACACGTTT			
CLDN1	Claudin 1	NM_001244539.1	F	TGATGAGGTGCAGAAGATGC	88	98.645	[20]
			R	CCATGCTGTGGCAACTAAGA			
CLDN4	Claudin 4	NM_001161637.1	F	CAACTGCGTGGATGATGAGA	140	98.143	[20]
			R	CCAGGGGATTGTAGAAGTCG			
CDH1	Cadherin-1	NM_001163060.1	F	TACCTGAACGAGTGGGGCAA	118	98.387	[20]
			R	CCCATCACATGAGCGTAGGG			
JAML	Junction Adhesion Molecule Like	NM_001244730.1	F	GAAGATCAGGGAAACTCCGTTCTA	257	100.574	Newly designed
			R	AGTCCACCTTTGTCACACGTT			
NFKB	Nuclear factor kappa-b	XR_002340533.1	F	TGGACATTCAACGTCAACAGC	75	100.317	Newly designed
			R	AGTGAGCTCAGCATTTCATCCAT			
BD3	Prepro-beta-defensin 3	XM_021074698.1	F	AAGTGACCAAGCACGCCTT	70	100.228	Newly designed

			R	GTAGTGGATCCTCATGGCTGG			
EP2C	Epididymis protein 2 splicing variant C	BK005522.1	F	ACTGCTTGTTCTCCAGAGCC	92	101.835	Newly designed
			R	TGGCACAGATGACAAAGCCT			
IL10	Interleukin-10	NM_214041.1	F	GCCTACATGACGATGAAGATGA	112	100.316	[20]
			R	TGAAAGTCTCCAATTTGTATCCTAGAGT			
IL18	Interleukin-18	NM_213997.1	F	AGCTGAAAACGATGAAGACCTG	121	100.852	Newly designed
			R	AAACACGGCTTGATGTCCCT			

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