

Appendix 1: Sequences of Primers Used in the Reaction of qPCR

Name		Seq 5'- 3'	Product Length (bp)
Pik3ca	F	CACCTGAACAGACAAGTAGAGGC	145
	R	GCAAAGCATCCATGAAGTCTGGC	
Akt	F	CTCCTCAAGAATGATGGCACCT	217
	R	TCCACTCTTCCCGCTCCT	
Cnr1	F	GTTGACTTCCATGTATTCCACCGTA	125
	R	ATGTACCTGTTCGATGGCTGTGA	
Cnr2	F	CAGCGTGACCATGACCTTC	185
	R	TCCACCCCATGAGCGGTAG	
IL6	F	CTTCCTACCCCAACTTCCAATG	135
	R	CCGAGTAGACCTCATAGTGACC	
IL10	F	CCAGTTCTTTCCCCTGTAGCCA	152
	R	TCGCCCAGAGACAGACAAGCAA	
IL1b	F	TACCTATGTCTTGCCCGTGGA	122
	R	ATCACACACTAGCAGGTCGTC	
IL4	F	ATGCACCGAGATGTTTGTACCAGA	169
	R	ACAGAGTTTCCTCAGTTCACCG	
Eef2	F	GGTCCCAACATTCTCACCGACA	140
	R	ACATCAAATCGCACACCACGCA	

Appendix 2: Sequences of Primers Used in the Reaction of qPCR

Microorganism		Primer Sequence (5'-3')	Product Size (bp)	Refs
<i>Actinobacteria</i>	F	CGCGGCCTATCAGCTTGTTG	643	(1)
	R	CCGTACTCCCCAGGCGGGG		
<i>Proteobacteria</i>	F	CATGACGTTACCCGCAGAAGAAG	195	(2)
	R	CTCTACGAGACTCAAGCTTGC		
<i>Bacteroidetes</i>	F	GTTTAATTTCGATGATACGCGAG	211	(3)
	R	TTAASCCGACACCTCACGG		
<i>Firmicutes</i>	F	GCAGTAGGGAATCTTCCG	181	(4)
	R	ATTACCGCGGCTGCTGG		
<i>Akkermansia Muciniphila</i>	F	CAGCACGTGAAGGTGGGGAC	329	(5)
	R	CCTTGCGGTTGGCTTCAGAT		
<i>Bacteroides thetaiotaomicron</i>	F	GAGGAAGGTCCCCACATTG	298	In This study
	R	ACCCATAGGGCAGTCATCCT		
<i>Lactobacillus spp.</i>	F	AGCAGTAGGGAATCTTCCA	341	(6)
	R	ATTYCACCGCTACACATG		
<i>Clostridium Cluster IV</i>	F	ACAATAAGTAATCCACCTGG	298	(7)
	R	CTTCCTCCGTTTTGTCAA		
<i>Faecalibacterium Prausnitzii</i>	F	GGAGGAAGAAGGTCTTCGG	248	(8)
	R	AATTCCGCCTACCTCTGCACT		
<i>16s Universal</i>	F	TCCTACGGGAGGCAGCAGT	348	(9)
	R	GGACTACCAGGGTATCTAATCCTGTT		
<i>E. coli</i>	F	CATTGACGTTACCCGCAGAAGAAGC	195	(10)
	R	CTCTACGAGACTCAAGCTTGC		

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