

**Table S1** Primer sequence, annealing temperature, and size of PCR products

Target	Primer sequence	T <sub>m</sub> (°C)	Size (bp)	Reference
Total bacteria	ACTCCTACGGGAGGCAGCAGT GTATTACCGCGGCTGCTGGCAC	56	200	Tannock, Munro, Harmsen, Welling, Smart and Gopal [1]
<i>Bifidobacterium</i> spp.	TCGCGTC)C/T(GGTGTGAAAG CCACATCCAGC)A/G(TCCAC	58	243	Rinttilä, Kassinen, Malinen, Krogus and Palva [2]
<i>Bacteroides fragilis</i> group	ATAGCCTTTCGAAAGRAAGAT CCAGTATCAACTGCAATTTTA	50	501	Matsuki, Watanabe, Fujimoto, Miyamoto, Takada, Matsumoto, Oyaizu and Tanaka [3]
<i>Enterobacteriaceae</i>	CATTGACGTTACCCGCAGAAGAA GC CTCTACGAGACTCAAGCTTGC	57	195	Bartosch, Fite, Macfarlane and McMurdo [4]
<i>Clostridium coccooides</i> – <i>Eubacteria. rectale</i> group	CGGTACCTGACTAAGAAGC AGTTT(C/T)ATTCTTGCGAACG	51	429	Rinttilä, Kassinen, Malinen, Krogus and Palva [2]
<i>Clostridium leptum</i> group	GCACAAGCAGTGGAGT CTTCCTCCGTTTTGTCAA	55	239	Matsuki, Watanabe,

				Fujimoto, Takada and Tanaka [5]
<i>F. prausnitzii</i> -	ACCATGAGAGCCGGGGGG	57	100	Lund, Bjerrum and Pedersen [6]
<i>S. variable</i> group	GGTTACCTTGTTACGACTT			
<i>Lactobacillus</i> group	AGCAGTAGGGAATCTTCCA CACCGCTACACATGGAG	53	341	Walter, Hertel, Tannock, Lis, Munro and Hammes [7]
<i>Prevotella</i>	CACRGTAACGATGGATGCC GGTCGGGTTGCAGACC	62	513	Matsuki, Watanabe, Fujimoto, Miyamoto, Takada, Matsumoto, Oyaizu and Tanaka [3]

---

### References for Table S1

- [1] G. W. Tannock, K. Munro, H. J. M. Harmsen, G. W. Welling, J. Smart, P. K. Gopal, *Applied and Environmental Microbiology*. **2000**, 66, 2578-2588.
- [2] T. Rinttilä, A. Kassinen, E. Malinen, L. Krogus, A. Palva, *Journal of Applied Microbiology*. **2004**, 97, 1166-1177.
- [3] T. Matsuki, K. Watanabe, J. Fujimoto, Y. Miyamoto, T. Takada, K. Matsumoto, H. Oyaizu, R. Tanaka, *Applied and Environmental Microbiology*. **2002**, 68, 5445-5451.
- [4] S. Bartosch, A. Fite, G. T. Macfarlane, M. E. T. McMurdo, *Applied and Environmental Microbiology*. **2004**, 70, 3575-3581.

- [5] T. Matsuki, K. Watanabe, J. Fujimoto, T. Takada, R. Tanaka, *Applied and Environmental Microbiology*. **2004**, 70, 7220-7228.
- [6] M. Lund, L. Bjerrum, K. Pedersen, *Poultry Science*. **2010**, 89, 1217-1224.
- [7] J. Walter, C. Hertel, G. W. Tannock, C. M. Lis, K. Munro, W. P. Hammes, *Applied and Environmental Microbiology*. **2001**, 67, 2578-2585.