

**Supplemental Table 1.** Primers used in this study

Target bacterial group	Primer	Sequence (5' to 3')	Tm (°C)	References
<i>Lactobacillus</i>	g-Lact-1	AGCAGTAGGGAATCTTCCA	88.9	21
	g-Lact-2	CACCGCTACACATGGAG		
Segmented filamentous bacteria	SFB-F	AGGAGGAGTCTGCGGCACATTAGC	85	18
	SFB-R	TCCCCACTGCTGCCTCCCGTAG		
<i>Enterococcus</i>	g-Enteroc-F	CCCTTATTGTTAGTTGCCATCATT	84.3	19
	g-Enteroc-R	ACTCGTTGTACYCCATTGT		
<i>Enterobacteriaceae</i>	En-Isu-3F	TGCCGTAACCTCGGGAGAAGGCA	83	20
	En-Isu-3R	TCAAGGACCAGTGTTCAAGTGTC		