

TABLE S2. PCR and sequencing primers used in this study.

Primer <sup>a</sup>	Position <sup>b</sup>	Orientation	Function	Specificity <sup>c</sup>	Sequence
F24	9-27	Forward	PCR	A,B,C	GAG TTT GAT YMT GGC TCA G
AD30	342-357	Forward	Sequencing	A,B,C	CTR CGG RAG GCA GCA G
Z24	789-806	Forward	Sequencing	A,B,C	TAG ATW CCC YGG TAG TCC
Y34	1100-1114	Forward	Sequencing	A,B	YAA CGA GCG CAA CCC
AD29	342-357	Reverse	Sequencing	A,B,C	CTG CTG CCT YCC GYA G
Y31	519-533	Reverse	Sequencing	A,B,C	TKA CCG CGG CTG CTG
Z25	907-926	Reverse	Sequencing	A	CCG TCW ATT YMT TTR AGT TT
Y33*	907-926	Reverse	Sequencing	B	CCG TCA ATT CCT TTR WGT TT
Z26	1374-1391	Reverse	Sequencing	A,B	AAG RCC CGR RAA CGK ATT
Z27*	1389-1404	Reverse	Sequencing	A,B,C	GGG CGG TGT GTA CAA G
M98	1483-1501	Reverse	PCR	Spiro/Syner	GTT ACG ACT TCA CCC YCC T
F01	1487-1505	Reverse	PCR	Bacteroides	CCT TGT TAC GAC TTA GCC C
C72	1492-1509	Reverse	PCR	A,B,C	GYT ACC TTG TTA CGA CTT
Y36	1525-1541	Reverse	PCR	A,B	GAA GGA GGT GWT CCA DCC <sup>d</sup>

<sup>a</sup>Primers with asterisks were used if primer above failed, or if primer was recognized as

appropriate by phylogenetic analysis of partial sequence.

<sup>b</sup>Position using *E. coli* numbering.

<sup>c</sup>Primers work for the most organism in the following phyla: A, Proteobacteria, Firmicutes,

Actinobacteria, Fusobacteria, Bacteroidetes, Chloroflexi, and Spirochaetes; B, Synergistes and

1 TM7; and C, OP11. The “Spiro/Syner” reverse primer is highly specific for members of the  
2 phyla Spirochaetes and Synergistetes. Members of the order *Coriobacteriales* in the Phylum  
3 Actinobacteria are also amplified. The *Bacteroides* primer is selective for members of the phyla  
4 Bacteroides, TM7 and SR1.

5 <sup>d</sup>Primer Y36 has a 5'-G for better addition of an overhanging A on the complementary strand for  
6 TA cloning.

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