



S1 Fig. Bacterial taxa from the digesta-adherent fraction of rumen contents.

Samples are identified by the month and animal they were sampled from. The first letter represents the month the sample was taken, M = May (Autumn), A = August (Winter), N = November (Spring), F = February (Summer) and L = May + 1yr (Autumn). The second letter represents the animal A, B C, D and E. Samples FD.51 and FD.65 are sequenced from the same sample (FD) with different barcodes on the forward primer. The key on the right shows taxa at the genus level where possible or to the lowest defined rank it could be assigned.

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Table S1. Barcoded primers for multiplex pyrosequencing PCR

Primer	Sample	Primer sequence (5' - 3')
Afd1*MID55	AB	CGT ATC GCC TCC CTC GCG CCA TCA GAT CTA CGC TGG AGT TTG ATC MTG GCT CAG
Afd1*MID56	AC	CGT ATC GCC TCC CTC GCG CCA TCA GCT CGC ATA CGG AGT TTG ATC MTG GCT CAG
Afd1*MID57	AD	CGT ATC GCC TCC CTC GCG CCA TCA GAC AGA CAC GTG AGT TTG ATC MTG GCT CAG
Afd1*MID58	AE	CGT ATC GCC TCC CTC GCG CCA TCA GCA CGA TCT ACG AGT TTG ATC MTG GCT CAG
Afd1*MID59	NB	CGT ATC GCC TCC CTC GCG CCA TCA GAG CGC TCA GTG AGT TTG ATC MTG GCT CAG
Afd1*MID60	NC	CGT ATC GCC TCC CTC GCG CCA TCA GCG CTA GTG TAG AGT TTG ATC MTG GCT CAG
Afd1*MID61	ND	CGT ATC GCC TCC CTC GCG CCA TCA GGT AGT ACA TGG AGT TTG ATC MTG GCT CAG
Afd1*MID62	NE	CGT ATC GCC TCC CTC GCG CCA TCA GTG AGT GTC ACG AGT TTG ATC MTG GCT CAG
Afd1*MID63	FB	CGT ATC GCC TCC CTC GCG CCA TCA GGA GCA CTA GCG AGT TTG ATC MTG GCT CAG
Afd1*MID64	FC	CGT ATC GCC TCC CTC GCG CCA TCA GTA GCA CGC GAG AGT TTG ATC MTG GCT CAG
Afd1*MID65	FD	CGT ATC GCC TCC CTC GCG CCA TCA GGC TGA GTC ACG AGT TTG ATC MTG GCT CAG
Afd1*MID66	FE	CGT ATC GCC TCC CTC GCG CCA TCA GTC TGA CAC TCG AGT TTG ATC MTG GCT CAG
Afd1*MID67	LB	CGT ATC GCC TCC CTC GCG CCA TCA GGT CTG CTC AGG AGT TTG ATC MTG GCT CAG
Afd1*MID68	LC	CGT ATC GCC TCC CTC GCG CCA TCA GTG CGA CTG ATG AGT TTG ATC MTG GCT CAG
Afd1*MID69	LD	CGT ATC GCC TCC CTC GCG CCA TCA GGA CGA TGC ATG AGT TTG ATC MTG GCT CAG
Afd1*MID70	LE	CGT ATC GCC TCC CTC GCG CCA TCA GTA CGC AGC TGG AGT TTG ATC MTG GCT CAG
Afd1*MID71	MA	CGT ATC GCC TCC CTC GCG CCA TCA GGC GTG TAT GCG AGT TTG ATC MTG GCT CAG
Afd1*MID72	MB	CGT ATC GCC TCC CTC GCG CCA TCA GTC GCG CTC TAG AGT TTG ATC MTG GCT CAG
Afd1*MID73	MC	CGT ATC GCC TCC CTC GCG CCA TCA GAC GTA CTC ACG AGT TTG ATC MTG GCT CAG
Afd1*MID74	MD	CGT ATC GCC TCC CTC GCG CCA TCA GCA GTG CTC TCG AGT TTG ATC MTG GCT CAG
Afd1*MID54	-ve	CGT ATC GCC TCC CTC GCG CCA TCA GAG ATG ATA GCG AGT TTG ATC MTG GCT CAG
Afd1*MID51	FD	CGT ATC GCC TCC CTC GCG CCA TCA GAC GCT ATC GAG AGT TTG ATC MTG GCT CAG
B514*R		CTA TGC GCC TTG CCA GCC CGC TCA GCC GCG GCK GCT GGC AC

Barcode sequences are highlighted in bold. Samples are identified by the month and animal they were sampled from. The first letter represents the month the sample was taken, M = May (Autumn), A = August (Winter), N = November (Spring), F = February (Summer) and L = May + 1yr (Autumn). The second letter represents the animal A, B C, D and E.