

Supplementary Table 1. Affiliations of the unique RSTs identified in the biofilm adherent to the plant biomass recovered from the rumen of a sheep.

RST ID	RST sequence (5'→3')	Count	Affiliations (taxon <sup>†</sup> ; GenBank accession No.)	S <sup>‡</sup>
SR-ad-1	AACGAGGCGACCTTAAGACGACTCAGTGCTTGCACAAAGTTGGAAGA AGATCATCGCCTAGTGGCAGACGGGT	1	Unidentified rumen bacterium RF39 (unclassified <i>Mollicutes</i> ; AF001770) <i>Clostridium bogorii</i> B8NS1-C (AJ271457)	97 57
SR-ad-2	GAGCGGGAGTATTGCAACCAGAGATTTCGTCAAAGTGAGKGATATGAG AGCGGCGGACGGGT	1	Uncultured CFB group bacterium ( <i>Bacteroidaceae</i> ; AY082459)	51
SR-ad-3	CGAACGGGGTTATTTAGAAGCTTGCTTTRTGATAACTTAGTGGCGGAC GGGT	2	Unidentified rumen bacterium RC7r-54 (unclassified <i>Lachnospiraceae</i> ; AB034190) <i>Paenibacillus polymyxa</i> WY110 (AY302439)	95 89
SR-ad-4	CGAGGGGCAGCATGAGATTAGCTTGCTAATCTTGATGGCGACCGGCG CACGGGT	10	Uncultured rumen bacterium clone BE7 ( <i>Prevotella</i> ; AY244924) <i>Bacteroides uniformis</i> isolate WH207 (AY349154)	100 92
SR-ad-5	CGAACGGGGTTTAAGAAGGAAGCTTGCTTTCATTTAAAGCCTAGTGGG TGAC	1	Uncultured rumen bacterium ( <i>Clostridiales</i> ; AY006790) <i>Desulfotomaculum putei</i> SMCC W463 (AF053933)	94 79
SR-ad-6	TTGACCGTGCAGCCTAATGCATGCAAGT	12	Uncultured <i>Actinobacterium</i> clone AT-s2-33 (unclassified <i>Actinobacteria</i> ; AY225655)	86
SR-ad-7	CGAACGGACATGGCACCGGAGCAGAAGAGTTCGCTTGACGCTCCCC GTCATGTTAGTGGCGGACGGGT	1	<i>Campylobacter concisus</i> (L04322)	63
SR-ad-8	GCGTAACACGTGGACTGCACGGTCAA	18	Uncultured bacterium clone PK71 (unclassified <i>Verrucomicrobiales</i> ; AY555792)	73
SR-ad-9	CGAACGGACTTTACATGAAGCCTAGCGATTGTAAAGTTAGTGGCGGA CGGGT	14	Uncultured bacterium clone HuCB40 ( <i>Clostridiales</i> ; AJ409005) <i>Butyrivibrio fibrisolvens</i> NCDO 2432 (X89973)	96 65
SR-ad-10	CGAACGGGGTTTAAGAAGGAAGCTTGCTTTCATTTAAACTTAGTGGC GGACGGGT	240	Unidentified rumen bacterium RC31 ( <i>Clostridiaceae</i> ; AF001733)  <i>Desulfotomaculum ruminis</i> DSM 2154 (Y11572). [128 seqs, 98%; 112 seqs, 100%]	98- 100 79
SR-ad-11	CGAACGAAGCACATTCCTTCGGGGATGTGACTGAGTGGCGGAC	2	Uncultured bacterium clone wet59 ( <i>Desulfotomaculum</i> ; AY212762) Unidentified rumen bacterium RF24 ( <i>Clostridiales</i> ; AF001756).	90 91
SR-ad-12	CGAGGGGCAGCATGAAGTTTGCTTGCAAACCTTTGATGGCGACCGGCG CACGGGT	201	Unidentified rumen bacterium RFN21 ( <i>Prevotella</i> ; AB009180) <i>Bacteroides acidofaciens</i> A40 (AB021164)	100 96
SR-ad-13	CGAGCGGGAATCTGTTGATTGAGACTTCGGTGGATTGATGCAGAGGA TAGCGGCGGACGGGT	2	Uncultured rumen bacterium (AY006886) <i>Ruminococcus</i> sp. CB3 (AB064899)	100 73
SR-ad-14	CGAACGGGGTTTAAGAAGGAAGCTTMCTTTTCATTTTAAACYTAGMGG CGGACGGGT	1	Uncultured rumen bacterium ( <i>Clostridiales</i> ; AY006790) <i>Desulfotomaculum ruminis</i> (Y11572).	96 80
SR-ad-15	CGAGGGGCAGCGCTGAGTAGCAATACTCTGACGGCGACCGGCGCACG	1	Uncultured gut bacterium clone PeM14 ( <i>Bacteroidales</i> ; AJ576384) <i>Dysgonomonas gadei</i> 1145589 (Y18530)	93 87
SR-ad-16	CGAGCGGGAGTATCGCAAACAGAGATTCGTCAAAGTGAGCGATATGA GAGCGGCGGACGGGT	4	<i>Peptostreptococcus</i> sp. str. S1 (AF044946)	58
SR-ad-17	CGAACGTGAAAGTGCCTTCGGGTGCGAGTAAAGTGCGCACGGGT	1	Uncultured gamma <i>Proteobacterium</i> FO-26d-66 (AF432289) <i>Bdellovibrio</i> sp. SJ (AF084854)	93 87
SR-ad-18	GGAAGAGGGGCATCATGGAGTTTGCTTGCAAACCTCTGATGGCGACCG GCGCACGGGT	6	Unidentified rumen bacterium 30-4 ( <i>Prevotella</i> ; AF018535) <i>Prevotella</i> sp. P2A_FAAD4 (AF537212)	100 90
SR-ad-19	CGAACGGAATTATGGGGCTTGCTCCATAATTTAGCGGCGCACGG	1	Uncultured <i>Alphaproteobacterium</i> clone Rs-H76 (AB089087) <i>Pelobacter propionicus</i> DSM 2379 (X70954)	95 88
SR-ad-20	CGAACGGGGTTTAAGAAGGAAGCTTGCTTTTGTATACTTAGTGGCG GACGG	1	Unidentified rumen bacterium RC31 ( <i>Clostridiaceae</i> ; AF001733) <i>Desulfotomaculum</i> sp. MPNeg1 (AY340811)	90 85
SR-ad-21	GCGTAACCGTGAACCTGCACGGTACCGTGCAACTTAATGCATGCAAG	1	Uncultured bacterium clone A20 (unclassified <i>Actinobacteria</i> ; AY373407)	67

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SR-ad-22	CGAGGGGCAGCATGAAGTTTGCTTGCAAACCTTTGATGGKACCGGCGCACGGGT	1	Uncultured bacterium clone p-828-a5 ( <i>Prevotella</i> ; AF371888) <i>Bacteroides acidofaciens</i> A40 (AB021164)	98 94
SR-ad-23	CGAGGGGCAGCATGGGAGTTGCTTGCAATTCCTGATGGCGACCGGCGCACGGGT	1	Uncultured bacterium clone w.11b ( <i>Prevotella</i> ; AY212546) <i>Prevotella loescheii</i> ATCC 15930 (L16481)	100 94
SR-ad-24	CGAGGGGCAGCATGAAGATGTGCTTGCAACAACCTTTGATGGCGACCGCGCACGGGT	6	Unidentified rumen bacterium RFN40 (AB009196) <i>Bacteroides acidofaciens</i> A40 (AB021164)	100 89
SR-ad-25	CGAACGAAGCACTTAATTACGATCCCTTCGGGGTGACGATTTTGTGACTTAGTGGCGGACGGGT	3	Uncultured bacterium clone p-1051-a5 (unclassified <i>Clostridiales</i> ; AF371640) <i>Pseudobutyrvibrio xylanovorans</i> JK 23/2 (AJ428550)	92 95
SR-ad-26	CGAGGGGCAGCATGATCAAAGCTTGCTTTGATTGATGGCGACCGGCGCACGGGT	14	Uncultured rumen bacterium clone BF16 (unclassified <i>Bacteroidales</i> ; AY244894) <i>Prevotella</i> sp. Sp20 (AB003388)	100 98
SR-ad-27	GAACGAAGCACTTAAGATGATTTCTTCGGATTGAATTTTTTTGTGACTTAGTGGCGGACGGGT	3	<i>Clostridium</i> sp. cTPY-17 (AY239462)	90
SR-ad-28	CGAACGAAGCGTCCC GCCGAAGAGAAGGAGTGCTTGCAAAAATTTAATTCAATTGGGACGACTTAGTGGCGGACGGGT	13	Uncultured rumen bacterium (AY006775) <i>Eubacterium xylanophilum</i> ATCC 35991 (L34628)	87 80
SR-ad-29	GAACGGAGATACTGAGAGCTTGCTTTTGGTATCTTAGTGGCGGACGGGT	22	Uncultured rumen bacterium (AY006833) <i>Ruminococcus</i> sp. 25F8 (AJ515916)	90 82
SR-ad-30	GAGCGGAAATTGCGGAAATAAGCTTCGGCAGAAATAAGCGATGGATAGCGGCGGACGGGT	1	Uncultured <i>Firmicute</i> clone CD1F7 (unclassified <i>Clostridiales</i> ; AY038498)	61
SR-ad-31	CGAACGGAGTATTGAGGATGAAGTTTTTCGGATGGATTTTTCAATACTTAGTGGCGGACGGGT	3	<i>Clostridium</i> sp. XB90 (AJ229234) <i>Clostridium boltei</i> 16351 (AJ508452)	85 84
SR-ad-32	CGAACGGAGTTTAAGAAGGAAGCTTGCTTTCATTTTAAACCTAGTAGGCGGAC	1	UI rumen bacterium RC31 ( <i>Clostridiaceae</i> , AF001733) <i>Desulfotomaculum ruminis</i> DSM 2154 (Y11572)	96 77
SR-ad-33	TTGACCGTGCAGCTTAATACATGCAAGT	4	<i>Sphingobacterium</i> sp. GWS-SE-H150 (AY332165)	76
SR-ad-34	CGAGGGGCAGCATGAAGTCAGCTTGCTGACTTTGATGGCGACCGGCGCACGGGT	5	Uncultured bacterium isolate HuCC28 (AJ315483) <i>Bacteroides uniformis</i> isolate WH207 (AY349154)	100 63
SR-ad-35	CGAGGGGCAGCATGGGATTAGCTTGCTAATCCTGATGGCGACCGGCGCACGGGT	3	Uncultured rumen bacterium clone BE15 (AY244933) <i>Prevotella heparinolytica</i> ATCC 35895 (L16487)	98 94
SR-ad-36	CGAACGAAGCAATTTTCTACGATCCCTTCGGGGTGACGGATTATTGACTGAGTGGCGGACGGGT	4	<i>Pseudobutyrvibrio ruminis</i> JK 626 (AJ428549)	100
SR-ad-37	ACGGGGTTTAAGAAGGAAGCTTGCTCTCATTTTACACCTAGTGGCGGACGGGT	1	Unidentified rumen bacterium RC31 (AF001733) <i>Desulfotomaculum thermosapovorans</i> DSM 6562 (Z26315)	92 85
SR-ad-38	CGAGCGGCACACTTTCGGGTGTATAGCGGCAGACGGGT	1	Uncultured <i>Methylobacteriaceae</i> bacterium clone H5Ba35 (AY360587)	90
SR-ad-39	CGAGCGGCACACTTTCGGGTGTTTKTCCGCAGACGGGT	1	Uncultured alpha <i>Proteobacterium</i> clone uvi7 9AY186845)	90
SR-ad-40	CGAGGCGCGCATATCGAAAGCTTGCTTTGGTTCGATGGCGACCGGCGCACGGGT	1	<i>Prevotella</i> aff. <i>ruminicola</i> Tc2-24 (AJ009933)	88
SR-ad-41	GCGTAACACGTGGGCTTTAACGCTTCCGAAGCTTCGGCAGAGGATTGTTAAAACCTAGTGGCGGACGGGT	1	<i>Butyrvibrio hungatei</i> strain Su6 (AY178635)	72
SR-ad-42	CGAGGGGTAACGCGAGGTAGCAATACTTCGGCGACGACCGGCGCACGGGT	7	Uncultured rumen bacterium (unclassified <i>Bacteroidetes</i> ; AY006823) <i>Bacteroides splanchnicus</i> (L16496)	100 82
SR-ad-43	CGAGCGGGAGCTGTTCGGCRCCGTGCTATCTGAGGGGAGAAGAGGAAGGATGGCAGGGT	1	<i>Thermus thermophilus</i> (T) (M26923)	56
SR-ad-44	GCTGGGAGAGCTTTAGCGGCGGACGGGT	1	Uncultured bacterium clone mdl08e06 (AY537972) <i>Clostridium</i> sp. Dex60-4 (AJ431242)	82 79
SR-ad-45	CGAGCGGGACATTGCGACAGAATTGAAGTTTTTCGGATGGATAGGAA GATGTAATGTTCTAGCGGCGGACGGGT	11	Uncultured rumen bacterium 4C0d-10 ( <i>Clostridiales</i> , AB034023) <i>Ruminococcus</i> sp. 5 (AJ315982)	94 68

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SR-ad-46	CGAGCGGAGACATTTGAAAAGCTTGCTTTTTGGATGTTTCAGCGGCGGACGGGT	28	<i>Paenibacillus odorifer</i> TOD45 (AJ223990)	83
SR-ad-47	CGAACGGGGATTTTGTTCGGCAGAATCCTAGTGGCGAACGGGT	19	<i>Succiniclasticum ruminis</i> SE10 (X81137)	100
SR-ad-48	CGAGGGGCATCATTATCGAAGCTTGCTTTGATAGATGGCGACCGGCGCACGGGT	12	Unidentified rumen bacterium 30-39 (AF018533) <i>Prevotella</i> aff. <i>ruminicola</i> Tc2-24 (AJ009933)	100 98
SR-ad-49	CGAACCGGAAAGGGGCTTCGGCCCCGAGTAGAGTGGCGCACGG	3	<i>Desulfovibrio</i> sp. UNSW3caefatS (AF056091)	98
SR-ad-50	CGAGGGGCAGCATAATCGAAGCTTGCTTTGATTGATGGCGACCGGCGCACGGGT	1	<i>Prevotella ruminicola</i> ATCC 19189 (L16482)	100
SR-ad-51	CGAACGGGGTTATTTAGAAGCTTGCTTTTGGATAACTTAGTGGCGGACGGGT	5	Unidentified rumen bacterium RC7r-54 (AB034190) <i>Paenibacillus polymyxa</i> WY110 (AY302439)	100 88
SR-ad-52	CGAGGGGCAGCATGTCCGTTGCTTGCAACCGATGATGGCGACCGGCGCACGGGT	6	<i>Prevotella</i> sp. CB25 (AB064924)	100
SR-ad-53	CGAACGGGTGTAGCAATACATCAGTGGCGAACGGGT	4	Uncultured bacterium clone KD1-11 (unclassified <i>Comamonadaceae</i> ; AY188292) <i>Opitutus terra</i> ACB90 (AJ229246)	97 70
SR-ad-54	CGAACGGGGATTTTGTTCGGCAGAATCCTCAGTGGCGCGC	1	<i>Succiniclasticum ruminis</i> SE10 (X81137),	94
SR-ad-55	CGAACGGAGTCAGAAAGCTTGCTTTTGTACTTAGTGGCGGACGGGT	1	Uncultured low G+C G <sup>+</sup> bacterium 9Iev (unclassified <i>Clostridiales</i> ; AJ287747) <i>Desulfotomaculum</i> sp. FSB6 (AJ271831)	91 74
SR-ad-56	CGAGCGAGAATCTCTTCAGAAGCGTTTTTCGGACAATTCCGAGGAGAGGAAAGCGGCGGACGGGT	1	Uncultured bacterium clone GC120.12 ( <i>Eubacteriaceae</i> , AY511873) <i>Eubacterium</i> sp. C2 (AF044945)	81 78
SR-ad-57	GCGTACGGGAACCTAAGAAGGAAGCTTGCTTTTCAATTTAAACCTAGTGGCGGAC	1	Uncultured rumen bacterium ( <i>Clostridiales</i> ; AY006790) <i>Desulfotomaculum</i> thermosapovorans (Z26315)	93 77
SR-ad-58	CGAACGGGCTTAGATCGGAAGCTTGCTTTTGTATTAAAGTTAGTGGCGGACGGGT	25	Unidentified rumen bacterium RC10 ( <i>Lachnospiraceae</i> ; AF001702) <i>Desulfosporosinus auripigmenti</i> DSMZ 13351 (AJ493051)	83 69
SR-ad-59	CGAGGGGCAGCATGGAGTCAGCTTGCTGGCTCTGATGGCGACCGGCGCACGGGT	3	Uncultured rumen bacterium clone BE8 ( <i>Prevotella</i> ; AY244925) <i>Prevotella heparinolytica</i> (L16487)	96 85
SR-ad-60	CGAACGAGGGTGCAGGAGAGCTTGCTCGAA	1	<i>Geobacillus thermodenitrificans</i> T4 (AF114426)	67
SR-ad-61	CGAACGGAGATACGCGGAATGCGGAKTTGTCCAAATGAAGCGTATACCTAGTGGCGGACGG	1	<i>Ruminococcus</i> sp. CCUG 37327 (AJ318864)	66
SR-ad-62	GGGGCAGCATAACGAAAGCTTGCTTTTGTGATGGCGACCGGCGCACGGGT	2	Unidentified rumen bacterium 30-45 (AF018539) <i>Prevotella ruminicola</i> ATCC 19189 (L16482)	100 92
SR-ad-63	CGAGGGGCATCATTATCGAAGCTTGCTTTGATTGATGGCGACCGGCGCACGGGT	1	Unidentified rumen bacterium 30-39 (AF018533) <i>Prevotella</i> aff. <i>ruminicola</i> Tc2-24 (AJ009933)	98 96
SR-ad-64	CGAACGGGGGTTTTGCTTCGGTAGAACCCCTAGTGGCGAACGGGT	4	Uncultured rumen bacterium clone BS1 (AY244957) <i>Succiniclasticum ruminis</i> (X81137)	97 90
SR-ad-65	GAACGGAGTATATTTAAAAGCTTGCTTTTGTATTATACCTAGTGGCGGACGGGT	1	Unidentified rumen bacterium RC7 (AF001700) <i>Anaerobranca californiensis</i> Paoha-2 (AY064217)	98 88
SR-ad-66	CGAGCGGAGACATGTTTCGGAGAGCTTCGGCAGGAAGAGATATGTTTAGCGGCGGACGGGT	2	<i>Clostridium propionicum</i> DSM 1682 (X77841)	81
SR-ad-67	CGAGGGGCAGCAGGACGATAGCTTGCTATTGTTGCTGGCGACCGRCGCACGGGT	1	Uncultured rumen bacterium clone BE23 (AY244934) <i>Prevotella</i> sp. Sp158 (AB003387);	98 88
SR-ad-68	CGAACGGAGTTTAGATGAAACCTAGTGATTCTAAACTTAGTGGCGGACGGGT	9	Uncultured bacterium A11 (AF349430) <i>Desulfotomaculum ruminis</i> Eig1 (AY340810)	96 92
SR-ad-69	CGAGGGGCAGCATGGTCTTAGCTTGCTAAGGCCGATGGCGACCGGCGCACGGGT	7	<i>Bacteroides vulgatus</i> (AB050111)	100
SR-ad-70	CGAACGGAGATACTGAGAGCTTGCTTTTGGTATCTTAGAGCGGACGG	2	<i>Anoxybacillus flavithermus</i> AB02 (AF001961) Uncultured rumen bacterium (AY006833)	85

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SR-ad-71	CGAGGGGCAGCAGATCGAAAGCTTGCTTTTGATGCTGGCGACCGGCGCACGGGT	3	<i>Prevotella</i> sp. sp28 and sp128 (AB003387) (sp28 and sp128 are identical) <i>Prevotella ruminicola</i> T31 (AB003403)	100 98
SR-ad-72	CGAACGAAGCACTGAGAAATGAAGCTTTCGGGTTGATTTTCTCTTTGACTTAGTGGCGGACGG	2	Uncultured rumen bacterium (unclassified <i>Bacteria</i> ; AY006579) <i>Butyrivibrio</i> sp.; sp42 (AB003393)	88 75
SR-ad-73	CGAACGGAGTATTAGAAAATGAAGTTTTCGGATGGATTTTTTAATACTTAGTGGCGGACGGGT	1	<i>Clostridium boltei</i> 16351 (AJ508452)	86
SR-ad-74	CGAACGGGCGAAGGGAGCTTGCTCCCGGAGCTAGTGGCGAACGGGT	2	<i>Desulfovibrio</i> sp. FSPa4-5 (AJ252167)	91
SR-ad-75	CGAACGAAGCACTTTTGGCGGATCCCTTCGGGGTGAAGCCGGTTGTGACTTAGTGGCGGACGG	1	Uncultured bacterium clone p-986-s962-5 (AF371623) <i>Butyrivibrio</i> sp. oral clone DA074 (AF287768)	84 81
SR-ad-76	CGAGCGGAACACTTTCGGGTGTTTAGCGGCAGACGGGT	12	Uncultured <i>Alphaproteobacterium</i> clone uvi7 (AY186845)	90
SR-ad-77	CGAACGGAGATATGCGCTGATTGAAGCTTCGGCAGATTTCTTGCATATCTTAGTGGCGGACGGGT	3	<i>Butyrivibrio fibrisolvens</i> ATCC 19171 (U41172)	89
SR-ad-78	CGAGGGGCAGCGAGAAGAAAGCTTGCTTTCTTTGTCGGCGACCGGCGCACGGGT	11	<i>Prevotella ruminicola</i> TC2-28 (AF218619)	100
SR-ad-79	CGAGCGGTAAGTTGGAAGCTTGCTTCTAACCTAGAGCGGCKGACGGGT	1	Unidentified rumen bacterium RC1 (AF001693) <i>Treponema bryantii</i> RUS-1 (M57737)	98 79
SR-ad-80	CGAGGGGCASCATGAASTGGGGCARCCTGAAKTTTGCTTGCAAACCTTTGATGGCGACCGGCGCACGGGT	1	Unidentified rumen bacterium 30-31 (AF018525) <i>Bacteroides acidofaciens</i> A1 (AB021164)	81 77
SR-ad-81	TTGACCGTGCAGCTTAACGCATGCAAGT	10	Uncultured bacterium clone LCT176 (AF499867)	68
SR-ad-82	ACGGTAAAATCCCTTCGGGGGATTGAGAGTGGCGGACCGGT	1	Uncultured bacterium, p4g02ct-1 (unclassified <i>Sphingobacteriales</i> ; AY578665) <i>Lonepinella koalarum</i> (Y17191)	100 60
SR-ad-83	ACGGATATTTGAGTTTACTTAGGATATCTTAGTGGCGGACGG	1	<i>Ruminococcus flavefaciens</i> Y1 (AF104846)	93
SR-ad-84	CGAGGGGCAGCATATCGAAAGCTTGCTTTTGATGATGGCGACCGGCGCACGGGT	6	Uncultured rumen bacterium clone BE12 (AY244929) <i>Prevotella</i> sp. sp28 (AB003387)	100 96
SR-ad-85	CGAGGGGCAGCAGGACGGTAGCTTGCTACTGTGCTGGCGACCGGCGCACGGGT	2	Unidentified rumen bacterium 12-125 (AF018494) <i>Porphyromonas gingivalis</i> 3-PGI (AF414812)	96 87
SR-ad-86	CGAACGGTAAGCCGAGCGTAGCAATACGTGAGGTACACGAGTGGCGCACGGGT	2	Uncultured rumen bacterium clone BF8 (AY244886) <i>Cytophaga</i> sp. Dex80-37 (AJ431253)	90 78
SR-ad-87	CGAACGGAGATGAGAGAGCTTGCTTTCTCATCTTAGTGGCGGACGGGT	1	Uncultured rumen bacterium clone BE33 (AY244949) <i>Faecalibacterium prausnitzii</i> clone 1-88 (AY169430)	91 89
SR-ad-88	GAGCGGGGACCAGGAAGAGCTTGCTCAGAACTGGTTTCAGCGGCGGACGGGT	2	Uncultured bacterium clone OLDC-A2 (AB099780) <i>Pseudomonas aeruginosa</i> TERI 7003 (AY269191)	87 74
SR-ad-89	CGAGGGGCAGCATTGTGCAAGCTTGCTTTGACAGATGGCGACCGGCGCACGGGT	1	Uncultured rumen bacterium clone BE32 (AY244946) <i>Prevotella</i> aff. <i>ruminicola</i> Tc2-24 (AJ009933)	100 96
SR-ad-90	CGAGCGGGACTCTTTCGGGAGTCTAGCGGCAGACGGGT	2	Uncultured earthworm cast bacterium clone c309 (AY154646) <i>Clostridium pascui</i> DSM 10365 (X96736)	87 77
SR-ad-91	CGAACGGGAATTACATTTTACGTTGCTAAGTTGTAATTCTAGTGGCGGACGGGT	10	UI rumen bacterium RFN27 (AB009185) <i>Ruminococcus obeum</i> clone 1-56 (AY169424).	100 73
SR-ad-92	CGAACGGGGCGATTGAAAGCTTGCTTTTAAAGAGCCTAGTGGCAAACGGG	2	Unidentified rumen bacterium RF4 (AF001737) <i>Selenomonas</i> sp. oral clone GT010 (AY349405)	97 92
SR-ad-93	CGAACGGGAGAAATTTGCTTCGGTGAATTCCTAGTGGCGAACGGGT	1	<i>Phascolarctobacterium faecium</i> ACM3680 (X72867)	89
SR-ad-94	CGAACGAGCCTTGTCGGACGGATCCCTTCGGGGTGAAGACCGGCGCTGGCGAGTGGCGGACGGGT	1	Uncultured bacterium clone COB P1-1 (AY160841) <i>Peptoniphilus ivoricus</i> DSM 10022 (Y07840)	82 71
SR-ad-95	CGAACGGAGTGTCTAAAGCTTGCTTTGAACACTTAGTGGCGGACGGGT	2	Uncultured rumen bacterium (AY006847) <i>Bacillus</i> sp. SCD-2001 (AY046591)	91 85
SR-ad-96	ATCCTTTCGGGGTGACGATTTGTTGACTGAGTGGCGGACGGGT	1	<i>Butyrivibrio fibrisolvens</i> 16.4 (AJ250365.2)	97

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SR-ad-97	AGGGGCAGCATGGGGATGGCTTGCCATTCCCAGTGGCGACCGGCGCA CGGGT	2	Uncultured rumen bacterium clone BF20 (AY244898) <i>Prevotella loescheii</i> ATCC 15930 (L16481)	92 91
SR-ad-98	CGAACGGGGTTTAAAGAAGGAAGCTTGCTTTTCATTTTAAACCTAGCGGC AGACGG	1	Uncultured rumen bacterium ( <i>Clostridiales</i> ; AY006790) <i>Desulfotomaculum putei</i> ; SMCC W463 (AF053933)	96 82
SR-ad-99	CGAACGAAGCTCTCACACTCGAGTTTTCGGACAAGAGAGTGAGATGA CTTAGTGGCGGACGGGT	1	Uncultured <i>Clostridiaceae</i> bacterium clone Rs-Q69 (AB089029) <i>Eubacterium xylanophilum</i> ATCC 35991 (L34628)	88 56
SR-ad-100	GAGCGKATACATTTGAAAATTTGYTTTTTGGATGTTTCAGCGGCGGA CGGGT	2	Uncultured bacterium clone GOUTA13 (unclassified <i>Clostridiales</i> ; AY050603) <i>Clostridium scatologenes</i> (M59104)	70 62
SR-ad-101	CGAGGGGTAACATGATAGAAGCTTGCTTTTATTGATGACGACCGGCG CACGGGT	3	Uncultured rumen bacterium 30-27 (AF018522) <i>Prevotella bryantii</i> C21a (AF396925)	92 90
SR-ad-102	CGAGGGGCAGCATMAAGTTTGCTTGCWATGTTTCGATGGCGACCGGCA CACGG	1	<i>Prevotella</i> sp. oral clone FX046 (AY134905) <i>Bacteroides uniformis</i> isolate WH207 (AY349154)	92 86
SR-ad-103	GGGGCAGCTTGAAGTTTGCTTGCAACGAATCAGGAGACCAGCTGRCA GGACG	1	Unidentified rumen bacterium 30-31 (AF018525) <i>Bacteroides acidofaciens</i> A32 (AB021164)	71 69
SR-ad-104	AGGGGCAGCATTGGAAGCTTTCATTTGGTAGATGGCGATTGACGCA CGGGT	1	bacterium mpn-isolate group 2 (AY028443) <i>Prevotella ruminicola</i> TF2-5 (AF218620)	81 75
SR-ad-105	CGAGAGGCAGTAGGAAGCTCGCTTGCAAACCTTGTATGGCGACCGGCG CACGGGT	1	Uncultured bacterium clone p-828-a5 (AF371888) <i>Prevotella</i> sp. Smarlab 121567 (AF487886)	93 85
SR-ad-106	CGAGGGGCAGCATGTCGGTTGCTTGCATCAGATAATGGCGACCGGCG CACGGGT	1	<i>Prevotella</i> sp. CB25 (AB064924)	94
SR-ad-107	CGAACGGAGTTTAAAGAAGGAAGCTTGCTTTTCATTTTAAACTTTATGGC GGACGGGT	1	Unidentified rumen bacterium RC31 ( <i>Clostridiaceae</i> ; AF001733) <i>Butyrivibrio fibrisolvens</i> C211 (AF396926)	96 73
SR-ad-108	CGAGGGGCAGCATGACGAGTMCTTACACTTGGTGATGGCGACCGGCG TACGGGG	1	Unidentified rumen bacterium RF18 (AF001750) <i>Prevotella buccae</i> isolate MBRG 6.2 (AJ514252)	88 83
SR-ad-109	CGAACGGGGTTTAAAGAAAGAACTTGCTTTTCATTTTAAAKKTAGTGGC GCACGGGT	1	Unidentified rumen bacterium RC31 (AF001733) <i>Desulfotomaculum thermosapovorans</i> MLF (Z26315)	90 80
SR-ad-110	CTAGGAGGAGCATGAAGTAMGCTTGCAAACCTTYGAAGGCSACCGGGT CGCGG	1	Uncultured bacterium clone p-828-a5 (AF371888) <i>Bacteroides acidofaciens</i> A40 (AB021164)	83 79
SR-ad-111	GGGATATGTTTGATGAGAGCTTCGGCAGGAATCGGATGTGTTCTAGCG GCGGACGGGT	1	Uncultured rumen bacterium clone 41 (AF293943) <i>Paracoccus yeeii</i> G3060 (AY014179)	85 60
SR-ad-112	CGAGCGAGAAGGTCAAGAACAGAGATTCGTCAACGGGAATGACCGG ACAGCGGCGGACGGGT	1	Unidentified rumen bacterium RF21 (AF001753) <i>Guggenheimia bovis</i> str. OMZ913 (AY272039)	81 79
SR-ad-113	CGAACGGGGATAAAGATGAAACCTAGTGATTTTTTATCCTAGTGGCG GACGG	1	<i>Desulfotomaculum ruminis</i> str. DL (M34418)	87
SR-ad-114	CGAACGAAGCACTTAGTTACGATCCCTTCGGGGTGACGACTTTGTGAC TGAGTGGCGGACGGG	1	Uncultured bacterium clone p-2581-9F5 (AF371604) <i>Butyrivibrio fibrisolvens</i> OB192 (U41171)	96 93
SR-ad-115	CGAACGGACGAGAAGGAGCTTGCTCCTTCAAGTTAGTGGCGGACGGG T	8	Uncultured bacterium cknem147-F1M.1F6 (AF376380) <i>Bacillus sphaericus</i> B-232-68 (AF169495)	95 88
SR-ad-116	CGAACGGTGTTTACTTAGCTTGCTTTGTAACATAGTGGCGGACGGGT	1	Uncultured rumen bacterium (AY006731) <i>Desulfotomaculum ruminis</i> (AY340810)	91 73
SR-ad-117	CGAACGGGGCTGAATAGCTTGCTATGAAAGCCTAGTGGCAAACGG	1	Unidentified rumen bacterium RF4 (AF001737) <i>Schwartzia succinivorans</i> DSM 10502T (Y09434)	83 78
SR-ad-118	CGAACGGAGTATTTCCGCCGAGACCTGAGGTAGCTTGCTACGGATGG AATCAATTGAAATACTTAGTGGCGGACGG	1	Uncultured rumen bacterium 4C0d-12 (unclassified <i>Clostridiales</i> ; AB034025) <i>Eubacterium ruminantium</i> GA195 (AB008552)	88 86
SR-ad-119	CAGCTTAATGCATGTATGT	1	<i>Porphyromonas canoris</i> VPB 4882 (X76261)	68
SR-ad-120	CGAGGGGCAGCGTGACGAGTGCTTGCACTTGTTGATGGCGACCGGCG	4	Unidentified rumen bacterium RF18 (AF001750)	94

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	CACGGGT		<i>Prevotella enoeca</i> ATCC 51261 (AJ005635)	88
SR-ad-121	CGAACGGTAAGGTCCGAGGTAGCAATACCGAGGATACACGAGTGGCG CACGGGT	1	Uncultured <i>Bacteroidetes</i> bacterium clone SBseep1 (AY456988) <i>Flexibacter tractuosus</i> IFO 16482 (AB078076)	82 75
SR-ad-122	CGAACGGAGACATTTTGGTTTACTGAGATGTCTTAGTGGCGGACGGGT	4	<i>Ruminococcus flavefaciens</i> LP9155 (AF104836)	95
SR-ad-123	CGAACGTGAAAGTGGCTTCGGCCATGAGTAAAGTGGCGCACGGGT	1	<i>Desulfovibrio intestinalis</i> KMS2 (Y12254)	93
SR-ad-124	CGAACGAAGCACTTACGATTGACTGGAGAGCTTGCTCGAAGGGATTT TGTTTGTGACTTAGTGGCGGACGG	1	Uncultured bacterium clone p-2622-9F5 (AF371722) <i>Lachnospiraceae</i> oral clone MCE9_104 E2 (AF481219)	72 70
SR-ad-125	CGAGGGGCAGCATGTTGGTTGCTTGCAACCAATGATGGCGACCGGCG CACGGGT	1	Unidentified rumen bacterium YS1 (AF544206) <i>Prevotella</i> sp. CB25 (AB064924)	100 96
SR-ad-126	CGAACGGAGTTTATATGAAACCTAGTGATTATAAACTTAGTGGCGGA CGGGT	8	Unidentified rumen bacterium RFN48 ( <i>Lachnospiraceae</i> ; AB009204) <i>Desulfotomaculum ruminis</i> DSM 2154 (Y11572)	100 64
SR-ad-127	CGAACGGAGTTACTTTTGGATGGAGATTCGTCAAAGTCAGCTGTAACCT AGTGGCGGAC	1	Uncultured rumen bacterium 6C3d-31 (AB034075) <i>Butyrivibrio fibrisolvens</i> OB251 (U77341)	83 81
SR-ad-128	CGAGGGGCAGCATGAAGTTTGCTTGCAAACCCCGATGGCGACCGGCG CACGGGT	2	Uncultured <i>Prevotella</i> PUS9.180 (AJ012605) <i>Prevotella</i> sp. E9_42 E4 oral isolate (AF481229)	100 96
SR-ad-129	CGAACGAAGCCAAAAGGAAGCTTGCTTTCTTTGAAGCTTAGTGGCGG ACGGGT	3	Uncultured rumen bacterium ( <i>Clostridiales</i> ; AY006699) <i>Paenibacillus</i> sp. R-7652 (AY382189)	100 85
SR-ad-130	CGAACGGAGTATATGCGCTGATGATCGAAGTGCTTGCATAGAGAGAA TCATGTGTATACTTAGTGGCGGACGGGT	7	Uncultured rumen bacterium (AY006667) <i>Ruminococcus</i> sp. CCUG 37327 (AJ318864)	97 67
SR-ad-131	CGAACGGCAGCAGCAATGCTGTAGTGGCGAACGGAACCTTGATGGCG ACCGGCGCACGG	1	Uncultured bacterium clone p-828-a5 (AF371888) <i>Clostridium spiroforme</i> DSM 1552 (X73441)	75 66
SR-ad-132	AGGGGCAGCATTATCGAAGCTTGCCAGATAGATGRCGACCGGCGCAC GGGT	1	<i>Prevotella</i> aff. <i>ruminicola</i> Tc2-24 (AJ009933)	92
SR-ad-133	CGAGCGGAGACATGTTCCGGAGAGCTTCGGCAGGAAGAGATATGAAT AGCGGCGGACGGGT	1	<i>Clostridium propionicum</i> DSM 1682 (X77841)	75
SR-ad-134	CGAACGGAAGAGAAGGAGCTTGCAAGCTCAATTTAGTGGCGGACGG	1	<i>Pelotomaculum</i> sp. FP (AB159558)	83
SR-ad-135	AGCGGAGACATTTGGAAAGCAGCTTTTTGAATGTTTCAGCGGCGGAC GGGT	1	<i>Paenibacillus odorifer</i> TOD45 (AJ223990)	80
SR-ad-136	GAACGGAGAGTTTTTCTTCGGAGAAGCTYTTAGTGGCGGACGGGT	1	Uncultured rumen bacterium (AY006892) <i>Heliobacterium chlorum</i> (M11212)	93 78
SR-ad-137	CGAGGGGCAGCATGAAGTTTGCTTGCAAACCTTTGATAACGACCGGCG AACGGGT	1	Uncultured bacterium clone p-828-a5 (AF371888) <i>Bacteroides acidofaciens</i> A40 (AB021164)	94 91
SR-ad-138	GAACGAAGCACTTGAGATGAGACCTTCGGGTGGATTTTCTTGTGACTT AGTGGCGGACGG	1	<i>Eubacterium uniforme</i> ATCC 35992 (L34626)	86
SR-ad-139	ACAGCCTGCAAGCCGCCAAAGTGTGCGCCACCACAGCCTGGCCAGC CACCGGGTGGTACTGCTTGGGGCC	1	No match to <i>rrs</i>	
SR-ad-140	CGAGCGGAGATTCCAGGAAGAGCTTGCTCGGAGAGGAATTCAGCGG CGGACGGGT	1	Uncultured bacterium DA114 (AJ000980) <i>Sporosarcina</i> sp. IDA3546 (AJ54477)	73 71
SR-ad-141	GAGCGGGAATCTGTTGATTGAGACTTCGGTGGATTGATGCAGAGGAT AGCGGCACGG	1	Uncultured rumen bacterium (AY006886) Uncultured bacterium Eub No. 20 ( <i>Clostridiales</i> ; AF395430)	100 70
SR-ad-142	CGAGGGGCAGCATGAAGTTTGCTTGCAAACCTTTGATGGCGACCGGCA CTCGG	1	Uncultured bacterium clone p-828-a5 ( <i>Prevotella</i> ; AF371888) <i>Prevotella</i> sp. <i>Smarlab</i> 121567 (AF487886)	96 93
SR-ad-143	CGAACGGAACCATTAGATAGTTTACTATTTGAGAAGTTTTAGTGGCG GACGGGT	1	Unidentified rumen bacterium RC27 (unclassified <i>Lachnospiraceae</i> ; AF001716) <i>Desulfosporosinus limneticum</i> (AJ582757)	69 60
SR-ad-144	CGAACGGACGAGGGGAGCTTGCTCCCAAGTTAGTGGCGGACGG	1	Uncultured bacterium cknm147-F1M.1F6 (AF376380) <i>Bacillus</i> sp. isolate LMG 19493 (AJ315061)	95 77

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SR-ad-145	CGAACGGGGATTTTGTTCGGCAGAATCTAKGTGACTCAC	1	<i>Succiniclaticum ruminis</i> SE10 (X81137)	85
SR-ad-146	CGAGCGGAGACATACGACGGAGATGAAAGTTTTTCGGATGGAGTCAAAG ATGTATGTTTTAGCGGCGGACGG	2	Uncultured rumen bacterium F23-F11 (AB185554) <i>Clostridium cellobioparum</i> DSM 1351 (X71856)	96 59
SR-ad-147	CGAGGGGCAGCATGAAGTTTGCTTGCAAACCTTTGATGGCGTACGGCTT CGG	1	Uncultured bacterium clone p-828-a5 ( <i>Prevotella</i> ; AF371888) <i>Bacteroides acidofaciens</i> , A29 (AB021160)	90 86
SR-ad-148	CGAGGGGCAGCATTATCGAAGCTTGCTTTGGTAGATGGCGACCGGCG CACGGGT	1	<i>Prevotella</i> aff. <i>ruminicola</i> Tc2-24 (AJ009933)	98
SR-ad-149	CGAACGGAGTATTGAGAATGAAGTTTTTCGGATGGATTTTTTAATACTT AGTGGCGGACGGGT	3	<i>Clostridium boltei</i> 16351 (AJ508452)	86
SR-ad-150	CGAACGGAGATCATATGGACAGAGGCTTCGGCCGAAGGAAGTTTGTAT CTTAGTGGCGGACGGGT	1	Uncultured bacterium clone p-192-o5 (unclassified <i>Lachnospiraceae</i> ; AF371548) <i>Termitobacter aceticus</i> SYR (Z49863)	84 64
SR-ad-151	CGAACGAAGCTTGAAGAATGATTTCTTCGGAATGAATTTTGATATGAC TTAGTGGCGGACGGGT	1	Uncultured bacterium clone p-4546-4Wb3 (AF371766) <i>Eubacterium xylanophilum</i> ATCC 35991 (L34628)	96 77
SR-ad-152	CGAACGGGGTTTAAGAAGGAAGCTTGCTTTCATTTAAACCTAGCGGC ACGG	1	Uncultured rumen bacterium ( <i>Clostridiales</i> , AY006790)	100
SR-ad-153	CGTGCGGAAACACTTTTTGTGTGTTTAGCGTCAGACGGGT	1	Uncultured alpha <i>Proteobacterium</i> clone uvi7 (AY186845) <i>Phormidium minutum</i> D5 (X62685)	79 76
SR-ad-154	CGAACGGAGTTTAAGAAGGAAGCTTGAATTCATMTTAAAKCTAGGGC CCACGG	1	Unidentified rumen bacterium RC31 (AF001733) <i>Desulfotomaculum ruminis</i> DSM 2154 (Y11572)	85 72
SR-ad-155	CGAGGGGCAGCAGGGGAGCAATCCCCTGGCGACCGGCGCACGGGT	10	Uncultured rumen bacterium (AY006833) <i>Ruminococcus</i> sp. 16442 (AJ318889)	100 90
SR-ad-156	CGAGCGTGGCAGCAATGCCGAGCGGCGAACGGGT	1	<i>Flexibacter japonensis</i> IFO 16041 (AB078055)	91
SR-ad-157	GAACGGAACTACTCGCTGAAGCGAACTCGTTCAATTCTTGAGTAGTT TTAGTGGCGGACGGGT	1	<i>Fibrobacter succinogenes</i> R (M62685)	97
SR-ad-158	CGAACGGAGTTATCGAGAGCTTGCTTTTGATAACTTAGTGGCGGACGG		Uncultured bacterium clone p-247-o5 (AF371576) <i>Ruminococcus flavefaciens</i> LP-C14-Adx (AF104834)	80 64
SR-ad-159	GCAAGACTGAGGGCCAGCATGAAGTTTGCATTTGCAAACCTTATGAT GGCGACCCGGGCGCACGGGT	1	<i>Bacteroides acidofaciens</i> str. A40 (AB021164)	85
SR-ad-160	CGAACGGGGTTTAAGAAGGAAGCTTGCTTTCATTTTTAAACCTAGTGG CGGACGGGT	1	Uncultured rumen bacterium (AY006790) <i>Desulfotomaculum nigrificans</i> (AB026550)	98 87
SR-ad-161	CGAACGGACTGATTCCTTCGGGGATGAAAGTTAGTGGCGGACGGGT	3	Uncultured bacterium clone HTE5 (AF418957) <i>Paralactobacillus selangorensis</i> LMG 17714 (AF049742)	85 72
SR-ad-162	CGAGCGGAGACACATGACGGATATGAAGTTTTTCGGATGGAGTAGAAG ACATGTGTTTTAGCGGCGGACGGGT	1	Uncultured rumen bacterium 3C0d-14 (AB034013) <i>Acinetobacter</i> sp. W-17 (AF390089)	86 57
SR-ad-163	CGAACGGGGTTTTAACGCTTCCGAAGCTTCGGCAGAGGATTGTTAAA ACTTAGTGGCGGACGGGT	2	Unidentified rumen bacterium RC22 (AF001712) <i>Butyrivibrio hungatei</i> Su (AY178635)	86 83
SR-ad-164	GAGTTGTTACGCTGAAGAGGCTTCGGCTGAATCTTGTAGCAACTTAGT GGCGGACGGGT	1	<i>Butyrivibrio fibrisolvens</i> JK 615 (AJ304799)	83
SR-ad-165	CGAGCGAGAAATCCATGATCGGAGATTCGTCAAAGTGATTGGATGGA CAGCGGCGGACGGGT	1	<i>Eubacterium</i> sp. oral clone FX033 (AY134904)	84
SR-ad-166	CGAACGAAGCACTTTCAAACGGAGATTCGTCAAAGTTTGGATTTGACT TAGTGGCGGACGGGT	1	<i>Firmicutes</i> sp. oral clone CK051 (AF287774)	100
SR-ad-167	CGAGCGGACATTGCGACAGAATTGAAGTTTTTCGGATGGATAGGAAGA TGCAATG	1	Uncultured rumen bacterium 4C0d-10 (AB034023) <i>Clostridium hathewayi</i> DSM 13479 (AJ311620)	87 67
SR-ad-168	GAGGGCAGCGGGACGTAGCAATACGTTGCCGGCGACCGGCGCACGG GT	1	Uncultured <i>Bacteroidaceae</i> bacterium (AB088927) <i>Cytophaga hutchinsonii</i> ATCC 33406 (M58768)	93 92

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SR-ad-169	GAGCGAAGCGCCTGATCTGATTTCTTCGGATTGAAGTGAAGGATGACT GAGCGGCGGACGGGT	1	Uncultured rumen bacterium clone 27 (AF293929) <i>Ruminococcus gnavus</i> clone B09 (AY341237)	87 84
SR-ad-170	GAACGGGGCTGATTAGCTTGCTAAGAAAGCCAGTGGCAAACGGGT	1	Uncultured rumen bacterium clone BS17 (unclassified <i>Acidaminococcaceae</i> ; AY244971). <i>Megasphaera elsdenii</i> S2 (U95028)	85 63
SR-ad-171	CGAACGGAGCTATTTAGACGGAACCCCTTCGGGGGGAAGATTACTTAG CTTAGTGGCGGACGGGT	1	Uncultured rumen bacterium 3C3d-13 (AB034076) <i>Firmicutes</i> sp. oral clone CH017 (AF287775)	85 84
SR-ad-172	CGAGGGGCAGCATGGGGTTTGCTTGCAAACCCCGATGGCGACCGGCG CACGG	1	<i>Prevotella</i> sp. E9_42 E4 oral isolate (AF481229) <i>Prevotella loescheii</i> ATCC 15930 (L16481)	100 95
SR-ad-173	AACGATTAAGACCCCTTCGGGGTGAATAAAGTGGCGAACGGGT	1	<i>Rubrobacter radiotolerans</i> JCM 2153-T (U65647)	90
SR-ad-174	CGAACGAGAATCTAAGGACGGAGTTTTTCGGACAACCTGAATTAGAGGA AAGTGGCGGACGGGT	1	<i>Oscillospira</i> sp. H (AY244482)	89
SR-ad-175	GAGCGGTAAGTTGTAGCTTGCTACAACCTAGAGCGGCGGACGG	1	Unidentified rumen bacterium RC1 (AF001693) <i>Treponema bryantii</i> RUS-1 (M57737)	89 82
SR-ad-176	CGAGCGGGGACATTGCGACAGATATGAAGTTTTTCGGATGGATTTGAA GATGTAATGTTCTAGCGGCGGACGGGT	3	Uncultured rumen bacterium 4C0d-10 (AB034023) <i>Clostridium hathewayi</i> DSM 13479 (AJ311620)	94 72
SR-ad-177	CGAACGGGGATGCACCGCTGATGCGATTTTCGGTCAAATCTTGGTGTAT CCTAGTGGCGGACGG	1	Uncultured bacterium clone p-619-a5 (AF371578) <i>Butyrivibrio fibrisolvens</i> H17c(SA) (AF125902)	84 82
SR-ad-178	CGAACGAAGCACCTATCCGGATTTCTTCGGACTGACGGATTTGTGACT TAGTGGCGGACGGAT	1	<i>Roseburia intestinalis</i> L1-8151 (AJ312386)	83
SR-ad-179	CGAGGGGCAGCATGAAGGAAGCTTGCTTCTTTGATGGCGACCGGCG CACGGGT	2	Unidentified rumen bacterium 12-56 (AF018470) <i>Prevotella ruminicola</i> ATCC 19189 (L16482)	94 89
SR-ad-180	GAACGGGGAACAAACGCTTCGGCATTGTTTCCAGTGGCGGACGGGG T	1	Uncultured <i>Pseudomonas</i> sp. PsEF (AF453297) <i>Ruminococcus</i> sp. CO27 (AB064900)	71 54
SR-ad-181	AAGATGGAAGCTTGCTTCTATCCTAGAGCGGCGGACGGGT	1	Unidentified rumen bacterium RC1 (AF001693) <i>Treponema vincentii</i> OMZ 862 (AY369253)	92 88
SR-ad-182	CGAGGGGCAGCGGGGTGGCAACATCTGGCGGCGACCGGCGGACGG GT	1	Uncultured bacterium clone BA017 (AF323759) <i>Cytophaga</i> sp. (AJ224417)	95 90
SR-ad-183	CGAGCGGAGACATTTGAAAAGCTTGCTTTTTGGACAAGTGATGAGAA TTCTTAGTGGCGGACGG	1	<i>Paenibacillus odorifer</i> TOD45 (AJ223990)	73
SR-ad-184	CAGCCTAACGCATGCATGTGCAACGAGAAAGGGGCTTCGGCCCTGAG TAGAGTGGCGCACGGGT	1	<i>Desulfomicrobium</i> sp. 'Delta +' (AF443593)	95
SR-ad-185	CGAACGAGAAGCACTGGAAGGAGTTTTTCGGACAACGGAAGGTGTGGA AAGTGGCGGACGGGT	2	<i>Oscillospira</i> sp. A (AY244481)	100
SR-ad-186	CGCCATCAAAGTTTTGCTTGCAAACCTTTGATGGCGACCGGCGCACGGGT	1	<i>Bacteroides acidofaciens</i> A40 (AB021164)	92
SR-ad-187	GAGCGGAGCCATCTTGAAGATCCCTTCGGGGTGATTACGGGGAAGCT TAGCGGCGGACGGGT	1	Uncultured rumen bacterium 4C28d-12 (AB034126) <i>Thermohalobacter berrensis</i> CTT3 (AF113543);	85 79
SR-ad-188	CGAACGGAGGACCCCTGACGGAGTTTTTCGGACAACAGATAGGAATCC TTAGTGGCGGACGGT	2	Uncultured bacterium (AB099727) <i>Oscillospira</i> sp. D (AY244478)	100 85
SR-ad-189	AGTTATCGAGAGTTTGCTTTTGATAACTTAGTGGCGGACGGGT	1	Uncultured rumen bacterium (AY006833) <i>Eubacterium yurii</i> subsp. <i>margaretiae</i> ATCC 43715 (AY533381)	97 74
SR-ad-190	CGAACGGAGAGATACCCGATCGAAGCTTCGGCAGAAATCATGTATC TCTTAGCGGCGGACGGGT	2	Unidentified rumen bacterium JW23 (unclassified <i>Lachnospiraceae</i> ; AF018552) <i>Clostridium proteoclasticum</i> UC 142 (AJ428552)	90 77
SR-ad-191	CGAACGGGGTTAAGGGAAATTTTCGGATGGAACCTTAAGTGGCG GACGGGT	2	Uncultured rumen bacterium 6C3d-11 (unclassified <i>Lachnospiraceae</i> ; AB034059) <i>Ruminococcus flavefaciens</i> 17 (AF030450)	100 78

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SR-ad-192	CGAACGGGGTTTAAAGAAGGAAGCTTGCTTTCATTTTAGTACCTAGTGGCGGACGGGT	1	Uncultured rumen bacterium (AY006790) <i>Desulfotomaculum ruminis</i> DSM 2154 (Y11572)	96 84
SR-ad-193	CGAKCGGGTTTACACGCTGAYGAAGCTTCGGCAGAATCCTGTMTAACTTAGTGGCGGACGGGT	1	<i>Clostridium proteoclasticum</i> (AJ428552)	92
SR-ad-194	CGAGGGGCAGCACGAAGTAGGCTTGCTTCCTTTGATGSCGACCGGCGCACGGGT	1	Unidentified rumen bacterium 12-56 (AF018470) <i>Bacteroides fragilis</i> (AJ496330)	92 87
SR-ad-195	GAGCGAGAAGCCCATGACGGAATCTTCGGAAGACGGATTGGGCGGAAAGCGGCGGACGGGT	2	Uncultured bacterium clone CD5E4 (AY038419) <i>Eubacterium minutum</i> ATCC 700079 (AJ005636)	93 79
SR-ad-196	CGAACGGACCCATGGAATAGAATAAGCTTGCTAGGACATTCGGGAAGGTTAGTGGCGGACGGGT	1	Uncultured rumen bacterium (AY006671) <i>Acetobacter xylinus</i> BPR2001 (AJ007698)	90 65
SR-ad-197	CGAACGGAACTCTTTGGATCGAGACTT	1	Uncultured chicken cecal bacterium (AB075618)	92
SR-ad-198	CGAGCGAGAATTAAGGAAACGATACTTCGGTAAAGCGGAATTAAGGACAGCGGCGGACGGGT	1	Uncultured chicken cecal bacterium (AB075618) <i>Mogibacterium timidum</i> ATCC 33093 (Z36296)	92 69
SR-ad-199	CGAGGGGCAGCAGGCGGTAGCAATACTGTGCTGGCGACCGGCGCACGG	1	Uncultured <i>Bacteroidetes</i> bacterium (AY509348) <i>Dysgonomonas gadei</i> 1145589 (Y18530)	91 89
SR-ad-200	CGAACGGAGCACTTCGGTGCTTAGTGGCGAACGGGT	1	<i>Mesoplasma pleciae</i> ATCC 49582 (AY257485)	92
SR-ad-201	CGAACGGAGACTGTTGATGAAGCGGAAGGGCTTGCCCGGAAGTGGAAATGATAGTCTTAGTGGCGGACGG	2	<i>Ruminococcus flavefaciens</i> ATCC 49949 (AF030449)	56
SR-ad-202	CGAACGGGGTATCAACGCTGATGCGATTCGGTCAAATCTTGTTGATACCTTAGTGGCGGACGGGT	2	Unidentified rumen bacterium RF38 (AF001769) <i>Butyrivibrio fibrisolvens</i> OB248 (U77403)	89 82
SR-ad-203	CGAACGGGGCGATTGAAAGCTTGCTTTTCAAAGCCTAGTGGCAAACGGGT	2	Unidentified rumen bacterium RF4 (AF001737) <i>Schwartzia succinivorans</i> DSM 10502T (Y09434)	94 90
SR-ad-204	CGGACGGGGTCTTTTGATCAGCTTGCTGAATGAGAGGACCTAGTGGCAAACGGGT	1	Uncultured rumen bacterium clone BS17 (AY244971) <i>Schwartzia succinivorans</i> DSM 10502T (Y09434)	75 73
SR-ad-205	CGAACGAAGCACTTCTCCCGTCAAAGTAGATTAGCTTGCTATGAAGCGGAGACATTTGAAGTGAAGTACTTAGTGGCGGACGGGT	1	Unidentified rumen bacterium JW11 (unclassified <i>Clostridiales</i> ; AF018547) <i>Eubacterium xylanophilum</i> (L34628)	81 77
SR-ad-206	CGAGCGGAGACATGTAACGGAAAGCTTCGGCTGGAAGATATATGTTTAGCGGCGGACGG	1	Uncultured bacterium (AJ576348) <i>Clostridium propionicum</i> DSM 1682 (X77841)	85 82
SR-ad-207	CGAACGAAGCACAGGAAGCCGATCTTTCGGGCGAAGCATCTGTGACTTAGTGGCGGACGG	1	<i>Clostridium herbivorans</i> 54408 (L34418)	80
SR-ad-208	CGCACGTAWTTACGATCCCTTCGGGGTGACGATTTTGTGACTTAGTGGCGGACGG	1	Uncultured bacterium clone p-2581-9F5 (AF371604) <i>Pseudobutyrvibrio xylanovorans</i> JK 23/2 (AJ428550)	91 87
SR-ad-209	CGAGCGAGAAGCTCATGACCAATACTTCGGTAGCGTGAATGAGTGGAAGCGGCGGACGGGT	1	Uncultured bacterium clone FC110.31 (AY510891) <i>Eubacterium</i> sp. oral clone CK047 (AF287762)	88 82
SR-ad-210	CGAACGGAGCCAACCTGAAAGATCCCTTCGGGGTGAATCAGGGGAAGCTTAGTGGCGGACGGGT	1	<i>Lachnospiraceae</i> oral clone MCE9_31 E3 (AF481220)	81
SR-ad-211	GAGGGGCAGCATTGGGTTAGCTTGCTATTCCAGATGGCGACCGGCGCACGGGT	1	Uncultured rumen bacterium clone BF20 (AY244898) <i>Prevotella loeschei</i> (AJ555130)	98 85
SR-ad-212	CGAGCGGGGATATATTGGATGAGAGCTTCGGCAGGATTCTGGTATATTCTAGCGGCGGACGGG	1	Uncultured rumen bacterium clone 41 (AF293943) <i>Clostridium neopropionicum</i> DSM 3847 (X76746)	92 76
SR-ad-213	CGAGCGTGAAGGGGCTTCGGCCCTGAGTAAAGCGGCGCACGGGT	1	<i>Desulfovibrio intestinalis</i> KMS2 (Y12254)	93
SR-ad-214	CGAACGGACGAAGCTCTTCGGAGCCTAGTTAGTGGCGAACGGGT	1	<i>Kitasatospora</i> sp. IM-1725 ( <i>Streptomycetaceae</i> , AF131375)	86
SR-ad-215	CGAACGGAGTTAAGGAGGAGCTTGCTTCATCTTAACCTTAGTGGCGGACGGGT	1	Unidentified rumen bacterium RC23 (AF001713) <i>Ruminococcus</i> sp. 16442 (AJ318889)	92 90
SR-ad-216	GAGCGGAGACATATTTTGAAGGCTTCGGCCGGAAGAGATATGTTTT	1	<i>Eubacterium</i> sp. oral clone JN088 (AY349377)	75

RST ID	RST sequence (5'→3')	Count	Affiliations (taxon <sup>†</sup> ; GenBank accession No.)	S <sup>‡</sup>
	AGCGGCGGACGGGT			
SR-ad-217	AGGGGGCAGCATGATCAAAGCTTGCTTGAATGATGCCGACCCGGCGC ACGGGT	1	Uncultured bacterium clone HTE5 (AF418957) <i>Clostridium chromoreductans</i> GCAF-1 (AY228334)	88 71
SR-ad-218	CGAACGGGCTTACGGAATCCACCGTTGAGGCTTWAAGAGGTGAAGTC ACTTCGAGCGT	1	No match to <i>rrs</i>	
SR-ad-219	CGTGAATGCCAAAGCATTACCACACTTTTATAAAGTTGCTTACACTC TTAAGGGT	1	Uncultured bacterium RA2107 from equine GI tract ( <i>Mitsuokella</i> ; AY445133)	90
SR-ad-220	GAACGGTGAAGCCGGAAGCTAGTGGCAAACGGGT	1	Uncultured bacterium clone 2-20 (AY548946) <i>Selenomonas</i> sp. oral clone JI021 (AY349409)	77 74
SR-ad-221	CGAACCGGAGTTAACTTTTGATAGAGATTCCGTCAAAGTCAGCTTGTA ACTTTAGTTGGCGGACGGGGG	1	Uncultured eubacterium WCHB1-89 ( <i>Firmicutes</i> ; AF050588)	45
SR-ad-222	CAGCATGAAGTTTGCTTGCAAAACTTTTGATGGCGACCGGCGCACGG GT	1	<i>Bacteroides acidofaciens</i> A40 (AB021164)	96
SR-ad-223	CGAACGAGGTTTACTGGAGAGCTTGCTCGAAGGTAAGCGAGTGGCG GACGGGT	1	<i>Bacteroidetes</i> sp. NAB18 (AY395022)	78
SR-ad-224	CGAACGGACGATTCAGAATCGGAGATTCGTCGAAGAATCTGGAAAGT TAGTGGCGAACGGGT	1	uncultured <i>Spirochete</i> LF030 (AY605160)	94
SR-ad-225	CGAGCGAGAATCAAGTGAACGGAGATTCGTCAAAGTGATCTTGAGGA AAGCGGCGGACCG	1	Uncultured rumen bacterium clone 12 (AF293914) <i>Guggenheimia bovis</i> OMZ913 (AY272039)	96 82
SR-ad-226	CGAACGGAACTATTATGGAAAATCTTCGGATCGGAAGTTTTAGTTAG TGGCGAACGGGT	1	<i>Ruminococcus</i> sp. CO47 (AB064904)	87
SR-ad-227	GCAGTCCACGCGTTACGC	1	No match to <i>rrs</i>	
SR-ad-228	CGAACGGGGTTTAGCGAGAGCTTGCTTTTGCTAAACCTAGTGGCGGAC GGGT	1	<i>Desulfotomaculum thermosapovorans</i> DSM 6562 (Z26315)	90
SR-ad-229	GAGTAACACGTGAACTGCACGT	1	Uncultured soil bacterium; S017 (AF507698) uncultured <i>Treponema</i> sp.; Rs-G65 (AB088858)	77 64
SR-ad-230	CGAACGGGGTTTAGCGAGAGCTTGCTTTTGCTAAACCTAGCGAGCGG ACG	1	Uncultured rumen bacterium (AY006833) <i>Ruminococcus</i> sp. 16442 (AJ318889)	84 78
SR-ad-231	CGAGGGGCAGCGGGCCGTAGCAATACGGTGCCGGCGACCGGCGGAC GGGT	1	Uncultured rumen bacterium (AY006660) <i>Cytophaga hutchinsonii</i> ATCC 33406 (M58768)	94 90
SR-ad-232	CGAGGGGCAGCATGGTGTAGCAATACACTGATGGCGACCGGCGCACG GGT	1	Uncultured bacterium clone ZB32 (AY327212) <i>Dysgonomonas gadei</i> 1145589 (Y18530)	96 92
SR-ad-233	AGGGGCAGCATGAGGGTAGCAATACCCTTGATGGCGACCGGCGCACG GGT	1	Uncultured <i>Dysgonomonas</i> sp. clone GCPF18 (AY129792) <i>Dysgonomonas gadei</i> 1145589 (Y18530)	96 94
SR-ad-234	CGAACGGAGATAATTTGAGTTTACTTAGGATATCTTAGTGGCGGACGG GT	3	<i>Ruminococcus flavefaciens</i> Y1 (AF104846)	98
SR-ad-235	CGAACGGAGATAATTTGAGTTTACTTAGGTTATCTTAGTGGCGGACGG GT	2	<i>Ruminococcus flavefaciens</i> FD-1 (X85097)	100
SR-ad-236	CGAACGGAGATAATTTGAGTTTACTTAGGTTATATTAGTGGCGGGCGG GT	1	<i>Ruminococcus flavefaciens</i> FD-1 (X85097)	96

<sup>†</sup>Taxon to which the most similar sequence is affiliated to.

<sup>‡</sup>Percent sequence identity. If the most similar sequence is derived from an uncultured or unidentified bacterium, then included is the most similar sequence derived from a known bacterium found in GenBank or RDP Release 9.0.