**Table S1. PCR primer sequences**

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| --- | --- |
| **Name** | **Sequence (5`-3`)** |
| 16s\_Fwd | CCTACGGGAGGCAGCAG |
| 16s\_Rev | ATTACCGCGGCTGCTGG |
| ACTB\_Fwd | CTCTCAGCTGTGGTGGTGAA |
| ACTB\_Rev | AGCCATGTACGTAGCCATCC |
| Clostridium XIVa OTU11\_Fwd | AGCGTAGACGGCGAAGCA |
| Clostridium XIVa OTU11\_Rev | CCTCTCCGACACTCTAGCAAA |
| Bacteroides\_Fwd | GAGCGTAGGTGGATTGTT |
| Bacteroides\_Rev | CACGAATTCCGCCCAC |
| Acetatifactor\_FwdAcetatifactor\_Rev | GGAGCGTAGACGGTTATGT CCTCCTGTACTCCAGTTACA |
| Mucispirillum\_FwdMucispirillum\_Rev | GGCTGGGTGTTAATGGCAGA CTGCCTGTCGCCTTTGTTTG |
| Clostridium XIVa OTU185\_Fwd | AGCGTAGACGGCGACGCA |
| Clostridium XIVa OTU185\_Rev | CTCCTGCACTCCAGCAAC |