**Supplement Table1. 16S rRNA gene-targeted group-specific primers used in this study**

The bacterial strains used as positive and negative controls in

this study included Atopobiumparvulum

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| --- | --- | --- | --- |
| Target bacterial group | Primer | Sequence  (5’-3’) | References |
| *Bifidobacterium* | Bifid-F  Bifid-R | TCGCGTCYGGTGTGAAAG  GGTGTTCTTCCCGATATCTACA | [1]  [2]  [3]  [4]  [1]  [5]  [6]  [7] |
| *Escherichia coli* | Ecoli-F  Ecoli-R | CATGCCGCGTGTATGAAGAA  CGGGTAACGTCAATGAGCAAA |
| *Enterococcus* | Entero-F  Entero-R | AGAAATTCCAAACGAACTTG  CAGTGCTCTACCTCCATCATT |
| *Lactobacillus* | Lacto-F  Lacto-R | AGCAGTAGGGAATCTTCCA  CACCGCTACACATGGAG |
| *Bacteroides* | Bact-F  Bact-R | GGTGTCGGCTTAAGTGCCAT  CGGA(C/T)GTAAGGGCCGTGC |
| *Prevotella* | Prevo-F  Prevo-R | CACRGTAAACGATGGATGCC  GGTCGGGTTGCAGACC |
| *Ruminococcus* | Rumino-F  Rumino-R | GGACGATAATGACGGTACTT  GCAATCYGAACTGGGACAAT |
| *Clostridium* | Clostri-F  Clostri-R | GCACAAGCAGTGGAGT  CTTCCTCCGTTTTGTCAA |

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