**Supplement 1:** List of*n=35* bacterial amplicon sequence variants with <1000 sequence reads that were removed prior to downstream analyses.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Rank1** | **Rank2** | **Rank3** | **Rank4** | **Rank5** | **Rank6** | **Rank7** |
| ASV3671 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Pseudomonadaceae | Pseudomonas | NA |
| ASV3692 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Pseudomonadaceae | Pseudomonas | NA |
| ASV3828 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhizobiales | Hyphomicrobiaceae | Hyphomicrobium | NA |
| ASV3870 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhizobiales | Xanthobacteraceae | Bradyrhizobium | NA |
| ASV3886 | Bacteria | Proteobacteria | Alphaproteobacteria | Caulobacterales | Caulobacteraceae | Caulobacter | NA |
| ASV3890 | Bacteria | Proteobacteria | Alphaproteobacteria | Caulobacterales | Caulobacteraceae | Brevundimonas | NA |
| ASV3932 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhizobiales | Rhizobiaceae | Ochrobactrum | NA |
| ASV4593 | Bacteria | Verrucomicrobiota | Chlamydiae | Chlamydiales | Parachlamydiaceae | Neochlamydia | NA |
| ASV4617 | Bacteria | Proteobacteria | Gammaproteobacteria | Enterobacterales | Enterobacteriaceae | Lelliottia | NA |
| ASV4631 | Bacteria | Proteobacteria | Gammaproteobacteria | Aeromonadales | Aeromonadaceae | Aeromonas | NA |
| ASV4633 | Bacteria | Proteobacteria | Gammaproteobacteria | Enterobacterales | Enterobacteriaceae | Escherichia/Shigella | NA |
| ASV4636 | Bacteria | Proteobacteria | Gammaproteobacteria | Enterobacterales | Enterobacteriaceae | Escherichia/Shigella | coli |
| ASV4682 | Bacteria | Bacteroidota | Bacteroidia | Chitinophagales | Chitinophagaceae | Vibrionimonas | NA |
| ASV4685 | Bacteria | Bacteroidota | Bacteroidia | Chitinophagales | Chitinophagaceae | Sediminibacterium | salmoneum |
| ASV4694 | Bacteria | Bacteroidota | Bacteroidia | Flavobacteriales | Weeksellaceae | Elizabethkingia | NA |
| ASV4753 | Bacteria | Proteobacteria | Gammaproteobacteria | Oceanospirillales | Halomonadaceae | Halomonas | NA |
| ASV5161 | Bacteria | Actinobacteriota | Actinobacteria | Micrococcales | Microbacteriaceae | Microbacterium | NA |
| ASV5219 | Bacteria | Actinobacteriota | Actinobacteria | Micrococcales | Dermabacteraceae | Brachybacterium | NA |
| ASV5706 | Bacteria | Firmicutes | Clostridia | Christensenellales | Christensenellaceae | Christensenellaceae\_R-7\_group | NA |
| ASV5814 | Bacteria | Actinobacteriota | Rubrobacteria | Rubrobacterales | Rubrobacteriaceae | Rubrobacter | NA |
| ASV5870 | Bacteria | Firmicutes | Thermoanaerobacteria | Thermoanaerobacterales | Family\_III | Thermoanaerobacterium | NA |
| ASV5871 | Bacteria | Firmicutes | Thermoanaerobacteria | Thermoanaerobacterales | Family\_III | Thermoanaerobacterium | NA |
| ASV5921 | Bacteria | Firmicutes | Clostridia | Peptostreptococcales-Tissierellales | Peptostreptococcaceae | Romboutsia | NA |
| ASV5982 | Bacteria | Proteobacteria | Gammaproteobacteria | Burkholderiales | Burkholderiaceae | Ralstonia | NA |
| ASV6025 | Bacteria | Proteobacteria | Gammaproteobacteria | Burkholderiales | Comamonadaceae | Paucibacter | NA |
| ASV6074 | Bacteria | Proteobacteria | Gammaproteobacteria | Burkholderiales | Alcaligenaceae | Alcaligenes | NA |
| ASV6093 | Bacteria | Actinobacteriota | Actinobacteria | Bifidobacteriales | Bifidobacteriaceae | Bifidobacterium | NA |
| ASV6106 | Bacteria | Actinobacteriota | Actinobacteria | Corynebacteriales | Nocardiaceae | Rhodococcus | NA |
| ASV6343 | Bacteria | Actinobacteriota | Actinobacteria | Propionibacteriales | Propionibacteriaceae | Cutibacterium | NA |
| ASV6368 | Bacteria | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | NA |
| ASV6369 | Bacteria | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | NA |
| ASV6438 | Bacteria | Firmicutes | Bacilli | Bacillales | Bacillaceae | Bacillus | NA |
| ASV6735 | Bacteria | Firmicutes | Negativicutes | Veillonellales-Selenomonadales | Veillonellaceae | Dialister | NA |
| ASV6977 | Bacteria | Firmicutes | Bacilli | Lactobacillales | Enterococcaceae | Enterococcus | NA |
| ASV7386 | Bacteria | Firmicutes | Clostridia | Lachnospirales | Lachnospiraceae | Roseburia | inulinivorans |