Supplementary Appendix
Oral microbiota transplant in dogs with naturally occurring periodontitis

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16S rDNA MiSeq data processing
Sequencing was performed at the Beijing Genome Institute (BGI) Shenzhen, China. The sequence data was de-multiplexed and quality-filtered by the following criteria, 1) reads with 20% of their original length of low quality (Q20) bases were removed; 2) reads contaminated by adapter, defined as 15 bases overlapped by reads and adapter sequence with maximal 3 bases mismatch allowed, were removed; 3) reads with ambiguous bases and its paired reads were removed; 4) reads containing any stretch of low complexity, defined as homopolymers of 10nt, were removed. Subsequently, the adaptor and primer sequences were trimmed from all reads using cutadapt 1.14 (Martin 2011) in Python 3.6.2.

DADA2 workflow
The sequences were processed using the DADA2 pipeline (Callahan et al. 2017), following the official tutorial version 1.6 under the environment of R studio Version 1.1.383; R version 3.4.2
Firstly the quality profiles of all the forward and reverse reads were examined and filtered by the function filterAndTrim using the following parameters, \( \text{truncLen} = (250, 230) \), \( \text{maxN} = 0 \), \( \text{maxEE} = (2, 2) \), \( \text{truncQ} = 2 \), \( \text{rm.phix} = \text{TRUE} \). A parametric error model was then estimated from the amplicon dataset using the learnErrors function at the default settings until the error rates converged. The reads were dereplicated and have core samples inferred by the derepFastq and dada main function at the default settings. The forward and reverse reads were assembled using the mergePairs function, followed by an additional filtering of read size retaining only the merged reads between 401-450 bp. Chimeric sequences were removed using the removeBimeraDenovo function, which were the final output of this pipeline 1,753 ASVs from 86 samples.

**Taxonomy Assignment**

The native implementation of the naive Bayesian classifier method (Wang et al. 2007) in the DADA2 package was used for taxonomy assignment at the default settings. A curated reference sequence database was used, which comprised the RDP trainset 16 (derived from RDP Release 11.5 that consisted of 3,356,809 aligned and annotated 16S rRNA sequences, updated on 2016-09-30), the eHOMD 16S rRNA RefSeq Version 15.1 (Chen et al. 2010, updated on 2017-11-16) and the full set of canine oral microbiome 16S rRNA gene sequences (Dewhirst et al. 2012, 416 full-length sequences). All these reference sequences were processed and formatted using the Mothur package (Schloss et al. 2009).

**Phylogenetic analyses**

A Maximum likelihood (ML) tree containing all the aligned ASV sequences was constructed using Fasttree (Price, Dehal, & Arkin, 2010) for calculation of phylogenetic diversity and UniFrac distance.

**Principal Response Curve**

The effect of microbiome transplantation was further evaluated with the Principal Response Curve (PRC) method using the default parameters (Van den Brink & Braak 1999). It focuses on the differences between the bacterial compositions in the test group compared to that of the control at the corresponding time. Data was logarithm transformed by taking log (count + 1). A clear effect was observed after Baseline in the test communities. This reveals the transfer of bacterial taxa from the donor microbiome into the test ones. For instance, there were boosts in abundances of ASV40 (Chlorobi G-1 sp.), ASV150 (Neisseria sp.), and ASV44 (Bergeyella
sp.) in the test group after OMT (Appendix-Figure 5 and 6). Meanwhile, some taxa that were absent in the donor healthy microbiome were reduced in the test group, such as ASV63 *Aquaspirillum* sp., ASV243 *Moraxella* sp. and ASV128 Absconditabacteria (SR1) G-2 sp.

**Multivariate Statistical analyses**

1) **Data normalization**
The 16S rRNA gene amplicon sequencing data contains high number of variables, relatively small sample sizes and many zeros entities, known as the large-p small-n problem, such that data normalization is needed for proper ecological and statistical interpretation as evaluated by Weiss and colleagues (2017). Different normalization methods were performed to fit the requirements for each analysis. Data was either normalized by the Sum of Count method, in which proportion in each sample was calculated and then scaling to the size of the smallest samples, or by random rarefying to the smallest sample size. Multivariate test statistics in this study were performed using the R package GenePiper (Tong & Chan 2020) unless elsewise specified.

2) **Alpha-diversity analyses**
Alpha-diversity measures were calculated using the alpha-diversity module in the R package GenePiper. Shannon’s entropy, Simpson diversity indices and their respective effective species numbers were calculated using the default parameters. Rarefaction curves were plotted using the diversity index curve module without normalization. When alpha-diversity measures were compared directly across samples, the dataset was normalized by random rarefying to achieve the same sampling depth. Statistical significance test and the visualization were done using the R package ggsignif.

3) **Ordination**
Beta-diversities across samples were compared using several distance metrics including both the weighted and unweighted UniFrac, and the Bray-Curtis dissimilarities using GenePiper with normalization by the Sum of Count method. The distance matrices were visualized in Principal Coordinates Analysis (PCoA) ordinations. Permutational Multivariate Analysis of Variance (PERMANOVA) tests were performed to test if the clustering of samples was significant with p-value evaluated at 9999 random permutations.
Appendix-Figure 1 Rarefaction curves indicated sufficient sampling effort for the profiling of the oral microbiota in this study. Samples from the healthy oral microbiota donor had significantly lower species richness compared to the control and test group despite having equivalent sampling depth.
Appendix-Figure 2 Comparison of the observed species richness of the oral microbiota of the Donor, Test and Control groups at the four experimental time-points. The observed species richness (Observed, y-axis; reported as the corresponding number of ASVs) in the respective sets of Donor (red coloured), Test (green coloured) and Control (blue coloured) subjects’ oral microbiota samples were evaluated at the Week -2, Baseline, Week 2 and Week 12 time-points (indicated on the x-axis). The median, upper and lower quartile values, and ×1.5 interquartile ranges are indicated. The corresponding levels of species richness of the single healthy donor dog oral microbiota samples were evaluated at the Week -2 and Baseline time-points (red-coloured). Statistically significant differences were inferred by the Wilcoxon-signed rank Test at p-value cut-offs: *** indicates p <= 0.001, ** indicates p<=0.01, * indicates p<=0.05; NS. indicates no significant difference. The two panels illustrate the results of different statistical comparisons between (upper panel) and within (lower panel) the respective sets of Test, Control and Donor subjects, at the various time-points. This plot complements the data shown in Figure 2.
Appendix-Figure 3 Principal Coordinates Analysis (PCoA) ordination of the oral microbiota of all samples analyzed in this study.

The microbiota ASV abundance matrix was transformed to a pair-wise Bray-Curtis dissimilarity matrix, and the relationship among samples were visualized in this PCoA ordination plot. Each point represents an individual sample, and their relative distance in the ordination resembles the differences in their oral microbiota profiles. Periodontally-healthy Donor dog (filled circles); Test dogs (filled squares); Control Dogs (filled rhombuses). Week - 2 time-point (red coloured), baseline time-point (green coloured), Week 2 time-point (blue coloured), Week 12 time-point (purple coloured), Ellipses were plotted at a confidence level of 0.95. Dashed ellipses enclose the Control group data-points, solid ellipses encircle the Test group data-points. The healthy oral microbiota donor samples were notably distinct from the control and test groups at all time-points analyzed.
Appendix-Figure 4 PCoA ordinations of the oral microbiota in the Donor, Control and Test groups with all data-points individually labelled

The two PCoA plots above respectively show a subset of the data-points shown in Appendix-Figure 3 above. The upper panel includes all the Donor and Control subjects’ data-points at each of the four time-points. The lower panel includes all the Donor and Test subjects’ data-points at each time-point. The data-points are identified using the same codes used in Appendix-Tables 2 and 3. The symbol and colour scheme used is analogous to that used in Figure 3 and Appendix-Figure 3, without showing the ellipses to improve visual interpretation.
Appendix Figure 5. PCoA plots of Test dogs’ oral microbiota before and after OMT transplantation from donor.

The nine respective panels show the PCoA plots of the ASV composition of the oral microbiota within each of the nine Test dogs (Dogs A, C, F, H, J, L, N, P, Q), as well as the corresponding oral microbiome transplant (OMT) they received from the healthy donor dog. MDS1 and MDS2 respectively refer to the two principal axes generated from PCoA analyses. The oral microbiome of the Test dogs was analyzed at four time-points: Week -2, 2 weeks before transplant (red filled squares); Baseline, immediately after oral prophylaxis (plaque removal), prior to receiving the OMT transplant; green squares); Week 2, 2 weeks after receiving OMT transplantation (blue squares); Week 12, 12 weeks after receiving OMT transplantation (purple squares). The respective OMT transplants (filled green circles) are linked to the Test dogs’ microbiota at the week 2 time-point via a dashed line. The four respective time-points are linked by arrows, to indicate the ‘trajectory’ of the oral microbiome composition of the Test dogs during the experimental observation period. A common ‘trend’ in the respective trajectories may be observed in most of the respective Test dogs’ oral microbiota compositions; with the composition of the oral microbiota at the Week 2 time-point generally being the most similar to that of the respective OMT.
Appendix Figure 6. PCoA plots of Control dogs’ oral microbiota across the four time-points

The nine respective panels show the PCoA plots of the ASV composition of the oral microbiota within each of the nine Control dogs (Dogs B, D, G, I, K, M, O, R, S). MDS1 and MDS2 respectively refer to the two principal axes generated from PCoA analyses. The oral microbiome of the Control dogs was analyzed at four time-points: Week -2, 2 weeks prior to oral prophylaxis (plaque removal) (filled red rhombuses); Baseline, immediately after oral prophylaxis (green rhombuses); Week 2, 2 weeks after receiving oral prophylaxis (blue rhombuses); Week 12, 12 weeks after receiving oral prophylaxis (purple rhombuses). The four respective time-points are linked by arrows, to indicate the ‘trajectory’ of the oral microbiome composition of the Control dogs during the experimental observation period. The respective ‘trends’ in the PCoAs from the Control dogs should be compared and contrasted with those obtained from the Test dogs, shown in the Appendix-Figure 4.
Appendix-Figure 7. Abundance plots of the top 20 PRC scoring species. 
The relative abundance of the respective ASV is plotted on the y-axis. The four respective sampling time-points (in weeks) are plotted on the x-axis.
**Appendix Table 1.** Differences in alpha diversity values (as evaluated by median Shannon entropy values) in the Donor, Test and Control subject groups, over the course of the trial, measured at four time-points (Week -2, Baseline, Week 2 and Week 12)

| Subject Group | Time-point | 25% Percentile | Median | 75% Percentile |
|---------------|------------|----------------|--------|----------------|
| Donor         | Wk -2      | 4.12           | 4.35   | 4.66           |
| Donor         | Baseline   | 3.98           | 4.16   | 4.23           |
| Test          | Wk -2      | 4.919          | 5.053  | 5.145          |
| Test          | Baseline   | 4.608          | 4.718  | 4.83           |
| Test          | Wk 2       | 4.419          | 4.637  | 4.708          |
| Test          | Wk 12      | 4.722          | 4.881  | 5.022          |
| Control       | Wk -2      | 4.755          | 4.959  | 5.056          |
| Control       | Baseline   | 4.622          | 4.632  | 4.774          |
| Control       | Wk 2       | 4.654          | 4.749  | 4.813          |
| Control       | Wk 12      | 4.759          | 4.875  | 4.948          |

**Appendix Table 2.** Summary of alpha diversity levels (evaluated by Shannon entropy values) in all microbiota samples collected from all subjects included in the study, at each of the four time-points.

| Id   | Dog       | Time-point | Subject Group | Shannon Entropy |
|------|-----------|------------|---------------|-----------------|
| MT-A-1 | DogA     | Wk -2      | Test          | 5.145           |
| MT-A-2 | DogA     | Baseline   | Test          | 5.058           |
| MT-A-3 | DogA     | Wk 2       | Test          | 4.876           |
| MT-A-4 | DogA     | Wk 12      | Test          | 4.919           |
| MT-B-1 | DogB     | Wk -2      | Control       | 5.171           |
| MT-B-2 | DogB     | Baseline   | Control       | 4.864           |
| MT-B-3 | DogB     | Wk 2       | Control       | 4.848           |
| MT-B-4 | DogB     | Wk 12      | Control       | 4.72            |
| MT-C-1 | DogC     | Wk -2      | Test          | 4.839           |
| MT-C-2 | DogC     | Baseline   | Test          | 4.608           |
| MT-C-3 | DogC     | Wk 2       | Test          | 4.401           |
| MT-C-4 | DogC     | Wk 12      | Test          | 4.788           |
| MT-D-1 | DogD     | Wk -2      | Control       | 4.755           |
| MT-D-2 | DogD     | Baseline   | Control       | 4.824           |
| MT-D-3 | DogD     | Wk 2       | Control       | 4.558           |
| MT-D-4 | DogD     | Wk 12      | Control       | 4.948           |
| MT-E-I-1 | DogA,C  | Wk -2      | Donor         | 4.851           |
| MT-E-II-1 | DogF,H  | Wk -2      | Donor         | 4.106           |
| MT-E-III-1 | DogJ,L  | Wk -2     | Donor         | 4.352           |
| MT-E-IV-1 | DogN   | Wk -2      | Donor         | 4.662           |
| MT-E-V-1 | DogP    | Wk -2      | Donor         | 4.123           |
| MT-F-1  | DogF     | Wk -2      | Test          | 5.053           |
| MT-F-2  | DogF     | Baseline   | Test          | 4.708           |
| MT-F-3  | DogF     | Wk 2       | Test          | 4.669           |
| MT-F-4  | DogF     | Wk 12      | Test          | 4.881           |
| MT-G-1  | DogG     | Wk -2      | Control       | 4.97            |
| Code   | Dog  | Week  | Group    | Score |
|--------|------|-------|----------|-------|
| MT-G-2 | DogG | Baseline | Control | 4.622 |
| MT-G-3 | DogG | Wk 2  | Control  | 4.673 |
| MT-G-4 | DogG | Wk 12 | Control  | 4.728 |
| MT-H-1 | DogH | Wk -2 | Test     | 5.074 |
| MT-H-2 | DogH | Baseline | Test   | 4.756 |
| MT-H-3 | DogH | Wk 2  | Test     | 4.708 |
| MT-H-4 | DogH | Wk 12 | Test     | 5.266 |
| MT-I-1 | DogI | Wk -2 | Control  | 4.959 |
| MT-I-2 | DogI | Baseline | Control | 4.603 |
| MT-I-3 | DogI | Wk 2  | Control  | 4.813 |
| MT-I-4 | DogI | Wk 12 | Control  | 5.181 |
| MT-J-1 | DogJ | Wk -2 | Test     | 4.789 |
| MT-J-2 | DogJ | Baseline | Test   | 4.509 |
| MT-J-3 | DogJ | Wk 2  | Test     | 4.315 |
| MT-J-4 | DogJ | Wk 12 | Test     | 4.531 |
| MT-K-1 | DogK | Wk -2 | Control  | 4.66  |
| MT-K-2 | DogK | Baseline | Control | 4.774 |
| MT-K-3 | DogK | Wk 2  | Control  | 4.749 |
| MT-K-4 | DogK | Wk 12 | Control  | 4.759 |
| MT-L-1 | DogL | Wk -2 | Test     | 4.919 |
| MT-L-2 | DogL | Baseline | Test   | 4.83  |
| MT-L-3 | DogL | Wk 2  | Test     | 4.637 |
| MT-L-4 | DogL | Wk 12 | Test     | 4.722 |
| MT-M-1 | DogM | Wk -2 | Control  | 4.673 |
| MT-M-2 | DogM | Baseline | Control | 4.632 |
| MT-M-3 | DogM | Wk 2  | Control  | 4.654 |
| MT-M-4 | DogM | Wk 12 | Control  | 4.964 |
| MT-N-1 | DogN | Wk -2 | Test     | 5.042 |
| MT-N-2 | DogN | Baseline | Test   | 4.282 |
| MT-N-3 | DogN | Wk 2  | Test     | 4.419 |
| MT-N-4 | DogN | Wk 12 | Test     | 4.676 |
| MT-O-1 | DogO | Wk -2 | Control  | 4.926 |
| MT-O-2 | DogO | Baseline | Control | 4.571 |
| MT-O-3 | DogO | Wk 2  | Control  | 4.467 |
| MT-O-4 | DogO | Wk 12 | Control  | 4.82  |
| MT-P-1 | DogP | Wk -2 | Test     | 5.291 |
| MT-P-2 | DogP | Baseline | Test   | 4.718 |
| MT-P-3 | DogP | Wk 2  | Test     | 4.792 |
| MT-P-4 | DogP | Wk 12 | Test     | 5.022 |
| MT-Q-1 | DogQ | Wk -2 | Test     | 5.248 |
| MT-Q-2 | DogQ | Baseline | Test   | 4.986 |
| MT-Q-3 | DogQ | Wk 2  | Test     | 4.509 |
| MT-Q-4 | DogQ | Wk 12 | Test     | 5.079 |
| MT-R-1 | DogR | Wk -2 | Control  | 5.056 |
| MT-R-2 | DogR | Baseline | Control | 4.752 |
| MT-R-3 | DogR | Wk 2  | Control  | 4.767 |
| MT-R-4 | DogR | Wk 12 | Control  | 4.875 |
| MT-S-1 | DogS | Wk -2 | Control  | 5.214 |
| MT-S-2 | DogS | Baseline | Control | 4.632 |
| MT-S-3 | DogS | Wk 2  | Control  | 4.953 |
| MT-S-4 | DogS | Wk 12 | Control  | 4.898 |
Appendix-Table 3. Summary of species richness (evaluated by number of observed Amplicon sequence variants, ASVs) in all microbiota samples collected from all subjects included in the study, at each of the four time-points.

| Id   | Dog     | Timepoint | Treatment | Observed |
|------|---------|-----------|-----------|----------|
| MT-A-1 | DogA    | Wk -2    | Test      | 357      |
| MT-A-2 | DogA    | Baseline | Test      | 294      |
| MT-A-3 | DogA    | Wk 2     | Test      | 294      |
| MT-A-4 | DogA    | Wk 12    | Test      | 294      |
| MT-B-1 | DogB    | Wk -2    | Control   | 360      |
| MT-B-2 | DogB    | Baseline | Control   | 360      |
| MT-B-3 | DogB    | Wk 2     | Control   | 360      |
| MT-B-4 | DogB    | Wk 12    | Control   | 360      |
| MT-C-1 | DogC    | Wk -2    | Test      | 294      |
| MT-C-2 | DogC    | Baseline | Test      | 294      |
| MT-C-3 | DogC    | Wk 2     | Test      | 294      |
| MT-C-4 | DogC    | Wk 12    | Test      | 294      |
| MT-D-1 | DogD    | Wk -2    | Control   | 288      |
| MT-D-2 | DogD    | Baseline | Control   | 288      |
| MT-D-3 | DogD    | Wk 2     | Control   | 288      |
| MT-D-4 | DogD    | Wk 12    | Control   | 288      |
| MT-E-I-1 | DogA,C | Wk -2  | Donor    | 295      |
| MT-E-II-1 | DogF,H | Wk -2  | Donor    | 295      |
| MT-E-III-1 | DogJ,L | Wk -2 | Donor    | 295      |
| MT-E-IV-1 | DogN   | Wk -2  | Donor    | 295      |
| MT-E-V-1 | DogP,Q | Wk -2  | Donor    | 295      |
| MT-F-1 | DogF    | Wk -2    | Test      | 260      |
| MT-F-2 | DogF    | Baseline | Test      | 260      |
| MT-F-3 | DogF    | Wk 2     | Test      | 260      |
| MT-F-4 | DogF    | Wk 12    | Test      | 260      |
| MT-G-1 | DogG    | Wk -2    | Control   | 260      |
| MT-G-2 | DogG    | Baseline | Control   | 260      |
| MT-G-3 | DogG    | Wk 2     | Control   | 260      |
| MT-G-4 | DogG    | Wk 12    | Control   | 260      |
| MT-H-1 | DogH    | Wk -2    | Test      | 260      |
| MT-H-2 | DogH    | Baseline | Test      | 260      |
| MT-H-3 | DogH    | Wk 2     | Test      | 260      |
| MT-H-4 | DogH    | Wk 12    | Test      | 260      |
| MT-I-1 | DogI    | Wk -2    | Control   | 260      |
| MT-I-2 | DogI    | Baseline | Control   | 260      |
|    |    |    |    |    |    |
|----|----|----|----|----|----|
| MT-I-3 | DogI | Wk 2 | Control | 272 |
| MT-I-4 | DogI | Wk 12 | Control | 351 |
| MT-J-1 | DogJ | Wk -2 | Test | 282 |
| MT-J-2 | DogJ | Baseline | Test | 232 |
| MT-J-3 | DogJ | Wk 2 | Test | 228 |
| MT-J-4 | DogJ | Wk 12 | Test | 264 |
| MT-K-1 | DogK | Wk -2 | Control | 286 |
| MT-K-2 | DogK | Baseline | Control | 281 |
| MT-K-3 | DogK | Wk 2 | Control | 272 |
| MT-K-4 | DogK | Wk 12 | Control | 314 |
| MT-L-1 | DogL | Wk -2 | Test | 278 |
| MT-L-2 | DogL | Baseline | Test | 283 |
| MT-L-3 | DogL | Wk 2 | Test | 276 |
| MT-L-4 | DogL | Wk 12 | Test | 289 |
| MT-M-1 | DogM | Wk -2 | Control | 287 |
| MT-M-2 | DogM | Baseline | Control | 256 |
| MT-M-3 | DogM | Wk 2 | Control | 270 |
| MT-M-4 | DogM | Wk 12 | Control | 291 |
| MT-N-1 | DogN | Wk -2 | Test | 327 |
| MT-N-2 | DogN | Baseline | Test | 205 |
| MT-N-3 | DogN | Wk 2 | Test | 227 |
| MT-N-4 | DogN | Wk 12 | Test | 263 |
| MT-O-1 | DogO | Wk -2 | Control | 342 |
| MT-O-2 | DogO | Baseline | Control | 220 |
| MT-O-3 | DogO | Wk 2 | Control | 230 |
| MT-O-4 | DogO | Wk 12 | Control | 311 |
| MT-P-1 | DogP | Wk -2 | Test | 439 |
| MT-P-2 | DogP | Baseline | Test | 293 |
| MT-P-3 | DogP | Wk 2 | Test | 285 |
| MT-P-4 | DogP | Wk 12 | Test | 351 |
| MT-Q-1 | DogQ | Wk -2 | Test | 386 |
| MT-Q-2 | DogQ | Baseline | Test | 340 |
| MT-Q-3 | DogQ | Wk 2 | Test | 253 |
| MT-Q-4 | DogQ | Wk 12 | Test | 347 |
| MT-R-1 | DogR | Wk -2 | Control | 361 |
| MT-R-2 | DogR | Baseline | Control | 271 |
| MT-R-3 | DogR | Wk 2 | Control | 280 |
| MT-R-4 | DogR | Wk 12 | Control | 300 |
| MT-S-1 | DogS | Wk -2 | Control | 413 |
| MT-S-2 | DogS | Baseline | Control | 255 |
| MT-S-3 | DogS | Wk 2 | Control | 272 |
| MT-S-4 | DogS | Wk 12 | Control | 290 |
| Transplant-A | DogA | Baseline | Donor | 215 |
| Transplant-C | DogC | Baseline | Donor | 202 |
| Transplant-F | DogF | Baseline | Donor | 246 |
| Transplant-H | DogH | Baseline | Donor | 169 |
| Transplant-J | DogJ | Baseline | Donor | 195 |
| Transplant-L | DogL | Baseline | Donor | 223 |
| Transplant-N | DogN | Baseline | Donor | 204 |
| Transplant-P | DogP | Baseline | Donor | 182 |
| Transplant-Q | DogQ | Baseline | Donor | 196 |
Table 4. PERMANOVA statistics testing for the differences between microbiome samples based on the Bray-Curtis dissimilarities measure. Pairwise comparison of samples grouped by time-point (week -2, baseline, week 2, week 12) and treatment category (Test Control, Donor) were assessed in PERMANOVA test (permutations = 9999). F.Model: PERMANOVA test statistics termed as pseudo F-ratio which is analogous to Fisher’s F-ratio. R²: coefficient of determination, which refers to the proportion of sum of squares from the total. p.adjusted: p-value is adjusted for multiple comparisons by controlling for the false discovery rate using the Benjamini and Hochberg procedure. Only the pairs with p.adjusted <0.05 are listed in this table.

| pairs                  | F.Model | R²   | p.value | p.adjusted |
|------------------------|---------|------|---------|------------|
| Test_WK-2 vs Test_BASELINE | 2.0138  | 0.1118 | 0.0089  | 0.0138     |
| Test_WK-2 vs Test_WK2   | 3.1900  | 0.1662 | 0.0002  | 0.0008     |
| Test_WK-2 vs Control_BASELINE | 2.8487  | 0.1511 | 0.0003  | 0.0009     |
| Test_WK-2 vs Control_WK2 | 2.9587  | 0.1561 | 0.0001  | 0.0008     |
| Test_WK-2 vs Control_WK12 | 1.8437  | 0.1033 | 0.0033  | 0.0055     |
| Test_WK-2 vs Donor_WK-2  | 5.2870  | 0.3058 | 0.0005  | 0.0111     |
| Test_WK-2 vs Donor_BASELINE | 9.3923  | 0.3699 | 0.0002  | 0.0008     |
| Test_BASELINE vs Test_WK12 | 1.9755  | 0.1099 | 0.003   | 0.0052     |
| Test_BASELINE vs Control_WK12 | 2.0596  | 0.1140 | 0.0018  | 0.0034     |
| Test_BASELINE vs Donor_WK-2 | 6.3931  | 0.3476 | 0.0004  | 0.0009     |
| Test_BASELINE vs Donor_BASELINE | 9.3719  | 0.3694 | 0.0002  | 0.0008     |
| Test_WK2 vs Test_WK12    | 2.1914  | 0.1205 | 0.0021  | 0.0038     |
| Test_WK2 vs Control_WK-2 | 2.6012  | 0.1398 | 0.0004  | 0.0009     |
| Test_WK2 vs Control_BASELINE | 1.7444  | 0.0983 | 0.0139  | 0.0209     |
| Test_WK2 vs Control_WK2  | 1.8026  | 0.1013 | 0.0082  | 0.0132     |
| Test_WK2 vs Control_WK12 | 2.6738  | 0.1432 | 0.0002  | 0.0008     |
| Test_WK2 vs Donor_WK-2   | 5.2537  | 0.3045 | 0.0012  | 0.0023     |
| Test_WK2 vs Donor_BASELINE | 7.8518  | 0.3292 | 0.0001  | 0.0008     |
| Test_WK12 vs Control_BASELINE | 2.4266  | 0.1317 | 0.0004  | 0.0009     |
| Test_WK12 vs Control_WK2 | 2.1390  | 0.1179 | 0.0003  | 0.0009     |
| Test_WK12 vs Donor_WK-2  | 6.4607  | 0.3500 | 0.0004  | 0.0009     |
| Test_WK12 vs Donor_BASELINE | 10.3176 | 0.3920 | 0.0001  | 0.0008     |
| Control_WK-2 vs Donor_WK-2 | 5.1355  | 0.2997 | 0.0003  | 0.0009     |
| Control_WK-2 vs Donor_BASELINE | 8.5923  | 0.3494 | 0.0001  | 0.0008     |
| Control_BASELINE vs Control_WK12 | 1.8095  | 0.1016 | 0.0186  | 0.0270     |
| Control_BASELINE vs Donor_WK-2 | 6.6453  | 0.3564 | 0.0006  | 0.0012     |
| Control_BASELINE vs Donor_BASELINE | 9.6813  | 0.3770 | 0.0001  | 0.0008     |
| Control_WK2 vs Donor_WK-2 | 7.2772  | 0.3775 | 0.0004  | 0.0009     |
| Control_WK2 vs Donor_BASELINE | 10.6549 | 0.3997 | 0.0002  | 0.0008     |
| Control_WK12 vs Donor_WK-2 | 6.7741  | 0.3608 | 0.0004  | 0.0009     |
| Control_WK12 vs Donor_BASELINE | 10.5226 | 0.3967 | 0.0002  | 0.0008     |
### Appendix-Table 5. Taxonomy of all ASVs identified in the study

| OTU   | Kingdom | Phylum       | Class       | Order       | Family       | Genus       | Species |
|-------|---------|--------------|-------------|-------------|--------------|-------------|---------|
| ASV953| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV1415| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV706| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV389| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV339| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV420| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV520| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV1383| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV976| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV310| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV331| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV490| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV509| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV590| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV812| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV1035| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV865| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV1006| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV943| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV1283| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV1727| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV874| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV1518| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroides | Bacteroides|
| ASV1549| Bacteria| Bacteroidetes| Bacteroidia| Bacteroidales| Bacteroidaceae| Bacteroidia | Bacteroidia|
| ASV     | Bacteria | Phylum    | Class     | Order      | Family      | Genus     | Species           |
|---------|----------|-----------|-----------|------------|-------------|-----------|-------------------|
| ASV1607 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV434  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV967  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV28   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV1591 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV1666 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV202  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV1000 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV288  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV453  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV275  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV1346 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV633  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV665  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroidia       |
| ASV1557 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroidia | Bacteroides       |
| ASV1017 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides_plebeius |
| ASV1692 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1359 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides_coprocola |
| ASV686  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1233 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1650 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides_vulgatus |
| ASV1381 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1651 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1472 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides_helicogenes |
| ASV1377 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1546 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV1271 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV882  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidaceae | Bacteroides | Bacteroides       |
| ASV    | Kingdom | Phylum         | Class          | Order          | Family          | Genus     | Genus Sp.       |
|--------|---------|----------------|----------------|----------------|-----------------|-----------|----------------|
| ASV730 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV1460| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV1635| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV912 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV1608| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV1565| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV858 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Bacteroides| Bacteroides    |
| ASV1103| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1589| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1439| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1199| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1127| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV972 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV549 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1054| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1185| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1188| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV306 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV932 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV182 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV287 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV385 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV290 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV870 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV1136| Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV472 | Bacteria| Bacteroidetes  | Bacteroidia    | Bacteroidales  | Bacteroidaceae  | Porphyromonas| Porphyromonas |
| ASV      | Kingdom  | Phylum     | Class       | Order               | Family            | Genus         | Species     |
|----------|----------|------------|-------------|---------------------|-------------------|---------------|-------------|
| ASV579   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1132  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV400   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas_sp._CO_T_281 |
| ASV450   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1159  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV26    | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV724   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1669  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1670  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1581  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1351  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1628  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1532  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1304  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV738   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV613   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV975   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV840   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV100   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas_sp._CO_T_290 |
| ASV291   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV71    | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV235   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV259   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV183   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV241   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV286   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV341   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales       | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Proteiniphilum | \_sp._COT | 385 |
|-------|----------|---------------|-------------|---------------|-------------------|-----------------|-----------|
| ASV1674 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Proteiniphilum | Proteiniphilum |     |
| ASV1570 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Proteiniphilum | Proteiniphilum |     |
| ASV833   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Proteiniphilum | Proteiniphilum |     |
| ASV598   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Proteiniphilum | Proteiniphilum |     |
| ASV374   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia\_O-1 | Bacteroidia\_F-1 | Odoribacter | Odoribacter |     |
| ASV732   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia\_O-1 | Bacteroidia\_F-1 | Odoribacter | Odoribacter |     |
| ASV607   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia\_O-1 | Bacteroidia\_F-1 | Odoribacter | Odoribacter | denticanis |
| ASV596   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia\_O-1 | Bacteroidia\_F-1 | Odoribacter | Odoribacter |     |
| ASV620   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia\_O-1 | Bacteroidia\_F-1 | Odoribacter | Odoribacter |     |
| ASV333   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Paludibacter | Paludibacter |     |
| ASV1376  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Paludibacter | Paludibacter |     |
| ASV1723  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Paludibacter | Paludibacter |     |
| ASV238   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Paludibacter | Paludibacter |     |
| ASV951   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidales\_[F-2] | Bacteroidales\_[G-2] | Paludibacter |     |
| ASV266   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadaceae\_G-1 | Porphyromonadaceae\_G-1 |     |
| ASV422   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadaceae\_G-1 | Porphyromonadaceae\_G-1 |     |
| ASV1244  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadaceae\_G-1 | Porphyromonadaceae\_G-1 |     |
| ASV264   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Paludibacter | Paludibacter |     |
| ASV531   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Paludibacter | Paludibacter |     |
| ASV1739  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |     |
| ASV1740  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |     |
| ASV75    | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |     |
| ASV316   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |     |
| ASV1232  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |     |
| ASV237 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
|--------|----------|--------------|-------------|---------------|-------------------|--------------|--------------|
| ASV58  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Tannerella   | Tannerella   |
| ASV468 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Tannerella   | Tannerella   |
| ASV534 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Tannerella   | Tannerella   |
| ASV530 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Tannerella   | Tannerella   |
| ASV169 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Parabacteroides | Parabacteroides |
| ASV1527| Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Parabacteroides | Parabacteroides |
| ASV148 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas_macace |
| ASV399 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV18  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV693 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV11  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas_canis |
| ASV324 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV622 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV847 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV77  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV200 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV947 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1204| Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadaceae | Porphyromonadaceae |
| ASV332 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV654 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadac | Porphyromonadaceae |
| ASV4   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV876 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV591 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1129| Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV465 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1062| Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV   | Bacteria | Phyla         | Class          | Order          | Family            | Genus           | Species          |
|-------|----------|---------------|----------------|----------------|------------------|-----------------|------------------|
| ASV1668 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1588 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1647 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1299 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1405 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1582 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV302  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1431 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV528  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV41   | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV632  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV841  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV788  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV5    | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV866  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1620 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1716 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Porphyromonadaceae | Porphyromonas    | Porphyromonas    |
| ASV1691 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Bacteroidales     | Bacteroidales    | Bacteroidales    |
| ASV835  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella       |
| ASV1106 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella       |
| ASV702  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella_intermedia |
| ASV295  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella_intermedia |
| ASV1268 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella       |
| ASV1334 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella       |
| ASV498  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella       |
| ASV582  | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidales  | Prevotellaceae    | Prevotella       | Prevotella_intermedia |
| ASV  | Phylum   | Class     | Order      | Family      | Genus 1       | Genus 2       |
|------|----------|-----------|------------|-------------|----------------|---------------|
| ASV1068  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1438  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV377   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV968   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV852   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV137   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV488   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV741   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV653   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV136   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1732  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1314  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1419  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV561   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1285  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1029  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV990   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV480   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV744   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV868   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV1139  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella     |
| ASV992   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV993   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV1298  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV1173  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV680   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV1537  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV300   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella |
| ASV   | Kingdom | Phylum       | Class       | Order        | Family     | Genus         |
|-------|---------|--------------|-------------|--------------|------------|---------------|
| ASV1115 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV198  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV1085 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV934  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV1168 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV1331 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV489  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV903  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV391  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV909  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV571  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV803  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV1733 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella_xylaniphila  |
| ASV271  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella  |
| ASV545  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotellla  |
| ASV621  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella  |
| ASV129  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Prevotella  |
| ASV1018 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV1735 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Paraprevotella  |
| ASV723  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV944  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV90   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV671  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV98   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV1087 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV722  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV372  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV1337 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella  |
| ASV  | Kingdom | Phylum  | Class    | Order     | Family        | Genus  | Species     |
|------|---------|---------|----------|-----------|---------------|--------|-------------|
| ASV623 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV88  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV312 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1291 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1448 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1643 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV337  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1015 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV297  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV756  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1398 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1053 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV59   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV769  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV871  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV535  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV751  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1170 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV580  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV415  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV592  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV282  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV199  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV45   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV73   | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV172  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV459  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV886  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Prevotellaceae | Alloprevotella | Alloprevotella |
| ASV1321 | Bacteria | Bacteroidetes | Bacteroidetes | Bacteroides | Bacteroides | Bacteroides | Bacteroides |
| ASV820  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Barnesiella | Barnesiella |
| ASV1410 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-7] | Bacteroidetes_[G-7] |
| ASV152  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia_O-1 | Bacteroidia_F-2 | Bacteroidia_G-2 | Bacteroidia_G-2_sp._COT_301 |
| ASV188  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidales | Bacteroidales | Bacteroidales |
| ASV611  | Bacteria | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes |
| ASV1037 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadaceae | Porphyromonadaceae |
| ASV363  | Bacteria | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes |
| ASV808  | Bacteria | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes | Bacteroidetes |
| ASV1562 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Porphyromonadaceae | Porphyromonadaceae | Porphyromonadaceae |
| ASV1722 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-3] | Bacteroidetes_[G-3] |
| ASV1119 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia_O-2 | Bacteroidia_F-3 | Bacteroidia_G-3 | Bacteroidia_G-3 |
| ASV1164 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia_O-2 | Bacteroidia_F-3 | Bacteroidia_G-3 | Bacteroidia_G-3 |
| ASV1409 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-3] | Bacteroidetes_[G-3] |
| ASV1681 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-3] | Bacteroidetes_[G-3] |
| ASV1633 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-3] | Bacteroidetes_[G-3] |
| ASV106  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia_O-2 | Bacteroidia_F-4 | Bacteroidia_G-4 | Bacteroidia_G-4_sp._COT_387 |
| ASV526  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia_O-2 | Bacteroidia_F-4 | Bacteroidia_G-4 | Bacteroidia_G-4 |
| ASV1392 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-3] | Bacteroidetes_[G-3] |
| ASV981  | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia | Bacteroidia | Bacteroidia | Bacteroidia |
| ASV1641 | Bacteria | Bacteroidetes | Bacteroidetes_[C-1] | Bacteroidetes_[O-1] | Bacteroidetes_[F-1] | Bacteroidetes_[G-3] | Bacteroidetes_[G-3] |
| ASV1528 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidales | Bacteroidales | Bacteroidales | Bacteroidales |
| ASV1575 | Bacteria | Bacteroidetes | Flavobacterii a | Flavobacteriales | Flavobacteriaceae | Flavobacteriaceae | Flavobacteriaceae |
|----------|---------|---------------|----------------|----------------|------------------|------------------|------------------|
| ASV66   | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidia O-2 | Bacteroidia F-5  | Bacteroidia G-5  | Bacteroidia G-5  |
| ASV1658 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidiales  | Porphyromonadaceae | Porphyromonadaceae |
| ASV1704 | Bacteria | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV1506 | Bacteria | Bacteroidetes | Bacteroidia    | Bacteroidiales  | Porphyromonadaceae | Porphyromonadaceae |
| ASV1034 | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV1101 | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV1399 | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV461  | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV1067 | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV778  | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV1147 | Bacteria | Bacteroidetes | Bacteroidetes  | Bacteroidetes   | Bacteroidetes     | Bacteroidetes     |
| ASV1158 | Bacteria | Bacteroidetes | Sphingobacteri a | Sphingobacteriales | Chitinophagaceae | Sediminibacterium | Sediminibacterium_salmoneum |
| ASV14   | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Bergeyella       | Bergeyella_zoohelcum |
| ASV56   | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Bergeyella       | Bergeyella       |
| ASV1045 | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Bergeyella       | Bergeyella       |
| ASV44   | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Bergeyella       | Bergeyella       |
| ASV1093 | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Bergeyella       | Bergeyella       |
| ASV1325 | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Cloacibacterium  | Cloacibacterium  |
| ASV464  | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Cloacibacterium  | Cloacibacterium  |
| ASV353 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Cloacibacterium Cloacibacterium_sp._CO_T_320 |
| ASV1352 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Cloacibacterium Cloacibacterium |
| ASV1412 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Bergeyella Bergeyella |
| ASV1473 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Bergeyella Bergeyella |
| ASV1600 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Bergeyella Bergeyella |
| ASV1601 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Bergeyella Bergeyella |
| ASV1712 | Bacteria Fusobacteria Fusobacteriia | Fusobacteriales Fusobacteriaceae Fusobacteriaceae Fusobacteriaceae |
| ASV1573 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Flavobacteriaceae Flavobacteriaceae |
| ASV985 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Flavobacteriaceae Flavobacteriaceae |
| ASV1363 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Capnocytophaga Capnocytophaga |
| ASV895 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Flavobacteriaceae Flavobacteriaceae |
| ASV1080 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Capnocytophaga Capnocytophaga |
| ASV1645 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Capnocytophaga Capnocytophaga |
| ASV501 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Capnocytophaga Capnocytophaga |
| ASV825 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Capnocytophaga Capnocytophaga Capnocytophaga_sp._CO_T_329 |
| ASV1300 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Capnocytophaga Capnocytophaga |
| ASV717 | Bacteria Bacteroidetes Flavobacteriia | Flavobacteriales Flavobacteriaceae Bergeyella Bergeyella |
| ASV      | Bacteria       | Phylum       | Class          | Order          | Family        | Species/Genus                  |
|----------|----------------|--------------|----------------|----------------|---------------|------------------------------|
| ASV1109  | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Bergeyella                   |
| ASV27    | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga_sp.CO_T_339   |
| ASV427   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Flavobacteriaceae            |
| ASV726   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Flavobacteriaceae            |
| ASV1480  | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV746   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV493   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV962   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga_canimormsus   |
| ASV219   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga_canimormsus   |
| ASV773   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV779   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga_canimormsus   |
| ASV892   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV647   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV119   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV356   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV278   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga_cynodegmi     |
| ASV644   | Bacteria       | Bacteroidetes| Flavobacterii  | Flavobacteriales| Flavobacteriaceae| Capnocytophaga               |
| ASV   | Phylum       | Subphylum   | Class        | Order         | Family       | Genus       | Species     |
|-------|--------------|-------------|--------------|---------------|--------------|-------------|-------------|
| ASV1524 | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV898  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV1153 | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV232  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga_cynode_gmi |
| ASV257  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga_cynode_gmi |
| ASV937  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV504  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV513  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV94   | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV433  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV698  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV764  | Bacteria    | Bacteroidetes | Flavobacterii | Flavobacteriales | Flavobacteriaceae | Capnocytophaga | Capnocytophaga |
| ASV1731 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Prevotellaceae   | Alloprevotella | Alloprevotella |
| ASV1583 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Prevotellaceae   | Alloprevotella | Alloprevotella |
| ASV1686 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Prevotellaceae   | Alloprevotella | Alloprevotella |
| ASV1745 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Porphyromonadaceae | Porphyromonadaceae | Porphyromonadaceae |
| ASV1747 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Porphyromonadaceae | Porphyromonas | Porphyromonadaceae |
| ASV1677 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Porphyromonadaceae | Porphyromonas | Porphyromonadaceae |
| ASV1755 | Bacteria    | Bacteroidetes | Bacteroidia   | Bacteroidales   | Bacteroidales   | Bacteroidales   | Bacteroidales   |
| ASV         | Domain | Phylum   | Class        | Order        | Family              | Genus         | Genus_1       |
|------------|--------|----------|--------------|--------------|---------------------|---------------|---------------|
| ASV1422    | Bacteria | Firmicutes | Clostridia   | Clostridiales | Clostridiales       | Clostridiales | Clostridiales |
| ASV1726    | Bacteria | Firmicutes | Clostridia   | Clostridiales | Lachnospiraceae     | Catonella     | Catonella     |
| ASV1696    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonadaceae | Porphyromonadaceae |
| ASV1629    | Bacteria | Firmicutes | Clostridia   | Clostridiales | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 | Porphyromonas |
| ASV1753    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1717    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1719    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1718    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1579    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1580    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1447    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1365    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1605    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1656    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1218    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV578     | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV791     | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV29      | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV61      | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV12      | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV91      | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV114     | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV195     | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV1625    | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV141     | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV7       | Bacteria | Bacteroidetes | Bacteroidia  | Bacteroidales | Porphyromonadaceae  | Porphyromonas | Porphyromonas |
| ASV   | Bacteria   | Phylum       | Class       | Order       | Family      | Genus   | Species   | Taxonomy                  |
|-------|------------|--------------|-------------|-------------|-------------|---------|-----------|---------------------------|
| ASV8  | Bacteria   | Bacteroidetes| Bacteroidia | Bacteroidales| Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV23 | Bacteria   | Bacteroidetes| Bacteroidia | Bacteroidales| Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV112| Bacteria   | Bacteroidetes| Bacteroidia | Bacteroidales| Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV120| Bacteria   | Bacteroidetes| Bacteroidia | Bacteroidales| Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV1664| Bacteria | Bacteroidetes| Bacteroidia | Bacteroidales| Porphyromonadaceae | Porphyromonas | Porphyromonas |
| ASV125| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV559| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV338| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV683| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV212| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV1134| Bacteria  | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV776| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV355| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV714| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV320| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV102| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV265| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV285| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| ASV436| Bacteria   | Saccharibacter| ia(TM7)    | TM7_C-1     | TM7_O-1     | TM7_F-1 | TM7_G-3   | TM7_G-3                   |
| Accession | Sample Type | Organism | Genomic Region |
|-----------|-------------|----------|----------------|
| ASV1011   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV652    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV1022   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV1181   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV1487   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV178    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV1156   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV336    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV587    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV507    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV444    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV1551   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-3 |
| ASV376    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-2 |
| ASV737    | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-2 |
| ASV1042   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-2 |
| ASV1353   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-2 |
| ASV1542   | Bacteria    | Saccharibacter aia(TM7) | TM7_C-1, TM7_O-1, TM7_F-1, TM7_G-2 |
| ASV407  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
|---------|----------------------------------|---------|---------|---------|---------|---------|
| ASV731  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_F-1 | TM7_F-1 |
| ASV1367 | Bacteria Saccharibacter ia(TM7) | Saccharibacteria(TM7) | Saccharibacteria(TM7) | Saccharibacteria(TM7) | Saccharibacteria(TM7) |
| ASV294  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV173  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV514  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV460  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV409  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV52   | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV573  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-2 | TM7_G-2 |
| ASV1713 | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV1724 | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV1725 | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV426  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV853  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV1187 | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV211  | Bacteria Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
|-------|-------------------|-------------------------|-------|-------|-------|-------|-------|
| 296   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 1079  | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 201   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 763   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 419   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 1148  | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 67    | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 965   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 774   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 510   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 260   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 572   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 988   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 1261  | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 605   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 829   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| 880   | Bacteria          | Saccharibacter ia(TM7) | TM7_C | TM7_O | TM7_F | TM7_G | TM7_G |
| ASV  | Bacteria                          | Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
|------|----------------------------------|------------------------|---------|---------|---------|---------|---------|
| ASV253 | Bacteria                          | Saccharibacter ia(TM7) | TM7_C-1 | TM7_O-1 | TM7_F-1 | TM7_G-1 | TM7_G-1 |
| ASV1322 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV263 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV708 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV745 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV318 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV478 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV780 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV441 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV381 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV1171 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV349 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV351 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV147 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV1308 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV1205 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV1047 | Bacteria                          | Absconditabacter ia(SR1) | SR1_C-1 | SR1_O-1 | SR1_F-1 | SR1_G-1 | SR1_G-1 |
| ASV  | Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
|------|----------|--------------------------|-------|-------|-------|-------|-------|
| ASV96| Bacteria | Absconditabacteria(SR1)  | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV10| Bacteria | Absconditabacteria(SR1)  | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV612| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV280| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV928| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV128| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV392| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1065| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1754| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1239| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1578| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1622| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1440| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1421| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1563| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1263| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV135| Bacteria | Absconditabacteria(SR1) | SR1_C | SR1_O | SR1_F | SR1_G | SR1_G |
| ASV1730 | Bacteria | Absconditabacteria\text{(SR1)} | SR1\text{--}C | SR1\text{--}O | SR1\text{--}F | SR1\text{--}G | SR1\text{--}G |
|---------|----------|---------------------------------|--------------|--------------|--------------|--------------|--------------|
| ASV1538 | Bacteria | Cyanobacteria/Chloroplast       | Chloroplast  | Chloroplast  | Streptophyta  | Streptophyta  | Streptophyta  |
| ASV78   | Bacteria | Bacteria                        | Bacteria     | Bacteria     | Bacteria      | Bacteria      | Bacteria      |
| ASV826  | Bacteria | Bacteria                        | Bacteria     | Bacteria     | Bacteria      | Bacteria      | Bacteria      |
| ASV1267 | Bacteria | Bacteria                        | Bacteria     | Bacteria     | Bacteria      | Bacteria      | Bacteria      |
| ASV273  | Bacteria | Bacteria                        | Bacteria     | Bacteria     | Bacteria      | Bacteria      | Bacteria      |
| ASV307  | Bacteria | Bacteria                        | Bacteria     | Bacteria     | Bacteria      | Bacteria      | Bacteria      |
| ASV325  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV673  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV1172 | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV491  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV984  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV458  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV734  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV1176 | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV864  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV268  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV395  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV577  | Bacteria | Gracilibacteria\text{(GN02)}   | GN02\text{--}C | GN02\text{--}O | GN02\text{--}F | GN02\text{--}G | GN02\text{--}G |
| ASV    | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-1 | GN02_G-1 |
|--------|---------------|------------------------|----------|----------|----------|----------|----------|
| ASV1700 | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-1 | GN02_G-1 |
| ASV952  | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-1 | GN02_G-1 |
| ASV1541 | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV378  | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV1457 | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV383  | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV108  | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV783  | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV1467 | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV208  | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV74   | Bacteria      | Gracilibacteria (GN02) | GN02_C-1 | GN02_O-1 | GN02_F-1 | GN02_G-2 | GN02_G-2 |
| ASV1174 | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV1250 | Bacteria      | Mollicutes               |         |          |          |          |          |
| ASV1326 | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV508  | Bacteria      | Mollicutes               |         |          |          |          |          |
| ASV167  | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV1372 | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV948  | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV1222 | Bacteria      | Firmicutes               |         |          |          |          |          |
| ASV398  | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV345  | Bacteria      | Tenericutes              |         |          |          |          |          |
| ASV1374 | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV602  | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma_molare |
| ASV817  | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1688 | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV690  | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma_spumans |
| ASV1393 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV939  | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1485 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV827  | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV888  | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1425 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV781  | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1465 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1564 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1288 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1184 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV1191 | Bacteria | Firmicutes  | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Mycoplasma | Mycoplasma |
| ASV899  | Bacteria | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV1094 | Bacteria | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Hydrogenimonas | Hydrogenimonas |
| ASV900  | Bacteria | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV1685 | Bacteria | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Hydrogenimonas | Hydrogenimonas |
| ASV1729 | Bacteria | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV503  | Bacteria | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV    | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales |
|--------|---------------|----------------|-----------------------|-------------------|-------------------|-------------------|
| ASV777 | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV719 | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV1450| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacterales | Campylobacterales |
| ASV994 | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Helicobacteraceae | Helicobacteraceae |
| ASV57  | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter        |
| ASV65  | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter_sp_COT_276 |
| ASV256 | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter        |
| ASV1553| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter        |
| ASV1603| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter        |
| ASV157 | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter        |
| ASV1698| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Arcobacter        | Arcobacter        |
| ASV1228| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Helicobacteraceae | Wolinella         |
| ASV1245| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Helicobacteraceae | Wolinella         |
| ASV49  | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Helicobacteraceae | Wolinella         |
| ASV1343| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacter     | Campylobacter     |
| ASV1618| Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacter     | Campylobacter     |
| ASV986 | Bacteria      | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacter     | Campylobacter     |
| Sample ID | Kingdom   | Phylum     | Subphylum | Class      | Order         | Family       | Genus       | Species         |
|-----------|-----------|------------|-----------|------------|---------------|--------------|-------------|-----------------|
| ASV1198   | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV1519   | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV575    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter | Campylobacter_mucosalis |
| ASV760    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV989    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV387    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV628    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV553    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV267    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV231    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV9      | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV335    | Bacteria  | Proteobacteria | Epsilonproteobacteria | Campylobacterales | Campylobacteraceae | Campylobacter | Campylobacter |                 |
| ASV22     | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Carnobacteriales | Granulicatella | Granulicatella | Granulicatella_sp._COT_095 |
| ASV600    | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Carnobacteriales | Granulicatella | Granulicatella | Granulicatella |
| ASV305    | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Carnobacteriales | Granulicatella | Granulicatella | Granulicatella |
| ASV969    | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Lactobacillales | Lactobacillales | Lactobacillales | Lactobacillales |
| ASV421    | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Aerococcaceae   | Globicatella  | Globicatella  | Globicatella   |
| ASV1166   | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Aerococcaceae   | Globicatella  | Globicatella  | Globicatella   |
| ASV1414   | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Aerococcaceae   | Globicatella  | Globicatella  | Globicatella   |
| ASV1453   | Bacteria  | Firmicutes   | Bacilli    | Lactobacillales | Aerococcaceae   | Globicatella  | Globicatella  | Globicatella   |
| ASV487  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Aerococcaceae | Abiotrophia | Abiotrophia |
|---------|-------------------------------|------------|---------|-----------------|---------------|-------------|-------------|
| ASV655  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Aerococcaceae | Abiotrophia | Abiotrophia |
| ASV1073 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Aerococcaceae | Abiotrophia | Abiotrophia |
| ASV1420 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Aerococcaceae | Abiotrophia | Abiotrophia |
| ASV1497 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Enterococcaceae | Enterococcus | Enterococcus_cecorum |
| ASV1089 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Lactobacillus | Lactobacillus |
| ASV1236 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Lactobacillus | Lactobacillus |
| ASV891  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Lactobacillus | Lactobacillus |
| ASV1566 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Lactobacillus | Lactobacillus |
| ASV1312 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Lactococcus | Lactococcus_piscium |
| ASV1490 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV1329 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV1521 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus_alactolyticus |
| ASV674  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV554  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus_sp._COT_279 |
| ASV1433 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV1411 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV699  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV950  | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV1039 | Bacteria                      | Firmicutes | Bacilli | Lactobacillales | Streptococcaceae | Streptococcus | Streptococcus |
| ASV155  | Bacteria                      | Firmicutes | Bacilli | Bacillales      | Bacillales_Incertae_ Sectis XI | Gemella | Gemella |
| ASV1386 | Bacteria                      | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Turicibacter | Turicibacter |
| ASV1648 | Bacteria                      | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Turicibacter | Turicibacter |
| ASV801  | Bacteria                      | Firmicutes | Clostridia | Clostridiales | Peptococcaceae | Peptococcus |
| ASV1050 | Bacteria                      | Firmicutes | Clostridia | Clostridiales | Peptococcaceae | Peptococcus | Peptococcus |
| ASV1648 | Bacteria                      | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Turicibacter | Turicibacter |
| ASV801  | Bacteria                      | Firmicutes | Clostridia | Clostridiales | Peptococcaceae | Peptococcus |
| ASV1050 | Bacteria                      | Firmicutes | Clostridia | Clostridiales | Peptococcaceae | Peptococcus | Peptococcus |
| ASV54  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptococcaceae | Peptococcus | Peptococcus_sp._COT_04 |
| ASV834 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptococcaceae | Peptococcus | Peptococcus_sp._COT_334 |
| ASV1554| Bacteria | Firmicutes | Clostridia | Clostridiales | Eubacteriaceae_[XV] | Eubacterium | Eubacterium |
| ASV466 | Bacteria | WPS-2 | WPS-2_C-1 | WPS-2_O-1 | WPS-2_F-1 | WPS-2_G-1 | WPS-2_G-1_sp._COT_220 |
| ASV220 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Veillonellaceae_IX_G-1 | Veillonellaceae_IX_G-1 |
| ASV846 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Veillonellaceae_IX_G-1 | Veillonellaceae_IX_G-1 |
| ASV758 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Phascolarctobacterium_s p._COT_149 |
| ASV923 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Phascolarctobacterium | Phascolarctobacterium |
| ASV1270| Bacteria | Firmicutes | Negativicute s | Selenomonadales | Veillonellaceae | Megamonas | Megamonas |
| ASV1571| Bacteria | Firmicutes | Negativicute s | Selenomonadales | Veillonellaceae | Megamonas | Megamonas |
| ASV588 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Selenomonas | Selenomonas_sp._COT_167 |
| ASV931 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Selenomonas | Selenomonas |
| ASV1051| Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Selenomonas | Selenomonas |
| ASV1208| Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Selenomonas | Selenomonas |
| ASV1280| Bacteria | Firmicutes | Negativicute s | Selenomonadales | Selenomonadaceae | Selenomonas | Selenomonas |
| ASV171 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Schwartzia | Schwartzia |
| ASV227 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Schwartzia | Schwartzia |
| ASV824 | Bacteria | Firmicutes | Clostridia | Clostridiales | Veillonellaceae_IX | Schwartzia | Schwartzia |
| ASV424 | Bacteria | Firmicutes | Negativicute s | Veillonellales | Veillonellaceae | Veillonellaceae_[G-1] | Veillonellaceae_[G-1] |
| ASV402 | Bacteria | Firmicutes | Negativicute s | Veillonellales | Veillonellaceae | Veillonellaceae_[G-1] | Veillonellaceae_[G-1] |
| ASV435 | Bacteria Firmicutes Negativicutes | Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] |
| ASV656 | Bacteria Firmicutes Negativicutes | Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] |
| ASV802 | Bacteria Firmicutes Negativicutes | Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] |
| ASV1104 | Bacteria Firmicutes Negativicutes | Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] |
| ASV323 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4_sp._COT_316 |
| ASV1269 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 |
| ASV1695 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 |
| ASV860 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-3 Acholeplasmatales_G-3_sp._COT_375 |
| ASV1418 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-3 Acholeplasmatales_G-3 |
| ASV1559 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-3 Acholeplasmatales_G-3 |
| ASV1577 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 |
| ASV624 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 |
| ASV1639 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 |
| ASV454 | Bacteria Firmicutes Mollicutes | Mollicutes_[O-2] Mollicutes_[F-2] Mollicutes_[G-2] Mollicutes_[G-2] |
| ASV872 | Bacteria Firmicutes Mollicutes | Mollicutes_[O-2] Mollicutes_[F-2] Mollicutes_[G-2] Mollicutes_[G-2] |
| ASV209 | Bacteria Firmicutes Mollicutes | Mollicutes_[O-1] Mollicutes_[F-1] Mollicutes_[G-1] Mollicutes_[G-1] |
| ASV105 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales Acholeplasmatales_G-1_sp._COT_256 |
| ASV456 | Bacteria Tenericutes Mollicutes | Acholeplasmatales Acholeplasmatales Acholeplasmatales_G-2 |

ASV435: Bacteria Firmicutes Negativicutes Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] ||
ASV656: Bacteria Firmicutes Negativicutes Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] ||
ASV802: Bacteria Firmicutes Negativicutes Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] ||
ASV1104: Bacteria Firmicutes Negativicutes Veillonellales Veillonellaceae Veillonellaceae_[G-1] Veillonellaceae_[G-1] ||
ASV323: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4_sp._COT_316 ||
ASV1269: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 ||
ASV1695: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 ||
ASV860: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-3 Acholeplasmatales_G-3_sp._COT_375 ||
ASV1418: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-3 Acholeplasmatales_G-3 ||
ASV1559: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-3 Acholeplasmatales_G-3 ||
ASV1577: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 ||
ASV624: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 ||
ASV1639: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales G-4 Acholeplasmatales_G-4 ||
ASV454: Bacteria Firmicutes Mollicutes Mollicutes_[O-2] Mollicutes_[F-2] Mollicutes_[G-2] Mollicutes_[G-2] ||
ASV872: Bacteria Firmicutes Mollicutes Mollicutes_[O-2] Mollicutes_[F-2] Mollicutes_[G-2] Mollicutes_[G-2] ||
ASV209: Bacteria Firmicutes Mollicutes Mollicutes_[O-1] Mollicutes_[F-1] Mollicutes_[G-1] Mollicutes_[G-1] ||
ASV105: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales Acholeplasmatales_G-1_sp._COT_256 ||
ASV456: Bacteria Tenericutes Mollicutes Acholeplasmatales Acholeplasmatales Acholeplasmatales_G-2 ||
| Sample ID | Phylum      | Class         | Subclass       | Order          | Family        | Genus          |
|-----------|-------------|---------------|----------------|----------------|---------------|----------------|
| ASV1483   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1220   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1036   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1513   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1161   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1400   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1489   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1493   | Bacteria    | Tenericutes   | Mollicutes     | Acholeplasmatales | Acholeplasmatales | Acholeplasmatales_G-2 |
| ASV1673   | Bacteria    | Bacteria      | Bacteria       | Bacteria        | Bacteria      | Bacteria       |
| ASV1066   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV1258   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV1466   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV1646   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV960    | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV1226   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV1390   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Allobaculum   |
| ASV1342   | Bacteria    | Firmicutes    | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Holdemanella  |
| ASV1246 | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
|---------|----------|------------|------------------|-------------------|-------------------|-------------------|
| ASV1360 | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
| ASV196  | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
| ASV1190 | Bacteria | Bacteria   | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
| ASV1031 | Bacteria | Bacteria   | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
| ASV1642 | Bacteria | Bacteria   | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
| ASV700  | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae$_G$-4 |
| ASV917  | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae | Erysipelotrichaceae |
| ASV1264 | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae$_G$-2 |
| ASV589  | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae$_G$-2 |
| ASV166  | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae$_G$-1 |
| ASV1259 | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae$_G$-1 |
| ASV334  | Bacteria | Firmicutes | Erysipelotrichia | Erysipelotrichales | Erysipelotrichaceae$_G$-3 |
| ASV1237 | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Ureaplasma |
| ASV645  | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Ureaplasma |
| ASV1477 | Bacteria | Tenericutes | Mollicutes | Mycoplasmatales | Mycoplasmataceae | Ureaplasma |
| ASV1295 | Bacteria | Chloroflexi | Anaerolineae | Anaerolineales | Anaerolineaceae | Levilinea |
| ASV1728 | Bacteria | Chloroflexi | Anaerolineae | Anaerolineales | Anaerolineaceae | Chloroflexi$_G$-1 |
| ASV712  | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium |
| ASV869  | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium |
| ASV153  | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium |
| ASV145 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV499 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV525 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV455 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1310 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1095 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV218 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1150 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1235 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV597 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV322 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV595 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium_sp._COT_169 |
| ASV85 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium_sp._COT_236 |
| ASV1154 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV397 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV762 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV103 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1049 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV538 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV541 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV973 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV533 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV382 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV558 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV261 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV784 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV2 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV224 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
|---------|----------|--------------|---------------|----------------|------------------|---------------|---------------|
| ASV1689| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV516 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1266| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV856 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV821 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1619| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV581 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV236 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV687 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV807 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV786 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1680| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1544| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1653| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1275| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1590| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV679 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1540| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV314 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1348| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV519 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV1655| Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV277 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV894 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV347 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV239 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Fusobacteriaceae | Fusobacterium | Fusobacterium |
| ASV42  | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Leptotrichiaceae | Streptobacillus | Streptobacillus |
|--------|----------|--------------|----------------|-----------------|-----------------|----------------|----------------|
| ASV303 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Leptotrichiaceae | Leptotrichiaceae | Leptotrichiaceae |
| ASV1044 | Bacteria | Fusobacteria | Fusobacteriia | Fusobacteriales | Leptotrichiaceae | Leptotrichiaceae | Leptotrichiaceae |
| ASV1120 | Bacteria | Elusimicrobia | Endomicrobiota | Elusimicrobiales | Candidatus_Endomicrobium | Candidatus_Endomicrobium | Elusimicrobium |
| ASV299  | Bacteria | Elusimicrobia | Endomicrobiota | Candidatus_Endomicrobium | Candidatus_Endomicrobium | Candidatus_Endomicrobium | Candidatus_Endomicrobium |
| ASV1316 | Bacteria | Elusimicrobia | Endomicrobiota | Candidatus_Endomicrobium | Candidatus_Endomicrobium | Candidatus_Endomicrobium | Candidatus_Endomicrobium |
| ASV432  | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria_F-1 | Alphaproteobacteria_G-1 | Alphaproteobacteria_G-1 |
| ASV1525 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria_F-1 | Alphaproteobacteria_G-1 | Alphaproteobacteria_G-1 |
| ASV1380 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria_F-1 | Alphaproteobacteria_G-1 | Alphaproteobacteria_G-1 |
| ASV1676 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria_F-1 | Alphaproteobacteria_G-1 | Alphaproteobacteria_G-1 |
| ASV1052 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria_F-1 | Alphaproteobacteria_G-1 | Alphaproteobacteria_G-1 |
| ASV1338 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria_F-1 | Alphaproteobacteria_G-1 | Alphaproteobacteria_G-1 |
| ASV1492 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria_O-1 | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria |
| ASV477  | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria |
| ASV861  | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria |
| ASV1282 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria |
| ASV1354 | Bacteria | Proteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria | Alphaproteobacteria |
| ASV1715 | Bacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria |
| ASV978 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhodospirillales | Rhodospirillales | Rhodospirillales | Rhodospirillales |
|--------|----------|----------------|--------------------|----------------|----------------|----------------|----------------|
| ASV1678 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhodospirillales | Rhodospirillales | Rhodospirillales | Rhodospirillales |
| ASV1640 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhodospirillales | Rhodospirillales | Rhodospirillales | Rhodospirillales |
| ASV1675 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhodospirillales | Rhodospirillales | Rhodospirillales | Rhodospirillales |
| ASV584 | Bacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria |
| ASV564 | Bacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria |
| ASV1479 | Bacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria | Proteobacteria |
| ASV1511 | Bacteria | Proteobacteria | Alphaproteobacteria | Sphingomonadales | Sphingomonadaceae | Sphingobium | Sphingobium |
| ASV1644 | Bacteria | Proteobacteria | Alphaproteobacteria | Sphingomonadales | Sphingomonadaceae | Sphingomonas | Sphingomonas_dokdonensis |
| ASV1286 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhizobiales | Bradyrhizobiaceae | Bosea | Bosea |
| ASV1558 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhizobiales | Bradyrhizobiaceae | Bradyrhizobium | Bradyrhizobium |
| ASV1488 | Bacteria | Proteobacteria | Alphaproteobacteria | Rhizobiales | Brucellaceae | Ochrobactrum | Ochrobactrum |
| ASV1734 | Bacteria | Proteobacteria | Alphaproteobacteria | Caulobacteriales | Caulobacteraceae | Caulobacter | Caulobacter |
| ASV13 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1_sp_COT_046 |
| ASV815 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV228 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV40 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV157 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1_sp._COT_046 |
| ASV857 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV563 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV966 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1061 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV101 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV109 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1_sp._COT_312 |
| ASV604 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1142 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1423 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1435 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1626 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1693 | Bacteria | Chlorobi | Chlorobi_C-1 | Chlorobi_O-1 | Chlorobi_F-1 | Chlorobi_G-1 | Chlorobi_G-1 |
| ASV1748 | Bacteria | Bacteroidetes | Flavobacteri a | Flavobacteriales | Flavobacteriaceae | Flavobacteriaceae | Flavobacteriaceae |
| ASV785 | Bacteria | Proteobacteria | Gammaprote obacteria | Xanthomonadales | Xanthomonadaceae | Stenotrophomon as | Stenotrophomonas |
| ASV927 | Bacteria | Proteobacteria | Gammaprote obacteria | Xanthomonadales | Xanthomonadaceae | Stenotrophomon as | Stenotrophomonas |
| ASV326 | Bacteria | Proteobacteria | Gammaprote obacteria | Xanthomonadales | Xanthomonadaceae | Stenotrophomon as | Stenotrophomonas_sp._C OT_224 |
| ASV   | Clade   | Class      | Order       | Family    | Genus       | Species               |
|-------|---------|------------|-------------|-----------|-------------|-----------------------|
| ASV89 | Bacteria| Proteobacteria | Gammaproteobacteria | Xanthomonadales | Xanthomonadaceae | Stenotrophomonas |
| ASV759| Bacteria| Proteobacteria | Gammaproteobacteria | Xanthomonadales | Xanthomonadaceae | Xanthomonadaceae |
| ASV1609| Bacteria| Proteobacteria | Gammaproteobacteria | Xanthomonadales | Xanthomonadaceae | Luteimonas |
| ASV634| Bacteria| Proteobacteria | Gammaproteobacteria | Xanthomonadales | Xanthomonadaceae | Luteimonas |
| ASV229| Bacteria| Proteobacteria | Gammaproteobacteria | Xanthomonadales | Xanthomonadaceae | Xanthomonadaceae |
| ASV279| Bacteria| Proteobacteria | Gammaproteobacteria | Xanthomonadales | Xanthomonadaceae | Xanthomonadaceae |
| ASV159| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV223| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV64 | Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV158| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV373| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV317| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV739| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV176| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV1118| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV906| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV116| Bacteria| Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus |
| ASV  | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
|------|-----------|----------------|-------------------|----------------|----------------|-----------|-----------|
| ASV666 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV1013 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV1180 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV1568 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV1701 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Comamonadaceae | Comamonadaceae |
| ASV1705 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Comamonadaceae | Comamonadaceae |
| ASV1741 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiales | Burkholderiales | Burkholderiales |
| ASV1612 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV1624 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV1063 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV1535 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV593 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV1432 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Xenophilus | Xenophilus |
| ASV132 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV452 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV799 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV920 | Bacteria  | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV  | Bacteria     | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
|------|--------------|----------------|--------------------|-----------------|----------------|---------|---------|
| ASV1151 | Bacteria   | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV1074 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1111 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Comamonadaceae | Comamonadaceae |
| ASV1555 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Ottowia | Ottowia |
| ASV1503 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Comamonas | Comamonas |
| ASV16 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Comamonas | Comamonas_sp._COT_270 |
| ASV1387 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV262 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV361 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV170 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas_sp._COT_015 |
| ASV470 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV473 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1328 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1444 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV772 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV369 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV386 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV  | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
|------|----------|---------------|-------------------|-----------------|----------------|-------------|-------------|
| ASV1092 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1292 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV672 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1004 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV727 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1130 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV486 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV701 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV585 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1008 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV550 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV536 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV217 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV684 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV340 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV380 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV191 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV   | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
|-------|----------|----------------|-------------------|-----------------|----------------|-------------|-------------|
| ASV417| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1378| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Delfia      | Delfia      |
| ASV1567| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Comamonadaceae | Brachymonas | Brachymonas |
| ASV1175| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Sutterellaceae | Sutterella  | Sutterella  |
| ASV1385| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Sutterellaceae | Sutterella  | Sutterella_stercoricanis |
| ASV889 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Sutterellaceae | Parasutterella | Parasutterella |
| ASV1361| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Sutterellaceae | Parasutterella | Parasutterella |
| ASV117 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | Lautropia   | Lautropia_sp_COT_175 |
| ASV646 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | Lautropia   | Lautropia   |
| ASV606 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | Lautropia   | Lautropia_sp_COT_060 |
| ASV1075| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | Lautropia   | Lautropia   |
| ASV1124| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | Lautropia   | Lautropia   |
| ASV1128| Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Burkholderiaceae | Lautropia   | Lautropia   |
| ASV1484| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales    | Neisseriaceae  | Neisseriaceae | Neisseriaceae |
| ASV748 | Bacteria | Proteobacteria | Betaproteobacteria | Rhodocyclales   | Rodocyclaceae   | Proprionivibrio | Proprionivibrio |
| ASV1323| Bacteria | Proteobacteria | Betaproteobacteria | Rhodocyclales   | Rodocyclaceae   | Proprionivibrio | Proprionivibrio |
| ASV244 | Bacteria | Proteobacteria | Betaproteobacteria | Rhodocyclales   | Rodocyclaceae   | Proprionivibrio | Proprionivibrio_sp_COT_223 |
| ASV659  | Bacteria | Proteobacteria | Betaproteobacteria | Rhodocyclales | Rodocyclaceae | Proprionivibrio | Proprionivibrio_sp._COT_223 |
|---------|----------|----------------|--------------------|---------------|--------------|----------------|------------------|
| ASV1660 | Bacteria | Proteobacteria | Betaproteobacteria | Rhodocyclales | Rodocyclaceae | Proprionivibrio | Proprionivibrio |
| ASV1617 | Bacteria | Proteobacteria | Betaproteobacteria | Rhodocyclales | Rodocyclaceae | Proprionivibrio | Proprionivibrio |
| ASV1523 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Oxalobacteraceae | Oxalobacter | Oxalobacter |
| ASV438  | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Alcaligenaceae | Alcaligenaceae | Alcaligenaceae |
| ASV1072 | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Alcaligenaceae | Pelistega | Pelistega |
| ASV156  | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Oxalobacteraceae | Pelistega | Pelistega_sp._COT_267 |
| ASV658  | Bacteria | Proteobacteria | Betaproteobacteria | Burkholderiales | Oxalobacteraceae | Pelistega | Pelistega |
| ASV823  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1123 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV720  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV583  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1056 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV537  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV569  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV682  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1223 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV942 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
|--------|----------|----------------|---------------------|----------------|----------------|---------------------|---------------------|
| ASV957 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1002 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV911 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1284 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV479 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV940 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1_sp._COT_272 |
| ASV1452 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV617 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV560 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV543 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1_sp._COT_326 |
| ASV1207 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV867 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV474 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV941 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1001 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV76 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1_sp._COT_272 |
| Bacteria  | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
|-----------|----------------|---------------------|----------------|---------------|---------------------|---------------------|
| ASV187    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-1 |
| ASV270    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-1 |
| ASV289    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-1 |
| ASV348    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-1 |
| ASV467    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-1 |
| ASV1560   | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurella         |
| ASV70     | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellacea_canis |
| ASV517    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurella         |
| ASV124    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurella         |
| ASV17     | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurella         |
| ASV272    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurella         |
| ASV1584   | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-2 |
| ASV110    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-2 |
| ASV79     | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-2 |
| ASV1098   | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae     |
| ASV342    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-2 |
| ASV482    | Bacteria       | Proteobacteria      | Gammaproteobacteria | Pasteurellales | Pasteurellaceae     | Pasteurellaceae_G-2 |
| ASV311 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
|--------|----------|----------------|---------------------|----------------|----------------|---------------------|---------------------|
| ASV818 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV775 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV795 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV615 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV830 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV915 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV637 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2_sp._COT_271 |
| ASV174 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV1090| Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV661 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV971 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV360 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV46  | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV154 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV214 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV463 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV   | Bacteria   | Phylum         | Class            | Order            | Family           | Genus               | Comments               |
|-------|------------|----------------|------------------|------------------|------------------|---------------------|------------------------|
| ASV518| Bacteria   | Proteobacteria | Gammaproteobacteria | Pasteurellales   | Pasteurellaceae  | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV765| Bacteria   | Proteobacteria | Gammaproteobacteria | Pasteurellales   | Pasteurellaceae  | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV796| Bacteria   | Proteobacteria | Gammaproteobacteria | Pasteurellales   | Pasteurellaceae  | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV1152| Bacteria  | Proteobacteria | Gammaproteobacteria | Pasteurellales   | Pasteurellaceae  | Pasteurellaceae_G-2 | Pasteurellaceae_G-2 |
| ASV1706| Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales   | Pasteurellaceae  | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1707| Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales   | Pasteurellaceae  | Pasteurellaceae_G-1 | Pasteurellaceae_G-1 |
| ASV1585| Bacteria | Proteobacteria | Gammaproteobacteria | Aeromonadales    | Succinivibrionaceae | Anaerobiospirillum | Anaerobiospirillum |
| ASV1661| Bacteria | Proteobacteria | Gammaproteobacteria | Aeromonadales    | Succinivibrionaceae | Anaerobiospirillum | Anaerobiospirillum |
| ASV1587| Bacteria | Proteobacteria | Gammaproteobacteria | Chromatales      | Chromatiaceae    | Rheinheimera         | Rheinheimera           |
| ASV1416| Bacteria | Proteobacteria | Gammaproteobacteria | Enterobacteriales | Enterobacteriaceae | Escherichia/Shigella | Escherichia/Shigella |
| ASV1539| Bacteria | Proteobacteria | Gammaproteobacteria | Enterobacteriales | Enterobacteriaceae | Escherichia/Shigella | Escherichia/Shigella |
| ASV956 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium      | Cardiobacterium       |
| ASV1215| Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium      | Cardiobacterium       |
| ASV1003| Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacteriaceae   | Cardiobacteriaceae    |
| ASV933 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacteriaceae   | Cardiobacteriaceae    |
| ASV403 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium      | Cardiobacterium       |
| ASV1662| Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium      | Cardiobacterium       |
| ASV230 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
|--------|----------|----------------|---------------------|-------------------|-------------------|----------------|----------------|
| ASV1476 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV505 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV546 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV1227 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV877 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV954 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV1536 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV118 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV190 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV749 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV1070 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV1327 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV1371 | Bacteria | Proteobacteria | Gammaproteobacteria | Cardiobacteriales | Cardiobacteriaceae | Cardiobacterium | Cardiobacterium |
| ASV1744 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Nicoletella | Nicoletella |
| ASV1746 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae | Pasteurellaceae |
| ASV1757 | Bacteria | Proteobacteria | Gammaproteobacteria | Pasteurellales | Pasteurellaceae | Pasteurellaceae | Pasteurellaceae |
| ASV1759 | Bacteria Proteobacteria Gammaproteobacteria | Pasteurellales Pasteurellaceae | Frederiksenia Frederiksenia |
| ASV63 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV629 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV95 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV893 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV789 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV384 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV506 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV977 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Aquaspirillum Aquaspirillum |
| ASV445 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
| ASV806 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
| ASV83 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
| ASV1041 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
| ASV206 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
| ASV189 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria_canis |
| ASV115 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
| ASV394 | Bacteria Proteobacteria Betaproteobacteria | Neisseriales Neisseriaceae | Neisseria Neisseria |
|        | Phylum          | Class             | Order               | Family            | Genus          | Species           |
|--------|----------------|-------------------|---------------------|-------------------|----------------|-------------------|
| ASV1654 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1509 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1543 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1219 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV319  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV609  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1069 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1441 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV309  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Eikonella         |
| ASV1163 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV375  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1522 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Neisseria         |
| ASV1307 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Conchiformibius    |
| ASV787  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Conchiformibius    |
| ASV1241 | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Conchiformibius    |
| ASV619  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Conchiformibius    |
| ASV127  | Bacteria       | Proteobacteria    | Betaproteobacteria  | Neisseriales      | Neisseria      | Conchiformibius    |
| ASV   | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
|-------|----------|----------------|--------------------|--------------|---------------|----------------|----------------|
| ASV842 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV1335 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV192 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV594 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV484 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV1257 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV1364 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV1107 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV1593 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius_steedae |
| ASV657 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV678 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV691 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV901 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV1306 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV754 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Alysiella | Alysiella |
| ASV987 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| ASV752 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius | Conchiformibius |
| Sample ID | Kingdom | Phylum     | Class      | Order       | Family       | Genus     |
|-----------|---------|------------|------------|-------------|--------------|-----------|
| ASV1302   | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV1373   | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV313    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV255    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV423    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV641    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV650    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV1273   | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV1504   | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Conchiformibius |
| ASV1143   | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV1530   | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV368    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV792    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV111    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV798    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV123    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV150    | Bacteria| Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria   |
| ASV   | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
|-------|----------|----------------|--------------------|--------------|---------------|-----------|-----------|
| ASV97 | Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV222| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV1443| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV651| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV207| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria_canis |
| ASV638| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV1703| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV1572| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV1613| Bacteria | Proteobacteria | Betaproteobacteria | Neisseriales | Neisseriaceae | Neisseria | Neisseria |
| ASV1614| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV413| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Acinetobacter | Acinetobacter |
| ASV770| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Acinetobacter | Acinetobacter |
| ASV1277| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxellaceae | Moraxellaceae |
| ASV1026| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV1179| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV725| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV379| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella_sp._COT_396 |
| ASV        | Kingdom | Phylum           | Class            | Order             | Family        | Genus Locus Genus |
|------------|---------|------------------|------------------|-------------------|---------------|-------------------|
| ASV144     | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV53      | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV3       | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV921     | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV757     | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV126     | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV662     | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1033    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV768     | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1110    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV69      | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1140    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1209    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1437    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1652    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Enhydrobacter     |
| ASV1471    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV1659    | Bacteria| Proteobacteria   | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella         |
| ASV   | Domain | Phylum       | Class       | Order     | Family       | Genus     | Species    |
|-------|--------|--------------|-------------|-----------|--------------|-----------|------------|
| ASV1599 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV1714 | Bacteria | Bacteroidetes | Bacteroidia | Bacteroidia_O-1 | Bacteroidia_F-1 | Odoribacter | Odoribacter |
| ASV1758 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Fausicola | Fausicola |
| ASV1272 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Fausicola | Fausicola |
| ASV1375 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Fausicola | Fausicola |
| ASV626 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV1099 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV371 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV845 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV527 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV243 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV352 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV946 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV676 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV1311 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV1 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella_sp_COT_018 |
| ASV30 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella |
| ASV   | Bacteria | Phylum        | Class            | Order       | Family      | Genus       | Species           |
|-------|----------|---------------|------------------|-------------|------------|-------------|------------------|
| ASV93 | Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella         |
| ASV194| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella         |
| ASV1344| Bacteria | Proteobacteria | Gammaproteobacteria | Pseudomonadales | Moraxellaceae | Moraxella | Moraxella         |
| ASV721| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces_bacterium |
| ASV1330| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV252| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces_canis |
| ASV642| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV713| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV996| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV1260| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV1510| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV1082| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV134| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV233| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV1289| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV1059| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ASV1193| Bacteria | Actinobacteria | Actinomycetales   | Actinomycetales | Actinomyces  | Actinomyces |
| ID   | Kingdom | Phylum      | Class          | Order          | Family          | Genus     | Species                  |
|------|---------|-------------|----------------|----------------|-----------------|-----------|--------------------------|
| ASV552 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV1113 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV1533 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV1742 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV1309 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV1498 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces_weissii      |
| ASV532  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces_weissii      |
| ASV930  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV822  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces_bowdenii     |
| ASV1096 | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV160  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV542  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces_coleocanis   |
| ASV885  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV428  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV925  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV99   | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV980  | Bacteria | Actinobacteria | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces               |
| ASV695 | Bacteria  | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces |
|-------|----------|----------------|-----------------|------------------|------------|------------|
| ASV839| Bacteria  | Actinobacteria | Actinomycetales | Actinomycetaceae | Actinomyces | Actinomyces_hordeovulneris |
| ASV576| Bacteria  | Actinobacteria | Actinomycetales | Microbacteriaceae | Microbacteriaceae | Microbacteriaceae |
| ASV991| Bacteria  | Actinobacteria | Actinomycetales | Microbacteriaceae | Leucobacter | Leucobacter |
| ASV1694| Bacteria | Actinobacteria | Actinomycetales | Microbacteriaceae | Microbacterium | Microbacterium |
| ASV735| Bacteria  | Actinobacteria | Actinomycetales | Microbacteriaceae | Leucobacter | Leucobacter |
| ASV162| Bacteria  | Actinobacteria | Actinomycetales | Microbacteriaceae | Leucobacter | Leucobacter |
| ASV327| Bacteria  | Actinobacteria | Actinomycetales | Microbacteriaceae | Leucobacter | Leucobacter |
| ASV675| Bacteria  | Actinobacteria | Actinomycetales | Microbacteriaceae | Leucobacter | Leucobacter |
| ASV1084| Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV1102| Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV1349| Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV1350| Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV844| Bacteria  | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV1055| Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV936| Bacteria  | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium_mustelae |
| ASV1091| Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| Sample | Kingdom | Phylum | Class | Order | Family | Genus | Species |
|--------|---------|--------|-------|-------|--------|--------|---------|
| ASV500 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium_mustelae |
| ASV495 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium_mustelae |
| ASV838 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV388 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium_freiburgense |
| ASV412 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium_freiburgense |
| ASV203 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV1165 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV574 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium_canis |
| ASV955 | Bacteria | Actinobacteria | Actinomycetales | Corynebacteriaceae | Corynebacterium | Corynebacterium |
| ASV276 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacterium | Propionibacterium_sp._COT_300 |
| ASV766 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacterium | Propionibacterium |
| ASV1160 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacterium | Propionibacterium |
| ASV1401 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacterium | Cutibacterium |
| ASV1586 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacterium | Cutibacterium |
| ASV1616 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacteriaceae_[G-1] | Propionibacteriaceae_[G-1] |
| ASV1529 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Brooklawnia | Brooklawnia |
| ASV1621 | Bacteria | Actinobacteria | Actinomycetales | Propionibacteriaceae | Propionibacteriaceae_[G-2] | Propionibacteriaceae_[G-2] |
| Sample   | Kingdom | Phylum           | Class            | Order              | Family              | Genus             | Species                  |
|----------|---------|------------------|------------------|--------------------|---------------------|-------------------|---------------------------|
| ASV396   | Bacteria| Actinobacteria   | Actinomycetales  | Propionibacteriaceae | Propionibacterium sp._C OT 296 |
| ASV443   | Bacteria| Actinobacteria   | Actinomycetales  | Propionibacteriaceae | Propionibacterium sp._C OT 324 |
| ASV1249  | Bacteria| Actinobacteria   | Actinomycetales  | Propionibacteriaceae | Actinobacteria_G 1_sp_COT_376 |
| ASV664   | Bacteria| Actinobacteria   | Actinobacteri a_C-1 | Actinobacteria_O -1 | Actinobacteria_G -1 |
| ASV226   | Bacteria| Actinobacteria   | Actinobacteri a_C-1 | Actinobacteria_O -1 | Actinobacteria_G -1 |
| ASV1125  | Bacteria| Actinobacteria   | Actinobacteri a_C-1 | Actinobacteria_O -1 | Actinobacteria_G -1 |
| ASV1604  | Bacteria| Actinobacteria   | Coriobacteri a   | Coriobacteriales   | Actinobacteria_G -1 |
| ASV1708  | Bacteria| Actinobacteria   | Actinobacteri a   | Coriobacteriales   | Adlcreutzia        |
| ASV1225  | Bacteria| Actinobacteria   | Spirochaetes     | Spirochaetales     | Treponema           |
| ASV1569  | Bacteria| Actinobacteria   | Spirochaetes     | Spirochaetales     | Treponema           |
| ASV668   | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV1254  | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV544   | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV1345  | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV949   | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV1427  | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV1240  | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV614   | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV729   | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV1046  | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV557   | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV1126  | Bacteria| Actinobacteria   | Spirochaetia     | Spirochaetales     | Treponema           |
| ASV958  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
|---------|----------|--------------|--------------|----------------|----------------|-----------|-----------|
| ASV1396 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV849  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV429  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1320 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1221 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV790  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV240  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV897  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV905  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._HMT_23 |
| ASV1210 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV515  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._HMT_23 |
| ASV831  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._HMT_23 |
| ASV964  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1100 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._HMT_23 |
| ASV1265 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1274 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1671 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV184  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_35 |
| ASV449  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1116 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1242 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV804  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_24 |
| ASV221  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1121 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1229 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV631  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1212 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema_sp._COT_170 |
| ASV1751 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV457  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV547  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV301  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema_sp._COT_233 |
| ASV204  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema_sp._COT_233 |
| ASV1294 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1333 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV767  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema_sp._COT_355 |
| ASV924  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1430 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV873  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV907  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1178 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1318 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1475 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1752 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1547 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1366 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1500 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema_sp._HMT_235 |
| ASV1743 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV908  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema |
| ASV1324 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema | Treponema_sp._COT_171 |
| ASV1138 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
|---------|----------|--------------|--------------|----------------|----------------|-----------|-----------|
| ASV1403 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1407 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1495 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1224 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV567  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1064 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV945  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV636  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1230 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1534 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1736 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1592 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1721 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1665 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV370  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV497  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1417 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1482 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1155 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1515 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1145 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1177 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1637 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1446 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV884  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1462 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1251 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV793  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1606 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV999  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1526 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1750 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV979  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1357 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1496 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1631 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV681  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1649 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1486 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV430  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema_sp._COT_20 |
| ASV1216 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1317 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1395 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1005 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1189 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV330  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV755  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema_sp._COT_35 |
| ASV511  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV863  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV1032 | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV84   | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV523  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV492  | Bacteria Spirochaetes Spirochaetia Spirochaetales Spirochaetaceae Treponema Treponema |
| ASV475 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1451 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV362 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1020 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV685 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1397 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1456 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1040 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1630 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1217 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1552 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV416 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1086 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV34 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1077 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV496 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1043 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV447 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV346 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV205 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV414 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1010 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV20 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV39 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV308 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV522 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1078 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1201 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1737 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1738 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1368 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1382 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV910  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1687 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1027 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1296 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1428 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1709 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV983  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1384 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1394 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1402 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1203 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1021 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_socranskii |
| ASV997  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1491 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1253 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1550 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV601  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV800  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV813  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1183 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV896  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_parvum |
| ASV1455 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV175  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_209 |
| ASV843 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_35 8 |
| ASV771 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1556 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV929 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1243 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV568 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV851 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1336 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV963 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1293 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_35 2 |
| ASV180 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV625 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV293 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._HMT_49 0 |
| ASV193 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_35 6 |
| ASV51 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1117 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV565 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV25 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema_sp._COT_35 6 |
| ASV862 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema | Treponema |
| ASV1667 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta | Spirochaeta |
| ASV343 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta | Spirochaeta_sp._COT_31 4 |
| ASV711 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta | Spirochaeta |
| ASV1202 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta | Spirochaeta |
| ASV408 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta | Spirochaeta_sp._COT_31 4 |
| ASV902  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta | Spirochaeta |
|---------|----------|--------------|--------------|----------------|----------------|-------------|-------------|
| ASV922  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV1517 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV1391 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV1279 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Spirochaeta   | Spirochaeta |
| ASV1211 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV1341 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV1602 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV1516 | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV366  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV710  | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV521  | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV938  | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV548  | Bacteria | Proteobacteria | Deltaproteobactera | Bdellovibrionales | Bacteriovoraceae | Bacteriovoraceae | Bacteriovoraceae |
| ASV1278 | Bacteria | Proteobacteria | Deltaproteobactera | Bdellovibrionales | Bacteriovoraceae | Halobacteriovora | Halobacteriovorax |
| ASV1627 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema     | Treponema     |
| ASV512  | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1149 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV819  | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV918  | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1615 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1290 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1023 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1157 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1531 | Bacteria | Acidobacteria | Acidobacteri a_Gp3 | Gp3 | Gp3 | Gp3 |

ASV366  | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Sphaerochaeta | Sphaerochaeta |
| ASV710  | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV521  | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV938  | Bacteria | Bacteria     | Bacteria     | Bacteria       | Bacteria       | Bacteria     | Bacteria     |
| ASV548  | Bacteria | Proteobacteria | Deltaproteobactera | Bdellovibrionales | Bacteriovoraceae | Bacteriovoraceae | Bacteriovoraceae |
| ASV1278 | Bacteria | Proteobacteria | Deltaproteobactera | Bdellovibrionales | Bacteriovoraceae | Halobacteriovora | Halobacteriovorax |
| ASV1627 | Bacteria | Spirochaetes | Spirochaetia | Spirochaetales | Spirochaetaceae | Treponema     | Treponema     |
| ASV512  | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1149 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV819  | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV918  | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1615 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1290 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1023 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1157 | Bacteria | Firmicutes   | Firmicutes   | Firmicutes     | Firmicutes     | Firmicutes_G-1 | Firmicutes_G-1 |
| ASV1531 | Bacteria | Acidobacteria | Acidobacteri a_Gp3 | Gp3 | Gp3 | Gp3 |
| ASV   | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
|-------|----------|----------------|---------------------|------------------------|------------------------|-------------------------------------|
| ASV1332 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1507 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV406 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1276 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV411 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV562 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1461 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1464 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV437 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1007 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1195 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV883 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV418 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV794 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1169 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1370 | Bacteria | Proteobacteria | Deltaproteobacteria | Deltaproteobacteria_F-1 | Deltaproteobacteria_G-1 | Deltaproteobacteria_G-1_sp._COT_266 |
| ASV1355 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Myxococcaceae | Aggregicoccus | Aggregicoccus |
| ASV705 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
|--------|----------|----------------|---------------------|--------------|---------------|--------------|--------------|
| ASV667 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1449 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1474 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV446 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV688 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV367 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1248 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1213 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV481 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1108 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV694 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV37 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV47 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV570 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV143 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1749 | Bacteria | Proteobacteria | Deltaproteobacteria | Myxococcales | Polyangiaceae | Chondromyces | Chondromyces |
| ASV1596 | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio |
| ASV649  | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio_sp._HMT_040 |
| ASV743  | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio |
| ASV36   | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio |
| ASV38   | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio |
| ASV161  | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio |
| ASV225  | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfovibrionales | Desulfovibrionaceae | Desulfovibrio | Desulfovibrio |
| ASV216  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV524  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV718  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV274  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV410  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV1214 | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV635  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV1112 | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV1347 | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV640  | Bacteria | Firmicutes     | Clostridia          | Clostridiales     | Lachnospiraceae_XIVA | Lachnospiraceae_XIVA_G-3 | Lachnospiraceae_XIVA_G-3 |
| ASV   | Bacteria | Phylum       | Class      | Order       | Family            | Genus        | Species                              |
|-------|----------|--------------|------------|-------------|-------------------|--------------|--------------------------------------|
| ASV431| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Lachnospiraceae | XIVa_XIVa_G-2                        |
| ASV1505| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Lachnospiraceae | XIVa_XIVa_G-2                        |
| ASV1247| Bacteria | Firmicutes   | Clostridia | Clostridiales| Clostridiales     | Lachnospiraceae | Clostridiales                        |
| ASV1356| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Clostridium    | XIVa                              |
| ASV663 | Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia_sp._COT_337                |
| ASV1636| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia                              |
| ASV1389| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia                              |
| ASV1012| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Ruminococcus  | 2                                  |
| ASV1469| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia                              |
| ASV1520| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia                              |
| ASV1192| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia                              |
| ASV1494| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Blautia       | Blautia                              |
| ASV890 | Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella_sp._COT_048             |
| ASV55  | Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella_sp._COT_158            |
| ASV1436| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella                            |
| ASV1598| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella                            |
| ASV354 | Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella_sp._COT_025             |
| ASV502 | Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella                            |
| ASV1358| Bacteria | Firmicutes   | Clostridia | Clostridiales| Lachnospiraceae   | Catonella     | Catonella                            |
| ASV   | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Catonella | Catonella |
|-------|----------|------------|------------|---------------|-----------------------|-----------|-----------|
| ASV163 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Catonella | Catonella |
| ASV298 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Catonella | Catonella_sp_COT_257 |
| ASV448 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Catonella | Catonella |
| ASV1196 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Catonella | Catonella |
| ASV556 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Catonella | Catonella |
| ASV151 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Catonella | Catonella_sp_COT_160 |
| ASV483 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Catonella | Catonella |
| ASV697 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae       | Lachnospiraceae | Lachnospiraceae |
| ASV970 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae       | Lachnospiraceae | Lachnospiraceae |
| ASV1060 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae       | Lachnospiraceae | Lachnospiraceae |
| ASV1137 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales         | Clostridiales | Clostridiales |
| ASV848 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-4 | Lachnospiraceae_XIVa_G-4 |
| ASV357 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-4 | Lachnospiraceae_XIVa_G-4 |
| ASV616 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-4 | Lachnospiraceae_XIVa_G-4 |
| ASV60  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-5 | Lachnospiraceae_XIVa_G-5 |
| ASV358 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-5 | Lachnospiraceae_XIVa_G-5 |
| ASV242 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-5 | Lachnospiraceae_XIVa_G-5 |
| ASV1574 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-5 | Lachnospiraceae_XIVa_G-5 |
| ASV1610 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa  | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV   | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
|-------|----------|------------|------------|---------------|----------------------|--------------------------|--------------------------|
| ASV1197 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV1281 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV21   | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV133  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV1122 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV92   | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV165  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV425  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV1114 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV539  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV215  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV704  | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_XIVa | Lachnospiraceae_XIVa_G-6 | Lachnospiraceae_XIVa_G-6 |
| ASV1262 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae | Lachnospiraceae | Lachnospiraceae |
| ASV1679 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae | Lachnospiraceae | Lachnospiraceae |
| ASV875  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_IV | Faecalibacterium | Faecalibacterium |
| ASV1597 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_IV | Clostridiales_IV_G-3 | Clostridiales_IV_G-3 |
| ASV1690 | Bacteria | Firmicutes | Clostridia | Clostridiales | Ruminococcaceae | Anaerotruncus | Anaerotruncus |
| ASV1194 | Bacteria | Firmicutes | Clostridia | Clostridiales | Ruminococcaceae | Ruminococcaceae | Ruminococcaceae |
| ASV1388 | Bacteria | Firmicutes | Clostridia | Clostridiales | Ruminococcaceae | Acetanaerobacterium | Acetanaerobacterium |
| Sample Code | Domain   | Phylum    | Class     | Order     | Suborder   | Family      |
|-------------|----------|-----------|-----------|-----------|------------|-------------|
| ASV247      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-3 |
| ASV1014     | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-3 |
| ASV599      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-2 |
| ASV832      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-2 |
| ASV1611     | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales    | Clostridiales    |
| ASV292      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-1 |
| ASV703      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-1 |
| ASV742      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_III| Clostridiales_III_G-1 |
| ASV529      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_IV | Clostridiales_IV_G-2 |
| ASV761      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_IV | Clostridiales_IV_G-2 |
| ASV1514     | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales          | Ruminococcaceae |
| ASV1548     | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales          | Ruminococcaceae |
| ASV281      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_IV       | Clostridiales_IV_G-1 |
| ASV643      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales_IV       | Clostridiales_IV_G-1 |
| ASV859      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales          | Ruminococcaceae Intestinimonas |
| ASV707      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales          | Intestinimonas |
| ASV750      | Bacteria | Firmicutes| Clostridia| Clostridales| Clostridiales          | Intestinimonas |
| ASV935      | Bacteria | Synergistetes| Synergistia| Synergistales| Synergistales_F-1     | Synergistales_G-1 Synergistales_G-1_sp_COT_180 |
| ASV1231     | Bacteria | Synergistetes| Synergistia| Synergistales| Synergistales_F-1     | Synergistales_G-1 Synergistales_G-1 |
| ASV811      | Bacteria | Synergistetes| Synergistia| Synergistales| Synergistales_F-1     | Synergistales_G-1 Synergistales_G-1 |
| ASV33       | Bacteria | Synergistetes| Synergistia| Synergistales| Synergistales_F-1     | Synergistales_G-1 Synergistales_G-1 |
| ASV715 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV753 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV959 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV913 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1088 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV855 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV805 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV19 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_sp._COT_178 |
| ASV81 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV566 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1287 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV344 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV919 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_sp._COT_094 |
| ASV1025 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV251 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV816 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_sp._COT_361_Fretibacterium_sp._HMT |
| ASV1256 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1406 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_Fretibacterium |
| ASV328 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_Fretibacterium_sp._HMT_362 |
| ASV1313 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_Fretibacterium |
| ASV1339 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_Fretibacterium |
| ASV586 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_Fretibacterium_fastidiosum |
| ASV670 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1_Fretibacterium |
| ASV1594 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1638 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1303 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
|---------|----------|---------------|-------------|---------------|------------------|------------------|------------------|
| ASV639  | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV692  | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1501 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1623 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1720 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1481 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1508 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-1 | Synergistales_G-1 | Synergistales_G-1 |
| ASV1682 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales | Synergistales | Synergistales |
| ASV1404 | Bacteria | Synergistetes | Synergistia | Synergistales | Dethiosulfovibrionaceae | Pyramidobacter | Pyramidobacter |
| ASV1699 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistaceae | Aminivibrio | Aminivibrio |
| ASV248  | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistales_F-2 | Synergistales_G-2 | Synergistales_G-2_sp._COT_138 |
| ASV1009 | Bacteria | Synergistetes | Synergistia | Synergistales | Synergistaceae | Synergistes | Synergistes |
| ASV809  | Bacteria | Firmicutes    | Clostridia  | Clostridiales | Syntrophomonadaceae_[VIII] | Syntrophomonadaceae_[VIII][G-1] | Syntrophomonadaceae_[VIII][G-1] |
| ASV1632 | Bacteria | Firmicutes    | Clostridia  | Clostridiales | Clostridiales | Clostridiales | Clostridiales |
| ASV1362 | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
| ASV1512 | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
| ASV462  | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus_sp._COT_078 |
| ASV1071 | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
| ASV740  | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
| ASV1030 | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
| ASV1141 | Bacteria | Proteobacteria | Deltaproteobacteria | Desulfobacteriales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
| ASV1408 | Bacteria  | Proteobacteria | Deltaproteobacteria | Desulfobacterales | Desulfobulbaceae | Desulfobulbus | Desulfobulbus |
|---------|-----------|----------------|---------------------|-------------------|-----------------|---------------|---------------|
| ASV1684 | Bacteria  | Chlorobi       | Chlorobi_C-1        | Chlorobi_O-1      | Chlorobi_F-1    | Chlorobi_G-1  | Chlorobi_G-1  |
| ASV1711 | Bacteria  | Chlorobi       | Chlorobi_C-1        | Chlorobi_O-1      | Chlorobi_F-1    | Chlorobi_G-1  | Chlorobi_G-1  |
| ASV696  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 |
| ASV1369 | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 |
| ASV269  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 |
| ASV86   | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 |
| ASV810  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 |
| ASV1756 | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-1 | Clostridiales_F-2, G-1 |
| ASV390  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-2 | Clostridiales_F-2, G-2 |
| ASV1252 | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-3 | Clostridiales_F-2, G-3 |
| ASV1702 | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-2 | Clostridiales_F-2, G-3 | Clostridiales_F-2, G-3 |
| ASV1634 | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales    | Clostridiales  | Clostridiales  |
| ASV404  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-1 | Clostridiales_F-1, G-5 | Clostridiales_F-1, G-5 |
| ASV660  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-1 | Clostridiales_F-1, G-6 | Clostridiales_F-1, G-6 |
| ASV879  | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-1 | Clostridiales_F-1, G-6 | Clostridiales_F-1, G-6 |
| ASV82   | Bacteria  | Firmicutes     | Clostridia          | Clostridiales     | Clostridiales_F-1 | Clostridiales_F-1, G-2 | Clostridiales_F-1, G-2 |
| ASV1019 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV329  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1162 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV304  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV677  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1340 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV469  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1445 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV736  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1463 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1545 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1058 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1076 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1468 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV1697 | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV50   | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV439  | Bacteria | Firmicutes | Clostridia | Clostridiales | Clostridiales_F-1 | Clostridiales_F-1,G-1 | Clostridiales_F-1,G-2 |
| ASV  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcaceae | Peptostreptococcaceae | Peptostreptococcaceae |
|------|----------|------------|------------|---------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 130  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 365  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 440  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 630  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 733  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 181  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 254  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 393  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 315  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 1426 | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 1672 | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 494  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 961  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-3                | XI_G-3                | GI-3                  | GI-3                  |
| 186  | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-5                | XI_G-5                | GI-5                  | GI-5                  |
| 1255 | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-5                | XI_G-5                | GI-5                  | GI-5                  |
| 24   | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-5                | XI_G-5                | GI-5                  | GI-5                  |
| 80   | Bacteria | Firmicutes | Clostridia | Clostridiales | XI_G-5                | XI_G-5                | GI-5                  | GI-5                  |
| Sample  | Kingdom | Phylum  | Class    | Order      | Family          | Genus       | Species                        |
|---------|---------|---------|----------|------------|-----------------|-------------|--------------------------------|
| ASV555  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-5 | Peptostreptococcaceae_XI_G-5 |
| ASV1413 | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV32   | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV168  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV284  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV914  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV15   | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV618  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-4 | Peptostreptococcaceae_XI_G-4 |
| ASV138  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Parvimonas   | Parvimonas_sp._COT_03_5        |
| ASV179  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Parvimonas   | Parvimonas                     |
| ASV113  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Parvimonas   | Parvimonas_sp._COT_10_1        |
| ASV405  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptoniphilaceae           | Parvimonas   | Parvimonas                     |
| ASV608  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptoniphilaceae           | Parvimonas   | Parvimonas                     |
| ASV881  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Parvimonas   | Parvimonas                     |
| ASV249  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Peptostreptococcaceae_XIII_G-1 | Peptostreptococcaceae_XIII_G-1 |
| ASV72   | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Peptostreptococcaceae_XIII_G-1 | Peptostreptococcaceae_XIII_G-1 |
| ASV1561 | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Peptostreptococcaceae_XIII_G-1 | Peptostreptococcaceae_XIII_G-1 |
| ASV747  | Bacteria| Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XIII | Peptoniphilus | Peptoniphilus                  |
| ASV   | Bacteria | Phylum      | Class       | Order       | Family            | Genus         | Species                  |
|-------|----------|-------------|-------------|-------------|-------------------|---------------|--------------------------|
| ASV139|          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Peptoniphilaceae_ [G-1] | Peptoniphilaceae_[G-1] |
| ASV1133|          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Peptoniphilaceae_ [G-1] | Peptoniphilaceae_[G-1] |
| ASV627 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Peptoniphilaceae_ [G-2] | Peptoniphilaceae_[G-2] |
| ASV350 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV359 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV258 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV1016|          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV828 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV122 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV1057|          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tissierella  |
|        |          |             |             |             |                   |               | Tissierella_sp._COT_029 |
| ASV1458|          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Tepidimicrobium |
|        |          |             |             |             |                   |               | Tepidimicrobium |
| ASV814 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Murdochiella |
|        |          |             |             |             |                   |               | Murdochiella |
| ASV1097|          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Murdochiella |
|        |          |             |             |             |                   |               | Murdochiella |
| ASV146 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Helcococcus  |
|        |          |             |             |             |                   |               | Helcococcus_sp._COT_1 |
|        |          |             |             |             |                   |               | 40 |
| ASV131 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Helcococcus  |
|        |          |             |             |             |                   |               | Helcococcus |
| ASV782 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Helcococcus  |
|        |          |             |             |             |                   |               | Helcococcus |
| ASV442 |          | Bacteria    | Firmicutes  | Clostridia  | Peptostreptococcaceae | Clostridiales      | Peptoniphilaceae |
|        |          |             |             |             |                   |               | XI_G-11 |
|        |          |             |             |             |                   |               | Peptoniphilaceae_X |
|        |          |             |             |             |                   |               | I_G-11 |
| Sample ID | Domain   | Phylum     | Class      | Order       | Family        | Genus             | Species     |
|-----------|----------|------------|------------|-------------|---------------|-------------------|-------------|
| ASV1144   | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-11 |
| ASV1315   | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-1 [I][G-1] |
| ASV1470   | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV974    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV1301   | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV610    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV916    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV1434   | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV1379   | Bacteria | Firmicutes | Clostridia | Clostridiales| Clostridiales | Clostridiales | Clostridiales |
| ASV1502   | Bacteria | Firmicutes | Clostridia | Clostridiales| Clostridiales | Clostridiales | Clostridiales |
| ASV1234   | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV104    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV213    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV451    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV709    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV140    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV471    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| ASV998    | Bacteria | Firmicutes | Clostridia | Clostridiales| Peptostreptococcaceae | Peptostreptococca | Peptostreptococcaceae XI G-6 |
| Sample ID | Phylum    | Class       | Order       | Family            | Genus               | Species | OTU |
|-----------|-----------|-------------|-------------|-------------------|---------------------|---------|-----|
| ASV1206   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV210    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV689    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV121    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV364    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV485    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV540    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-10    |     |
| ASV1424   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1459   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1683   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV321    | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1429   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1081   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1167   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1663   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-8     |     |
| ASV1442   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-6     |     |
| ASV1478   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-6     |     |
| ASV1131   | Bacteria  | Firmicutes  | Clostridia  | Peptostreptococcaceae[XI] | Peptostreptococcaceae[XI] | G-9     |     |
| ASV | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Peptostreptococcaceae_xI_G-9 | Peptostreptococcaceae_X I_G-9 |
|-----|----------|------------|------------|---------------|--------------------------|-------------------------------|-------------------------------|
| ASV982 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Peptostreptococcaceae_xI_G-9 | Peptostreptococcaceae_X I_G-9 |
| ASV669 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Peptostreptococcaceae_xI_G-9 | Peptostreptococcaceae_X I_G-9 |
| ASV837 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Peptostreptococcaceae_xI_G-9 | Peptostreptococcaceae_X I_G-9 |
| ASV1028 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Peptostreptococcaceae_xI_G-9 | Peptostreptococcaceae_X I_G-9 |
| ASV62 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella |
| ASV283 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella_sp._COT_0 07 |
| ASV716 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella |
| ASV250 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella_sp._COT_0 32 |
| ASV87 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella_sp._COT_0 32 |
| ASV1083 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella |
| ASV1238 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Proteocatella | Proteocatella_sp._COT_0 58 |
| ASV1710 | Bacteria | Firmicutes | Clostridia | Clostridiales | Lachnospiraceae_[XI V] | Lachnospiraceae_[G-8] | Lachnospiraceae_[G-8] |
| ASV1105 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae _XI | Clostridium_XI | Clostridium_XI |
| ASV1319 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Clostridium_XI | Clostridium_XI |
| ASV1499 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptoccus | Peptostreptoccus |
| ASV401 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptoccus | Peptostreptoccus |
| ASV850 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptoccus | Peptostreptoccus |
| ASV  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
|------|----------|------------|------------|---------------|----------------------|-------------------------------|
| 197  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 1200 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 107  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 234  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 1186 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 68   | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 177  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 43   | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 1048 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 246  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 149  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 1297 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 728  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 185  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 1182 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 1305 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| 476  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae | Peptostreptococcus_anaerobius |
| ASV995 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
|--------|----------|------------|------------|---------------|--------------------------|-----------------------------|-----------------------------|
| ASV648 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV35  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV878 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV1024| Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV1595| Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV1135| Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV887 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV31  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV926 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV1038| Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV48  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV603 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV142 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV854 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV904 | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV1146| Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
| ASV164  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
|---------|----------|------------|------------|---------------|--------------------------|----------------------------|----------------------------|
| ASV836  | Bacteria | Firmicutes | Clostridia | Clostridiales | Peptostreptococcaceae_XI | Peptostreptococcaceae_XI_G-1 | Peptostreptococcaceae_XI_G-1 |
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