**Table S5: Distribution of unclassified OTUs between V1-V3 and V3-V4 target region.**

|  |  |  |
| --- | --- | --- |
| **Taxonomic assignment** | **V1-V3 OTU count** | **V3-V4 OTU count** |
| UnclassifiedBacteria  | UnclassifiedBacteria | 69 | 47 |
| *Acidobacteria* | Unclassified *Acidobacteria\_Gp3*  | 0 | 1 |
| *Actinobacteria* | Unclassified *Actinobacteria*  | 1 | 4 |
|  | Unclassified *"Acidimicrobineae"*  | 1 | 4 |
|  | Unclassified *Acidimicrobiaceae*  | 1 | 0 |
|  | Unclassified *Actinobacteridae*  | 0 | 1 |
|  | Unclassified *Actinomycetales*  | 11 | 9 |
|  | Unclassified *Micrococcineae*  | 0 | 3 |
|  | Unclassified *Microbacteriaceae*  | 0 | 4 |
| *Armatimonadetes* | Unclassified *"Armatimonadetes"*  | 1 | 1 |
| *Bacteroidetes* | Unclassified *"Bacteroidetes"*  | 3 | 42 |
|  | Unclassified *Cytophagales*  | 0 | 7 |
|  | Unclassified *Cytophagaceae*  | 1 | 1 |
|  | Unclassified *"Flavobacteriales"*  | 0 | 1 |
|  | Unclassified *Cryomorphaceae*  | 3 | 7 |
|  | Unclassified *Flavobacteriaceae*  | 0 | 1 |
|  | Unclassified *"Sphingobacteriales"*  | 0 | 5 |
|  | Unclassified *"Saprospiraceae"*  | 0 | 2 |
|  | Unclassified *Chitinophagaceae*  | 0 | 14 |
|  | Unclassified *Sphingobacteriaceae*  | 0 | 1 |
| *Chlamydiae* | Unclassified *Parachlamydiaceae*  | 0 | 1 |
| *Chloroflexi* | Unclassified *Anaerolineaceae*  | 0 | 1 |
|  | Unclassified *Caldilineaceae*  | 0 | 1 |
| *Firmicutes* | Unclassified *Firmicutes* | 1 | 1 |
| *Planctomycetes* | Unclassified *"Planctomycetes"*  | 3 | 0 |
|  | Unclassified *Phycisphaerae*  | 1 | 0 |
| **Taxonomic assignment** | **V1-V3 OTU count** | **V3-V4 OTU count** |
| *Planctomycetes* | Unclassified *Planctomycetaceae*  | 0 | 16 |
| *Proteobacteria* | Unclassified *"Proteobacteria"*  | 15 | 12 |
| *Proteobacteria-α* | Unclassified *Alphaproteobacteria*  | 25 | 18 |
|  | Unclassified *Caulobacteraceae*  | 3 | 4 |
|  | Unclassified *Rhizobiales*  | 8 | 7 |
|  | Unclassified *Beijerinckiaceae*  | 3 | 0 |
|  | Unclassified *Bradyrhizobiaceae*  | 1 | 1 |
|  | Unclassified *Rhodobacteraceae*  | 5 | 3 |
|  | Unclassified *Rhodospirillales*  | 1 | 2 |
|  | Unclassified *Acetobacteraceae*  | 11 | 6 |
|  | Unclassified *Rhodospirillaceae*  | 1 | 0 |
|  | Unclassified *Rickettsiaceae*  | 1 | 0 |
|  | Unclassified *Sphingomonadales*  | 0 | 1 |
|  | Unclassified *Sphingomonadaceae*  | 4 | 1 |
| *Proteobacteria-β* | Unclassified *Betaproteobacteria*  | 2 | 17 |
|  | Unclassified *Burkholderiales*  | 2 | 5 |
|  | Unclassified *Alcaligenaceae*  | 0 | 1 |
|  | Unclassified *Comamonadaceae*  | 0 | 4 |
|  | Unclassified *Oxalobacteraceae*  | 1 | 1 |
|  | Unclassified *Methylophilaceae*  | 0 | 1 |
|  | Unclassified *Neisseriaceae*  | 0 | 2 |
|  | Unclassified *Rhodocyclaceae*  | 0 | 3 |
| *Proteobacteria-δ* | Unclassified *Deltaproteobacteria*  | 2 | 7 |
| *Proteobacteria-γ* | Unclassified *Bacteriovoracaceae*  | 0 | 1 |
|  | Unclassified *Myxococcales*  | 0 | 3 |

|  |  |  |
| --- | --- | --- |
| **Taxonomic assignment** | **V1-V3 OTU count** | **V3-V4 OTU count** |
| *Proteobacteria-γ* | Unclassified *Gammaproteobacteria*  | 0 | 9 |
|  | Unclassified *Enterobacteriaceae*  | 0 | 1 |
|  | Unclassified *Alteromonadaceae*  | 0 | 1 |
|  | Unclassified *Chromatiales*  | 0 | 1 |
|  | Unclassified *Moraxellaceae*  | 0 | 3 |
|  | Unclassified *Sinobacteraceae*  | 1 | 1 |
|  | Unclassified *Xanthomonadaceae*  | 0 | 1 |
| *Spirochaetes* | Unclassified *Leptospiraceae*  | 1 | 0 |
| *Verrucomicrobia* | Unclassified *"Verrucomicrobia"*  | 1 | 2 |
|  | Unclassified *Opitutae*  | 0 | 2 |
|  | Unclassified *Spartobacteria*  | 1 | 4 |
|  | Unclassified *Verrucomicrobiaceae*  | 0 | 8 |
| Total Unclassified OTU |  | 185 | 308 |
| Total OUT detected |  | 255 | 502 |
| Percent of Unclassified OTU |  | 72.55% | 61.35% |