**Supplementary Table S2:** Summary table showing prokaryotic biomarker species in both fractions (bulk soil and rhizosphere soil of *R. glacialis*) detected by LEfSe at LDA score > 3.5. Taxonomic classification is given in parenthesis. Species are sorted by descending LDA score.

|  |  |
| --- | --- |
| FRACTION | Biomarker species |
| Bulk | *Nitrososphaera* spp. (Nitrososphaeraceae - Thaumarchaeota) |
| Bacteria unclassified (>5x) |
| Solirubrobacterales unclassified (Actinobacteria) |
| Rhizosphere | *Rhizobium* sp. (Rhizobiaceae - Alphaproteobacteria) |
| *Caulobacter* sp. (Caulobacteraceae - Alphaproteobacteria) |
| *Sphingomonas* sp. (Sphingomonadaceae - Alphaproteobacteria) |
| *Nakamurella* sp. (Nakamurellaceae - Actinobacteria) |
| *Rhizobacter* sp. (Pseudomonadaceae - Gammaproteobacteria) |
| Comamonadaceae unclassified (Comamonadaceae - Betaproteobacteria) |
| *Microbacterium* sp. (Microbacteriaceae - Actinobacteria) |
| *Kaistia* sp. (Rhizobiaceae - Alphaproteobacteria) |
| *Bosea* sp. (Rhizobiaceae - Alphaproteobacteria) |
| *Duganella* sp. (Oxalobacteraceae - Betaproteobacteria) |
| *Pedobacter* sp. (Sphingobacteriaceae - Bacteroidetes) |
| Methylophilales unclassified (Betaproteobacteria) |
| *Aminobacter* sp. (Phyllobacteriaceae - Alphaproteobacteria) |
| *Flavobacterium* sp. (Flavobacteriaceae - Bacteroidetes) |
| *Dokdonella* sp. (Rhodanobacteraceae - Xanthomonadales - Gammaproteobacteria) |