

Species *Candidatus* *Methylumidiphilus alinenensis*

Etymology

[a.li.ne.nen'sis.] N. L. masc. adj. *alinenensis*, pertaining to Lake AlinenMustajärvi, Finland

Nomenclatural type

[NCBI Assembly: GCA_003242955.1](#)^{TS}

Description

Among 66 MAGs classified as *Ca.* *Methylumidiphilus* (with completeness over 40% and contamination less than 5%) originating from lakes in Finland, Sweden and Switzerland as well as from ponds in Canada, we could find 5 MAGs each containing one 1532 bp long sequence spanning the V1-V9 regions of the 16S rRNA gene. After removal of sequence redundancy, this resulted in two unique 16S rRNA gene sequences. These sequences represented two different putative species, i.e. *Ca.* *Methylumidiphilus alinenensis* (Genbank accession: [OK236221](#)) as well as another so far unnamed species of *Ca.* *Methylumidiphilus* (Genbank accession: [OK236220](#)). We suggest that including these two sequences in reference databases will enhance 16S rRNA gene - based detection of members of this genus from environmental samples.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Methylococcales* » *Methylococcaceae* » *Candidatus* *Methylumidiphilus* » *Candidatus* *Methylumidiphilus alinenensis*

References

Effective publication: Oren et al., 2020 [1]

Registry URL

<https://seqco.de/i:756>

References

1. Oren et al. (2020). Lists of names of prokaryotic *Candidatus* taxa. *International Journal of Systematic and Evolutionary Microbiology*. DOI:[10.1099/ijsem.0.003789](https://doi.org/10.1099/ijsem.0.003789)