

Species *Aquilimus modestus*

Etymology

[mo.des'tus] **L. masc. adj.** *modestus*, modest, referring to modest or low abundance in which the species is present in the environment

Nomenclatural type

[Genome sc|0004103](https://seqco.de/sc/0004103) ^{Is}

Description

Etymology. The name 'parvus' refers to the low abundance in which the species is present in the environment.

Brief description. The genome of *A. parvus* MZLE-22 (ENA accession number GCA_965268675) is relatively compact, with a complete genome size of 1,446,912 base pairs (bp). This species exhibits a CG content of 45%, which is typical of Nanopelagicales order. It possesses one rRNA operon and 42 tRNA genes. It is encountered throughout the year in the Římov reservoir in very low abundances, as well as in Žlutice Reservoir, Czech Republic. It has an average nucleotide identity of ~78% with *A. klicavensis*, *A. zluticensis* and *A. communis*. Current GTDB classification (r220) is d__Bacteria;p__Actinomycetota;c__Actinomycetes;o__Nanopelagicales;f__Nanopelagicaceae;g__AAA044-D11;s__.

Classification

Bacteria » *Actinomycetota* » *Actinomycetes* » *Nanopelagicales* » *Nanopelagicaceae* » *Aquilimus* » *Aquilimus modestus*

References

Effective publication: Chiriak et al., 2025 [1]

Registry URL

<https://seqco.de/i:51024>

References

1. Chiriak et al. (2025). Ecological success in freshwater lakes: insights from novel cultivated lineages of the abundant Nanopelagicales order. *Microbiome*. DOI: [10.1186/s40168-025-02272-x](https://doi.org/10.1186/s40168-025-02272-x)