

Species *Benthobacter isfjordensis*^{Ts}

Etymology

[is.fjor.den'sis] **N.L. masc. adj.** *isfjordensis*, from or belonging to Isfjorden, Svalbard

Nomenclatural type

[NCBI Assembly: GCA_964014115.1](#)^{Ts}

Description

Based on KEGG metabolic annotation, *Benthobacter isfjordensis* shows basic carbon metabolism almost complete, no carbon fixation pathways, no flagella or pili, denitrification is incomplete (only import of extracellular nitrate, reduction of nitrate to nitrite, and reduction of nitrite to nitric oxide), and nitrilase present. The pathway for F420 biosynthesis is almost complete. Regarding functional annotation based on CAZy and DBCAN, the glycoside hydrolases present in this MAG are: GH3, GH1, GH13 (sub-families 9, 11, 16, 23, and 20), GH77, GH57, GH149, GH32, and GH133.

Classification

Bacteria » *Actinomycetota* » *Acidimicrobiia* » *Benthobacterales* » *Benthobacteraceae* » *Benthobacter* » *Benthobacter isfjordensis*^{Ts}

References

Effective publication: Silva-Solar et al., 2024 [1]

Registry URL

<https://seqco.de/i:33357>

References

1. Silva-Solar et al. (2024). Acidimicrobiia, the actinomycetota of coastal marine sediments: Abundance, taxonomy and genomic potential. *Systematic and Applied Microbiology*. [DOI:10.1016/j.syapm.2024.126555](https://doi.org/10.1016/j.syapm.2024.126555)