Species *Egaibacter danicus*Ts

Etymology
[da'ni.cus] **L. masc. adj.** *danicus*, Danish

Nomenclatural type
NCBI Assembly: GCA_016707075.1 Ts

Description
Bacterium found in activated sludge.
Genome-wide gene annotation suggested the potential for full glycolysis, pentose phosphate pathway, citric acid cycle and glyoxylate pathway.
Glucose uptake of via the *gtsABC+malK* transporter was also predicted.
Can utilize branched chain amino acids (*livFGHKM*).
Predicted to convert acetate to acetyl-CoA via acetyl-CoA synthetase, *acs*.
Potential to reduce nitrate with *narGHI* along with the reduction of nitrate to nitric oxide with *nirS*.

Classification
Bacteria » *Pseudomonadota* » *Betaproteobacteria* » *Burkholderiales* » *Burkholderiaceae* » *Egaibacter* » *Egaibacter danicus*Ts

References
Effective publication: Petersen et al., 2025 [1]

Registry URL
https://seqco.de/i:44120

References

1. Petersen et al. (2025). Diversity and physiology of abundant Rhodoferax species in global wastewater treatment systems. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2024.126574