Species *Pampinifervens sinense*

Etymology

[si.nen'se] **N.L. neut. adj.** *sinense*, of China, referring to China where genomes belonging to this species were recovered from

Nomenclatural type

NCBI Assembly: GCA_037927135.1 [Ts]

Description

In addition to the genus description, this species encodes a partial denitrification pathway, with the potential to convert nitrate to nitrite, and nitrite to nitric oxide. Genomic G+C content of the species range from 44.06% to 45.27%. Genealogical concordance and ANI support the novelty of this species, and phylogenomics and AAI places this species in the genus *Pampinifervens* gen. nov. The nomenclatural type for the species is the genome ZZQ_201901_bin_7Ts, recovered from the acidic, high-temperature hot spring, Zhenzhuquan, in Tengchong County, China, and is available under the GenBank assembly accession number GCA_037927135.1. (BioProject: PRJNA1041563, BioSample: SAMN38287341).

Classification

Bacteria » *Aquificota* » *Aquificia* » *Aquificales* » *Aquificaceae* » *Pampinifervens* » *Pampinifervens sinense*

References

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

Registry URL

https://seqco.de/i:43943

References

1. Palmer et al. (2025). Nitrogen fixation in Pampinifervens, a new species-rich genus of Aquificaceae that inhabits a wide pH range in terrestrial hot springs. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2025.126644