

Nitrososphaera maunauluensis sp. nov.

Submitted by Roy, Shamik

Genus *Paraktedonobacter*

Etymology

[Pa.ra.kte.do.no.bac'ter] Gr. prep. *para*, alongside of, resembling; N.L. masc. n. *Ktedonobacter*, a bacterial genus name; N.L. masc. n. *Paraktedonobacter*, beside Ktedonobacter

Nomenclatural type

Species *Paraktedonobacter carboxidivorans*^{Ts}

Classification

Bacteria » *Chloroflexota* » *Ktedonobacteria* » *Ktedonobacterales* » *Ktedonobacteraceae* » *Paraktedonobacter*

References

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

Registry URL

<https://seqco.de/i:51017>

Species *Nitrososphaera maunauluensis*

Etymology

[ma.u.na.u.lu.en'sis] N.L. fem. adj. *maunauluensis*, referring to Mauna Ulu

Nomenclatural type

[NCBI Assembly: GCA_041156085.1](#)^{Ts}

Classification

Archaea » *Thermoproteota* » *Nitrososphaeria* » *Nitrososphaerales* » *Nitrososphaeraceae* » *Nitrososphaera* » *Nitrososphaera maunauluensis*

References

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

Registry URL

<https://seqco.de/i:44095>

Species *Paraktedonobacter carboxidivorans*^{Ts}

Etymology

[car.bo.xi.di.vo'rans] N.L. neut. n. *carboxidum*, carbon monoxide; L. part. adj. *vorans*, devouring; N.L. masc. part. adj. *carboxidivorans*, carbon monoxide-devouring

Nomenclatural type

[NCBI Assembly: GCA_041156125.1](#)^{Ts}

Description

This MAG was retrieved from Llaima Volcano, Chile. The genome size is 6.36 Mb, and the G + C content is 53.43 mol%. MAG_1957-2.1 contains the form I *cox* gene cluster, arranged in a *coxMSL* configuration, which is linked to the oxidation of carbon monoxide.

The type genome of the species has been deposited at NCBI under the accession number SRX9386060.

Classification

Bacteria » *Chloroflexota* » *Ktedonobacteria* » *Ktedonobacterales* » *Ktedonobacteraceae* » *Paraktedonobacter* » *Paraktedonobacter carboxidivorans*^{TS}

References

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

Registry URL

<https://seqco.de/i:44096>

References

1. Roy et al. (2025). Classification of MAGs associated with trace gas metabolism in volcanic soils named following SeqCode rules. *Systematic and Applied Microbiology*. DOI:10.1016/j.syapm.2025.126622

Register List Certificate of Validation

On behalf of the *Committee on the Systematics of Prokaryotes Described from Sequence Data* (SeqCode Committee), we hereby certify that the Register List seqco.de/r:89dif5uc submitted by **Roy, Shamik** and including 3 new names has been successfully validated.

Date of Priority: 2025-06-06 12:54 UTC
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