

# Pseudothioglobus gen. nov. and Pseudothioglobus singularis sp. nov.

Submitted by Chuvochina, Maria

## Genus *Pseudothioglobus*

### Etymology

[Pseu.do.thi.o.glo'bus] Gr. neut. adj. *pseudes*, false; Gr. neut. n. *theion*, sulfur; L. masc. n. *globus*, ball, sphere; N.L. masc. n. *Pseudothioglobus*, false sulfur-oxidizing sphere

### Nomenclatural type

Species *Pseudothioglobus singularis*<sup>Ts</sup>

### Description

The description is the same as given for the type species by (Marshall & Morris, 2013).

### Classification

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » “*Gammaproteobacteria\_incertain\_sedis*” » *Pseudothioglobaceae* » *Pseudothioglobus*

### References

Effective publication: van Vliet et al., 2021 [1]  
Assigned taxonomically: Marshall, Morris, 2013 [2]

### Registry URL

<https://seqco.de/i:31961>

## Species *Pseudothioglobus singularis*<sup>Ts</sup>

### Etymology

[sin.gu.la'ris] L. masc. adj. *singularis*, alone, singular

### Nomenclatural type

[NCBI Assembly: GCA\\_001281385.1](#)<sup>Ts</sup>

### Description

The description is the same as given originally by [Marshall, Morris, 2013](#) since [van Vliet et al. \(2021\)](#) proposed new genus name based on the same type species:

We propose the provisional taxonomic assignment ‘Candidatus: Thioglobus singularis’, alluding to the clade’s known role in sulfur oxidation and the isolate’s planktonic lifestyle. Thioglobus gen. nov. Thioglobus singularis sp. nov. Etymology. thios (Gr. noun): sulfur, globus (L. masc. noun): ball, sphere, globe. Singularis (L. adj.): alone, singular. The Genus name alludes to the clade’s ability to oxidize sulfur and to the sulfur globules found on the outside of the cells. The species name alludes to the fact that this is a free-living member of the clade, rather than a symbiont. Locality: surface waters in Puget Sound. Diagnosis: a small mesophilic sulfur oxidizer from the gamma proteobacteria.

### Classification

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » “*Gammaproteobacteria\_incertain\_sedis*” » *Pseudothioglobaceae* » *Pseudothioglobus* » *Pseudothioglobus singularis*<sup>Ts</sup>

### References

Effective publication: van Vliet et al., 2021 [1]  
Assigned taxonomically: Marshall, Morris, 2013 [2]

**Registry URL**<https://seqco.de/i:31963>**References**

1. van Vliet et al. (2021). The bacterial sulfur cycle in expanding dysoxic and euxinic marine waters. *Environmental Microbiology*. [DOI:10.1111/1462-2920.15265](https://doi.org/10.1111/1462-2920.15265)
2. Marshall, Morris (2013). Isolation of an aerobic sulfur oxidizer from the SUP05/Arctic96BD-19 clade. *The ISME Journal*. [DOI:10.1038/ismej.2012.78](https://doi.org/10.1038/ismej.2012.78)

**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/ra7urrcua](https://seqco.de/ra7urrcua) submitted by **Chuvochina, Maria** and including 2 new names has been successfully validated.

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