

Species *Candidatus Hydrogenosomobacter endosymbioticus*

Etymology

[en.do.sym.bi.o.ti'cus] Gr. **pref.** *endo-*, within; N.L. **adj.** *symbioticus*, from the Greek biōtikos, living together; N.L. **adj.** *endosymbioticus*, living symbiotically within [another organism]

Nomenclatural type

[INSDC Nucleotide: AP025225](#)^{Ts}

Description

It is a short rod, 1.2 to 1.5 μm long and 0.4 to 0.8 μm wide. It lives in the cytoplasm, neighboring hydrogenosomes, of an anaerobic scuticociliate strain, GW7. Cultivation without the host ciliate is not possible so far. The host ciliate is maintained in the laboratory of Naoya Shinzato, University of the Ryukyus, Japan. Probe GW7Bac2 (5'-CTCTGTTCCAGAGCCCTCGAT-3') is available for specific detection of this species by FISH. It is the type species of the genus.

Classification

Bacteria » *Pseudomonadota* » *Alphaproteobacteria* » *Holosporales* » "Holosporaceae" » *Candidatus Hydrogenosomobacter* » *Candidatus Hydrogenosomobacter endosymbioticus*

References

Effective publication: Takeshita et al., 2019 [1]

Registry URL

<https://seqco.de/i:23415>

References

1. Takeshita et al. (2019). Tripartite Symbiosis of an Anaerobic Scuticociliate with Two Hydrogenosome-Associated Endosymbionts, a Holospora -Related Alphaproteobacterium and a Methanogenic Archaeon. *Applied and Environmental Microbiology*. [DOI:10.1128/aem.00854-19](https://doi.org/10.1128/aem.00854-19)