

Species *Xiheicaenibacterium phototrophicum*^{Ts}

Etymology

[pho.to'tro.phi.cum] **Gr. n.** *phos*, photos light; **Gr. adj.** *trophikos*, nursing, tending or feeding; **N.L. neut. adj.** *phototrophicum*, referring to the likely ability to use light for energy generation

Nomenclatural type

[NCBI Assembly: GCA_016794345.1](#)^{Ts}

Description

The nomenclatural type for the species is the genomic assembly LLY-WYZ-9_1 (GCA_016794345.1). Genome is predicted to 9.66 Mb in 321 scaffolds. The GC content is 69.69%. Genome has complete bacteriochlorophyll synthesis pathways, and encodes reaction center proteins and other key enzymes, suggesting potential phototrophic lifestyle. Genome for this species originated from activated sludge.

Classification

Bacteria » *Myxococcota* » *Polyangiia* » *Polyangiales* » *Polyangiaceae* » *Xiheicaenibacterium* » *Xiheicaenibacterium phototrophicum*^{Ts}

References

Effective publication: Li et al., 2023 [1]

Registry URL

<https://seqco.de/i:32851>

References

1. Li et al. (2023). Globally distributed Myxococcota with photosynthesis gene clusters illuminate the origin and evolution of a potentially chimeric lifestyle. *Nature Communications*. DOI:[10.1038/s41467-023-42193-7](https://doi.org/10.1038/s41467-023-42193-7)