Species *Kuafuiihalomonas phototrophica*[Ts]

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

Nomenclatural type
NCBI Assembly: GCA_031800475.1 [Ts]

Description
The nomenclatural type for the species is the genomic assembly LLY-WYZ-16_1 (GCA_031800475.1). Genome of LLY-WYZ-16_1 is predicted to 5.30 Mb in 386 scaffolds. The GC content is 66.71%. Genome has complete bacteriochlorophyll synthesis pathways, and encodes reaction center proteins and other key enzymes, suggesting potential phototrophic lifestyle. Genome also has PR and *blh*, suggesting potential capacity using both proton-pumping and bacteriochlorophyll-based photosystems. Genome for this species originated from salt lagoon.

Classification
Bacteria » *Myxococcota* » *Kuafuiibacteriia* » *Kuafuiibacteriales* » *Kuafuiibacteriaceae* » *Kuafuiihalomonas* » *Kuafuiihalomonas phototrophica*[Ts]

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

Registry URL
https://seqco.de/i:32841

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