

# Doriopsillibacter gen. nov. and Doriopsillibacter californiensis sp. nov.

Submitted by Dzunkova, Maria

## Genus *Doriopsillibacter*

### Etymology

[Do.ri.op.si.lli.bac'ter] N.L. fem. n. *Doriopsilla*, genus name of the host animal; N.L. masc. n. *bacter*, bacterium; N.L. masc. n. *Doriopsillibacter*, bacterium inhabiting *Doriopsilla* host

### Nomenclatural type

Species *Doriopsillibacter californiensis*<sup>Ts</sup>

### Description

*Doriopsillibacter* (indicating host name). Belonging to *Persebacteraceae*, *Tethybacterales*, *Gammaproteobacteria*. The whole genome-based phylogenies enabled the assignment of the *Doriopsillibacter* genus. Symbiont of nudibranch *Doriopsilla fulva* (*Dendrodorididae*, *Nudibranchia*) collected from a tide pool at Pillar Point, California, USA (37° 29' 41.427" N, 122° 29' 57.994" W), discovered by synthase-selected single-cell genomics. Mucus-producing goblet cells of *Doriopsilla fulva* appear to be the primary reservoir of *Doriopsillibacter*. Genome sequence available at NCBI with BioProject ID: PRJNA864331.

### Classification

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Tethybacterales* » *Persebacteraceae* » *Doriopsillibacter*

### References

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

### Registry URL

<https://seqco.de/i:31269>

## Species *Doriopsillibacter californiensis*<sup>Ts</sup>

### Etymology

[ca.li.for.ni.en'sis] N.L. masc. adj. *californiensis*, coming from California

### Nomenclatural type

[NCBI Assembly: GCA\\_030386295.1](#)<sup>Ts</sup>

### Description

*Doriopsillibacter californiensis* (indicating host name and collection location). Belonging to *Persebacteraceae*, *Tethybacterales*, *Gammaproteobacteria*. The whole genome-based phylogenies enabled the assignment of the *Doriopsillibacter* genus. Symbiont of nudibranch *Doriopsilla fulva* (*Dendrodorididae*, *Nudibranchia*) collected from a tide pool at Pillar Point, California, USA (37° 29' 41.427" N, 122° 29' 57.994" W), discovered by synthase-selected single-cell genomics. Mucus-producing goblet cells of *Doriopsilla fulva* appear to be the primary reservoir of *D. californiensis*. Genome sequence available at NCBI with BioProject ID: PRJNA864331.

### Classification

*Bacteria* » *Pseudomonadota* » *Gammaproteobacteria* » *Tethybacterales* » *Persebacteraceae* » *Doriopsillibacter* » *Doriopsillibacter californiensis*<sup>Ts</sup>

### References

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

**Registry URL**<https://seqco.de/i:31268>**References**

1. Džunková et al. (2023). Synthase-selected sorting approach identifies a beta-lactone synthase in a nudibranch symbiotic bacterium. *Microbiome*. DOI:[10.1186/s40168-023-01560-8](https://doi.org/10.1186/s40168-023-01560-8)

**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:td4s-yi2](https://seqco.de/r:td4s-yi2) submitted by Džunkova, Maria and including 2 new names has been successfully validated.

**Date of Priority:** 2024-04-22 09:53 UTC

**DOI:** 10.57973/seqcode.r:td4s-yi2

