

Sororendozoicomonas aggregata sp. nov.

Submitted by Maire, Justin

Genus *Sororendozoicomonas*

Etymology

[So.ror.en.do.zo.i.co.mo'nas] L. fem. n. *soror*, sister; L. fem. n. *Endozoicomonas*, a bacterial genus; L. fem. n. *Sororendozoicomonas*, Sister taxon of Endozoicomonas genus

Nomenclatural type

Species *Sororendozoicomonas aggregata*^{Ts}

Description

Sororendozoicomonas (So.ror.en.do.zo.i.co.mo'nas. L. fem. n. *soror*, sister; *Endozoicomonas*, taxonomic name of a bacterial genus; *Sororendozoicomonas* referring to the close relationship to the bacterial genus *Endozoicomonas*).

The genus *Sororendozoicomonas* represents a distinct lineage within the Endozoicomonadaceae family, sister to *Endozoicomonas*, supported by concatenated marker gene phylogenies as well as 16S rRNA gene phylogeny in the present study. *Sororendozoicomonas* show similar functional and metabolic potential to *Endozoicomonas* species. The new genus contains two strains isolated from *Pocillopora* corals (Pac-P3-11-1, from the present study, and Endozoicomonadaceae SCSIO12664) and potentially additional strains isolated from Red Sea *Stylophora pistillata* (only 16S rRNA gene sequences are available - KC669256.1, KC669230.1, KC669217.1, KC669131.1).

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Kangiellales* » *Endozoicomonadaceae* » *Sororendozoicomonas*

References

Proposed: Maire et al., 2024

Registry URL

<https://seqco.de/i:32314>

Species *Sororendozoicomonas aggregata*^{Ts}

Etymology

[ag.gre.ga'ta] L. part. adj. *aggregata*, joined together

Nomenclatural type

[NCBI Assembly: GCA_031528575.1](#)^{Ts}

Reference Strain

Pac_P3-11-1

Description

Sororendozoicomonas aggregata (ag.gre.ga'ta. L. fem. part. adj. *aggregata*, joined together, referring to the ability to form aggregates within coral tissues). The new species contains two strains isolated from *Pocillopora* corals (Pac-P3-11-1, from the present study, and Endozoicomonadaceae SCSIO12664).

Type strain: Pac_P3-11-1, isolated from tissues of the coral *Pocillopora acuta*, collected from Orpheus Island, Australia (18°36'16.26" S, 146°29'24.27" E). Taxonomic assignment based on concatenated marker gene phylogenies as well as 16S rRNA gene phylogeny. Grows on Marine Agar 2216 (Difco) between 23°C and 28°C, forming circular, white, raised, sticky colonies with entire margins.

Classification

Bacteria » *Pseudomonadota* » *Gammaproteobacteria* » *Kangiellales* » *Endozoicomonadaceae* »
Sororendozoicomonas » *Sororendozoicomonas aggregata*^{Ts}

References

Proposed: Maire et al., 2024

Registry URL

<https://seqco.de/i:32313>

References

1. Maire et al. (2024). Tissue-associated and vertically transmitted bacterial symbiont in the coral *Pocillopora acuta*. *The ISME Journal*. DOI:10.1093/ismejo/wrad027

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:oe5jqwk0 submitted by **Maire, Justin** and including 2 new names has been successfully validated.

Date of Priority: 2024-02-05 12:54 UTC

DOI: 10.57973/seqcode.r:oe5jqwk0

