

Acidiparvus gen. nov.

Submitted by Wong, Hon Lun

Genus *Acidiparvus*

Etymology

[A.ci.di.par'vus] N.L. neut. adj. *Acidum*, sour, acid; N.L. masc. adj. *parvus*, small, unimportant; N.L. masc. n. *Acidiparvus*, *Acidiparvus*, a genus in the acid-loving Acidobacteriota with small genome size

Nomenclatural type

Species *Acidiparvus lacustris*^{Ts}

Description

This is a novel genus describing a genome streamlined Acidobacteriota lineage having extremely small genome size and limited metabolic capacities, mainly found in freshwater environments.

Classification

Bacteria » *Acidobacteriota* » *Holophagae* » *Holophagales* » *Holophagaceae* » *Acidiparvus*

References

Effective publication: Wong et al., 2024 [1]

Registry URL

<https://seqco.de/i:33344>

Species *Acidiparvus fluvialis*

Etymology

[flu.vi.a'lis] N.L. masc. adj. *fluvialis*, of a river

Nomenclatural type

[NCBI Assembly: GCA_041263285.1](#)^{Ts}

Description

This is a novel genus *Acidiparvus*, a genome streamlined Acidobacteriota under the family Holophagaceae with extremely small genome size and limited metabolic capacity. This species (*A. fluvialis*) is exclusively found in rivers.

Classification

Bacteria » *Acidobacteriota* » *Holophagae* » *Holophagales* » *Holophagaceae* » *Acidiparvus* » *Acidiparvus fluvialis*

References

Effective publication: Wong et al., 2024 [1]

Registry URL

<https://seqco.de/i:33349>

Species *Acidiparvus lacustris*^{Ts}

Etymology

[la.cus'tris] N.L. masc. adj. *lacustris*, of a lake, resides in freshwater environments

Nomenclatural type

[NCBI Assembly: GCA_963970155.1](#)^{Ts}

Description

This is a novel genus of a genome streamlined Acidobacteriota, under the family *Holophagaceae*. They are the only genus under the family *Holophagaceae* to have extremely small genome size and limited metabolic capacity. *Acidoparvus lacustris* are exclusively found in freshwater lakes. We assembled two complete genomes from *Acidoparvus lacustris*, in which we will choose one as the type genome.

Classification

Bacteria » Acidobacteriota » Holophagae » Holophagales » Holophagaceae » Acidiparvus » Acidiparvus lacustris^{TS}

References

Effective publication: Wong et al., 2024 [1]

Registry URL

<https://seqco.de/i:33343>

References

1. Wong et al. (2024). Ubiquitous genome streamlined *Acidobacteriota* in freshwater environments. *ISME Communications*. [DOI:10.1093/ismeco/ycae124](https://doi.org/10.1093/ismeco/ycae124)

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:jwkiamk2 submitted by **Wong, Hon Lun** and including 3 new names has been successfully validated.

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