

## Species *Ryujinia shimokita*<sup>Ts</sup>

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### Etymology

[shi.mo.ki'ta] **N.L. fem. n.** *shimokita*, named after the sampling site, the international waters off the Shimokita Peninsula in Japan

### Nomenclatural type

[INSDC Nucleotide: BAAGKY000000000.1](#)<sup>Ts</sup>

### Description

This uncultured species is represented by the genome 'SP\_28H5\_5', whose genome size is 2.0 MB, with the presence of 23S, 16S and 5S rRNA genes. *R. shimokita* is inferred to have a chemolithotrophic lifestyle, since this species encodes a nearly complete Wood-Ljungdahl (WL) pathway. It also has the potential for a heterotrophic lifestyle with substrate-level phosphorylation through glycolysis, while it lacks most genes for the citrate cycle and beta-oxidation. The type genome does not encode the ability for the oxidoreduction of nitrogen or sulphur compounds.

### Classification

*Bacteria* » *Ryujiniota* » *Ryujiniia* » *Ryujiniales* » *Ryujiniaceae* » *Ryujinia* » *Ryujinia shimokita*<sup>Ts</sup>

### References

Effective publication: Sun et al., 2025 [1]  
Assigned taxonomically: Sun et al., 2025 [1]

### Registry URL

<https://seqco.de/i:49692>

## References

1. Sun et al. (2025). Metagenomic insights into taxonomic and functional patterns in shallow coastal and deep seafloor sediments in the Western Pacific. *Microbial Genomics*.  
[DOI:10.1099/mgen.0.001351](https://doi.org/10.1099/mgen.0.001351)