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Supplementary material

***Thiomicrohabdus immobilis* sp. nov., a mesophilic sulfur-oxidizing bacterium isolated from sediment of a brackish lake in northern Japan**

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Table S1. Cellular fatty acid profile of strain Am19^T grown on thiosulfate at 30°C. Summed features consist of fatty acids that could not be separated, as follows: Summed feature 1, iso-C_{15:0} H and/or C_{13:0} 3OH; summed feature 2, C_{12:0} aldehyde, unknown 10.928 , C_{14:0} 3-OH and/or iso-C_{16:1} I; summed feature 3, C_{16:1}ω7c and/or C_{16:1}ω6c; summed feature 8, C_{18:1}ω7c and/or C_{18:1}ω6c.

Fatty acid	%
C _{9:0}	0.06
C _{10:0}	0.79
C _{10:0} 3OH	0.36
C _{12:0}	0.24
C _{14:0}	0.57
C _{15:1} ω6c	0.18
C _{16:1} ω5c	0.26
C _{16:0}	13.74
C _{17:1} ω8c	0.65
C _{17:1} ω6c	1.25
C _{17:0}	1.02
C _{18:1} ω5c	0.52
C _{18:0}	1.04
C _{18:1} ω7c 11-methyl	0.09
C _{20:1} ω7c	0.13
Summed feature 1	0.05
Summed feature 2	0.21
Summed feature 3	45.97
Summed feature 8	32.86

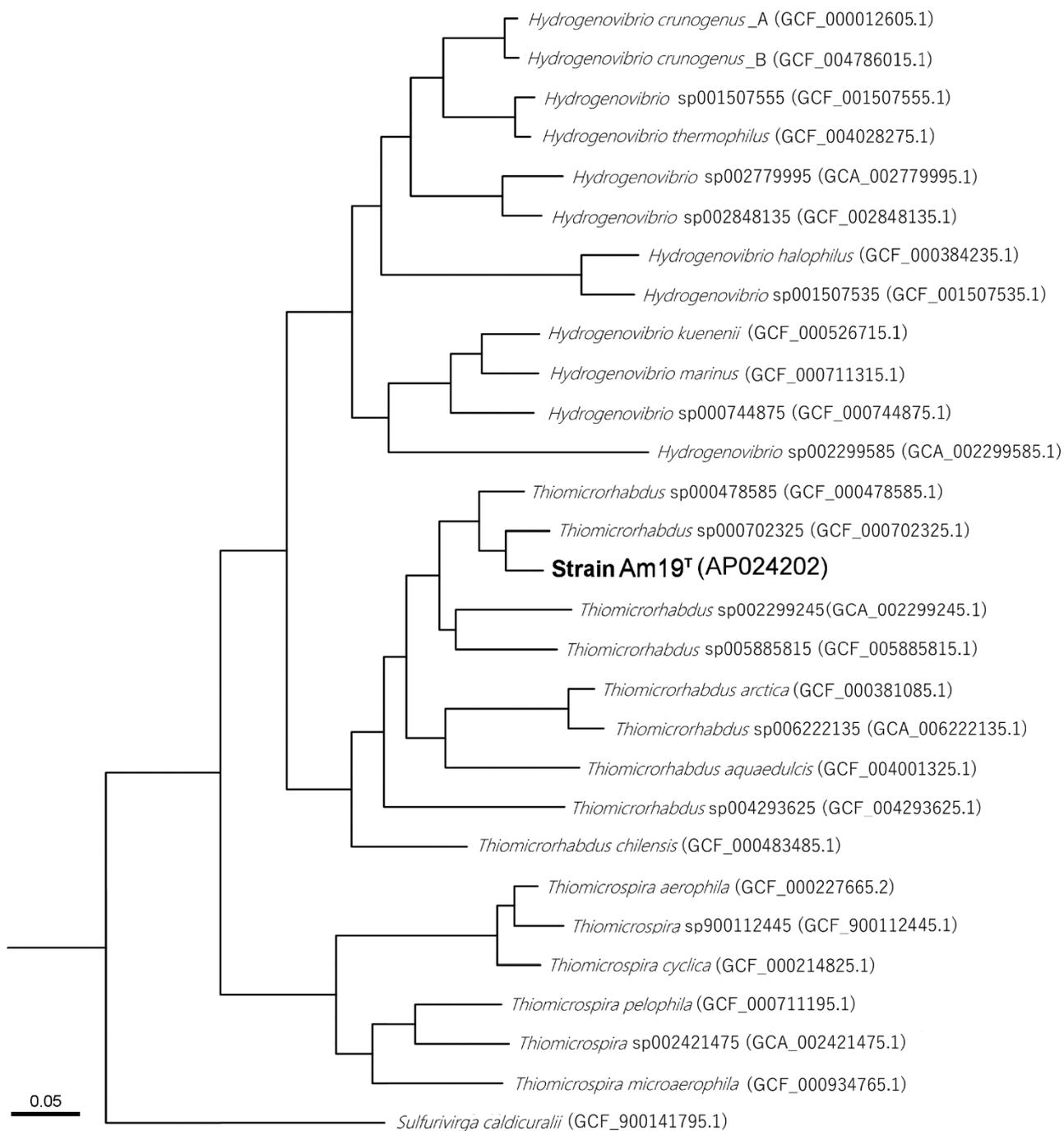


Fig. S1. Genome-based phylogenetic tree showing position of strain Am19^T in the GTDB taxonomy. The strain was placed in the bac120 tree of GTDB, by using the GTDB-tk.

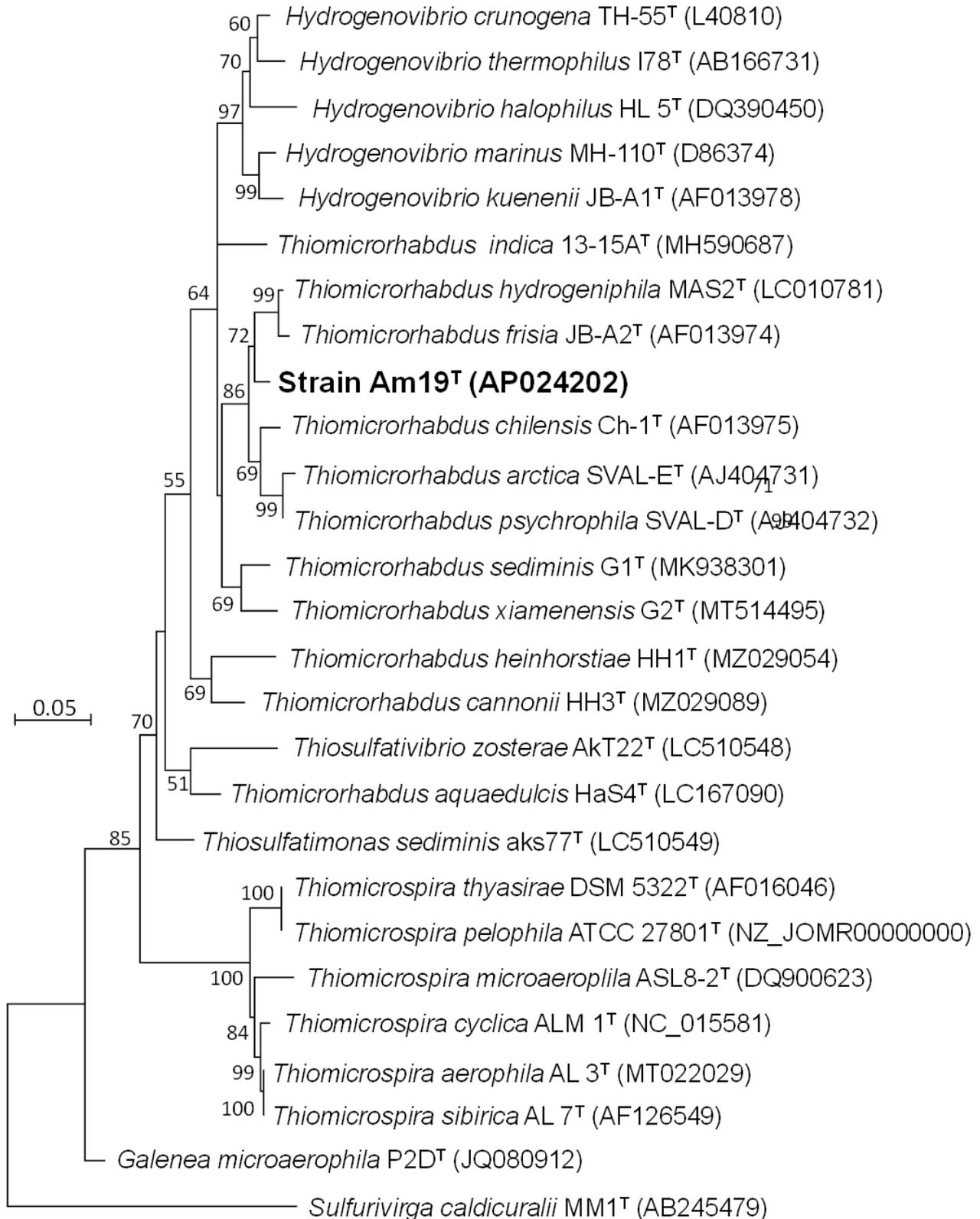


Fig S2. Full version of Fig. 1 showing names of all entries and bootstrap values greater than 50.