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Supplementary material

Thiomicrorhabdus 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-C16:1 I; summed feature 3, $C_{16:1}\omega7c$ and/or $C_{16:1}\omega6c$; summed feature 8, $C_{18:1}\omega7c$ and/or $C_{18:1}\omega6c$.

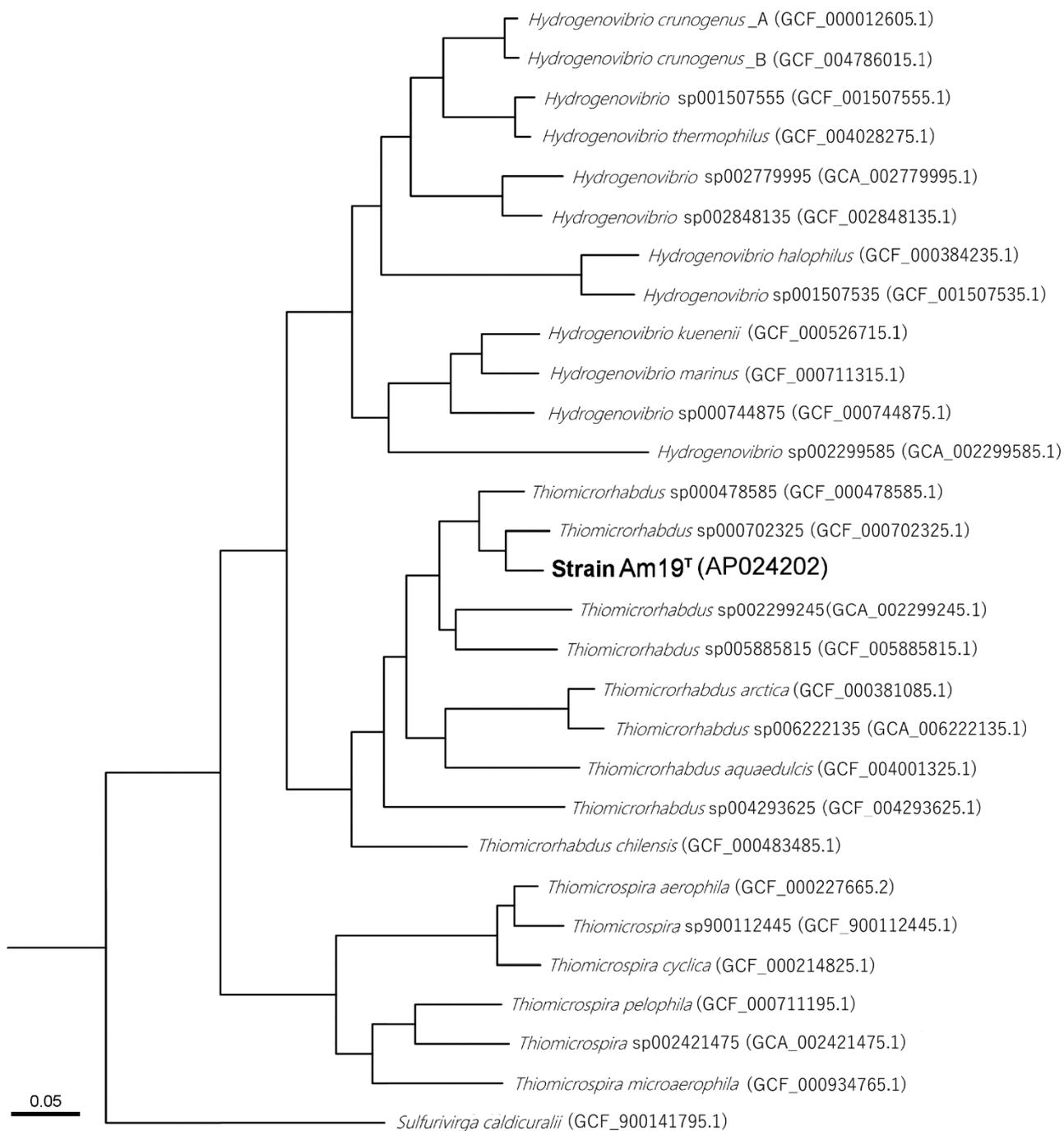| Fatty acid	%
$C_{9:0}$	0.06
$C_{10:0}$	0.79
$C_{10:0}$ 3OH	0.36
$C_{12:0}$	0.24
$C_{14:0}$	0.57
$C_{15:1}$ $\omega6c$	0.18
$C_{16:1}$ $\omega5c$	0.26
$C_{16:0}$	13.74
$C_{17:1}$ $\omega8c$	0.65
$C_{17:1}$ $\omega6c$	1.25
$C_{17:0}$	1.02
$C_{18:1}$ $\omega5c$	0.52
$C_{18:0}$	1.04
$C_{18:1}$ $\omega7c$ 11-methyl	0.09
$C_{20:1}$ $\omega7c$	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.
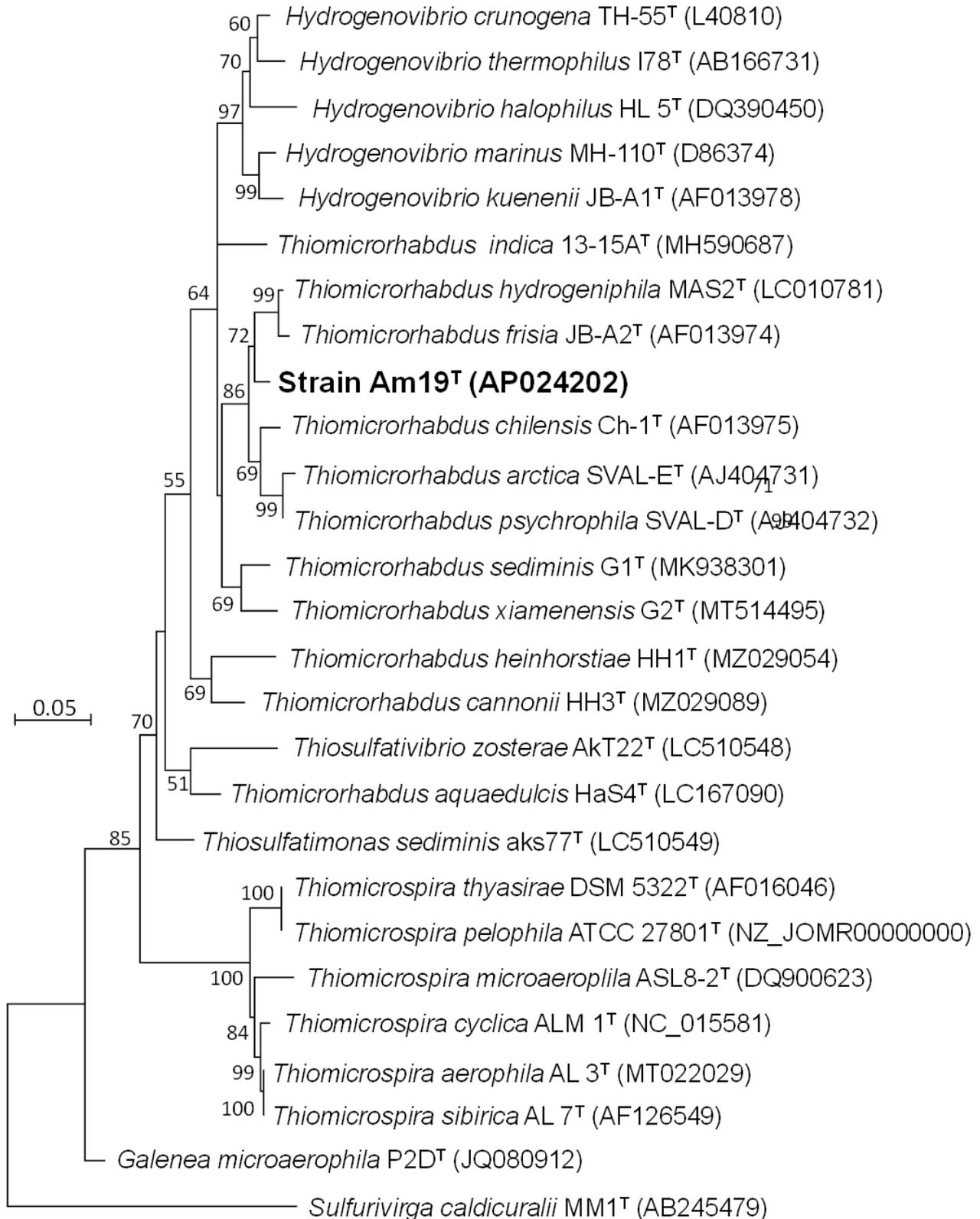
Fig S2. Full version of Fig. 1 showing names of all entries and bootstrap values greater than 50.