Supplementary Materials

Marivivens aquimaris sp. nov., isolated from seawater

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Jeong Ah Kim and Binna Lee equally contributed to this work.

The GenBank accession numbers of the 16S rRNA gene and genome sequence of strain GSB7^T are MW035312 and JADBGB000000000, respectively.

Electronic supplementary material The online version of this article contains supplementary material, which is available to authorized users.

Abbreviations

MA marine agar, MB marine broth, KCTC Korean Collection for Type Cultures, JCM Japan Collection of Microorganisms, NJ neighbor-joining, ML maximum-likelihood, MP maximum-parsimony, ANI Average nucleotide identity, dDDH digital DNA-DNA hybridization, UBCG up-to-date bacterial core gene set, NA nutrient agar, TSA tryptic soy agar

Fig. S1 Cell morphology of strain GSB7^T showed by transmission electron microscope

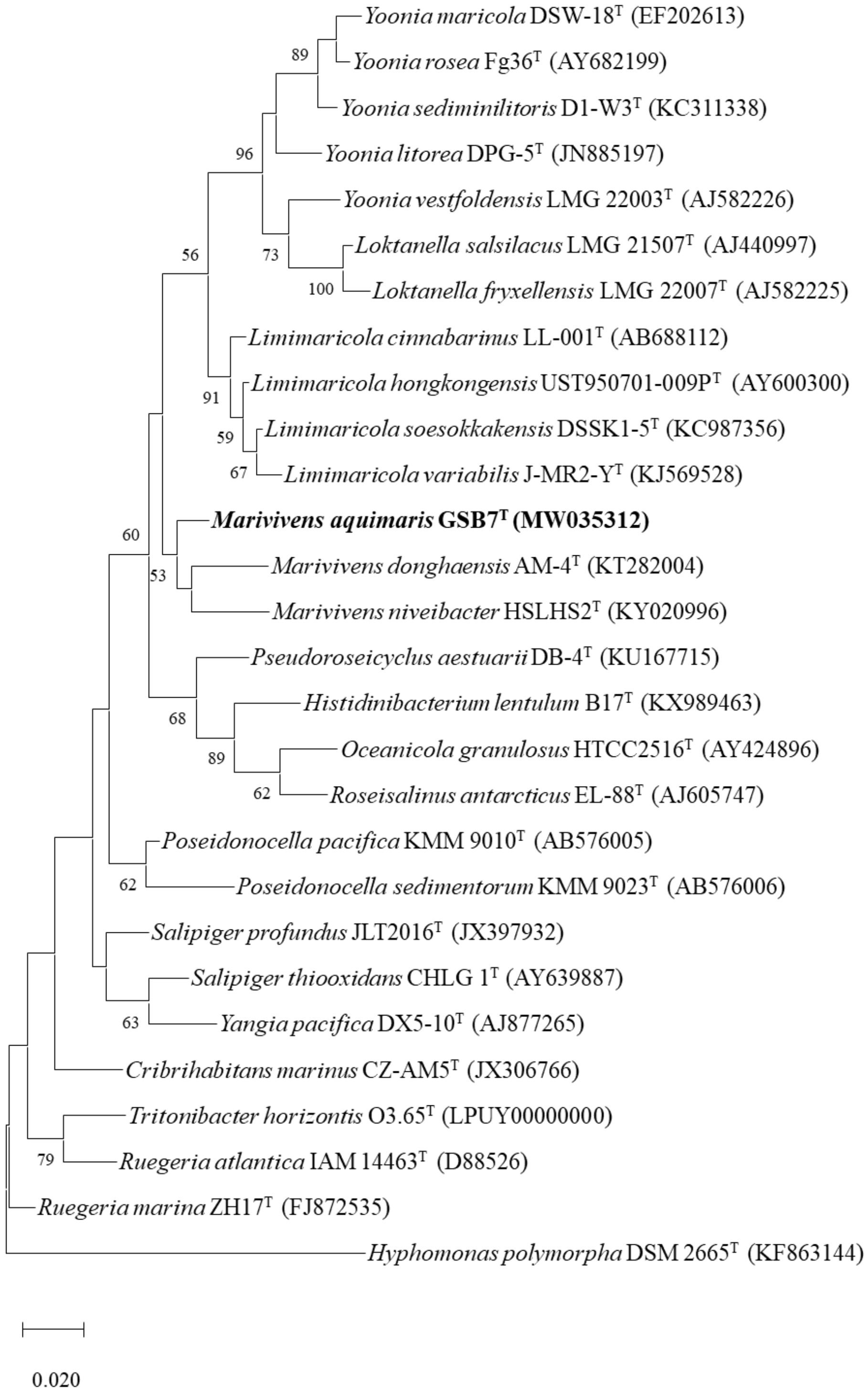

Fig. S2 Maximum likelihood phylogenetic tree showing the position of strain GSB7^T among related taxa based on 16S rRNA gene sequences. *Hyphomonas polymorpha* DSM 2665^T (KF863144) was used as the out-group. Bootstrap percentages are based on 1,000 replicates; only values greater than 50% are shown at the nodes. Bar, 0.02 substitutions per nucleotide position.

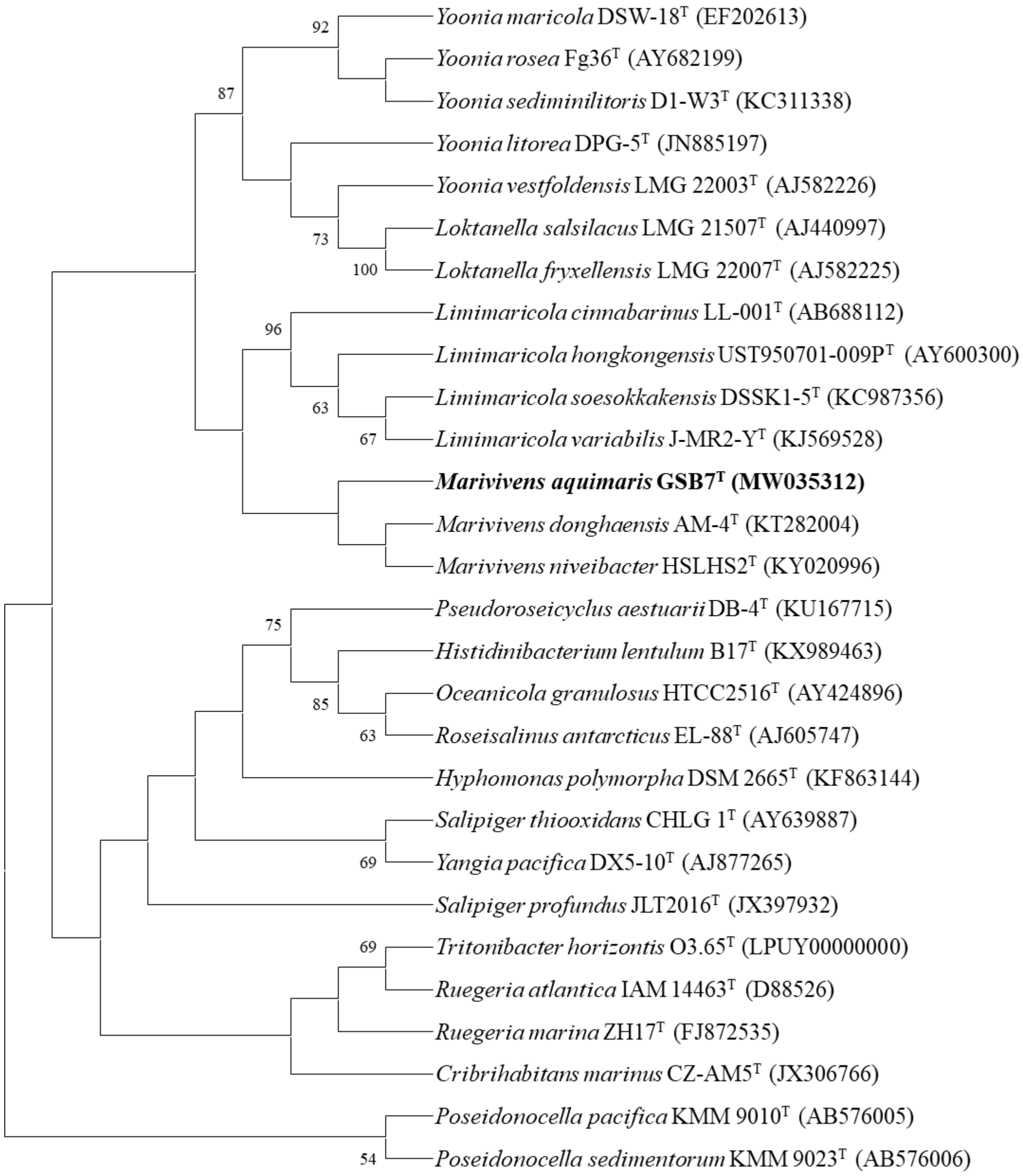

Fig. S3 Maximum parsimony phylogenetic tree showing the position of strain GSB7^T among related taxa based on 16S rRNA gene sequences. *Hyphomonas polymorpha* DSM 2665^T (KF863144) was used as the out-group. Bootstrap percentages are based on 1,000 replicates; only values greater than 50% are shown at the nodes.

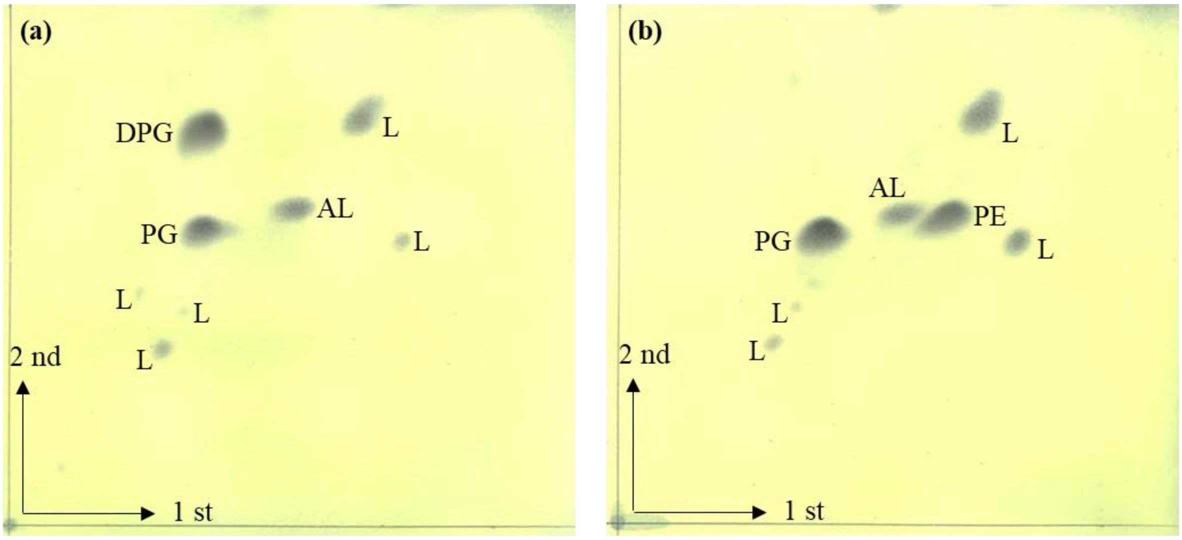

Fig. S4 Polar lipids of strain GSB7^T (a) and *M. donghaensis* KCTC 42776^T (b) detected by molybdophosphoric acid after separation by two-dimensional TLC. PG phosphatidylglycerol, DPG diphosphatidylglycerol, PE phosphatidylethanolamine, AL unidentified aminolipid, L unidentified lipid