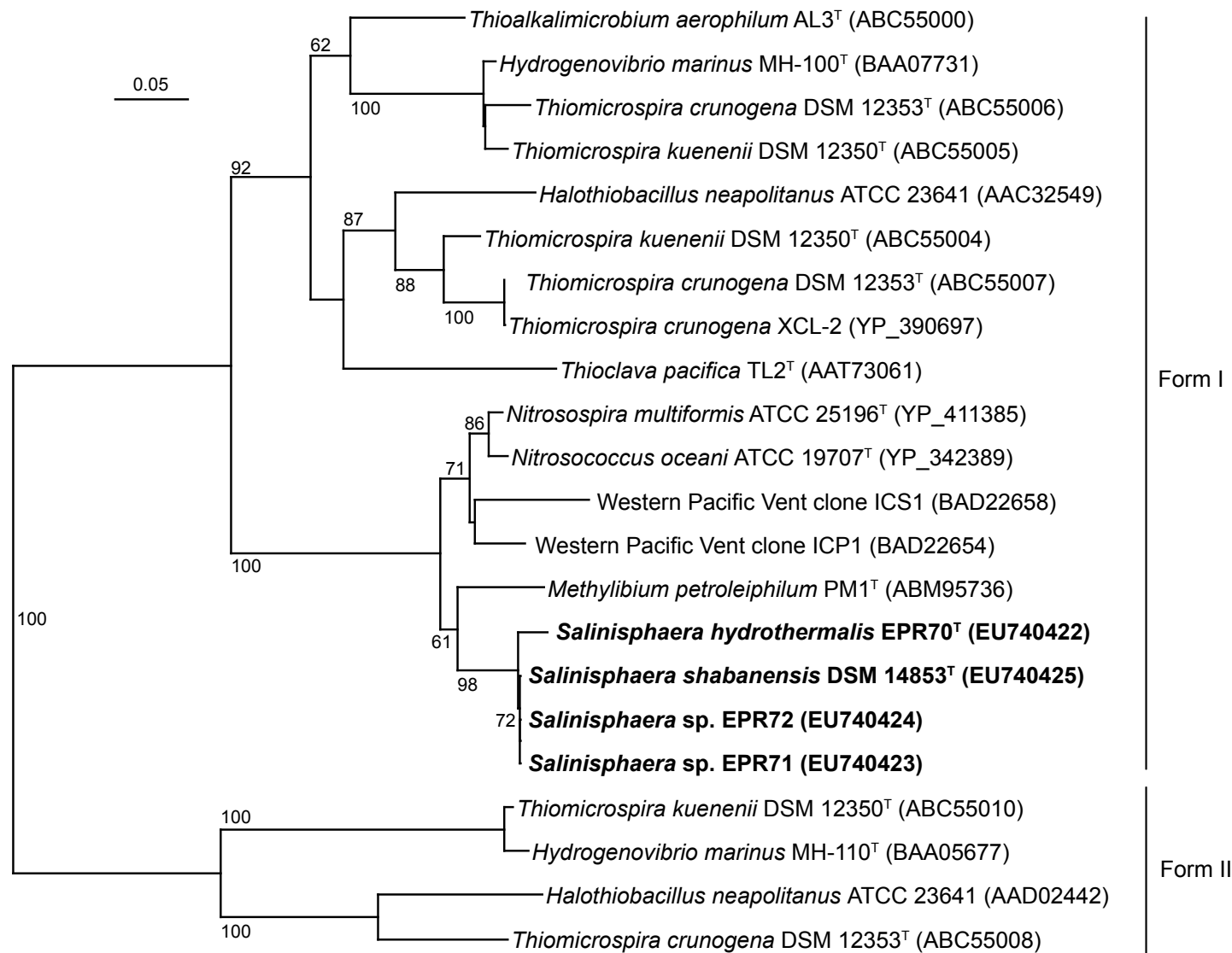
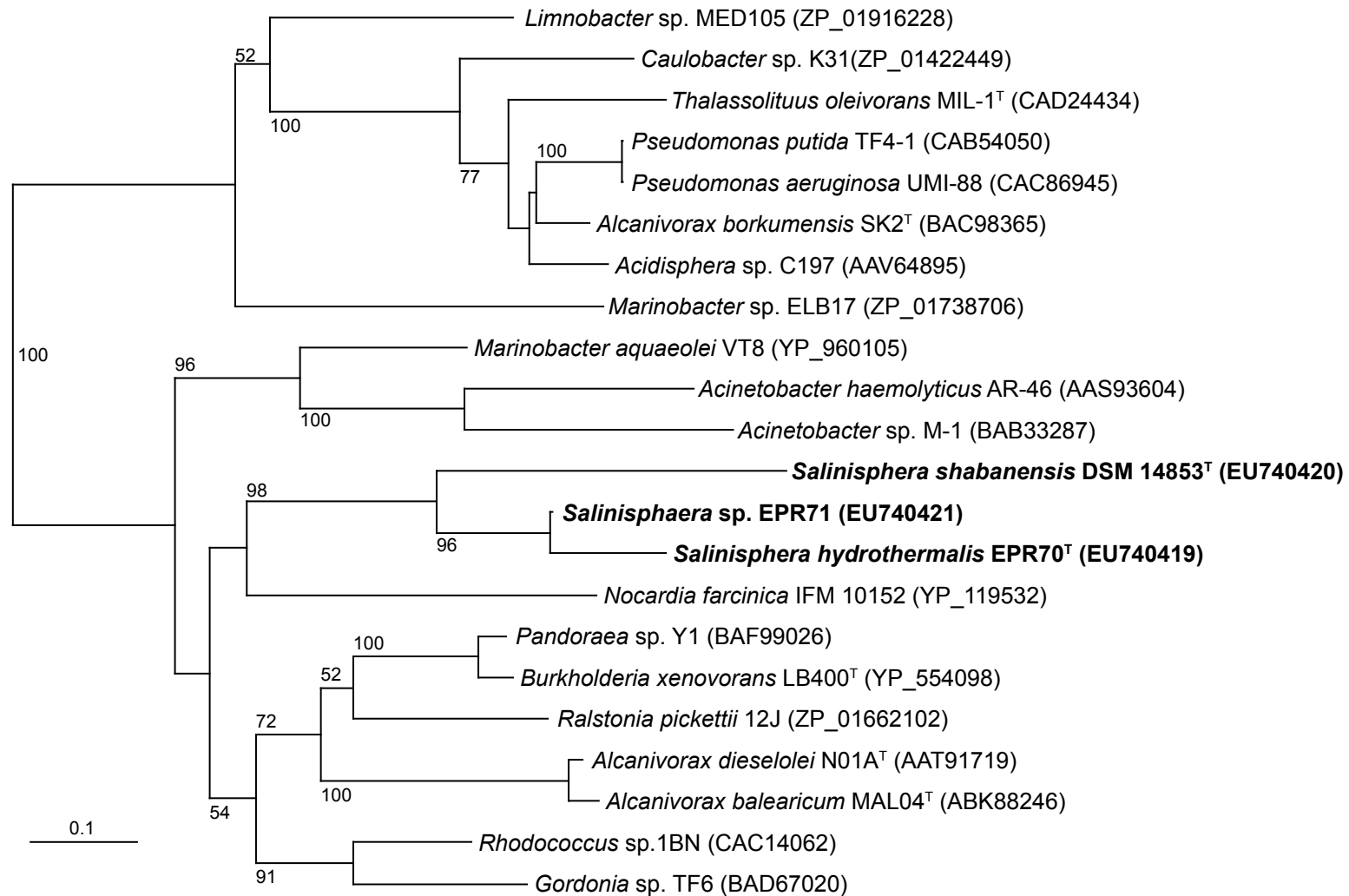


Supplementary Fig. S1. Generation time of *Salinisphaera hydrothermalis* sp. nov. EPR70^T under different growth conditions.



Supplementary Fig. S2. Phylogenetic analysis of the large subunit of the enzyme RubisCO form I from *Salinisphaera hydrothermalis* sp. nov. EPR70^T, *Salinisphaera* sp. strains EPR71 and EPR72 and *S. shabanensis* DSM 14853^T. The neighbour-joining tree was constructed using PHYLO_WIN. Bootstrap values higher than 50 % are indicated. Bar, 5 % estimated substitutions.



Supplementary Fig. S3. Phylogenetic analysis of alkane hydroxylase (AlkB) from *Salinisphaera hydrothermalis* sp. nov. EPR70^T, *Salinisphaera* sp. strain EPR71 and *S. shabanensis* DSM 14853. The neighbour-joining tree was constructed using PHYLO_WIN. Bootstrap values higher than 50% are indicated. Bar, 10% estimated substitutions.