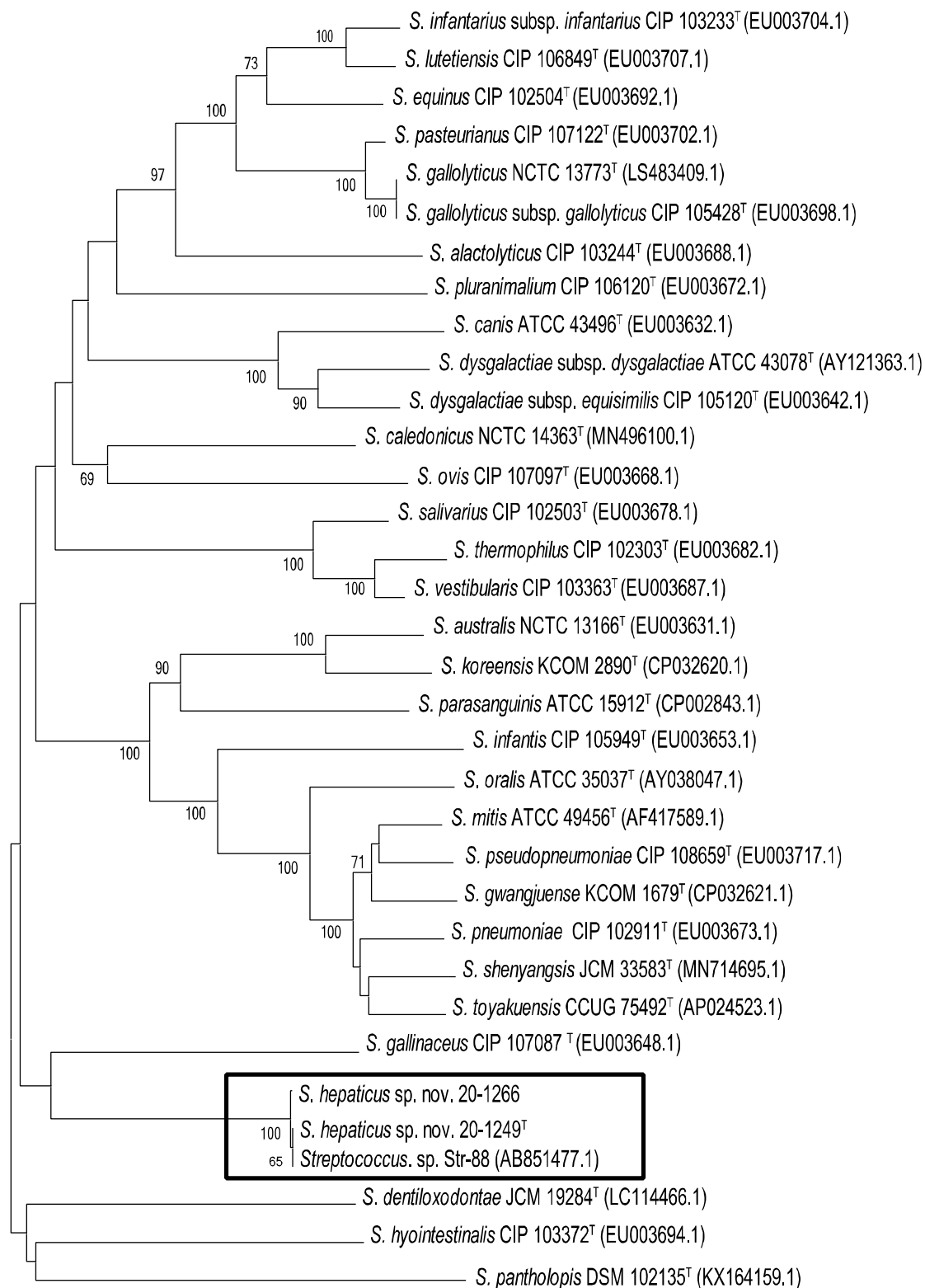


Figure 2.

Phylogenetic analysis of *groEL* carried out with MEGA x using the neighbour-joining approach with evolutionary distances computed using the Jukes-Cantor with a contig of 752bp. Analysis of the *S. hepaticus* sp. nov. *groEL* contig using BLASTn identified closely related sequences which were used to generate this tree. Sequences from type strains that had >80% sequence identity were included along with Str-88 (AB851477.1) and both *S. hepaticus* sp. nov. isolates (20-1249^T and 20-1266). Value at nodes correspond to proportions of 100 re-samplings that support the topology shown with only values >60% indicated. Bar, 0.02 substitutions per nucleotide position. Sequence accession numbers are shown in brackets.

Figure 2.



0.02

Figure 3.

Phylogenetic analysis of *sodA* carried out with MEGA X using the neighbour-joining approach with evolutionary distances computed using the Jukes-Cantor with a contig of 380bp. Analysis of the *S. hepaticus* sp. nov. *sodA* contig using BLASTn identified closely related sequences which were used to generate this tree. Sequences from type strains that had >75% sequence identity were included. The tree includes the *sodA* sequence of isolate Str88 (AB827271.1) and both *S. hepaticus* sp. nov. strains (20-1249^T and 20-1266). Value at nodes correspond to proportions of 100 re-samplings that support the topology shown with only values >60% indicated. Bar, 0.05 substitutions per nucleotide position.

Figure 3.

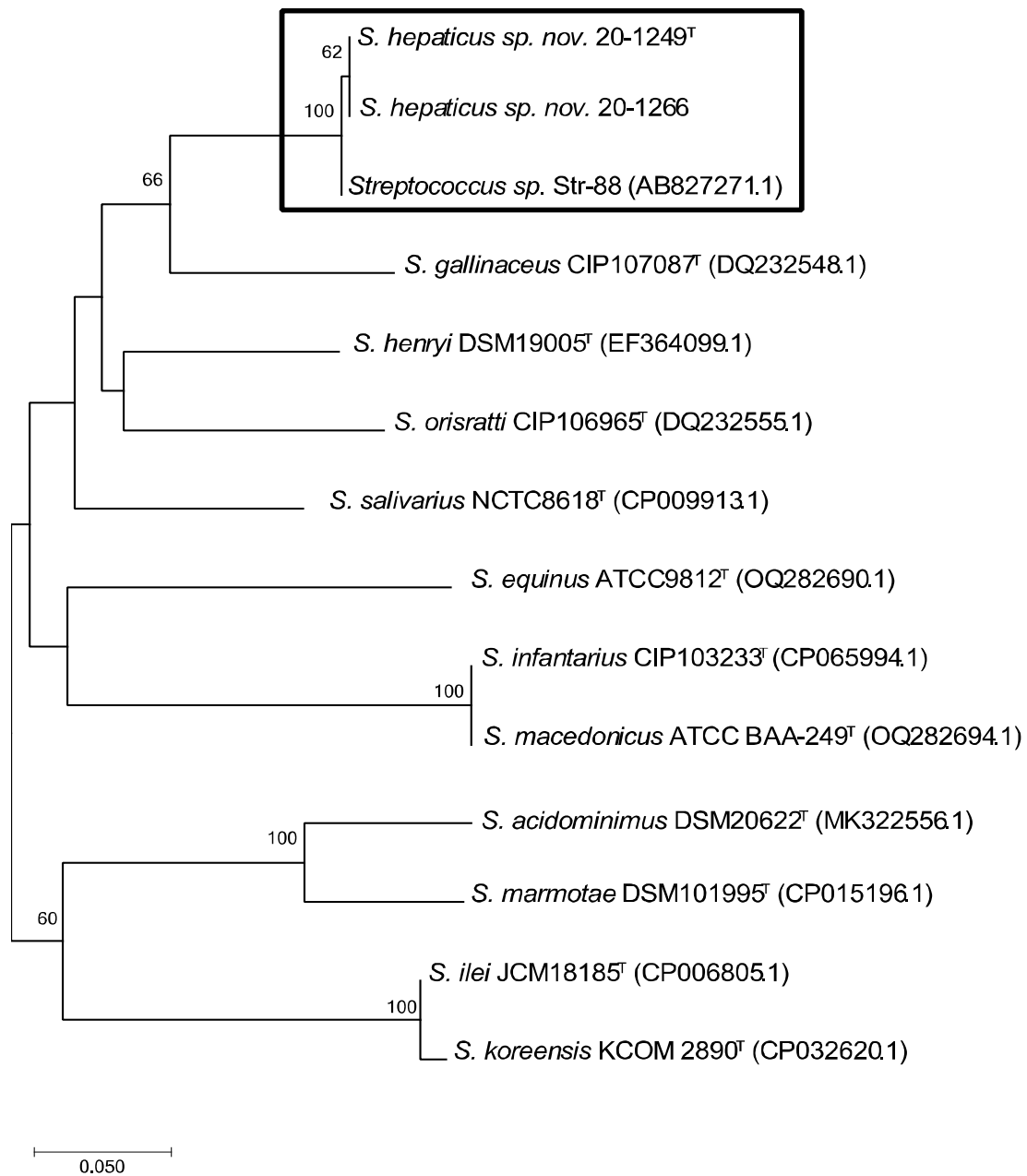


Figure 4.

Phylogenetic analysis of *rpoB* carried out with MEGA X using the neighbour-joining approach with evolutionary distances computed using the Jukes-Cantor with a contig of 638bp. Analysis of the *S. hepaticus* sp. nov. *rpoB* contig using BLASTn identified closely related sequences which were used to generate this tree. Sequences from type strains that have >80% sequence identity were included along with the contig from Str-88 (AB827270.1) and both *S. hepaticus* sp. nov. strains (20-1249^T and 20-1266). Value at nodes correspond to proportions of 100 re-samplings that support the topology shown with only values >60% indicated. Bar, 0.02 substitutions per nucleotide position.

Figure 4.

