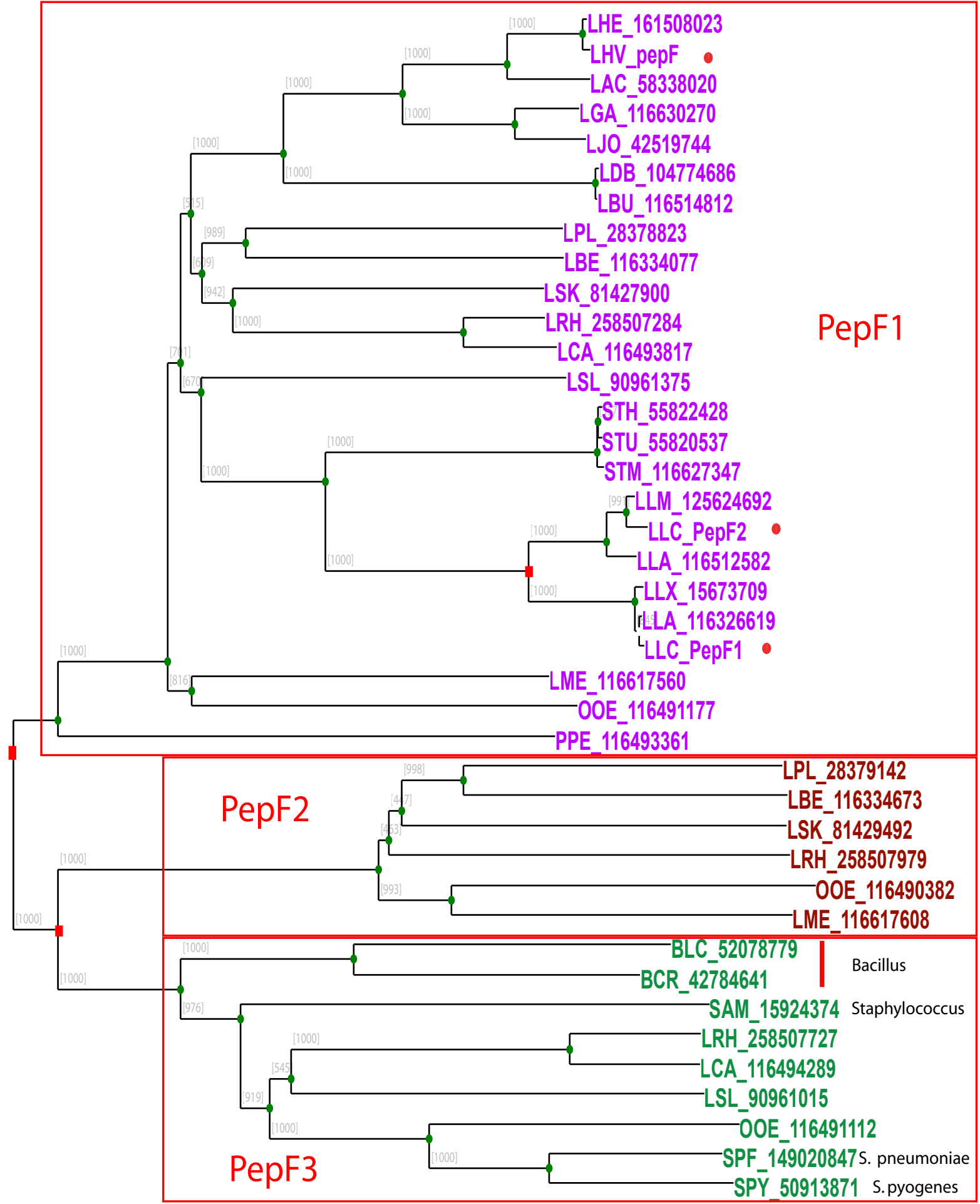


PepF superfamily



Additional File 2. Superfamily tree of PepF members. Genome abbreviations can be found in main text “Methods”. For each gene, the organism abbreviations are followed by GI codes. Homologs from non-LAB strains are also included and the species/phyla are shown behind the genes. Experimentally characterized genes are highlighted by red dots. Green circles represent the speciation events, while red squares represent duplication events.