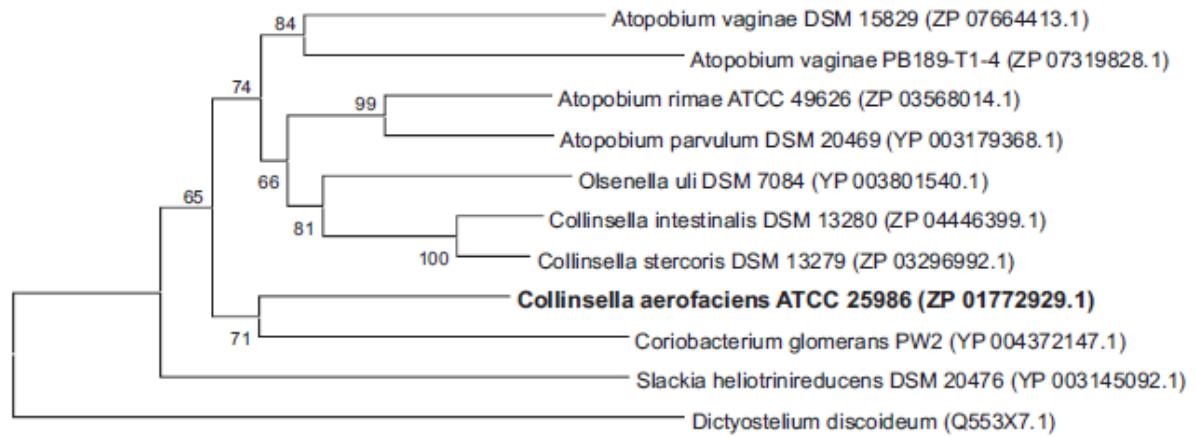


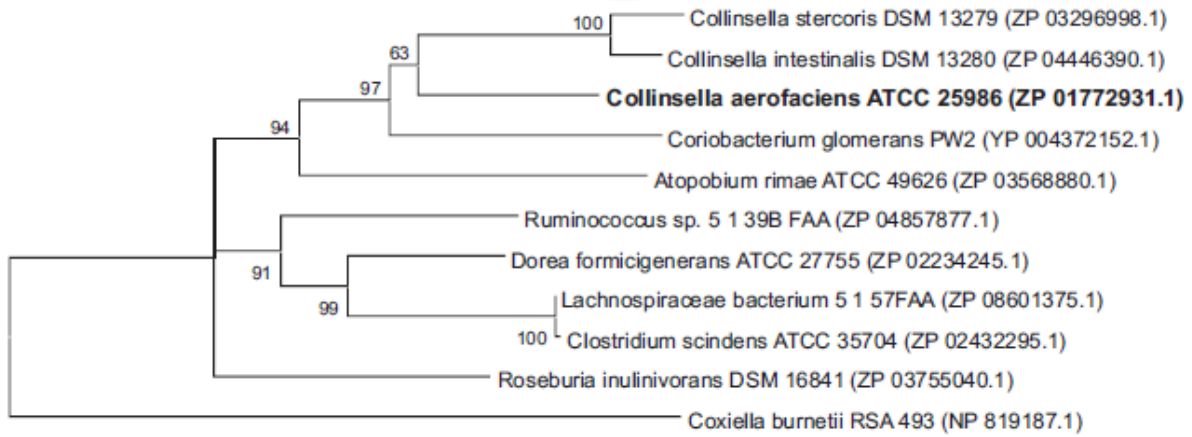
(A)

COLAER_01955



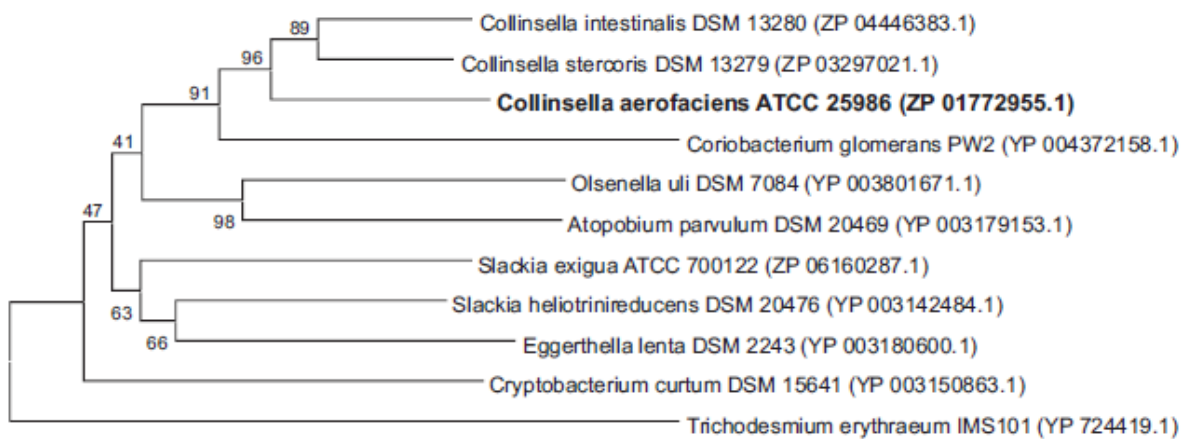
0.05

COLAER_01957



0.1

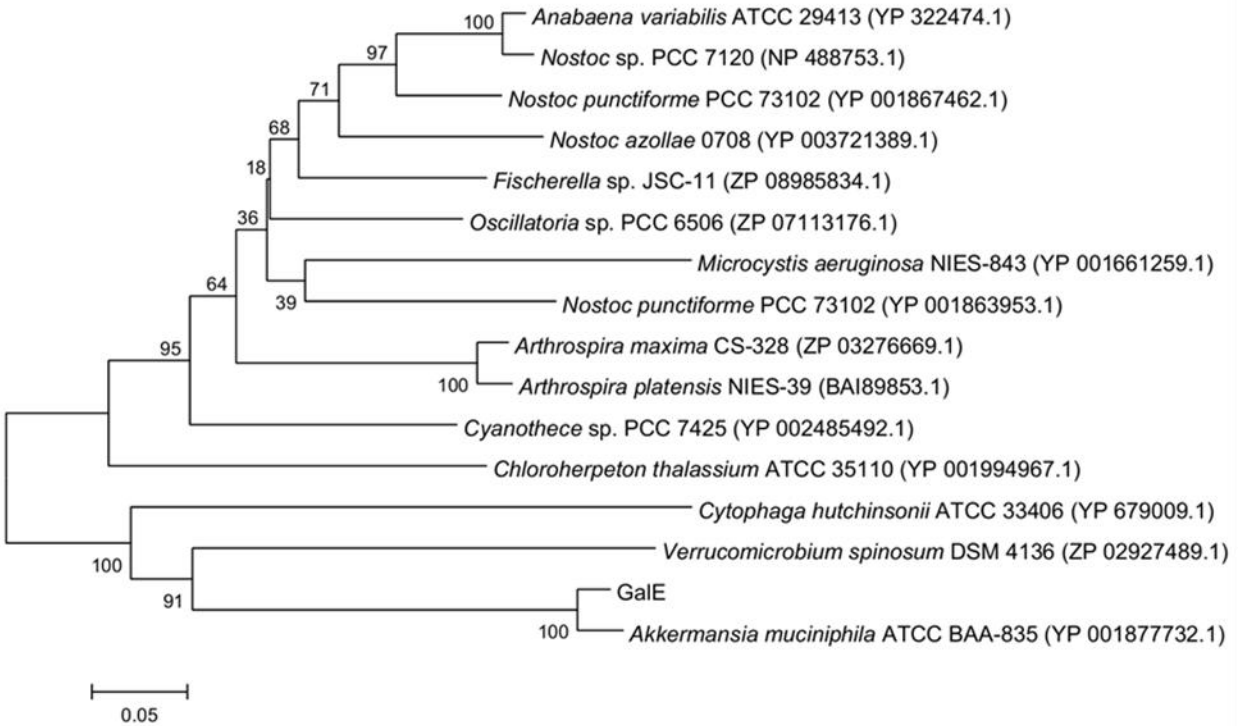
COLAER_01981



0.1

(B)

GalE(25)



(C)

MazG(5)

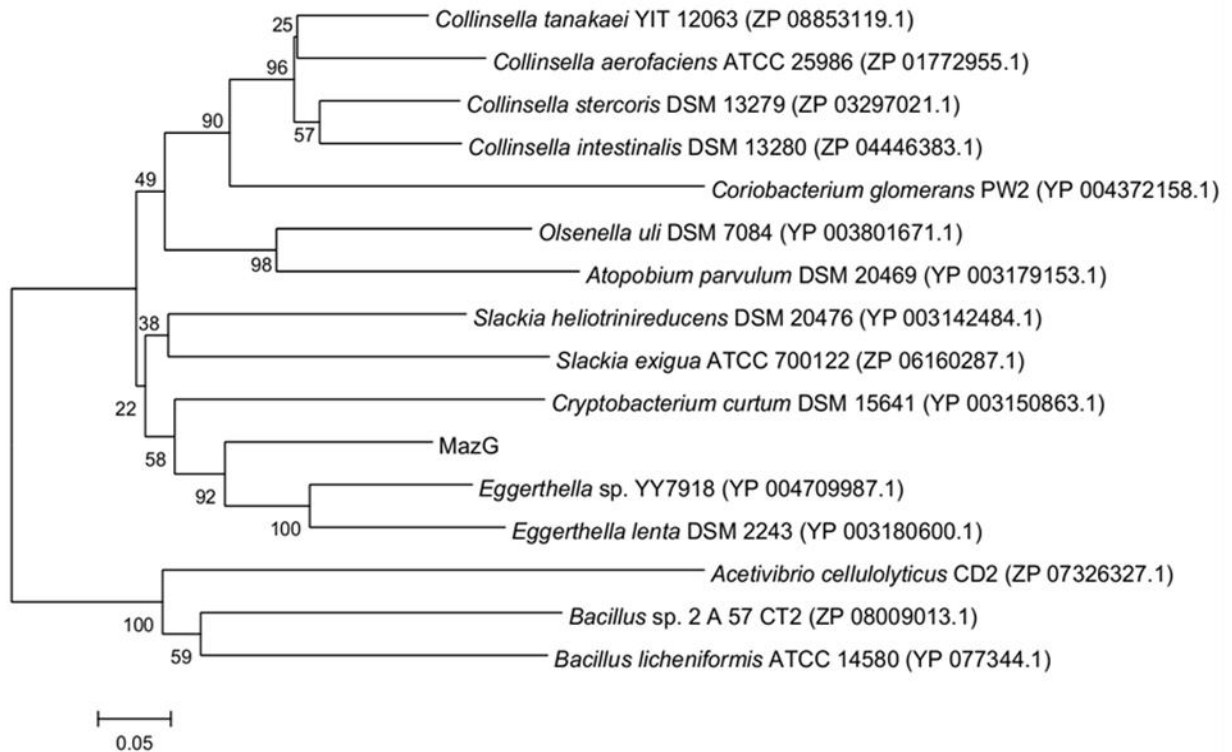


Fig. S3: Phylogenetic analysis of **(A)** GalE(3) (COLAER_01955), MurB(3) (COLAER_01957), MazG(3) (COLAER_01981), **(B)** GalE(25) (Amuc_1125) and **(C)** MazG(5) (EGYY_03530) and related proteins. Phylogenetic analysis was performed using the program MEGA 5.0 (Tamura *et al.*, 2011). The bootstrap method (500 replicates) was used to test the percentage of replicate trees in which the associated taxa clustered together