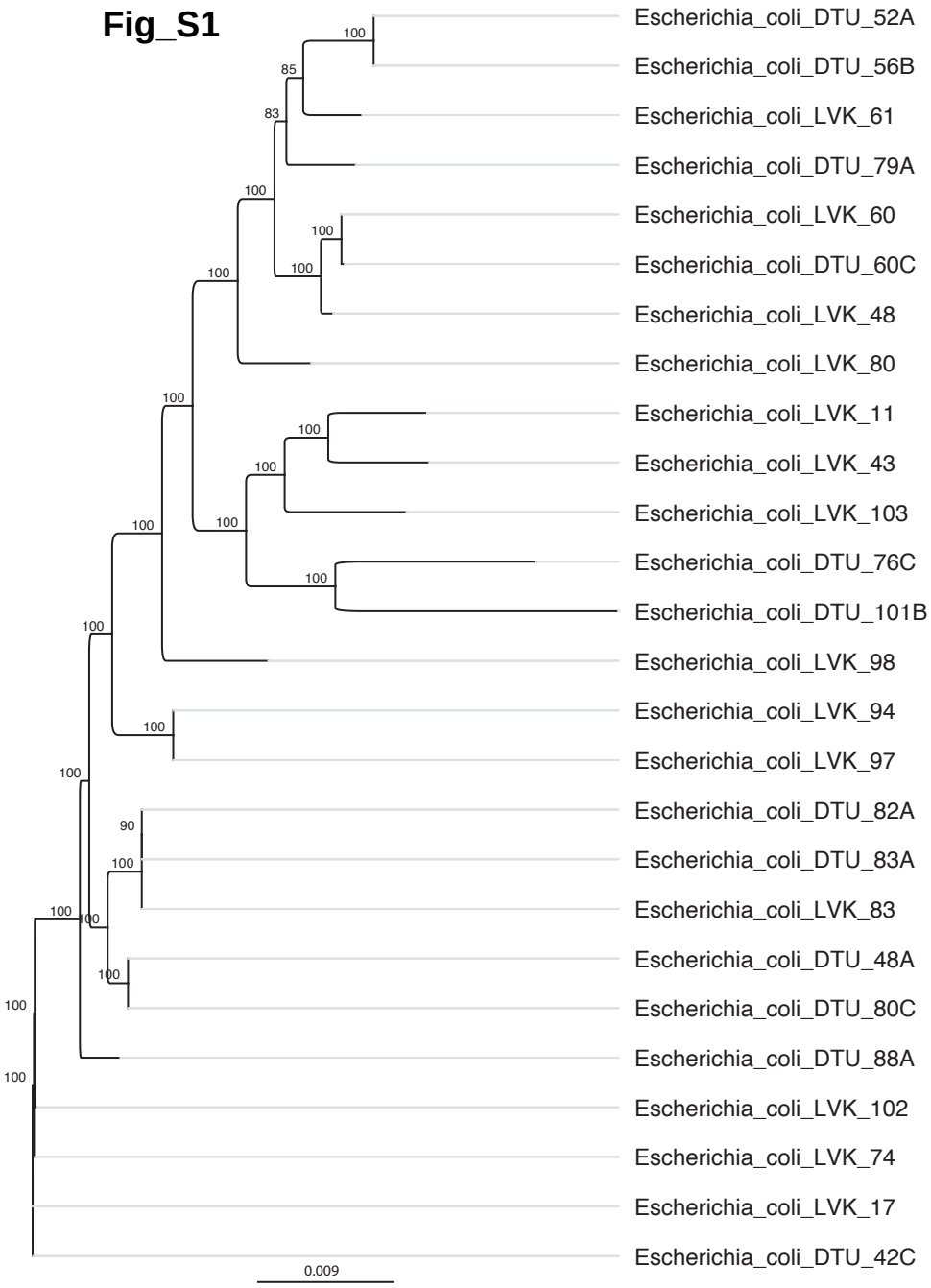
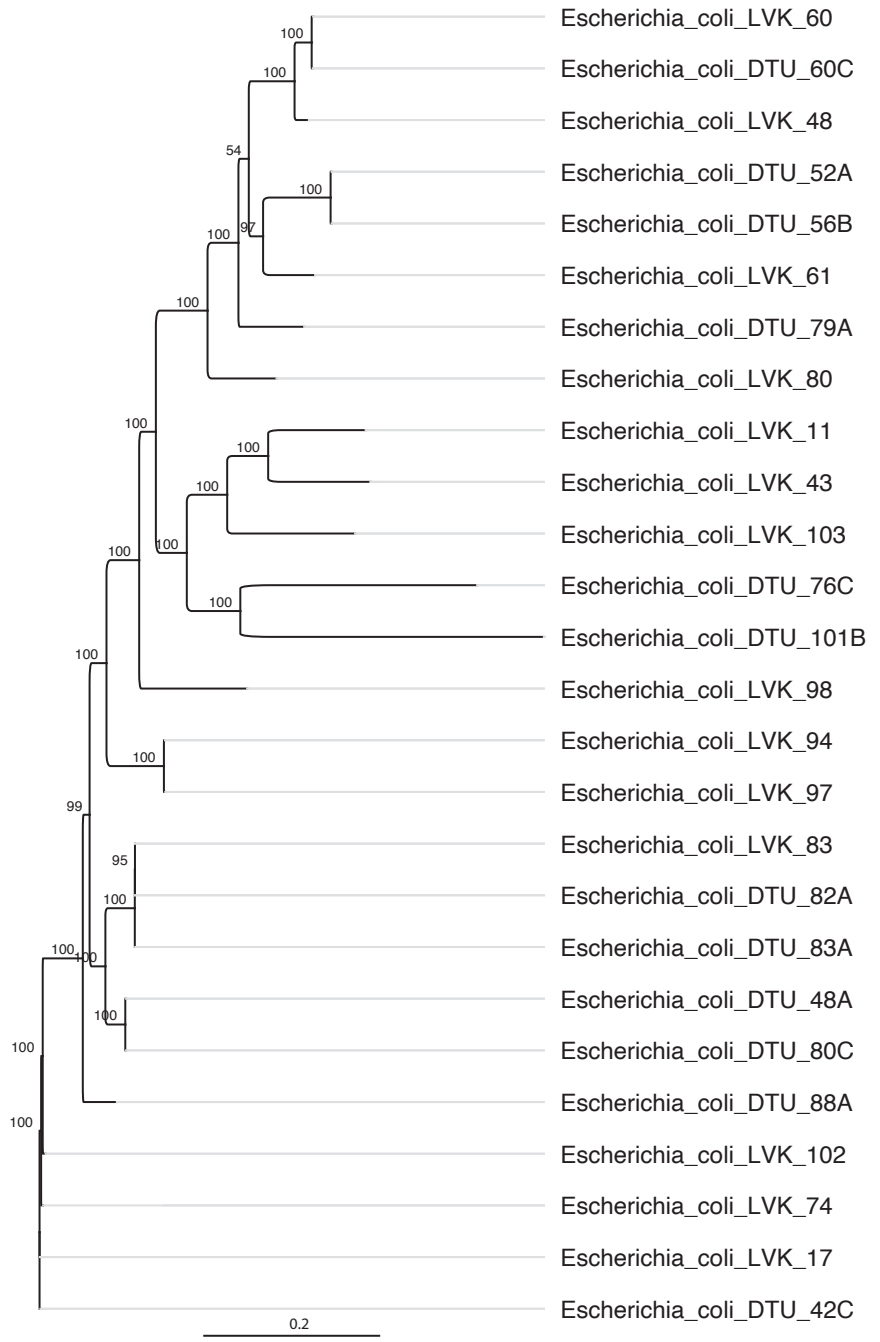


A: Core-genome phylogeny

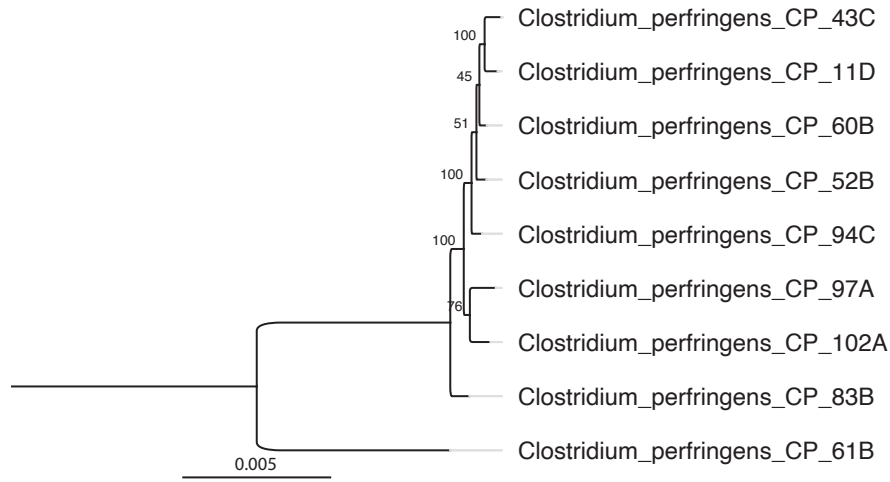
Fig_S1



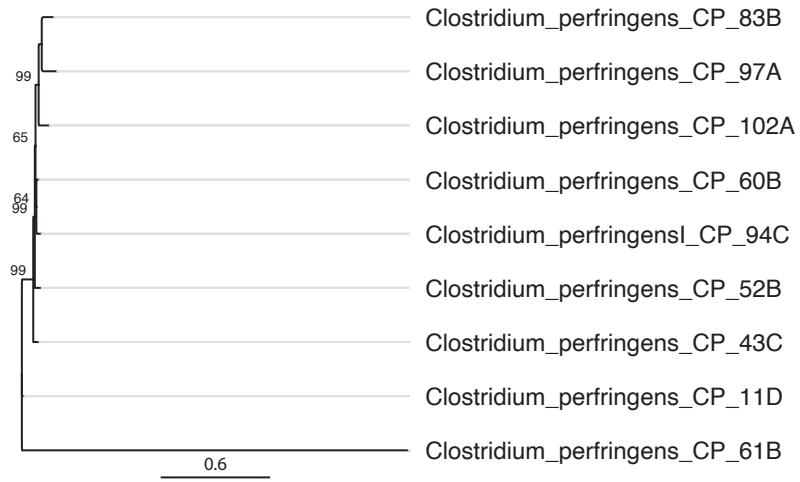
B: SNP-based phylogeny



C: Core-genome phylogeny

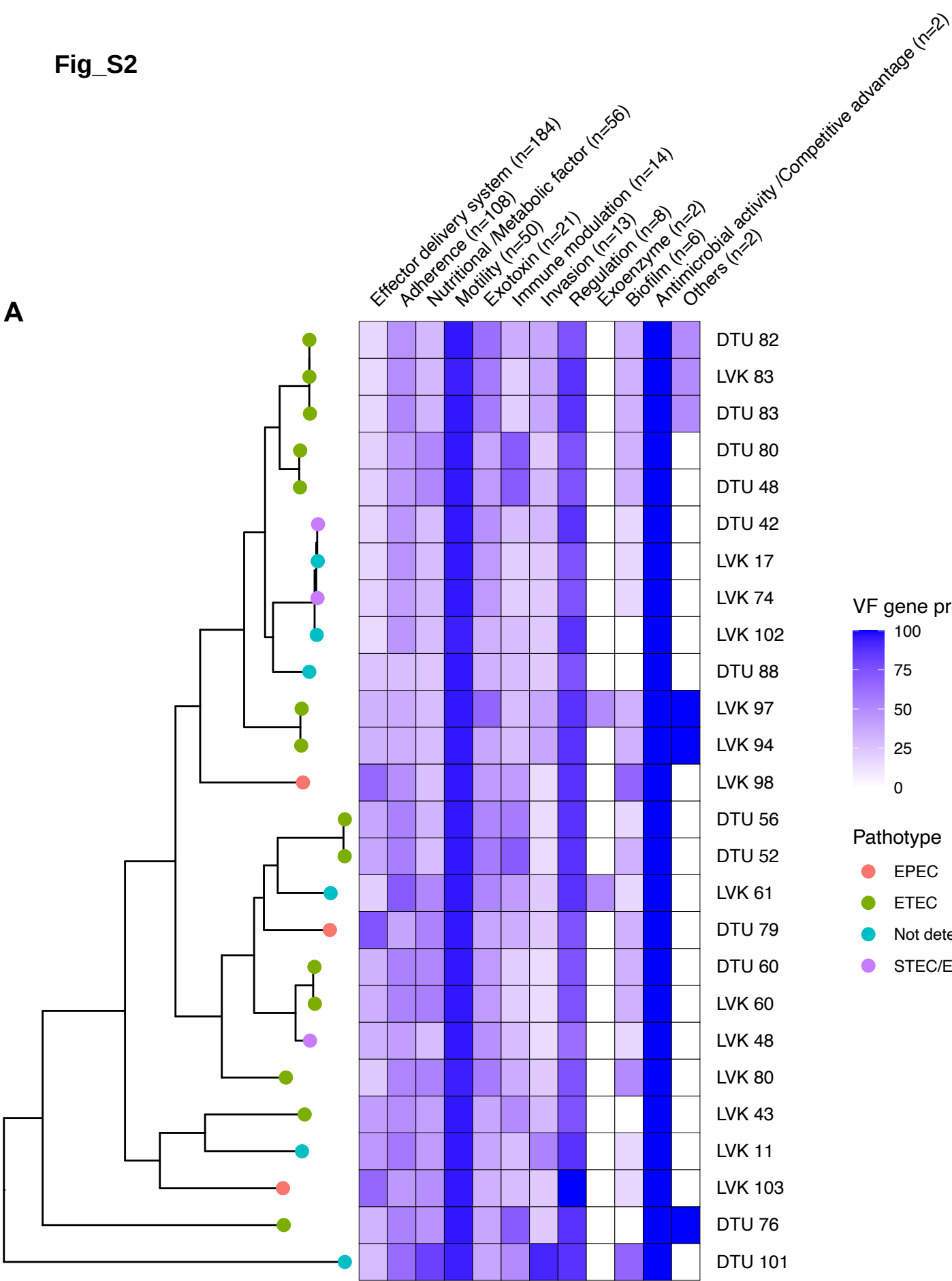


D: SNP-based phylogeny

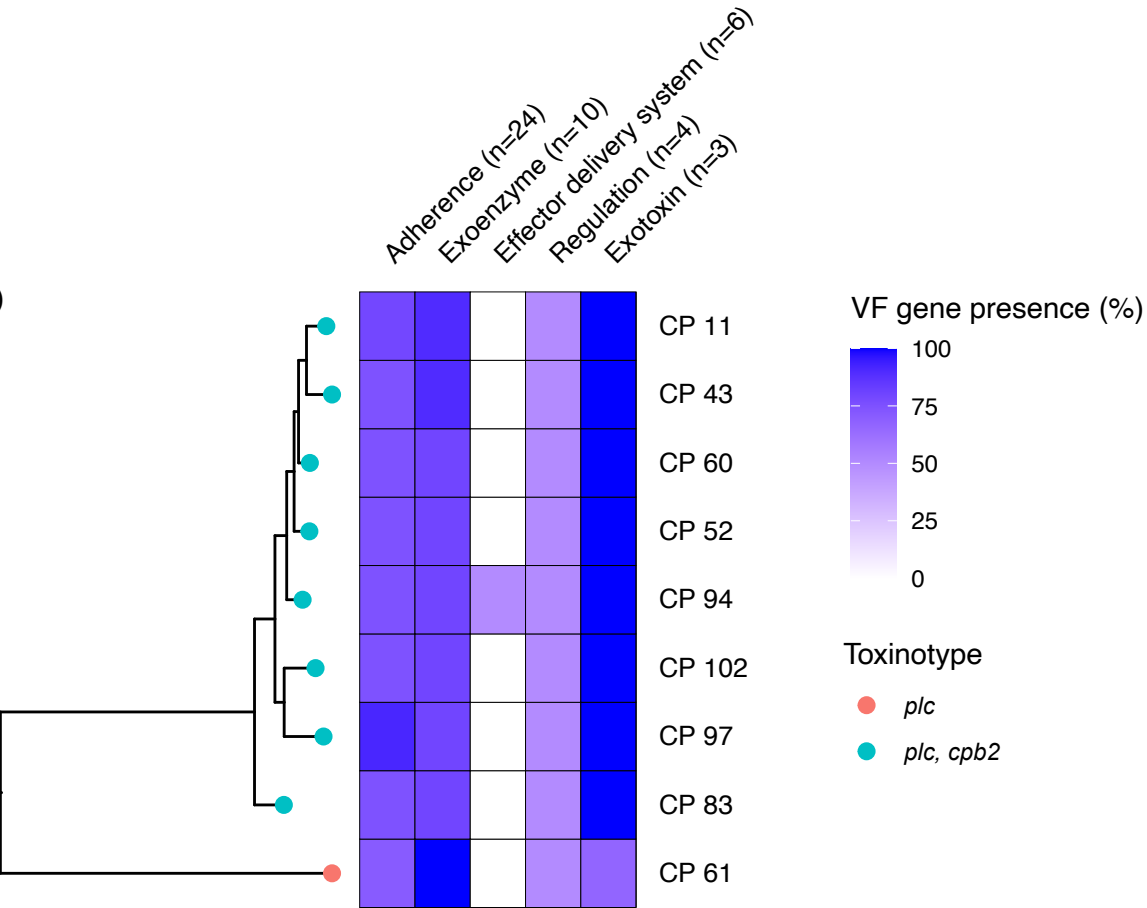


Fig_S2

A

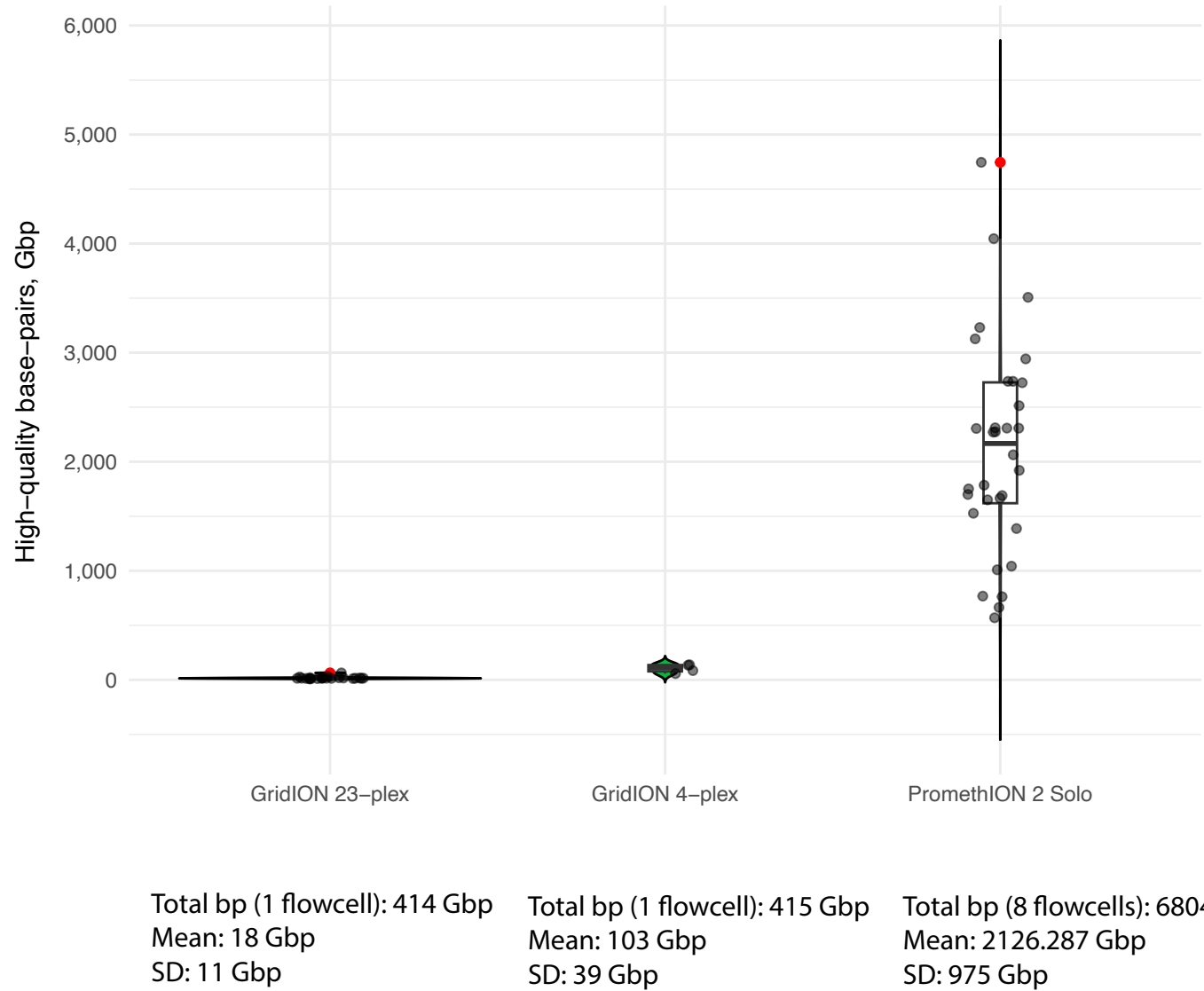


B

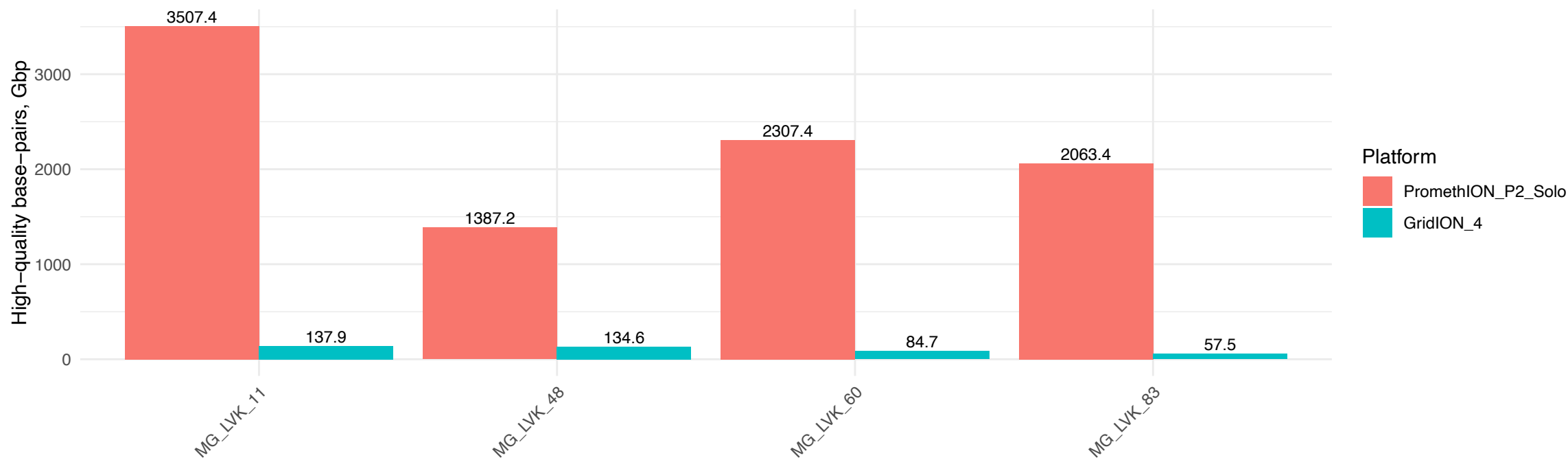


A

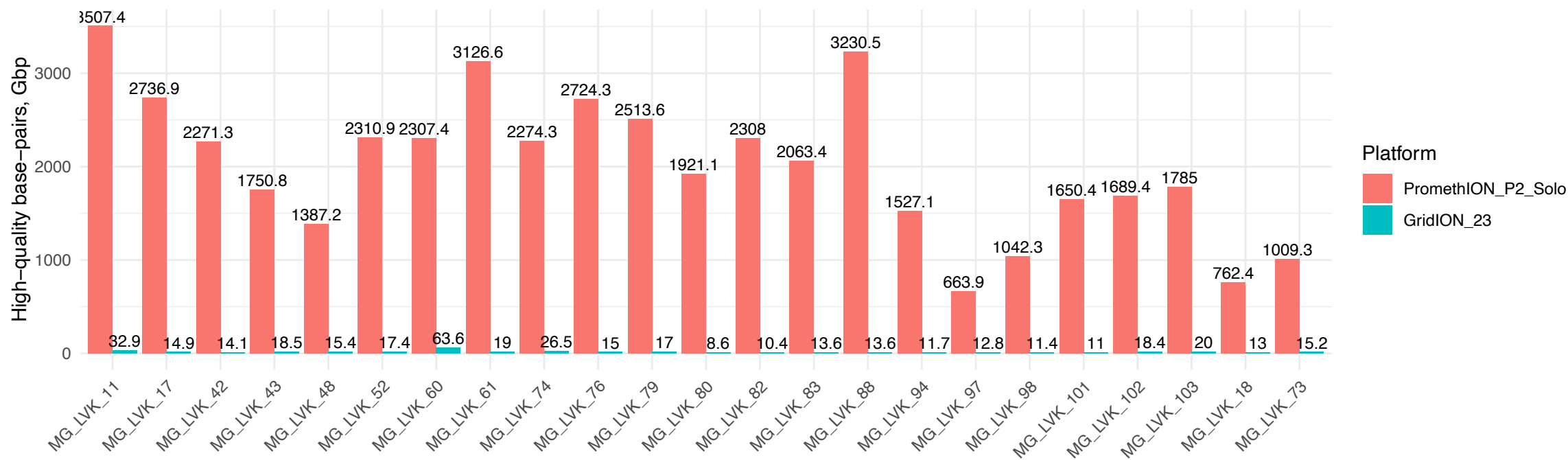
Fig_S3



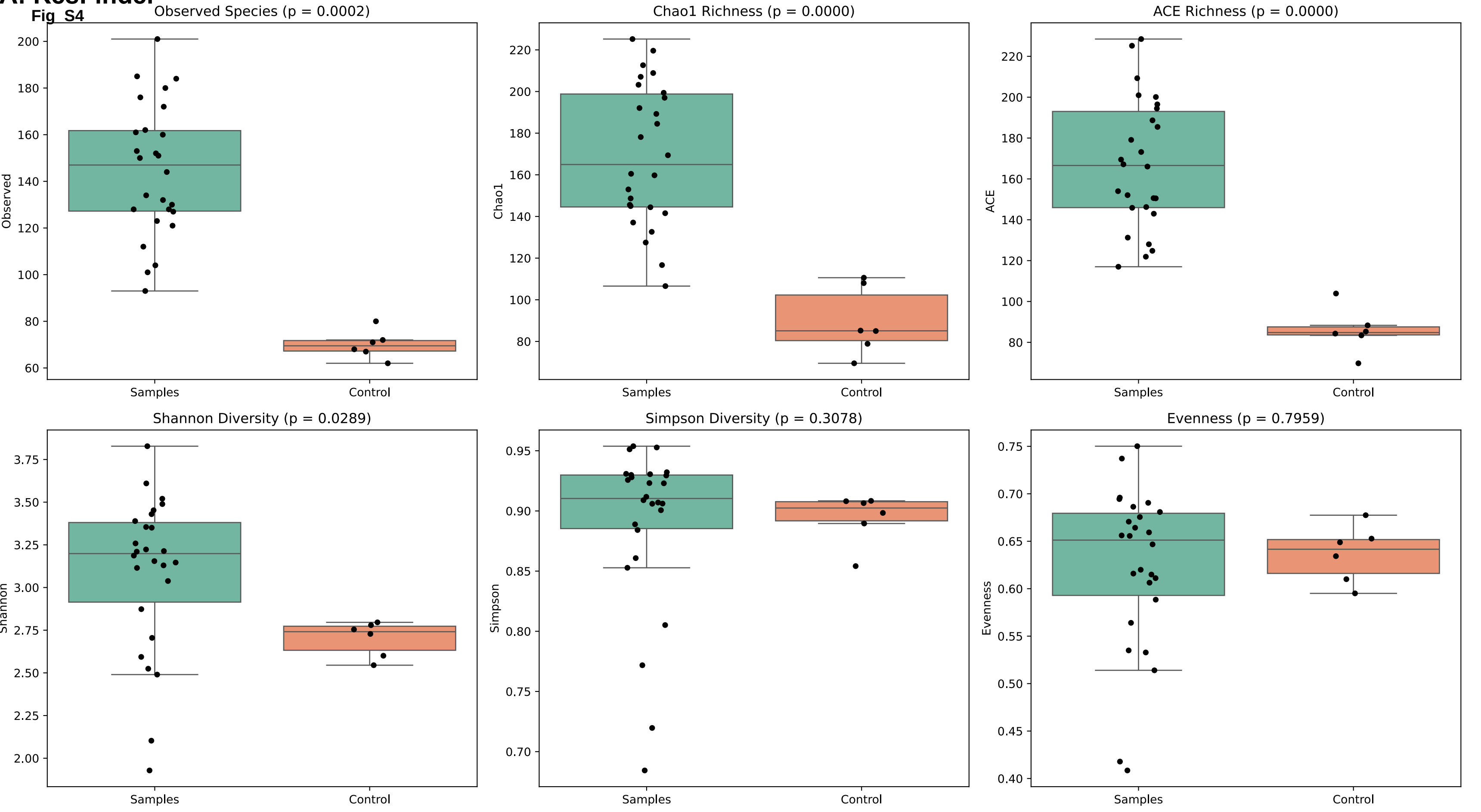
B



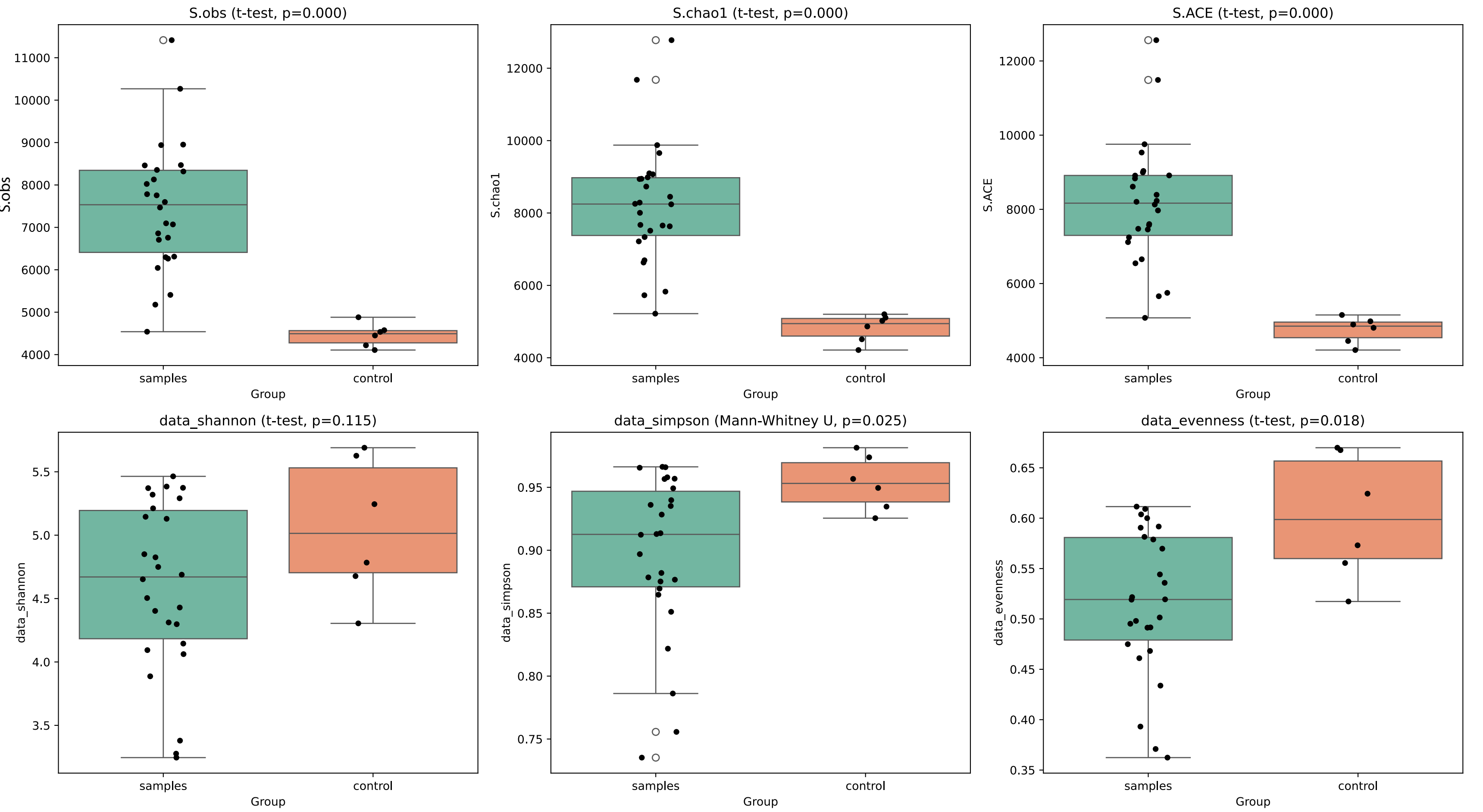
C



A: ResFinder

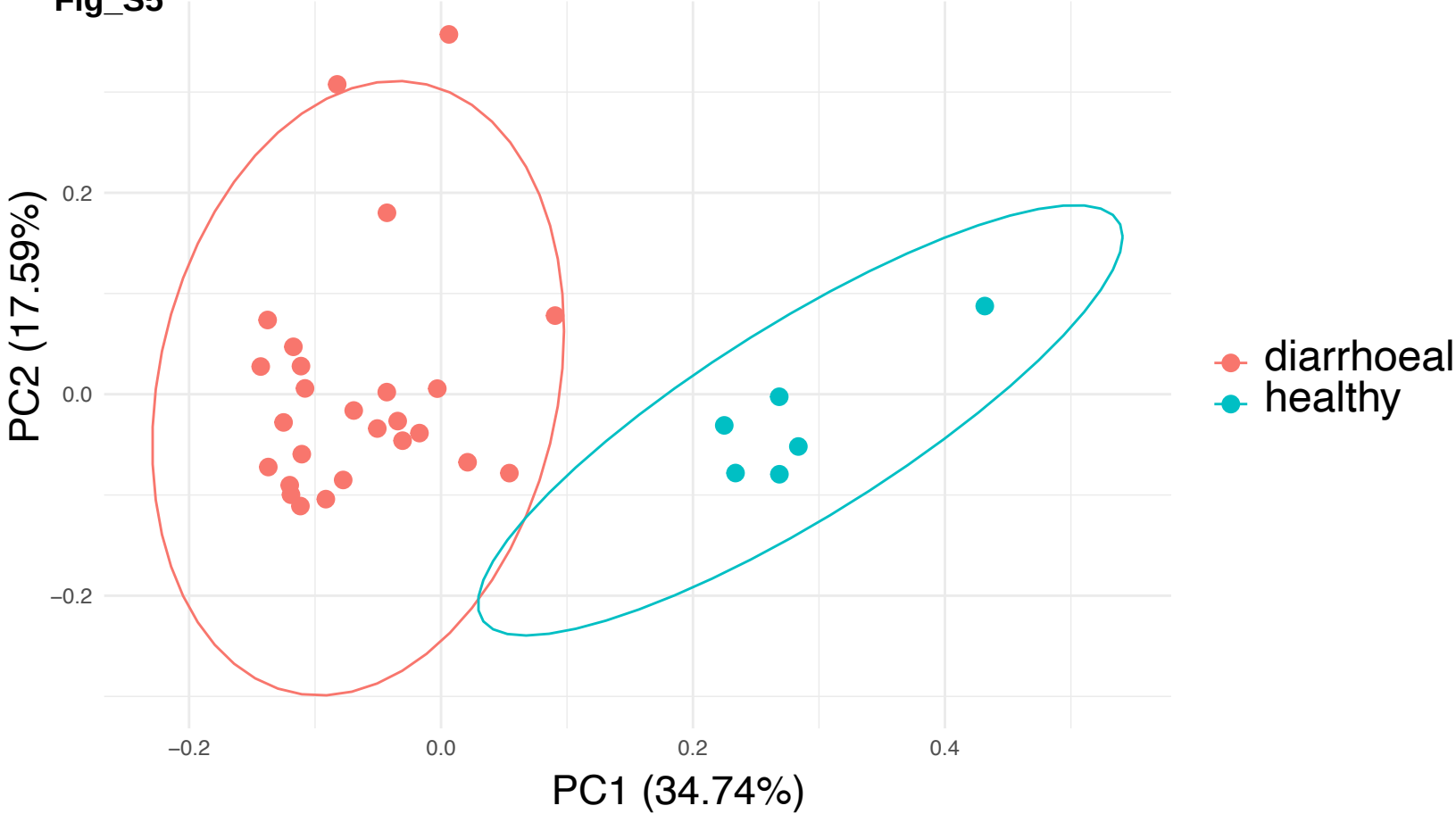


B: Genomic (bacterial species)

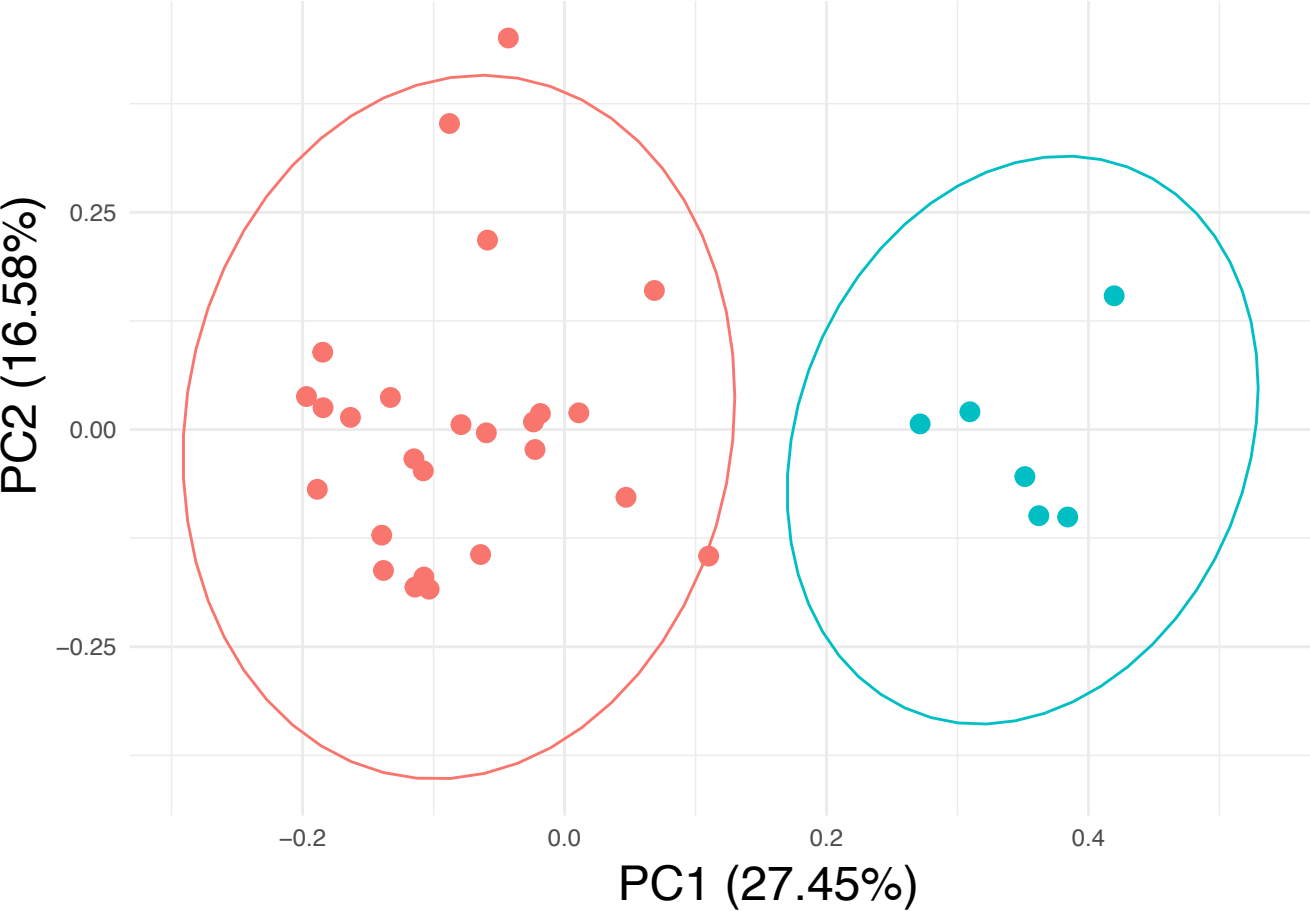


Fig_S5

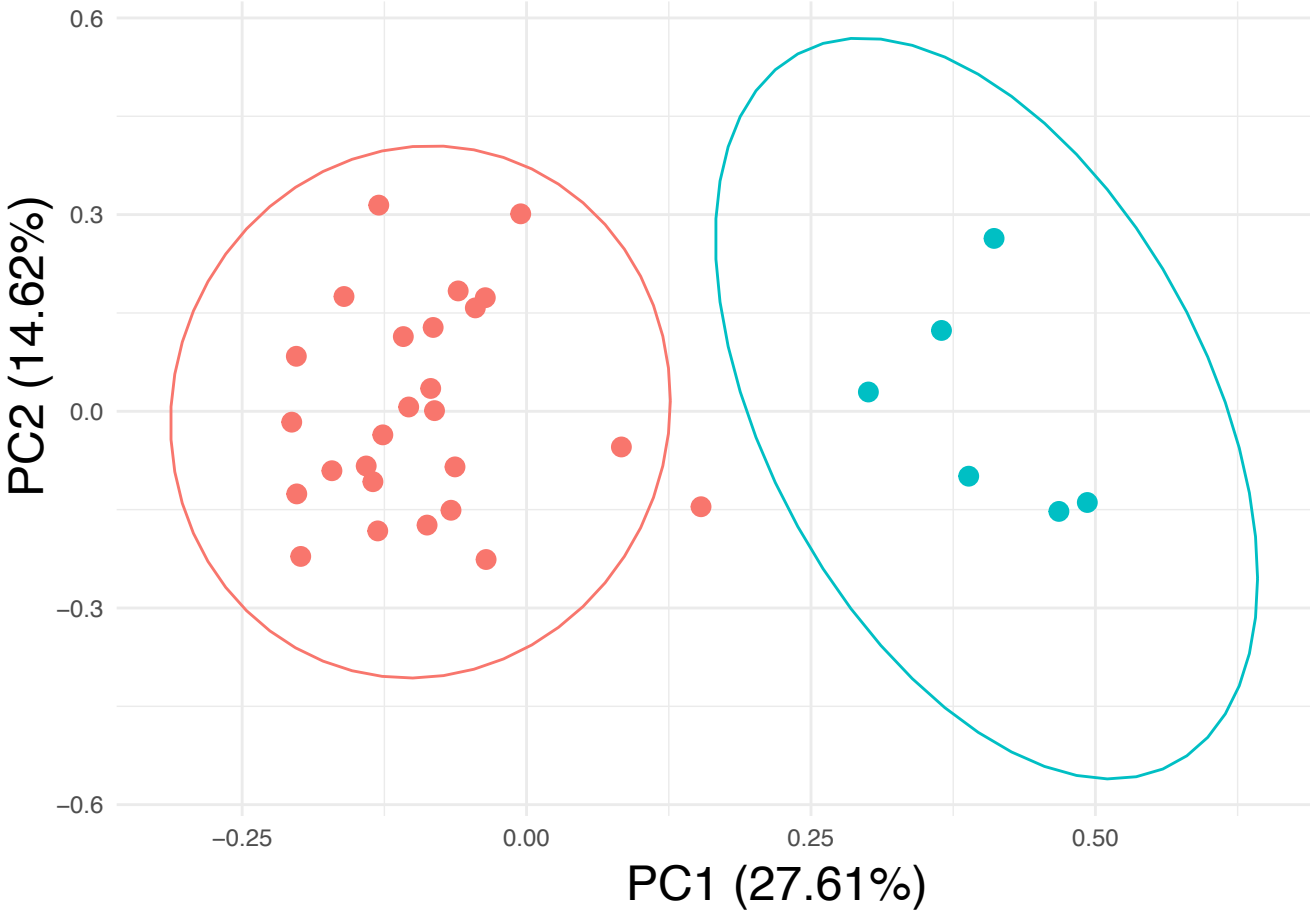
Bacterial species 0.1



Bacterial species 0.5



Bacterial species 0.9



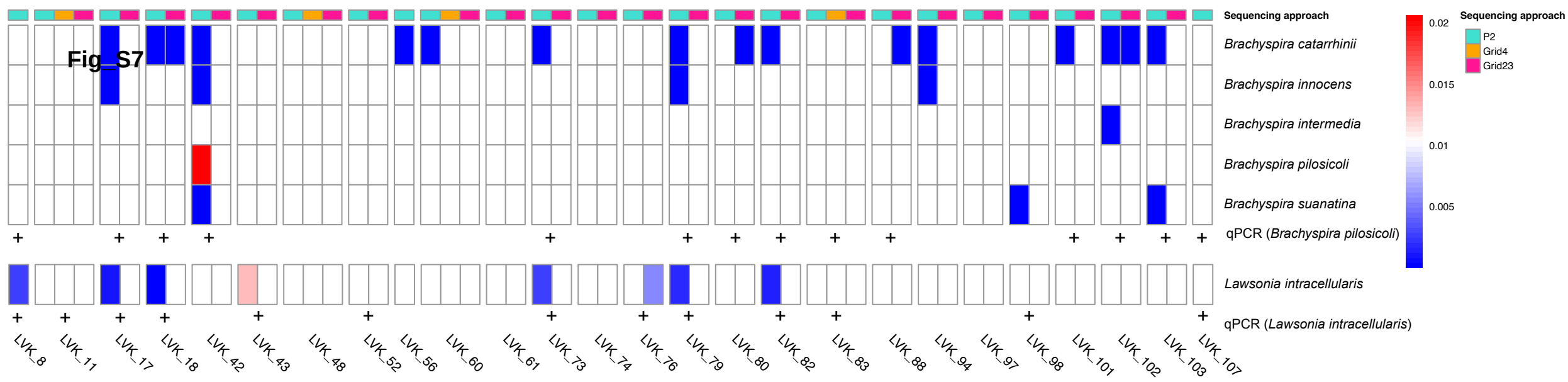
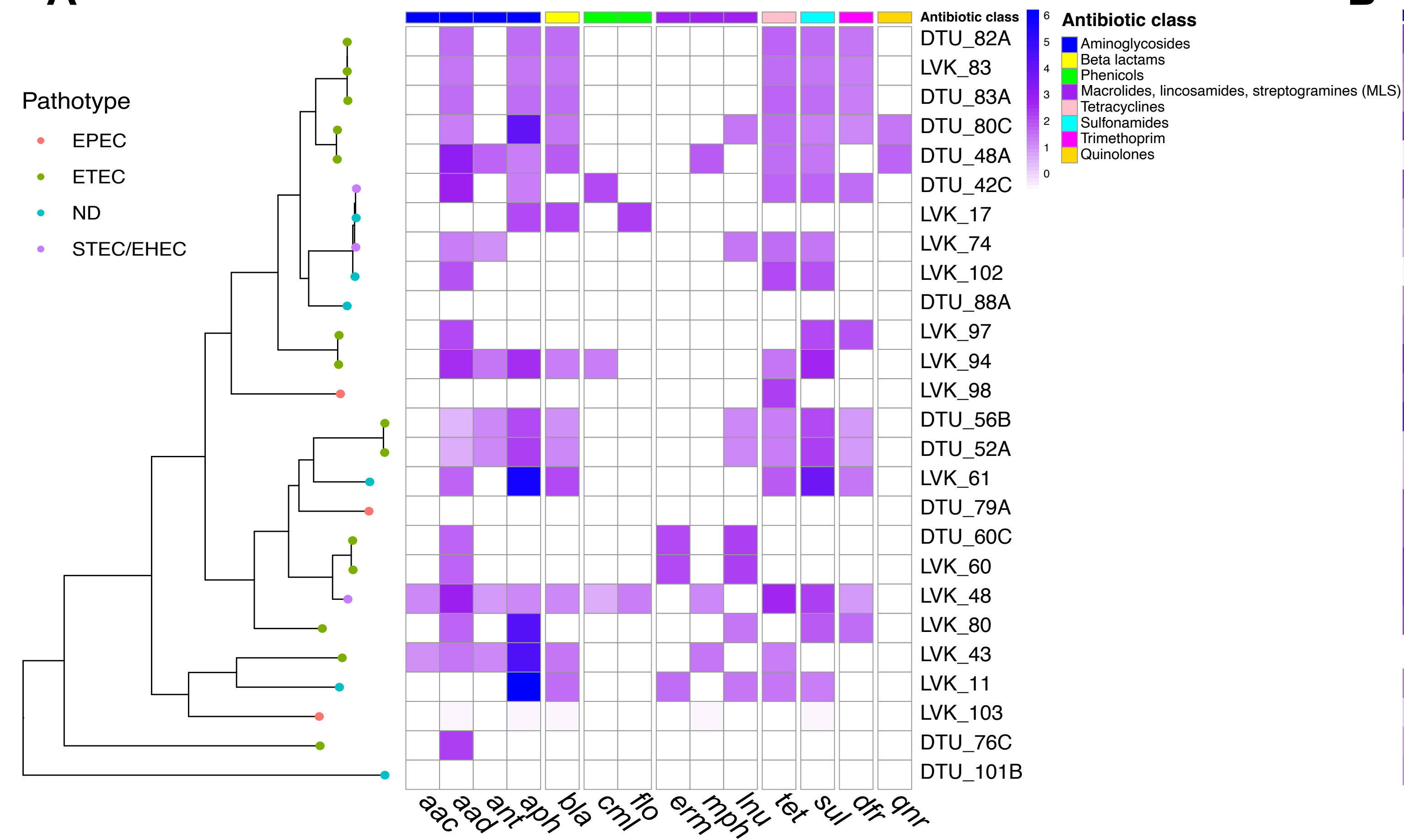


Fig. S9

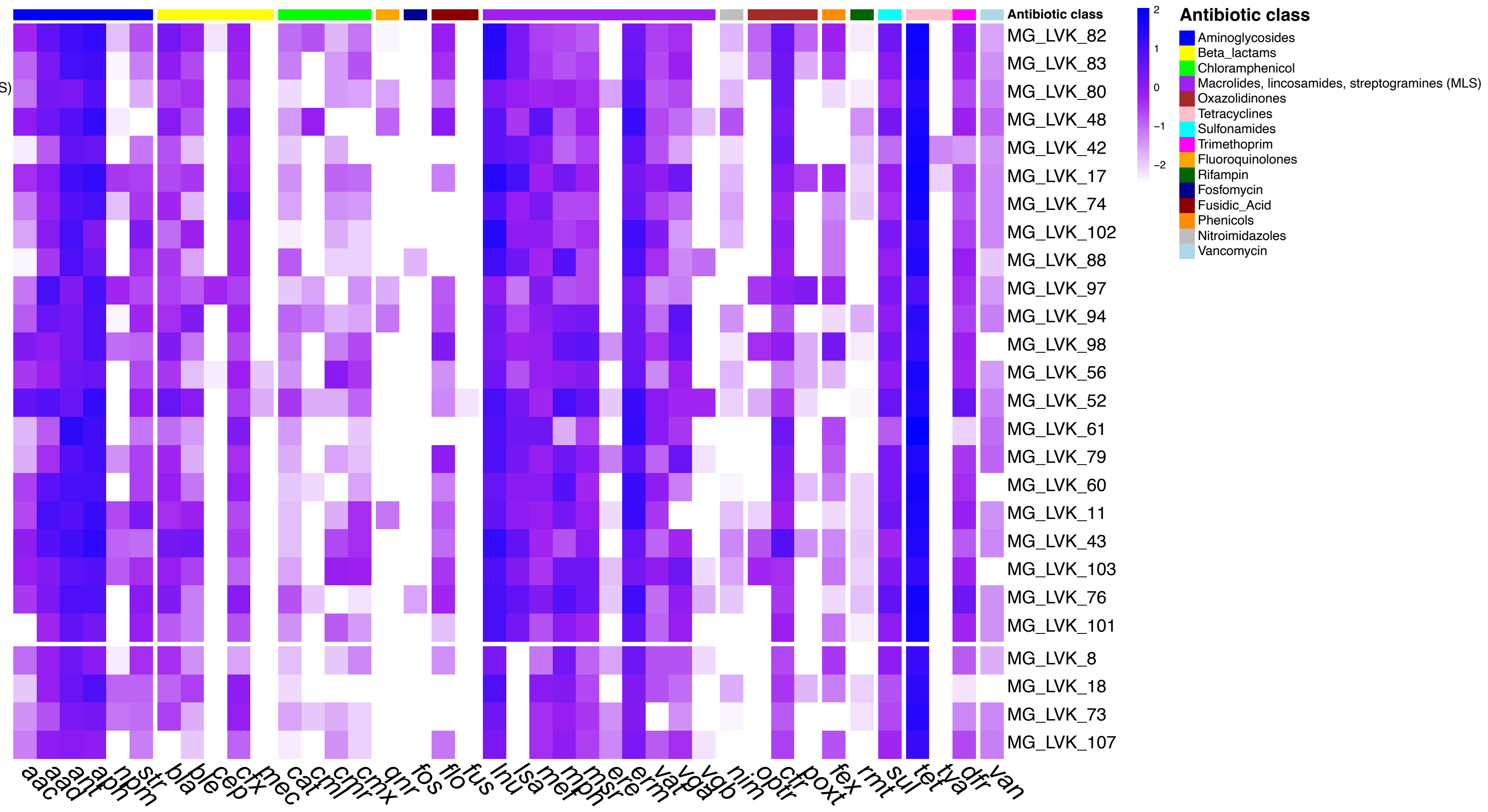
A

ARGs in single isolates (aggregated as gene family)



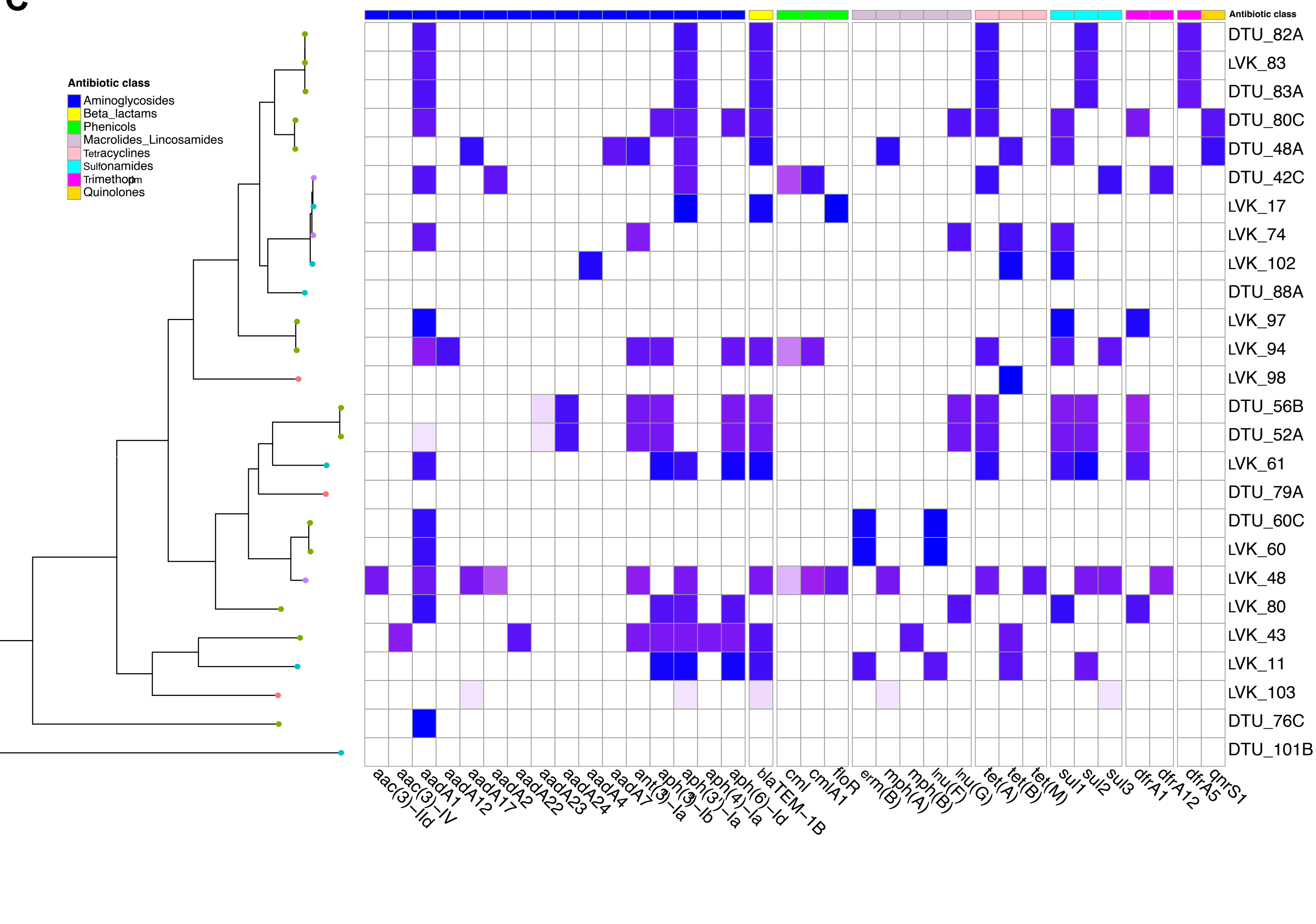
B

ARGs in metagenomes (aggregated as gene family)



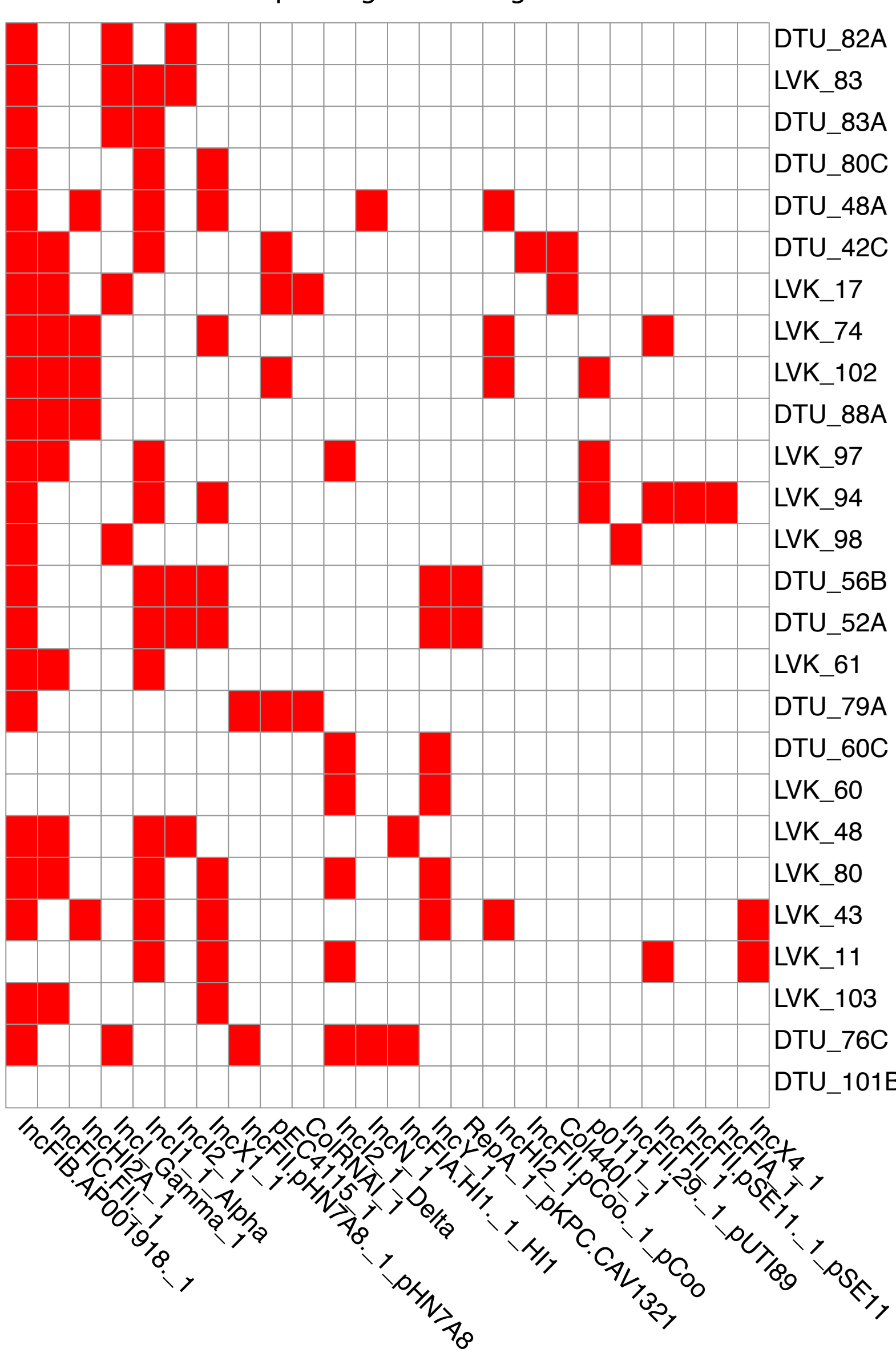
C

ARGs in single isolates (genes)

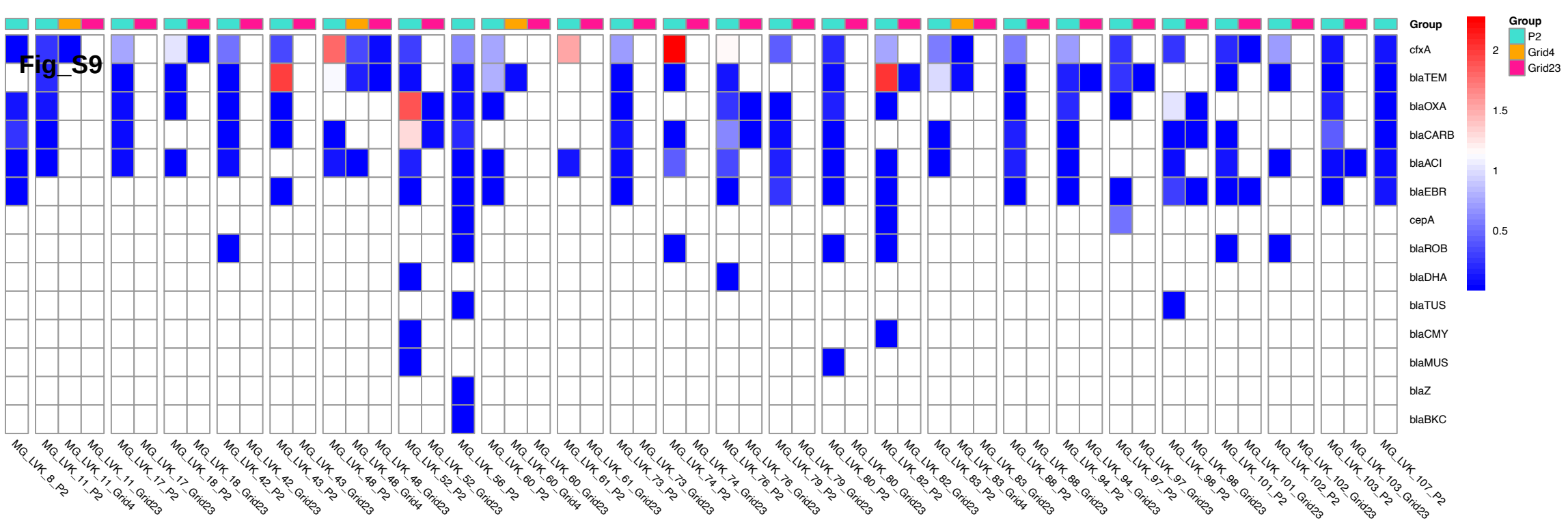


D

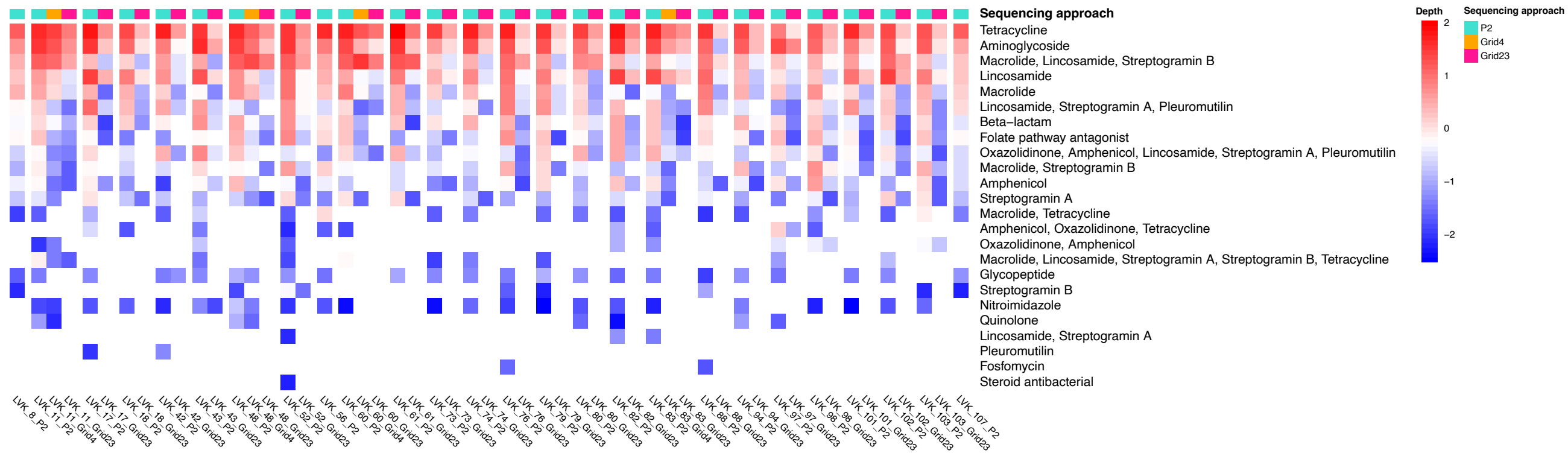
Plasmid replicon genes in single isolates



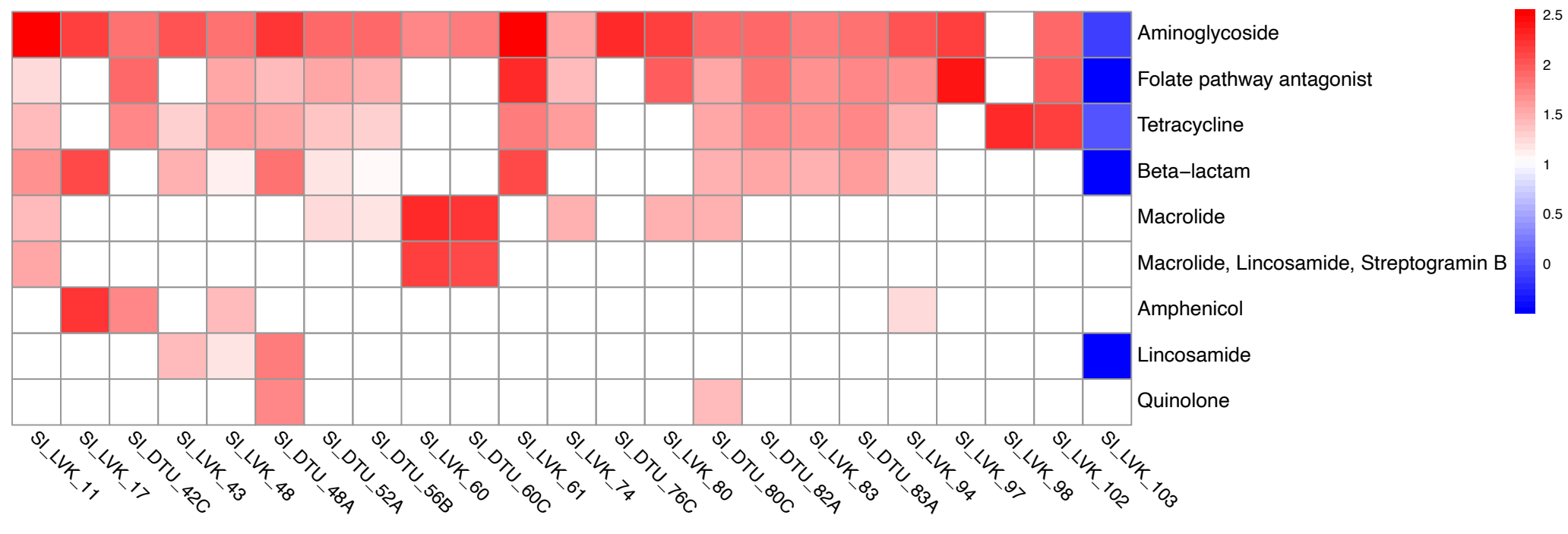
A



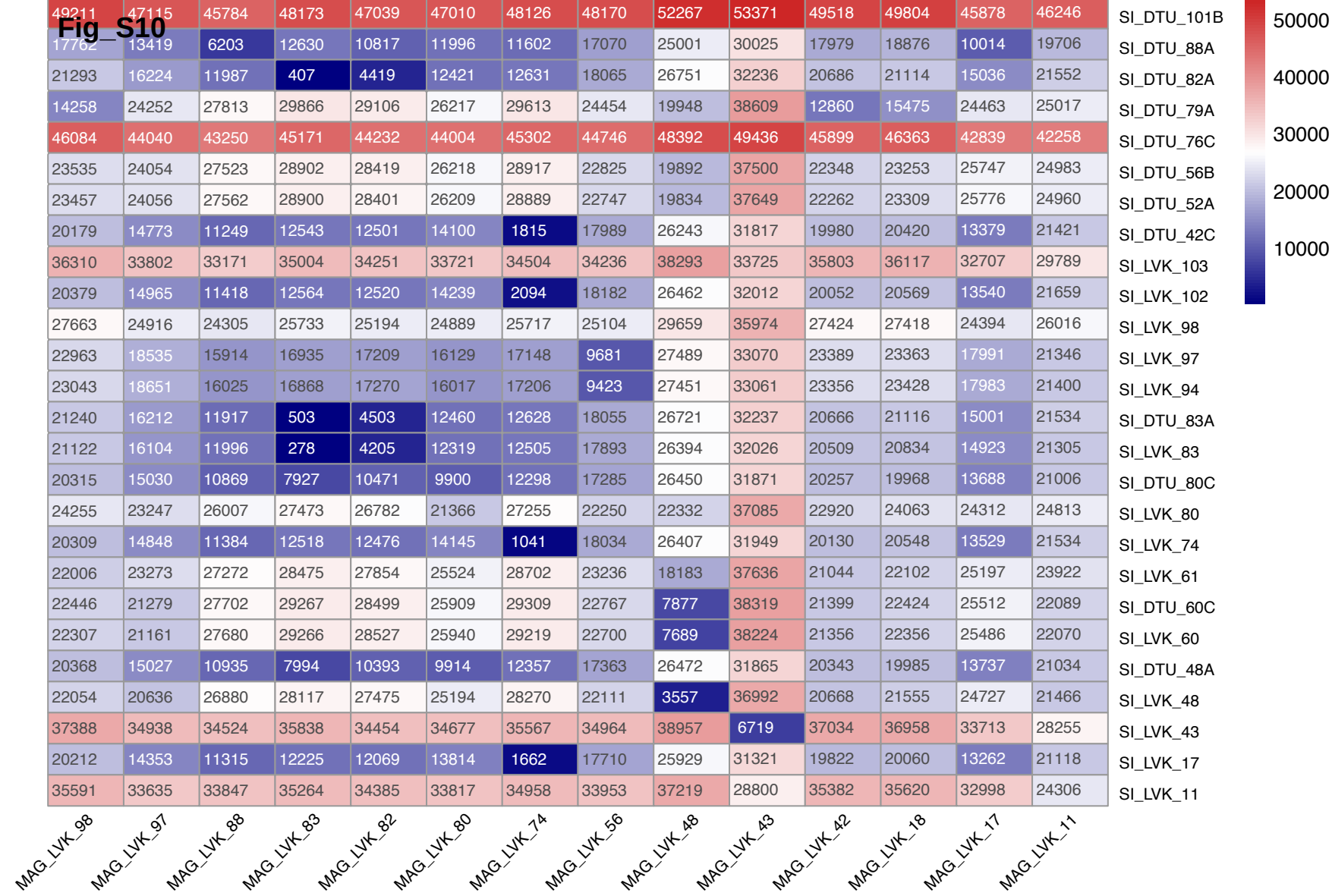
B



C



A



B

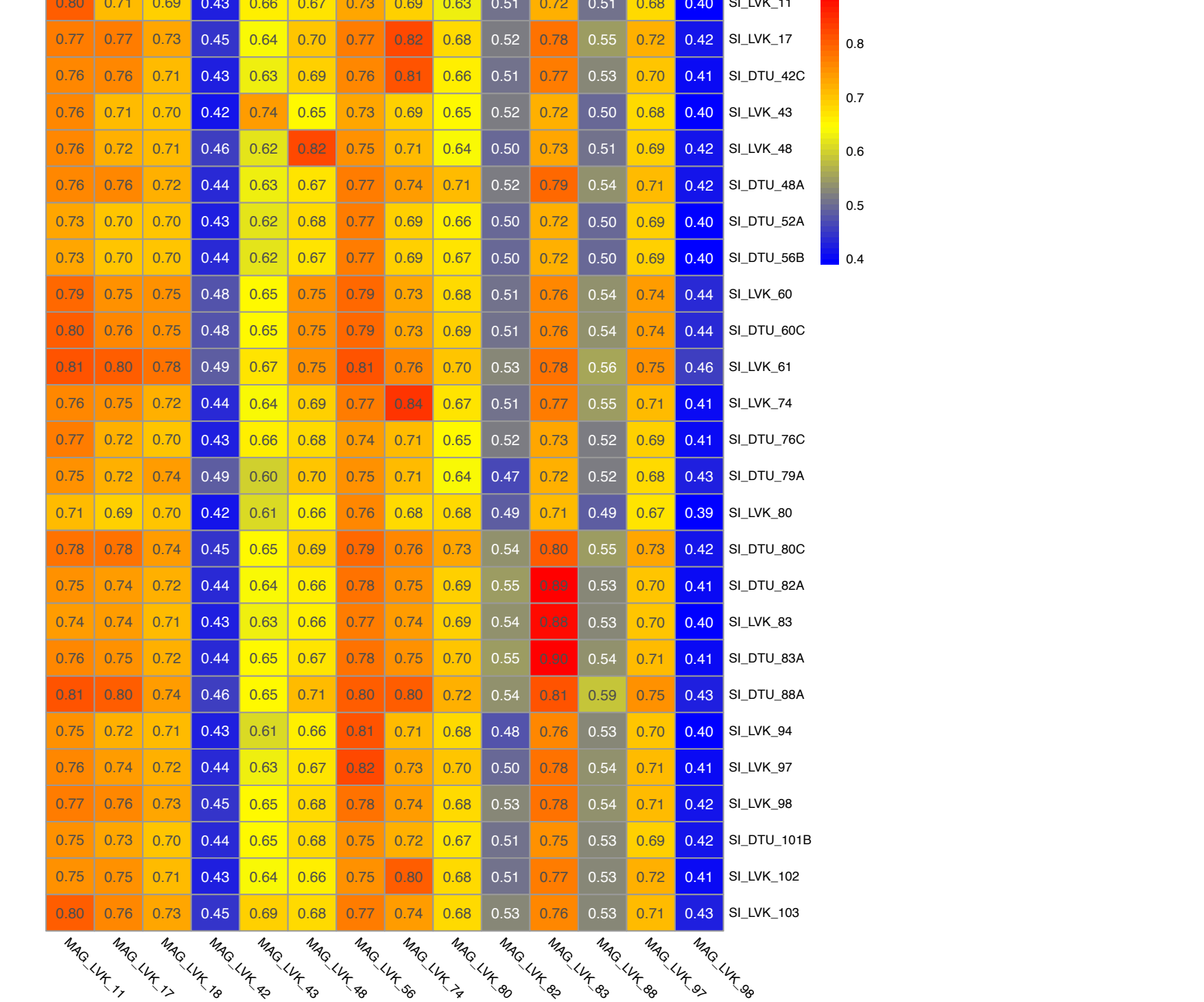
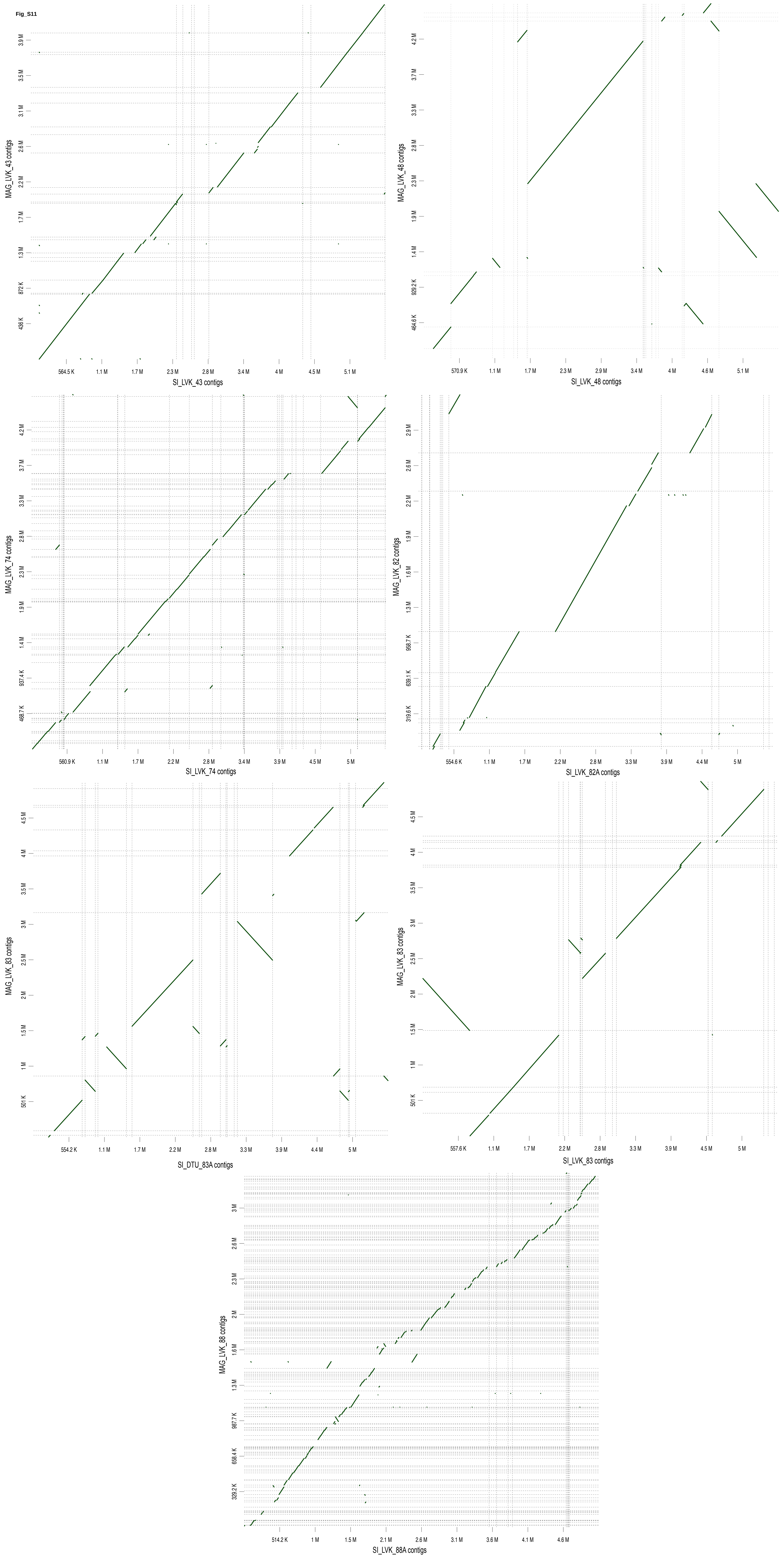
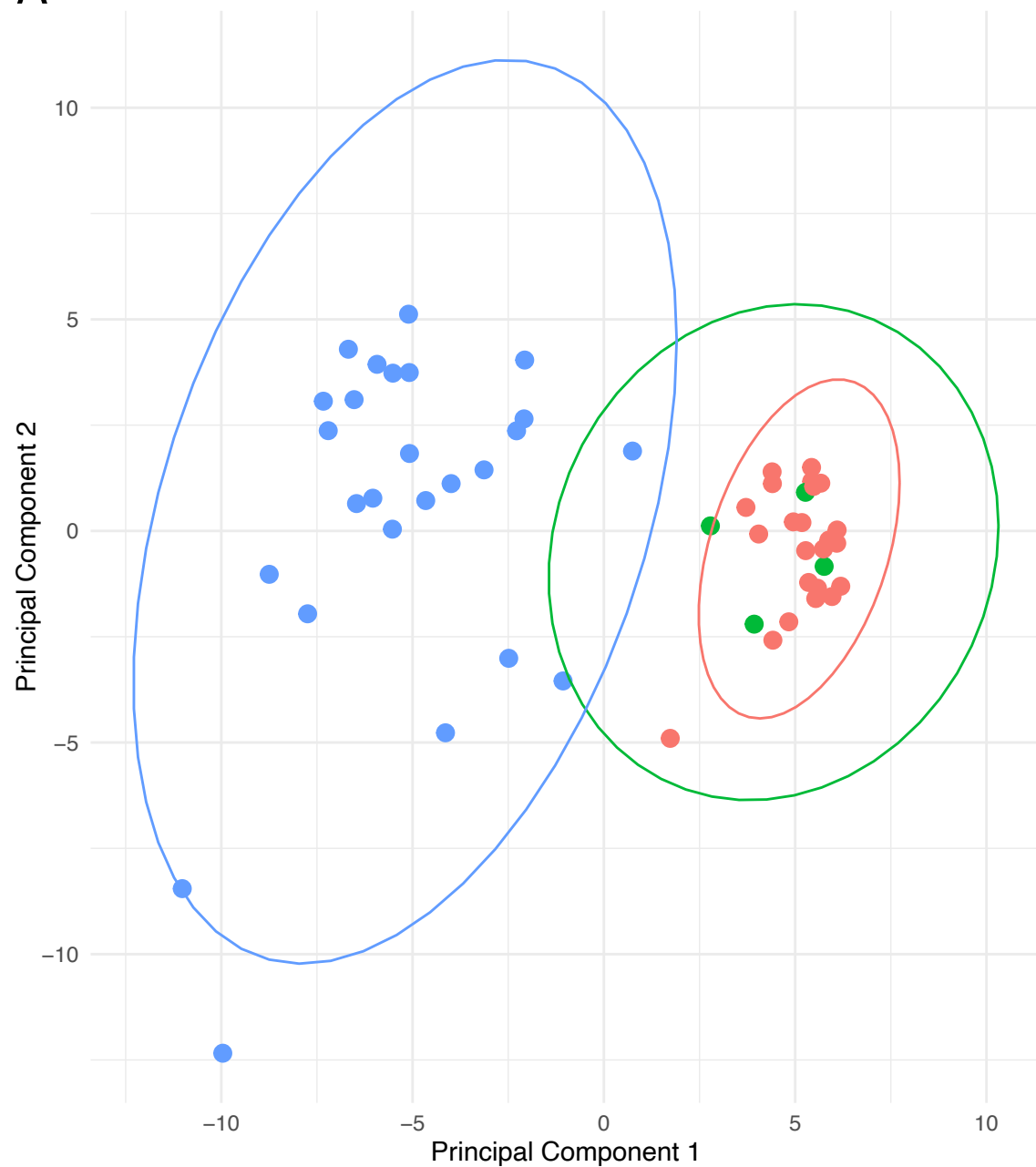


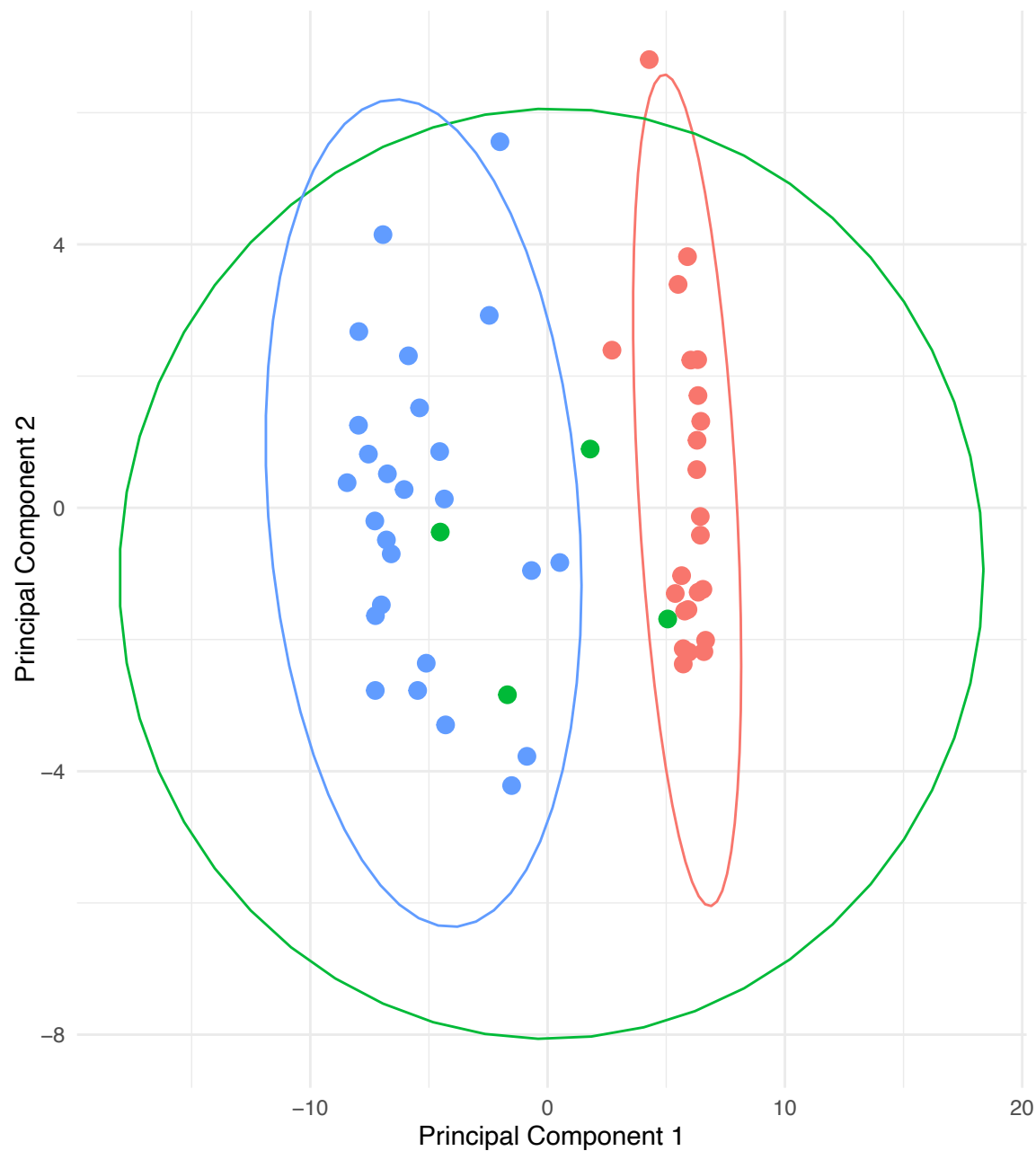
Fig. S11



A Genomic db (bacteria, species) PCA Bray–Curtis Dissimilarity



Genomic db (bacteria, family) PCA Bray–Curtis Dissimilarity



B ResFinder PCA Bray–Curtis Dissimilarity

