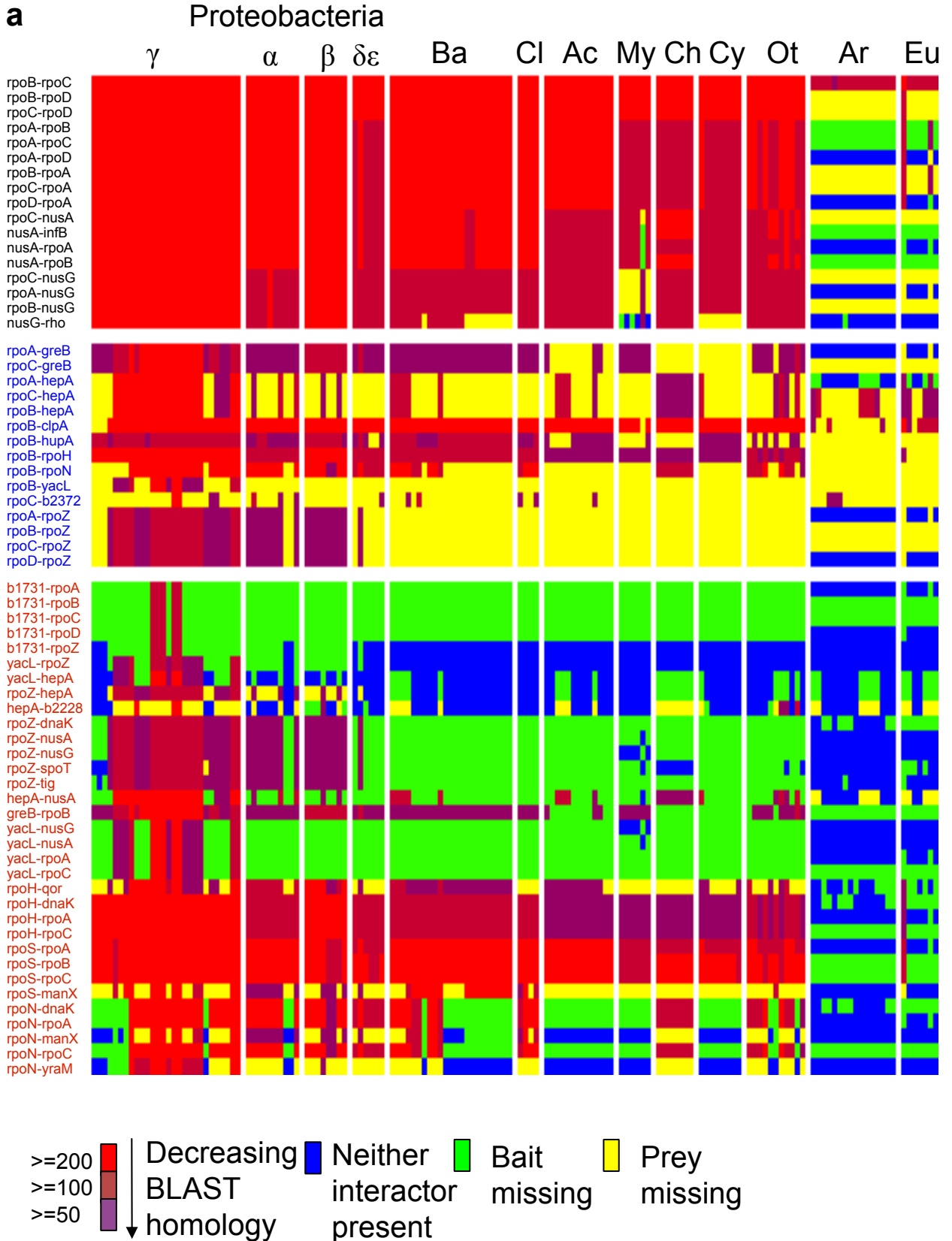
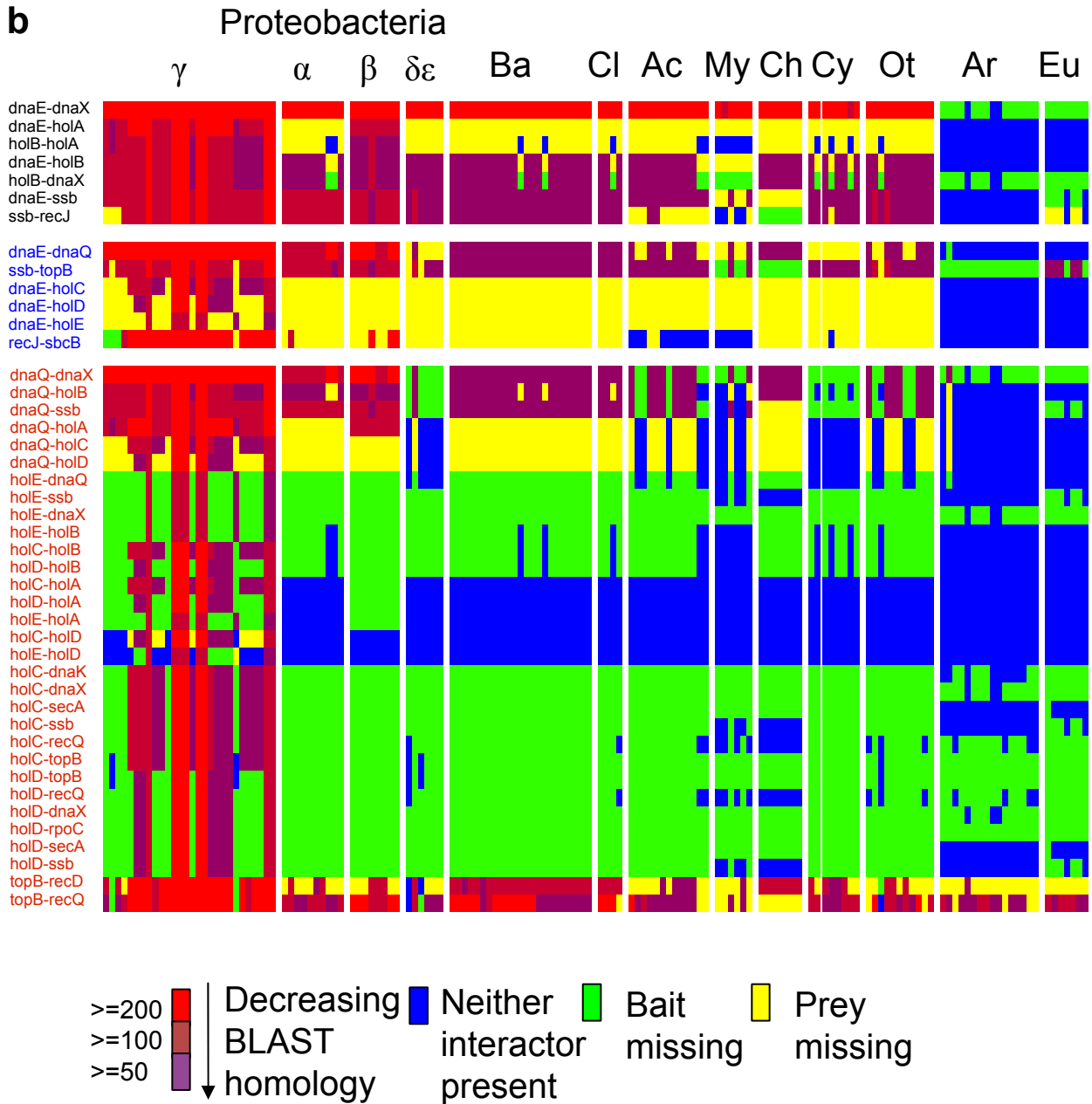


RNA Polymerase

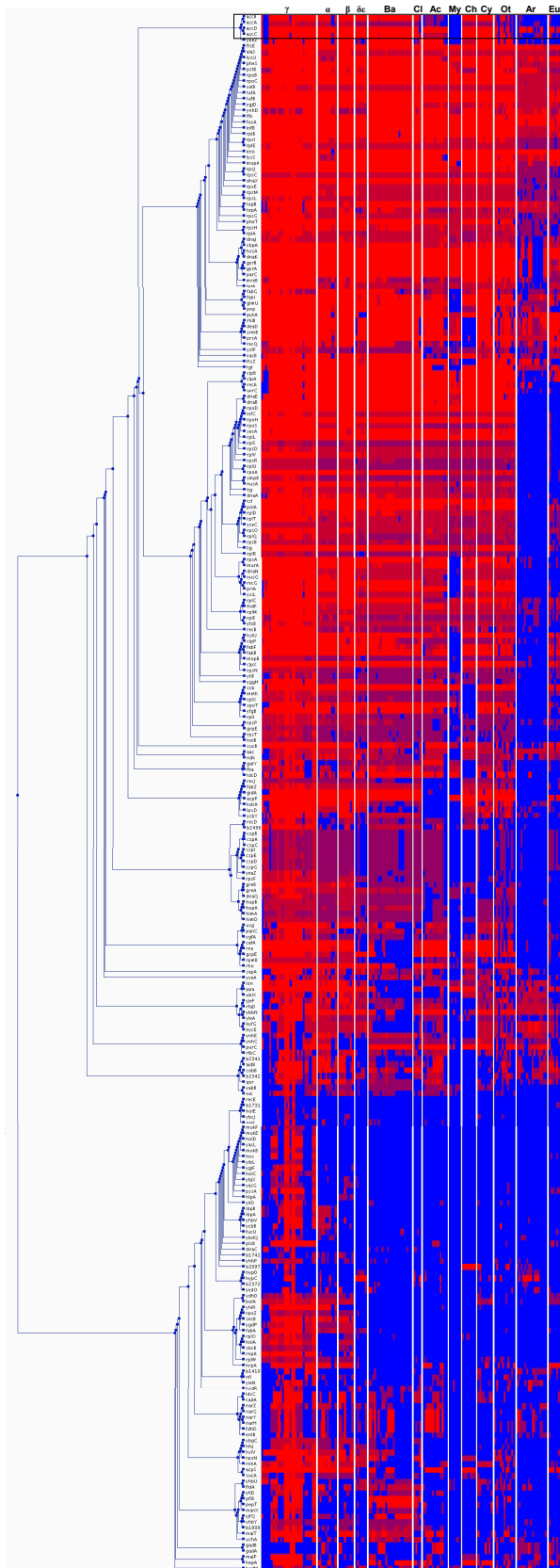


DNA Polymerase

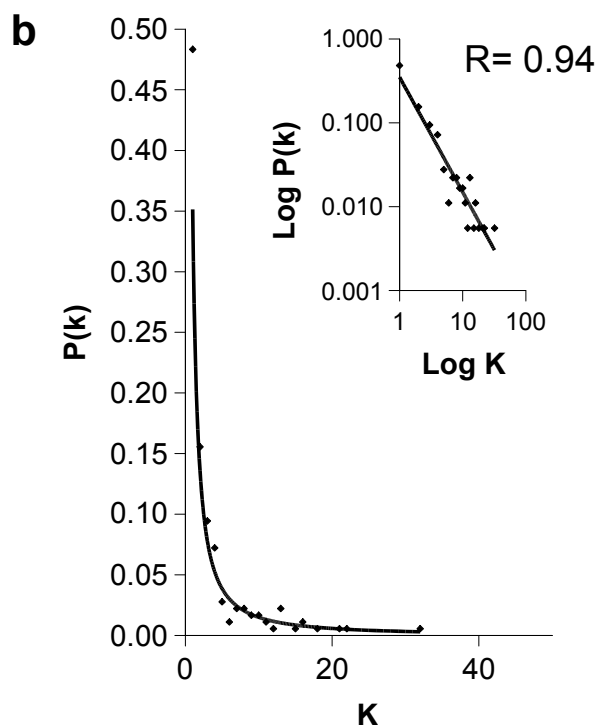
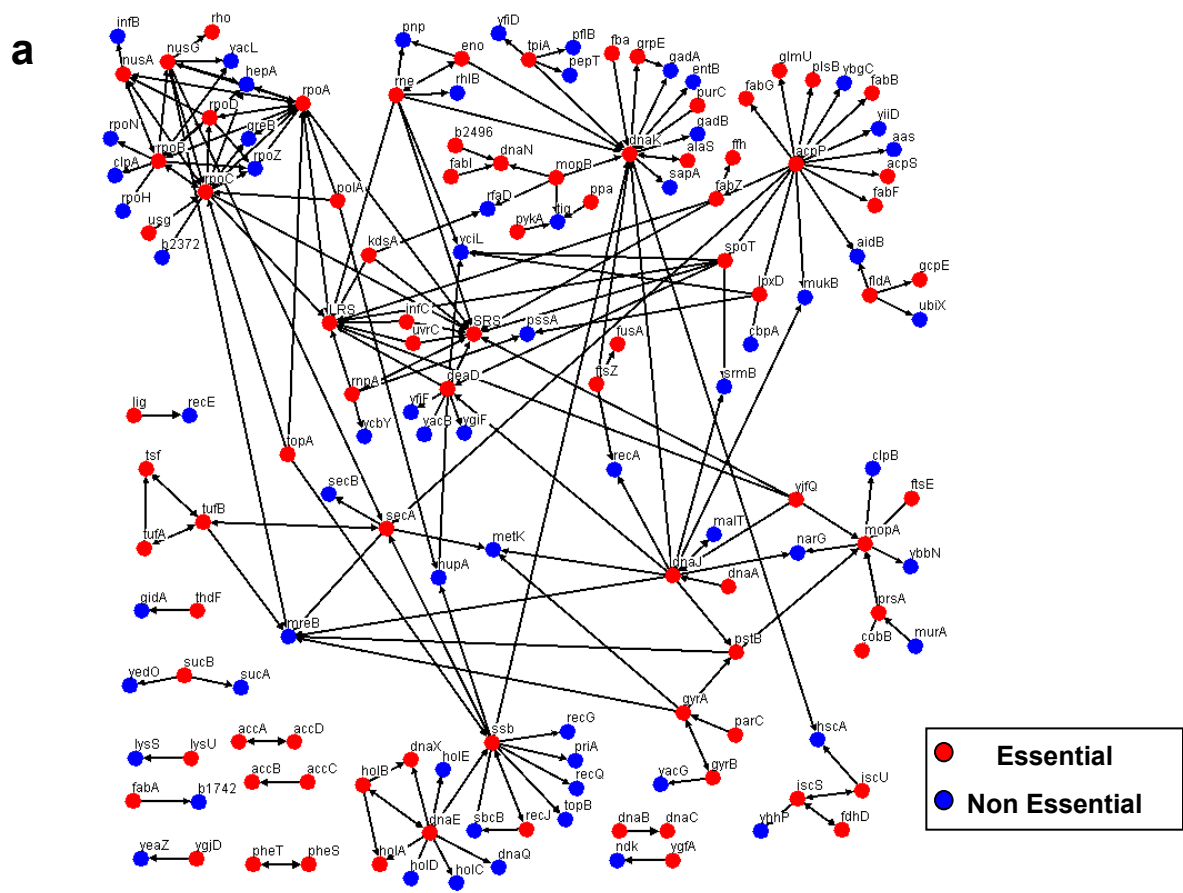


Supplementary Figure 1. Phylogenetic profiles of protein interactions associated with two complexes identified in this study

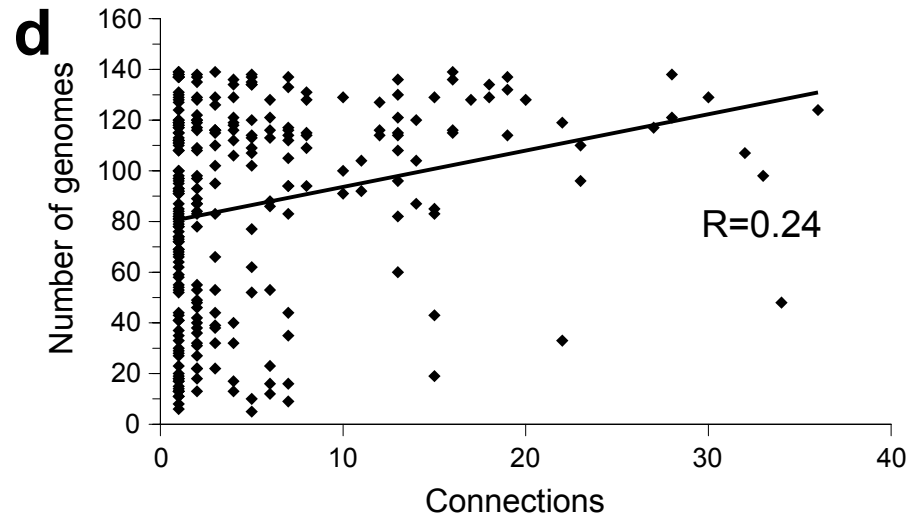
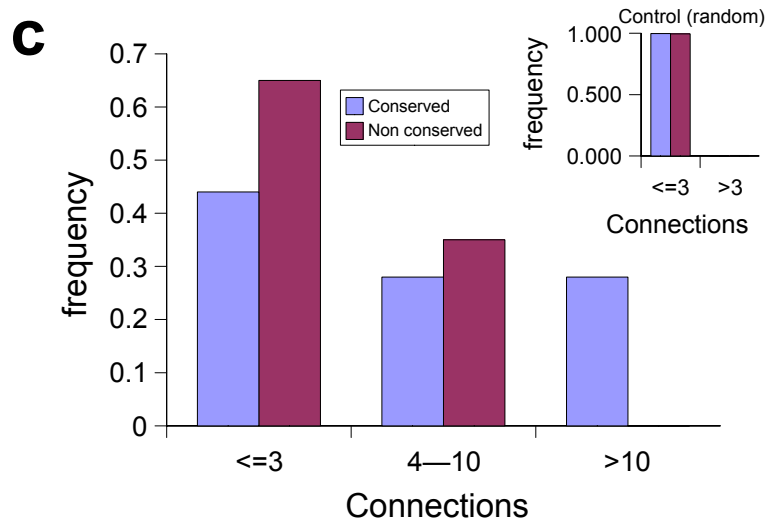
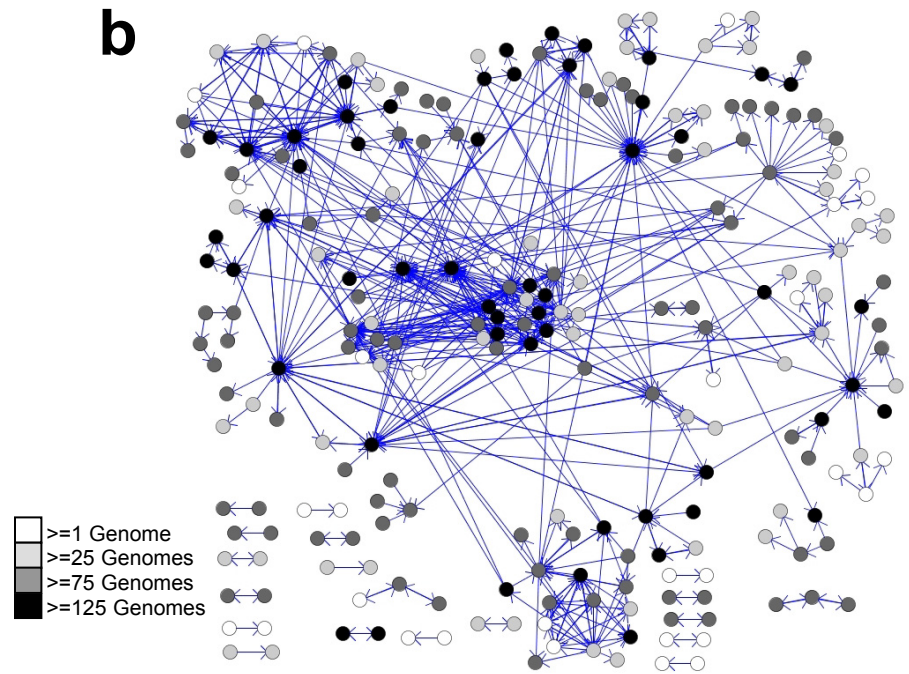
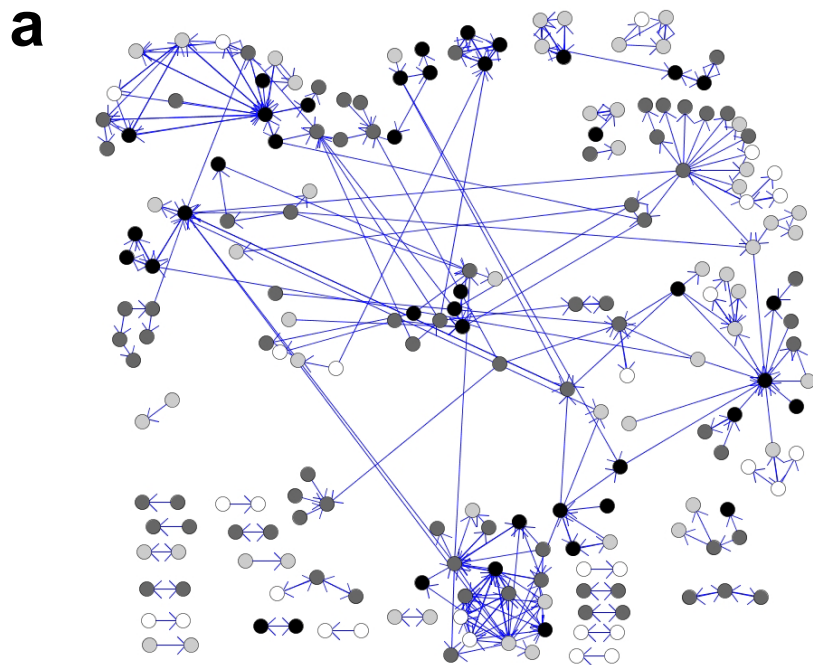
Proteobacteria



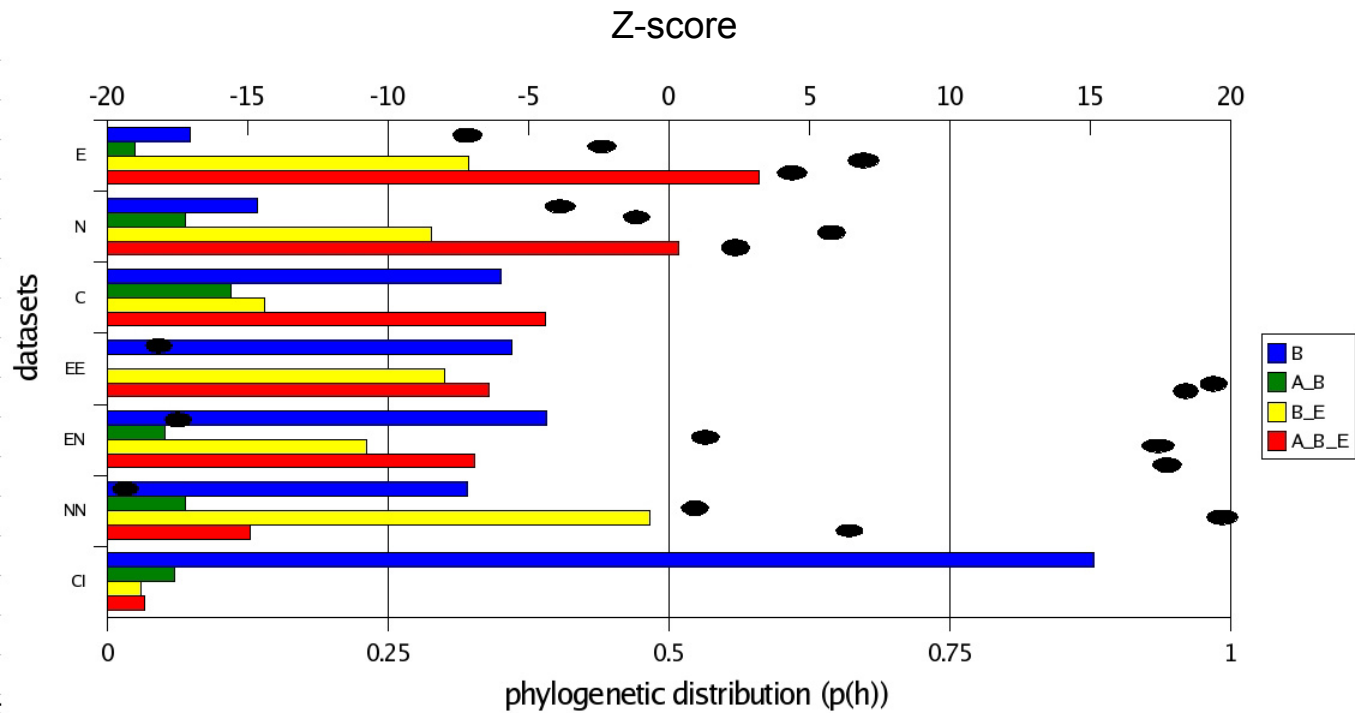
Supplementary Figure 2. Conservation profiles of interacting proteins



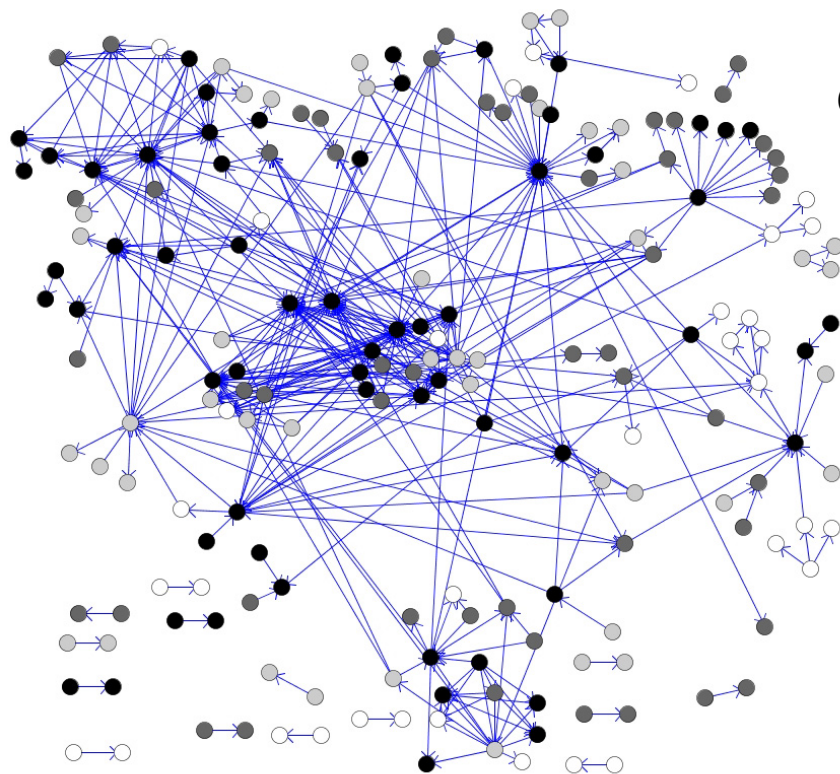
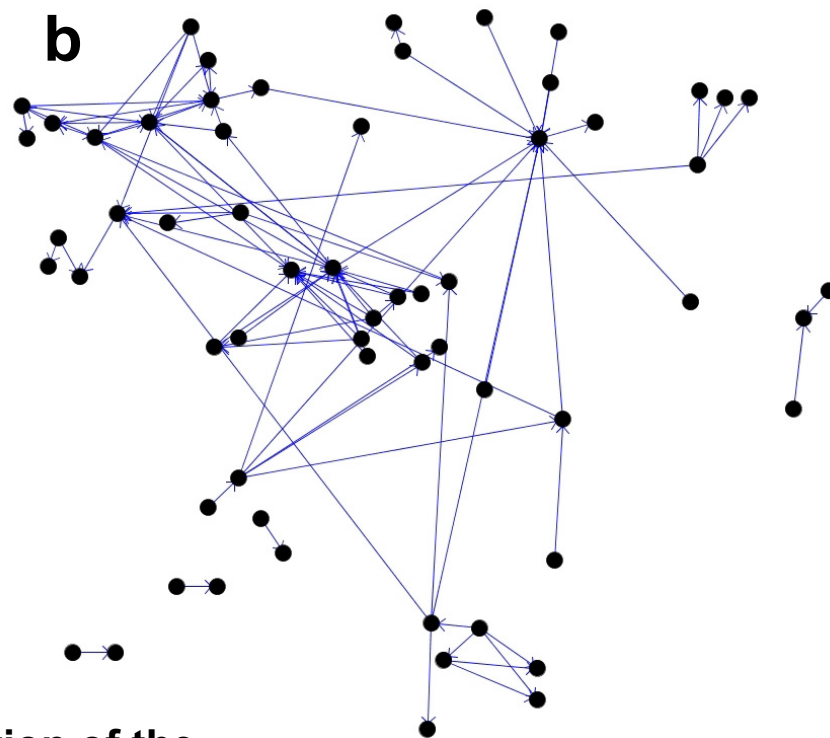
Supplementary Figure 3. Network properties of interacting essential, conserved bacterial proteins.



Supplementary Figure 4. Interaction network connectivity and robustness



Supplementary Figure 5. Conservation of proteins and protein-protein interactions.

a**COGs ID in ≥ 1 genome****COGs ID in ≥ 40 genomes****b**

Supplementary Figure 6. Graphical representation of the interaction network using COGs