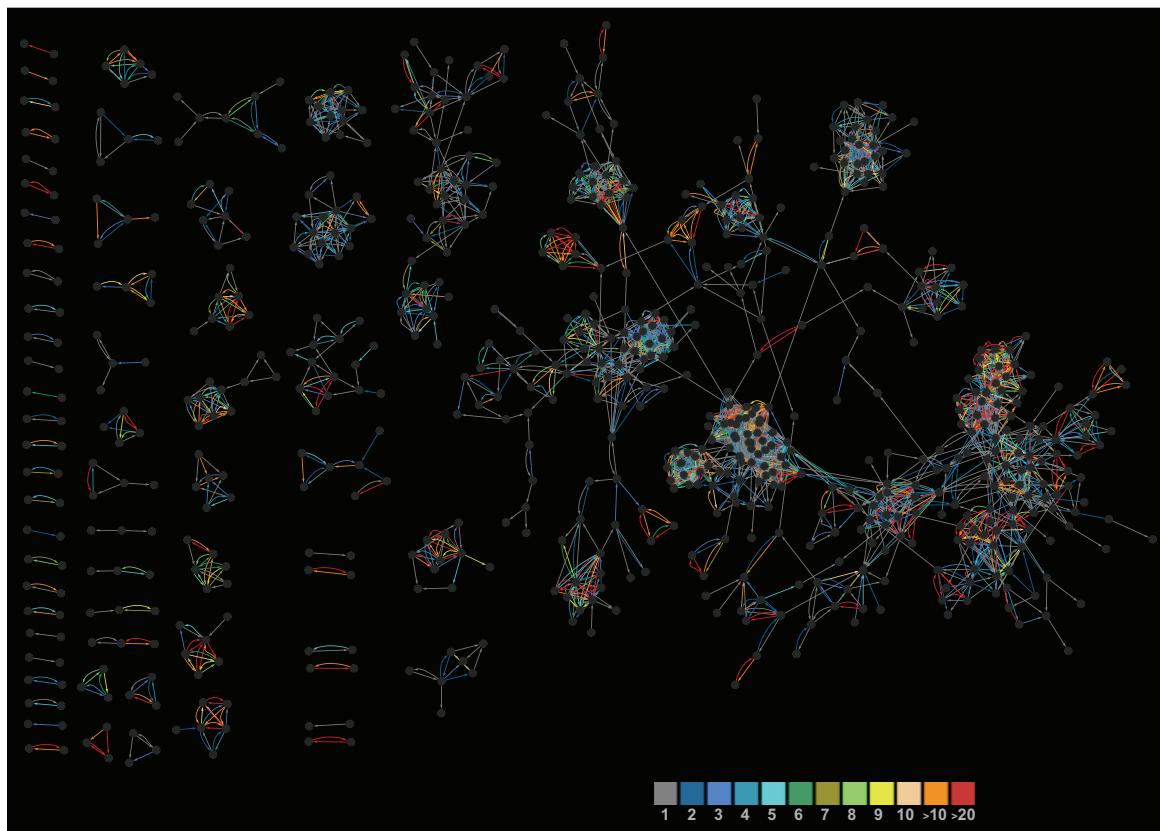


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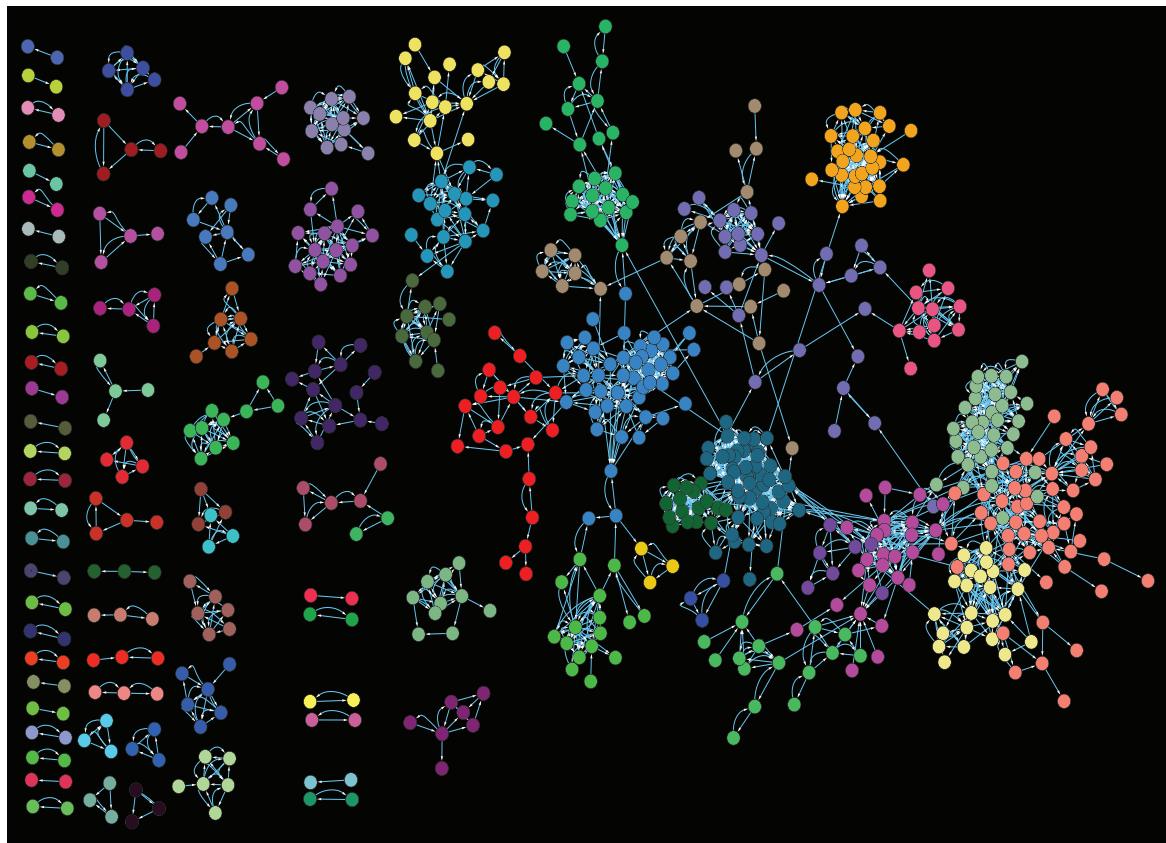
SUPPLEMENTARY MATERIAL

Figure S1. Edge weight in the directed network of recent lateral gene transfer
Edges in the network are colored by the number of genes transferred from the donor to the recipient that they connect (see color legend at the bottom).



SUPPLEMENTARY MATERIAL

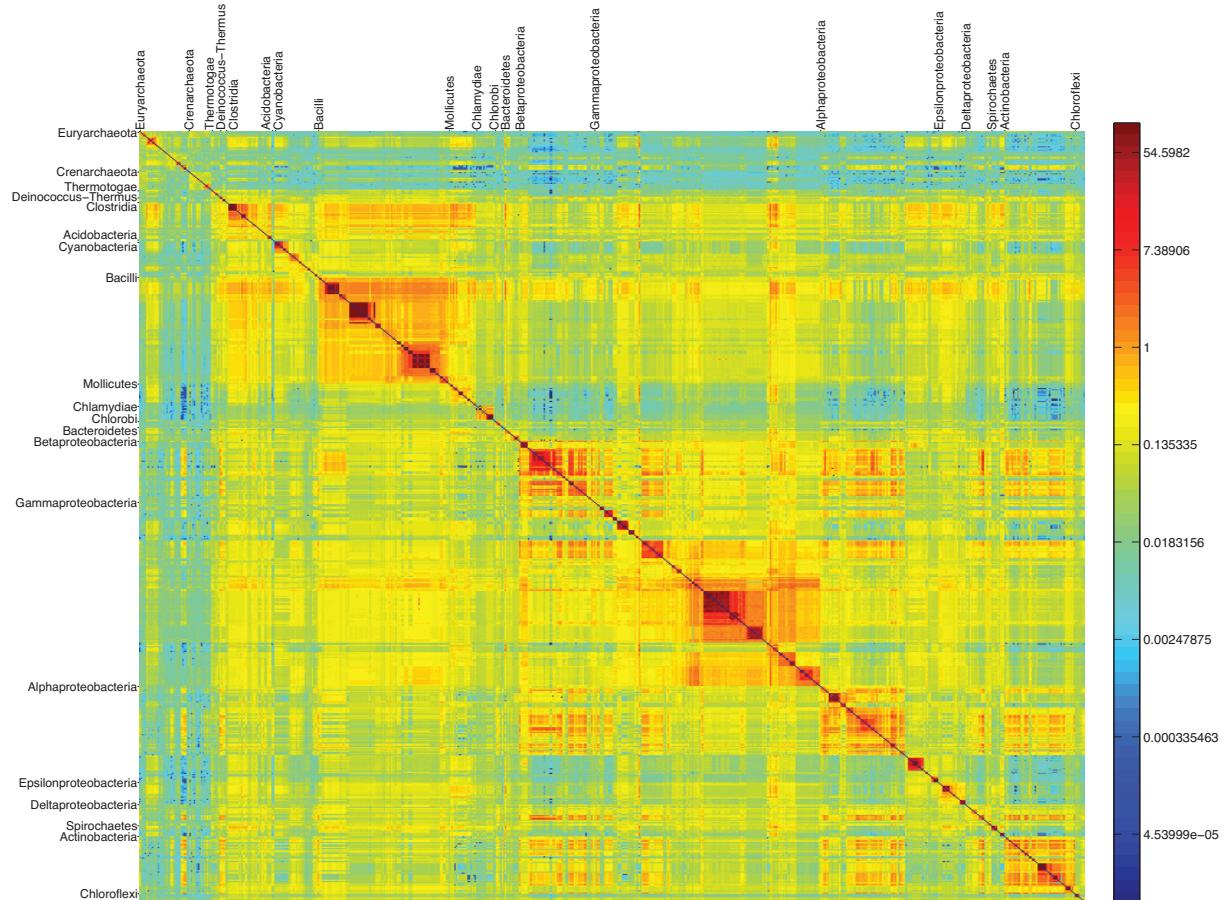
Figure S2. Community structure within the dLGT network.
Vertices that are grouped into the same module are colored the same.



SUPPLEMENTARY MATERIAL

Figure S3-A. Donor-recipient similarity by *Sgs*.

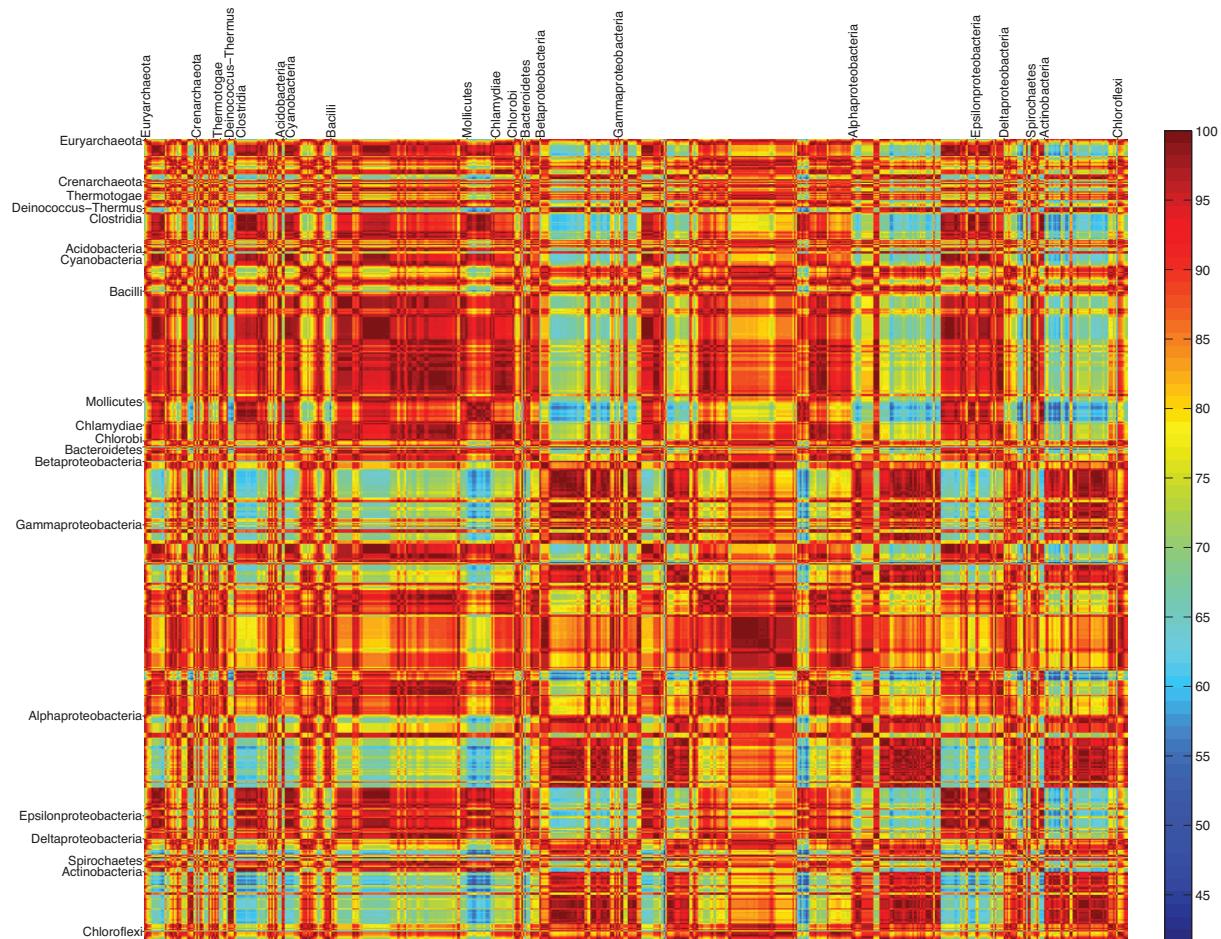
Color-coded matrix of donor (y-axis) and recipient (x-axis) genome similarity (S_{gs}) for all genome pairs, sorted by taxonomical classification.



SUPPLEMENTARY MATERIAL

Figure S3-B. Donor-recipient similarity by *Spr*.

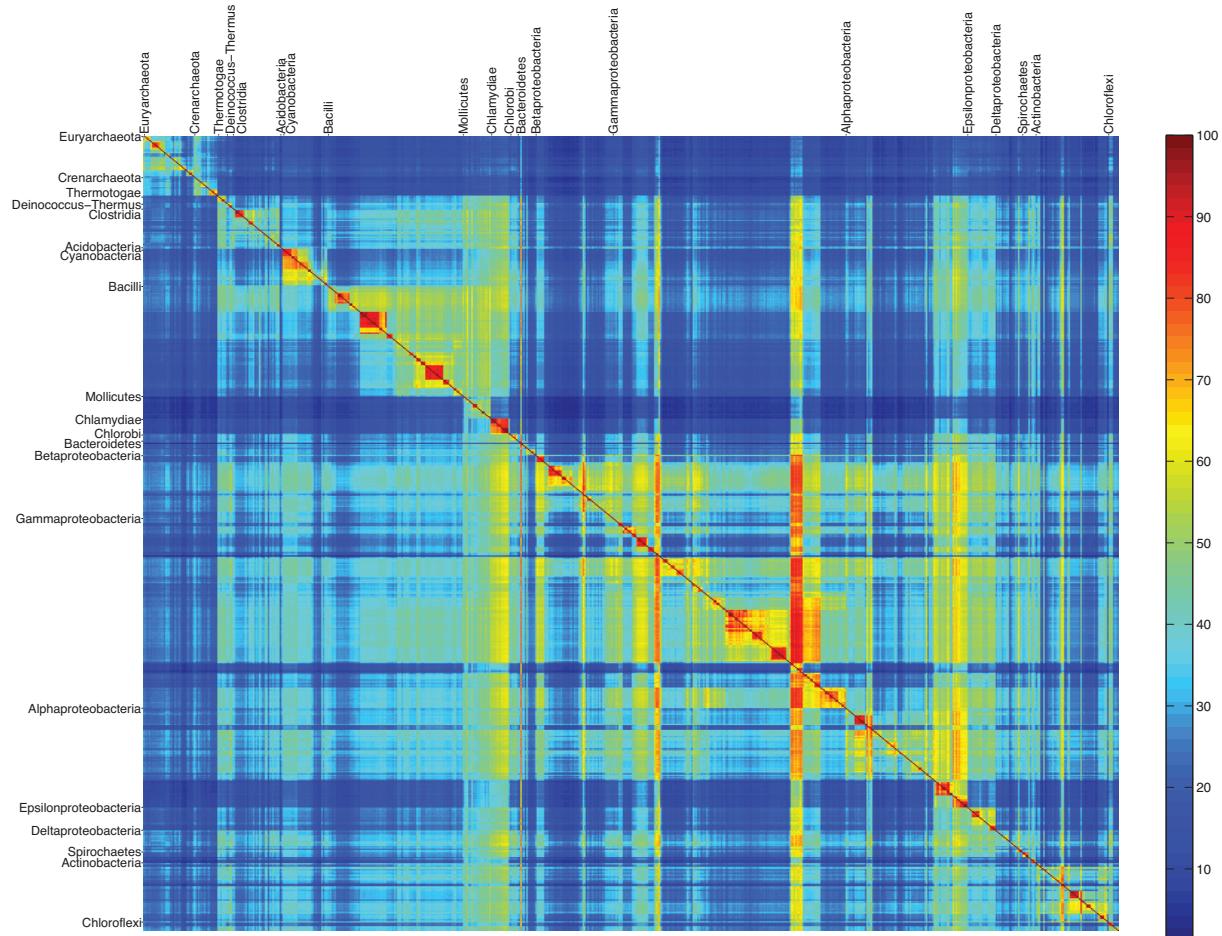
Color-coded matrix of donor (y-axis) and recipient (x-axis) proteome similarity(S_{pr}) for all genome pairs, sorted by taxonomical classification.



SUPPLEMENTARY MATERIAL

Figure S3-C. Donor-recipient similarity by S_{gc} .

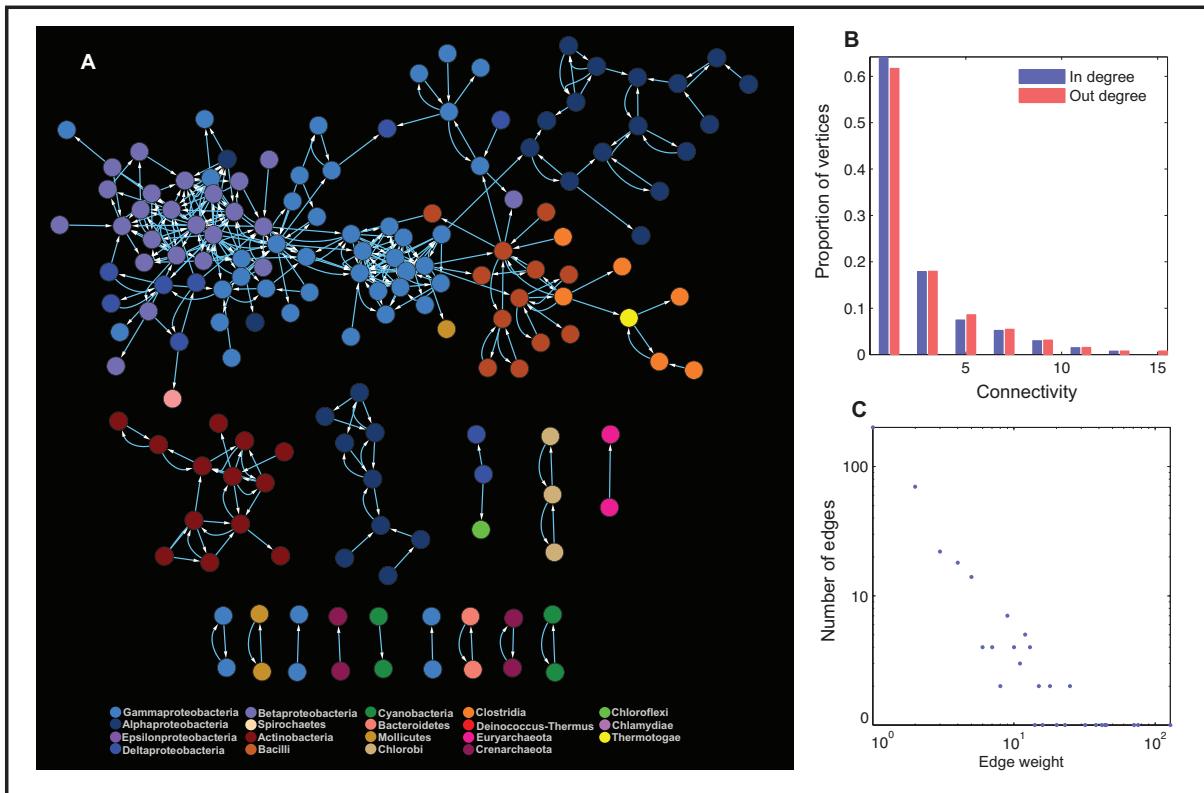
Color-coded matrix of donor (y-axis) and recipient (x-axis) GC content similarity (S_{gc}) for all genome pairs, sorted by taxonomical classification.



SUPPLEMENTARY MATERIAL

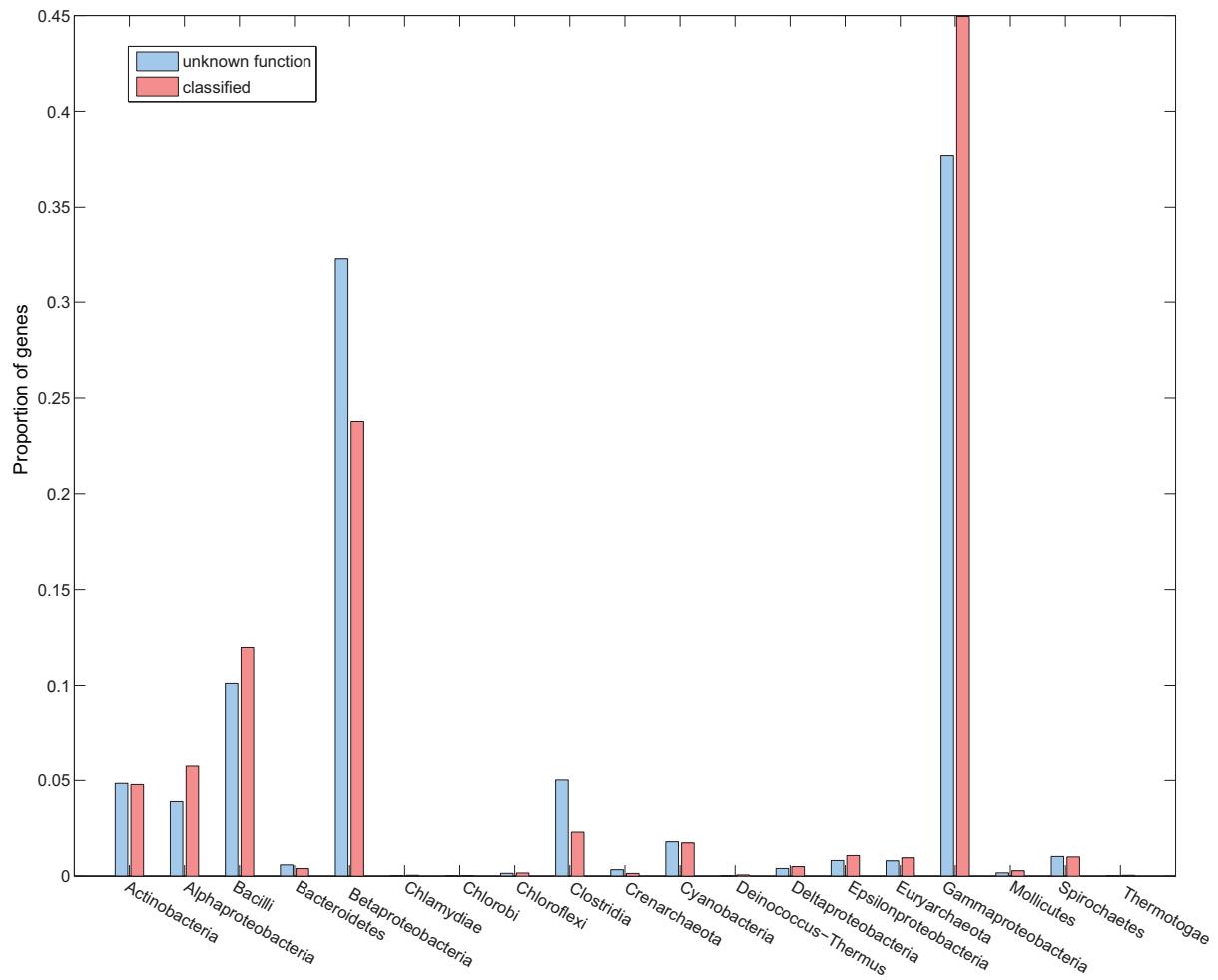
Figure S4. Intergeneric network.

(A) the intergeneric network. Each vertex represents all species from a certain genus. Edges represent one or more recent LGT between species from the genus-vertex they connect. (B) distribution of IN degree and OUT degree in the network. (C) Distribution of edge weight in the network.



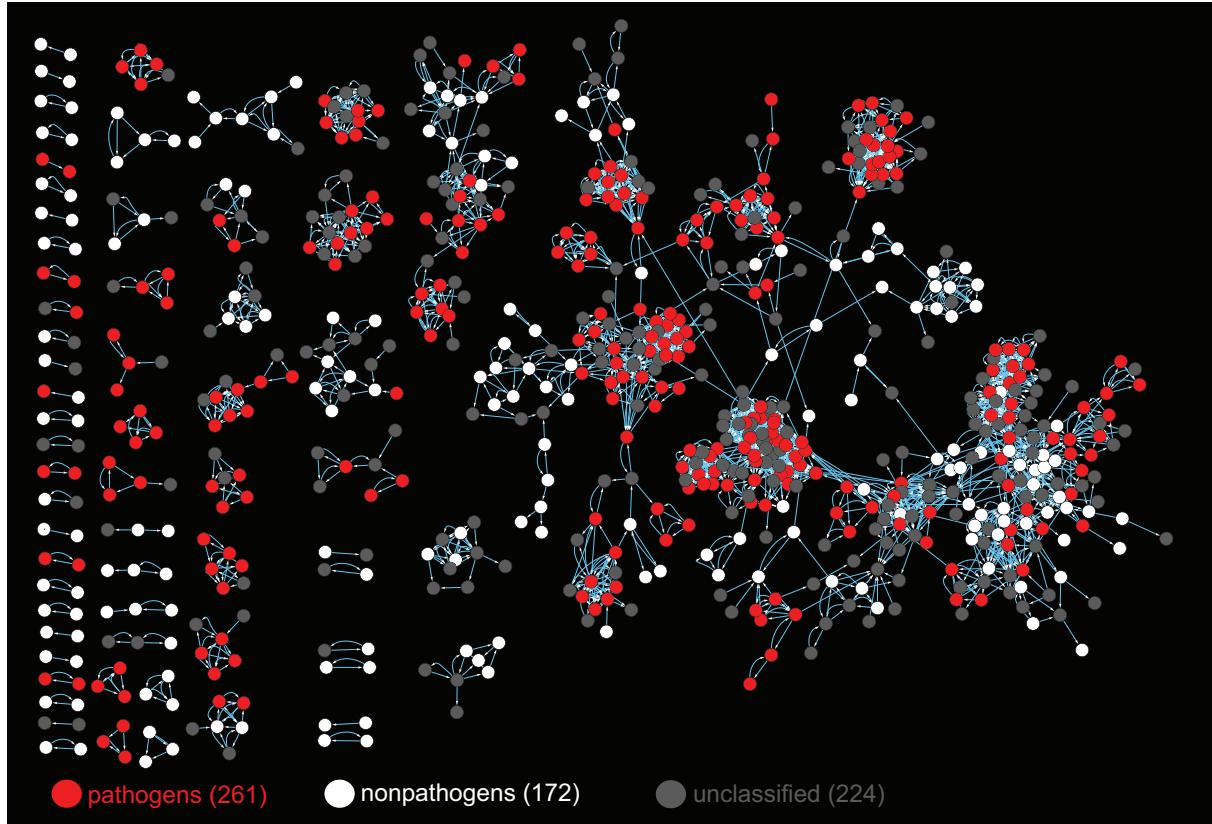
SUPPLEMENTARY MATERIAL

Figure S5. Distribution of transferred genes having unknown function across taxa.



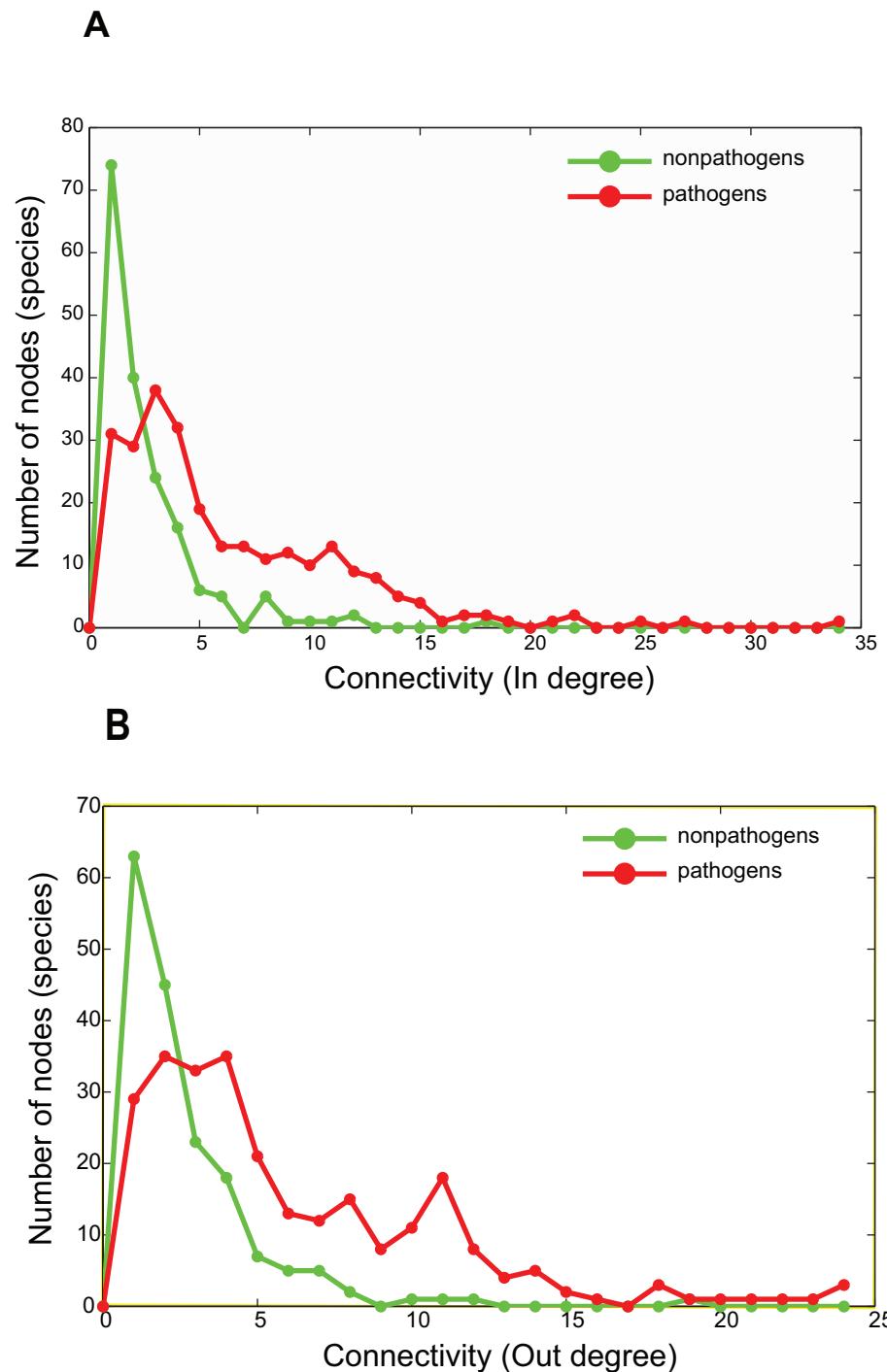
SUPPLEMENTARY MATERIAL

Figure S6. Pathogens and nonpathogens in the dLGT network.



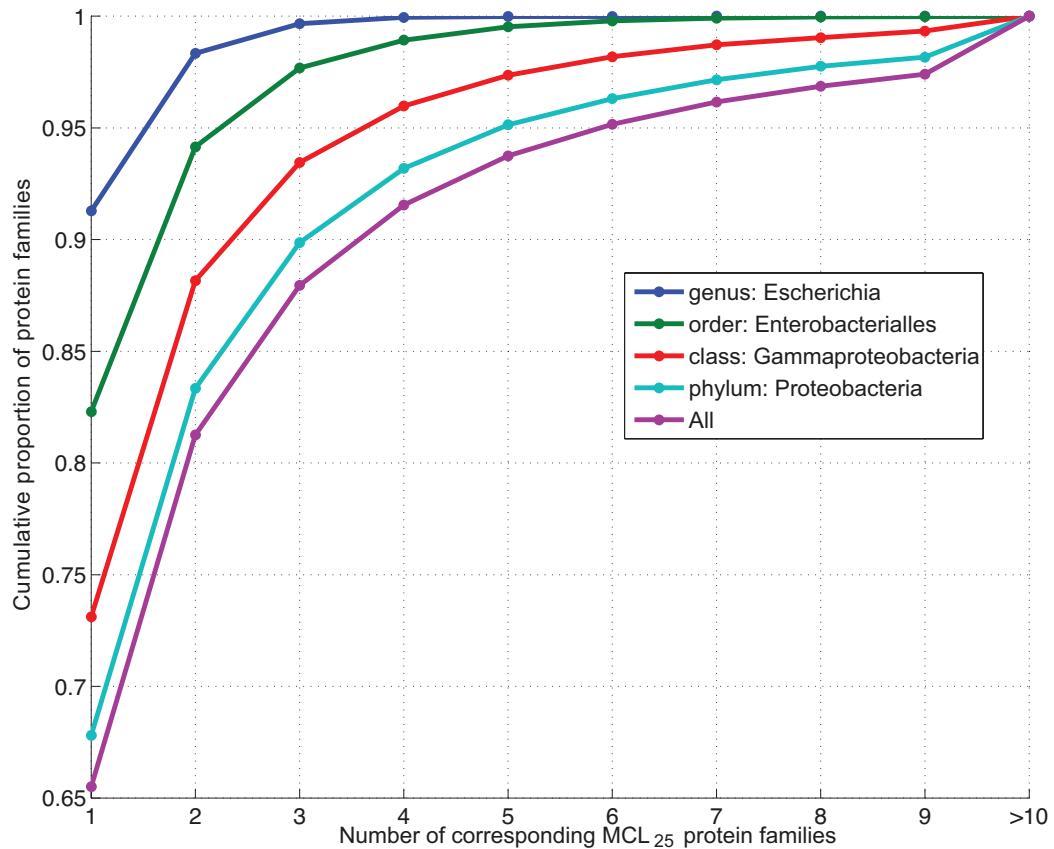
SUPPLEMENTARY MATERIAL

Figure S7. Distribution of IN and OUT degree in pathogens and nonpathogens



SUPPLEMENTARY MATERIAL

Figure S8. Overlap between the orthogroup by rBBH and MCL algorithms.

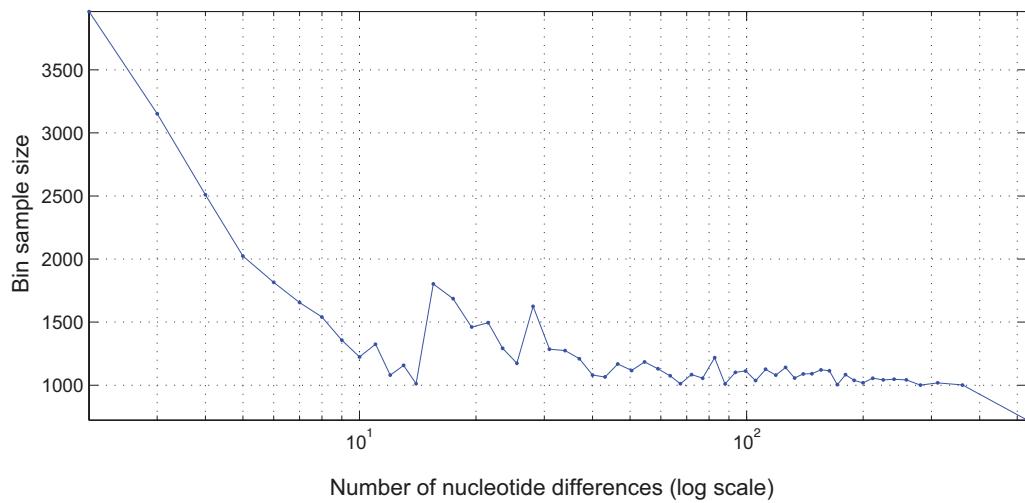


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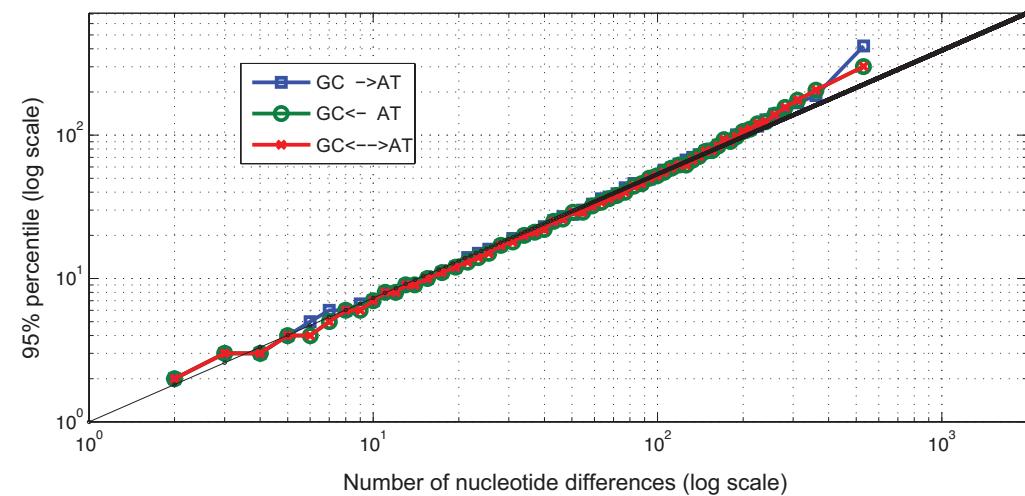
Figure S9. Model for change in GC content similarity as a function of evolutionary distance.

The top figure shows the distribution of sample size in the model. The figure at the bottom shows 95% percentile of GC content similarity for the samples at the top by the number of different nucleotides.

A



B



SUPPLEMENTARY MATERIAL

Figure S10. Phylogenetic inference of donor and recipient species.

