

**Table S1.** Characteristics of the phylogenomic network of 2616 prokaryote genomes based on rRNA genes only.

Threshold	Number of non-singleton nodes, $c$	Density, $D$	Size of the maximal clique, $z$	Number of cliques, $n$
0	2616	0.901	2356	N/A
1	2616	0.897	2356	N/A
2	2616	0.887	2344	N/A
3	2616	0.867	2332	N/A
4	2616	0.856	2291	N/A
5	2616	0.821	2045	N/A
6	2613	0.635	1321	N/A
7	2597	0.156	530	N/A
8	2509	0.054	299	45272
9	2162	0.012	185	289