

Table S.3: Information on phylogeny construction using different methods.

Group	Number of genes (characters) used in analysis					Supported By Supertree
	Select		Common		Supertree ^a	
	Gene	Characters	Gene	Characters	Genes	
<i>Bacillus</i>	7	9231	386	396175	3407	Common
<i>Brucella</i>	10	12576	591	669428	591	Common
<i>Burkholderia</i>	11	16755	634	679984	2126	Common
<i>Candidatus</i>	9	11553	134	167530	-	
<i>Chlamydomphila</i>	16	24405	637	738291	-	
<i>Clostridium</i>	11	15216	309	338459	1141	Common
<i>Corynebacterium</i>	16	24546	578	724565	-	
<i>Ehrlichia</i>	15	21306	517	577079	-	
<i>Escherichia</i>	14	20556	1700	1673111	2980	Select
<i>Helicobacter</i>	14	20613	584	650282	-	
<i>Lactobacillus</i>	13	19326	339	376764	923	Neither
<i>Mycobacterium</i>	13	20751	607	679689	-	
<i>Mycoplasma</i>	9	12780	79	108760	433	Neither
<i>Prochlorococcus</i>	14	21993	617	706435	-	
<i>Pseudomonas</i>	16	23553	579	660179	3102	Neither
<i>Rhodopseudomonas</i>	13	19371	1140	1237551	-	
<i>Rickettsia</i>	15	20736	266	326738	-	
<i>Salmonella</i>	16	23118	1580	1570712	-	
<i>Shigella</i>	13	19155	1476	1459347	2608	Common
<i>Staphylococcus</i>	13	17559	565	596478	1902	Select
<i>Streptococcus</i>	12	17961	400	431646	1690	Neither
<i>Synechococcus</i>	15	21090	630	735413	-	
<i>Vibrio</i>	13	19386	971	1036551	1780	Common
<i>Xanthomonas</i>	5	5235	321	377134	-	
<i>Yersinia</i>	14	23118	1260	1308476	2752	Neither

^aIf the select-genes tree is topologically identical to the common-genes tree, a supertree was not constructed.