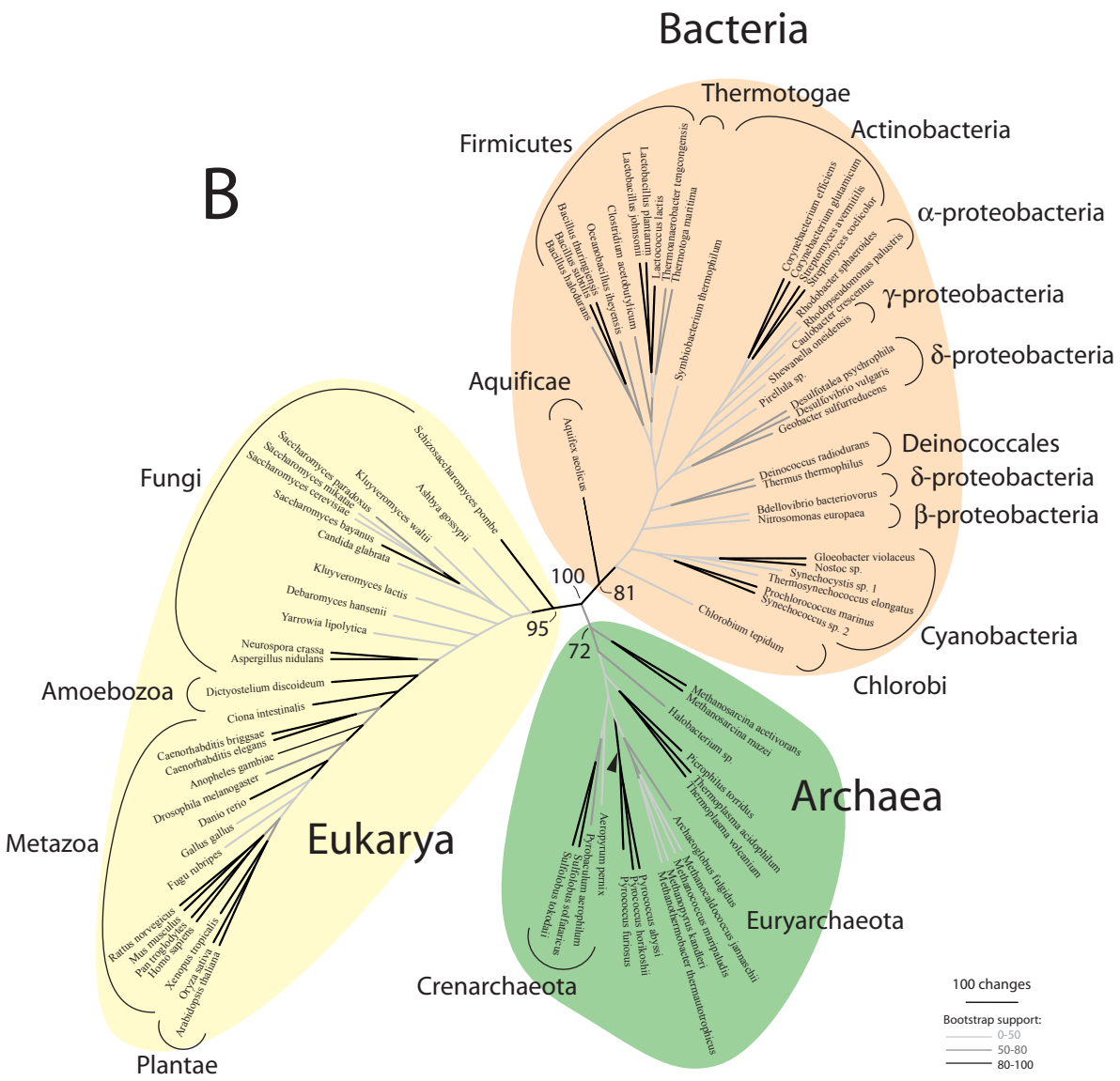
B
Bacteria
Thermotogae
Actinobacteria
Firmicutes
α-proteobacteria
γ-proteobacteria
δ-proteobacteria
Aquificae
Deinococcales
δ-proteobacteria
β-proteobacteria
Cyanobacteria
Chlorobi
Fungi
Amoebozoa
Metazoa
Plantae
Eukarya
Archaea
Euryarchaeota
Crenarchaeota
100
81
95
72
Bacillus haloduranS
Bacillus subtilis
Bacillus thuringiensis
Oceanobacillus iheyensis
Clostridium acetobutylicum
Lactobacillus johnsonii
Lactobacillus plantarum
Lactococcus lactis
Thermanaerobacter tengcongensis
Thermotoga maritima
Symbiobacterium thermophilum
Corynebacterium efficiens
Corynebacterium glutamicum
Streptomyces avermitilis
Streptomyces coelicolor
Stratiomyces spheroides
Rhodobacter sphaeroides
Rhodopseudomonas palustris
Caulobacter crescentus
Shewanella oneidensis
Pirellula sp.
Desulfotalea psychrophila
Desulfovibrio vulgaris
Geobacter sulfurreducens
Aquifex aeolicus
Deinococcus radiodurans
Thermus thermophilus
Bdellovibrio bacteriovorus
Nitrosomonas europaea
Gloeobacter violaceus
Nostoc sp.
Synechocystis sp. 1
Thermosynechococcus elongatus
Prochlorococcus marinus
Synechococcus sp. 2
Chlorobium tepidum
Schizosaccharomyces pombe
Saccharomyces paradoxus
Saccharomyces mikatae
Saccharomyces cerevisiae
Saccharomyces bayanus
Candida glabrata
Kluyveromyces waltii
Ashbya gossypii
Kluyveromyces lactis
Debaromyces hansenii
Yarrowia lipolytica
Neurospora crassa
Aspergillus nidulans
Dictyostelium discoideum
Ciona intestinalis
Caenorhabditis briggsae
Caenorhabditis elegans
Anopheles gambiae
Drosophila melanogaster
Danio rerio
Gallus gallus
Fugu rubripes
Rattus norvegicus
Mus musculus
Pan troglodytes
Homo sapiens
Xenopus tropicalis
Oryza sativa
Arabidopsis thaliana
Methanosarcina acetivorans
Methanosarcina mazei
Halobacterium sp.
Picrophilus torridus
Thermoplasma acidophilum
Thermoplasma volcanium
Archaeoglobus fulgidus
Methanocaldococcus jannaschii
Methanococcus maripaludis
Methanopyrus kandleri
Methanothermobacter thermautotrophicus
Pyrococcus abyssi
Pyrococcus horikoshii
Pyrococcus furiosus
Aeropyrum pernix
Pyrobaculum aerophilum
Sulfolobus solfataricus
Sulfolobus tokodaii
100 changes
Bootstrap support:
0-50
50-80
80-100

Figure S3B