

Major facilitator protein
388 sites
272 taxa
LG+C50+G

Excavates
Fornicates
Eukaryotes
Bacteria
Archaea

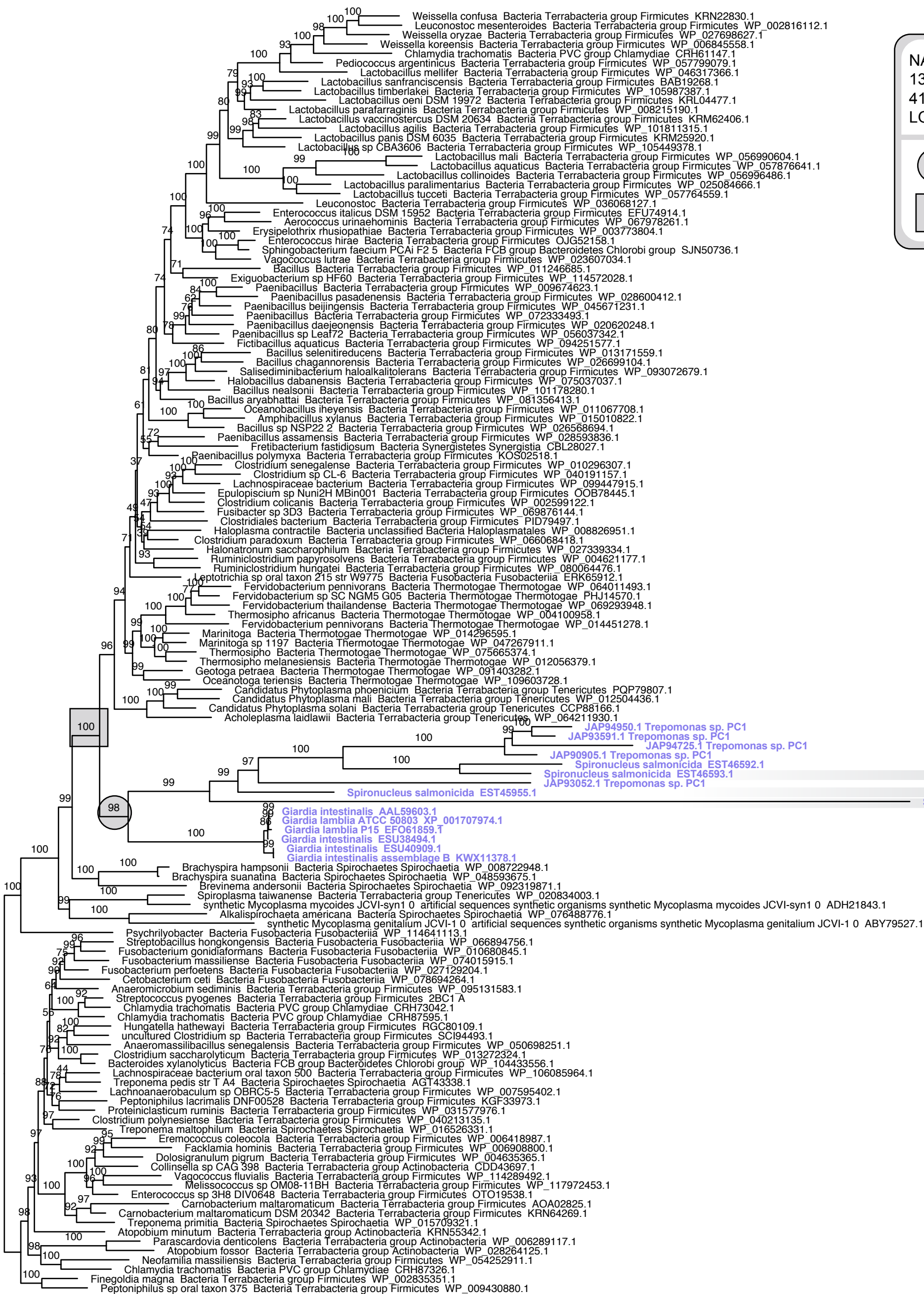
Bipartition supporting
Diplomonad monophyly

MatE
 382 sites
 289 taxa
 LG+C50+G

Excavates
 Fornicates
 Eukaryotes
 Bacteria
 Archaea

Bipartition supporting sister relationship to prokaryotes

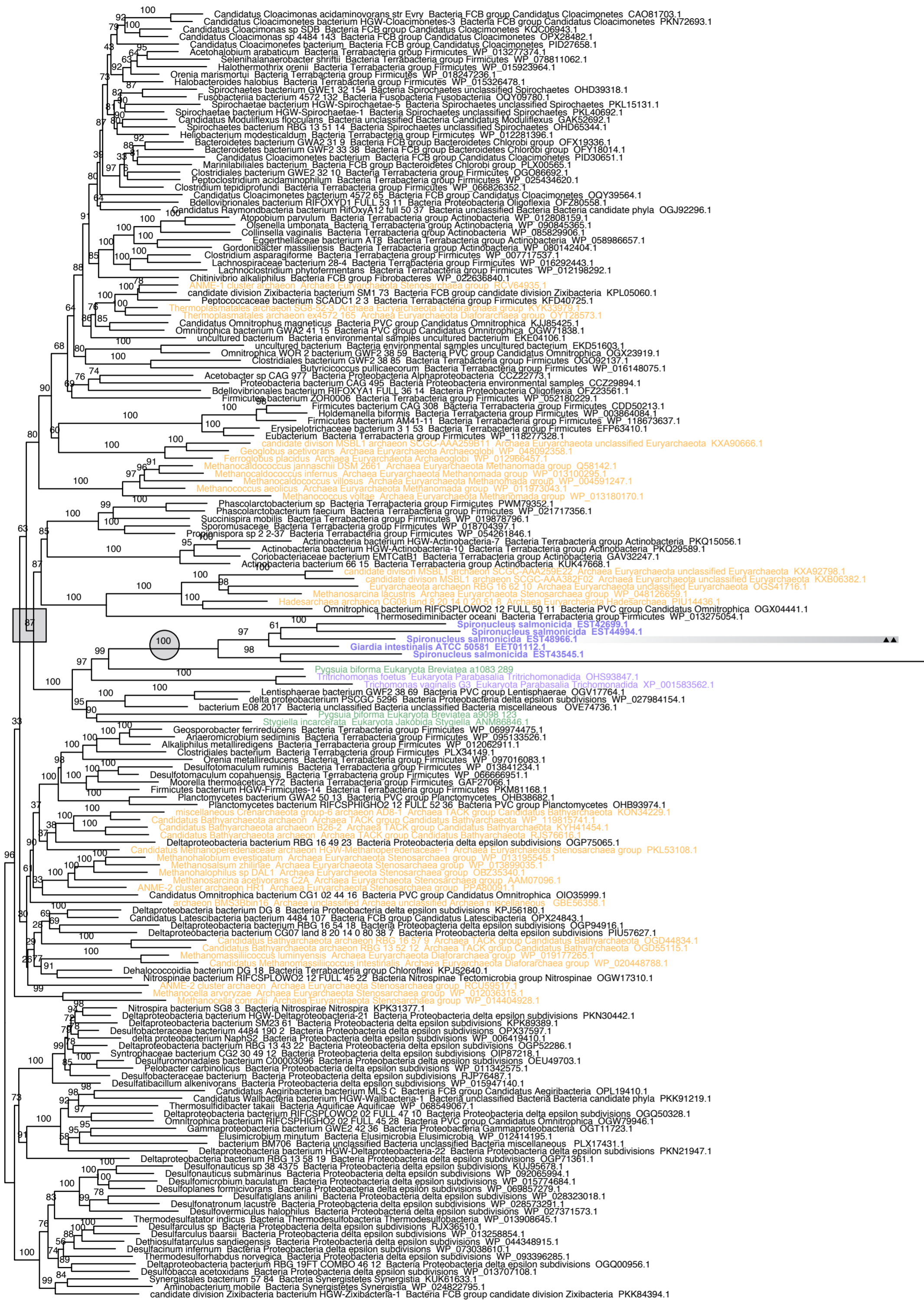




NADH oxidase
137 sites
417 taxa
LG+C60+R6

Excavates
Fornicates
Eukaryotes
Bacteria
Archaea

○ Bipartition supporting Diplomonad monophyly
□ Bipartition supporting sister relationship to prokaryotes



Flavodiiron Protein
348 sites
171 taxa
LG+C60+G

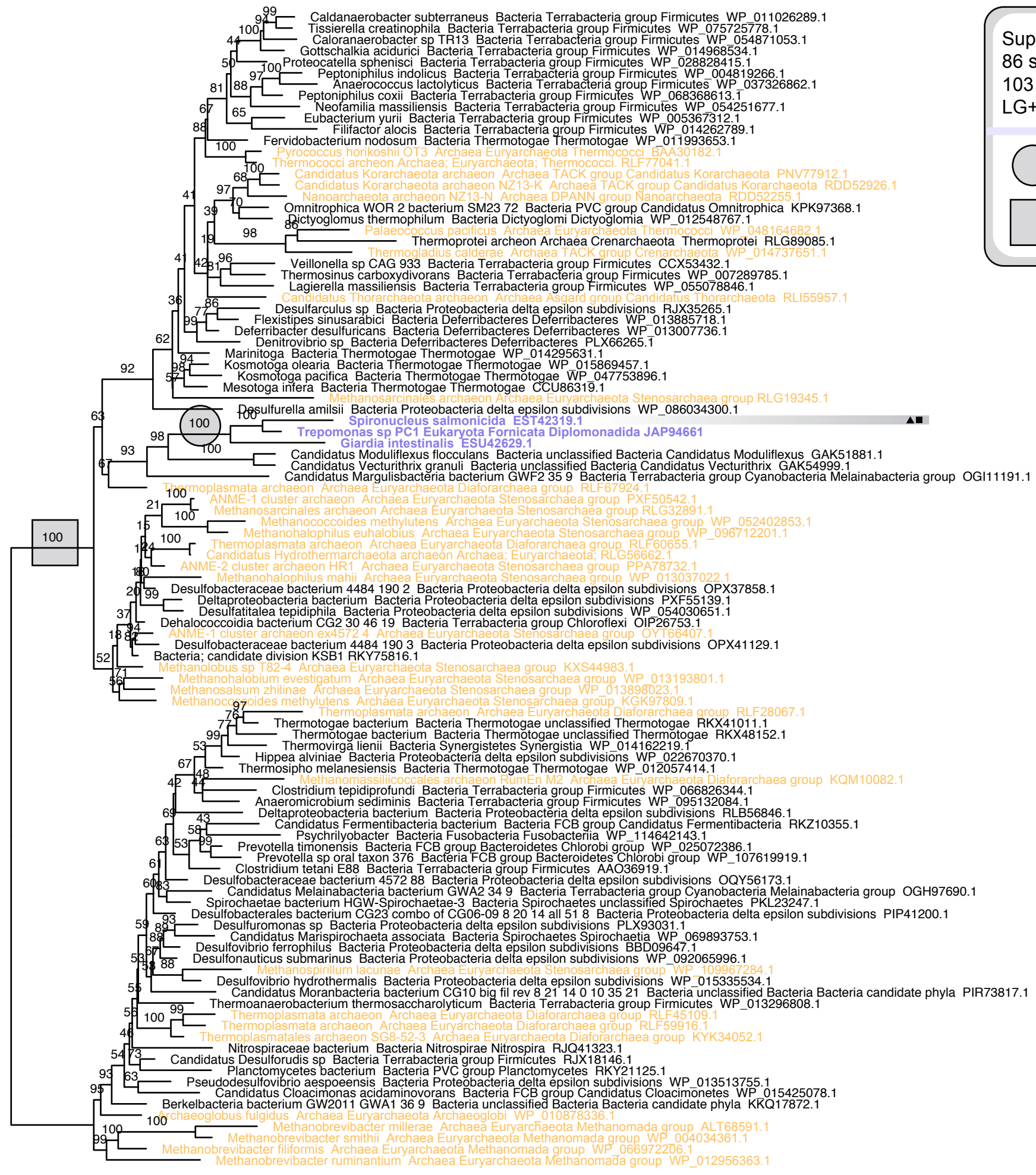
Excavates
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○ Bipartition supporting Diplomonad monophyly
□ Bipartition supporting sister relationship to prokaryotes

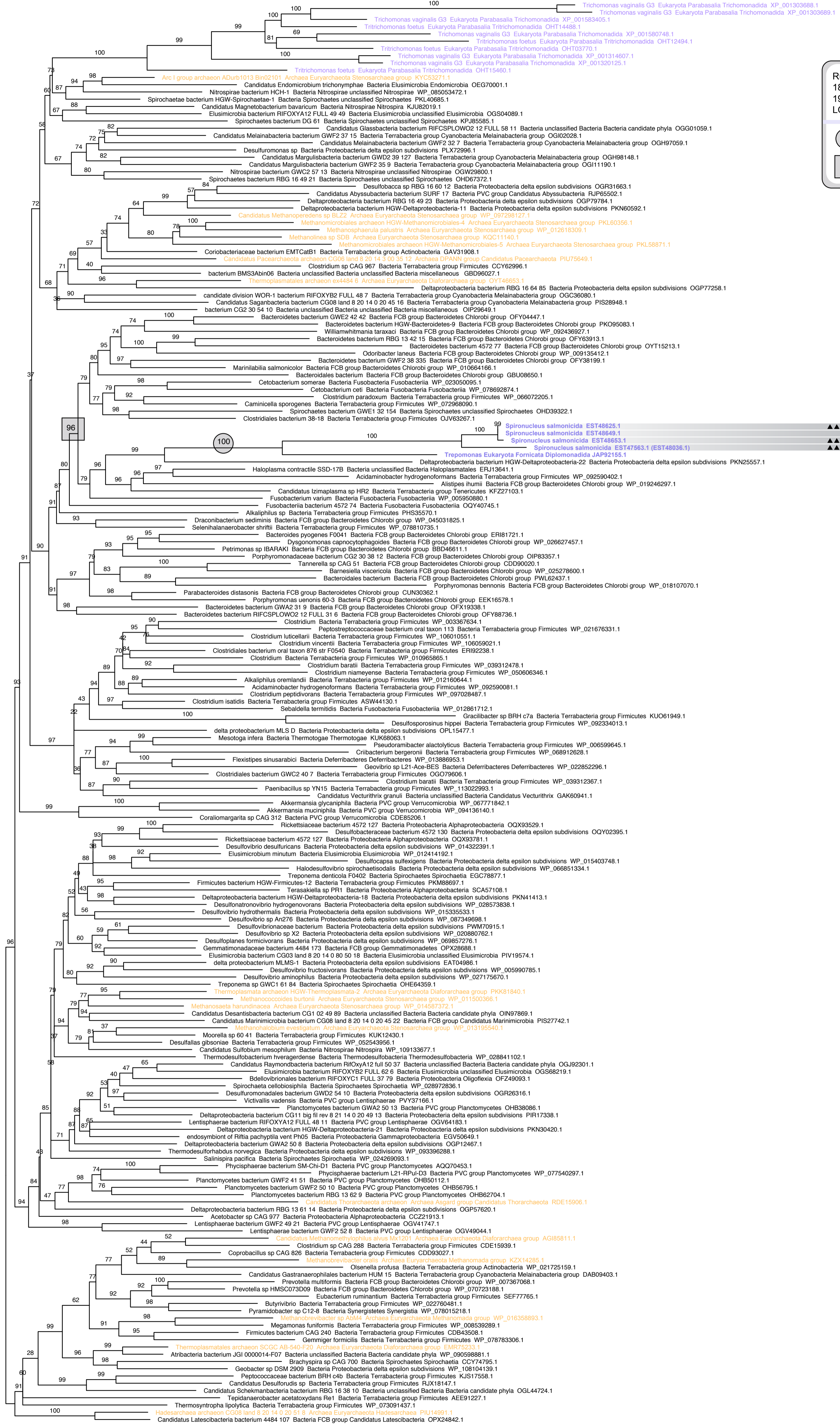
Superoxide reductase
86 sites
103 taxa
LG+C50+G

Excavates
Fornicates
Eukaryotes
Bacteria
Archaea

○ Bipartition supporting Diplomonad monophyly
□ Bipartition supporting sister relationship to prokaryotes



0.4



Rubryerthrin
180 sites
196 taxa
LG+C60+F+I+G

Excavates
Fornicates
Eukaryotes
Bacteria
Archaea

● Bipartition supporting Diplomonad monophyly
■ Bipartition supporting sister relationship to prokaryotes