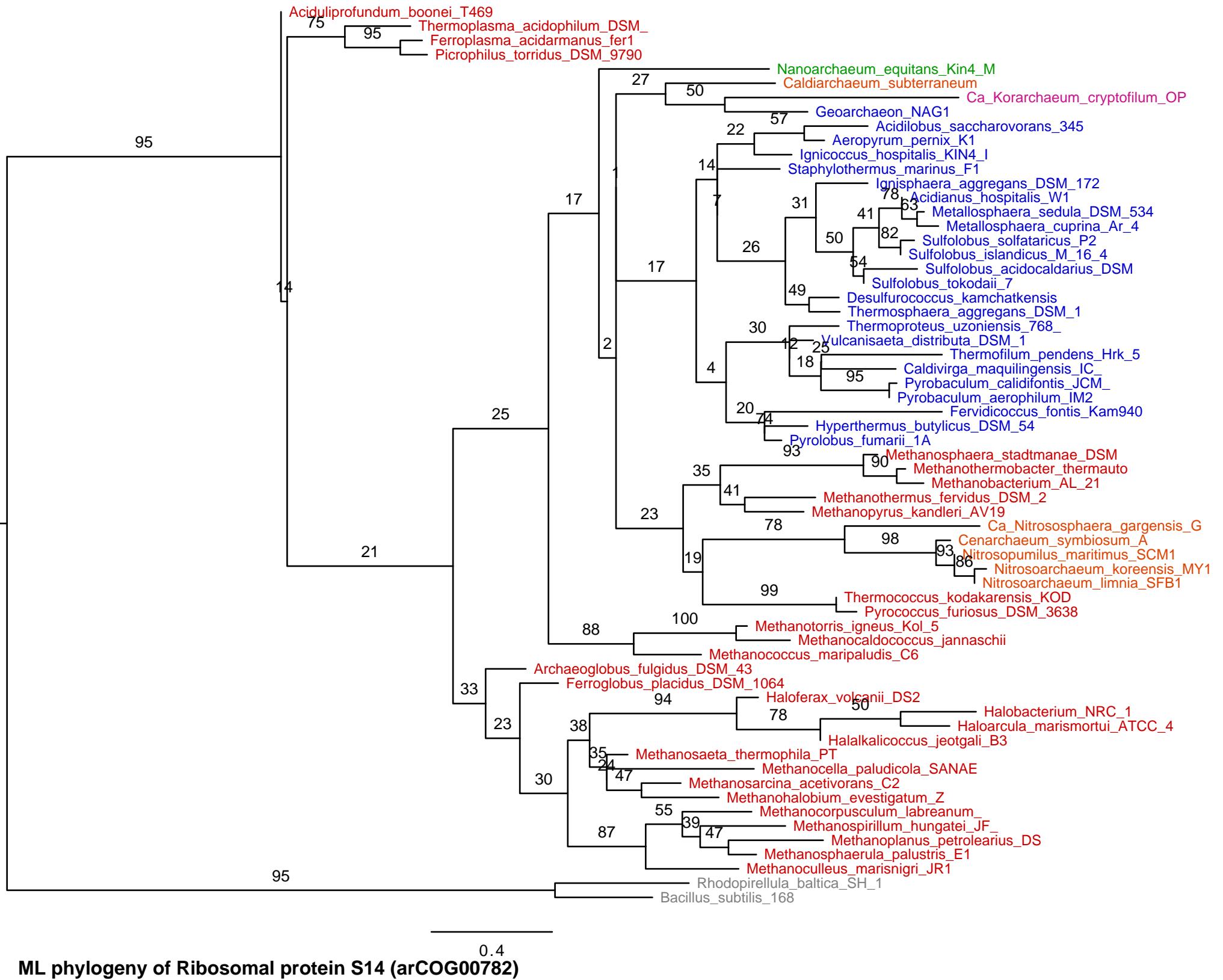
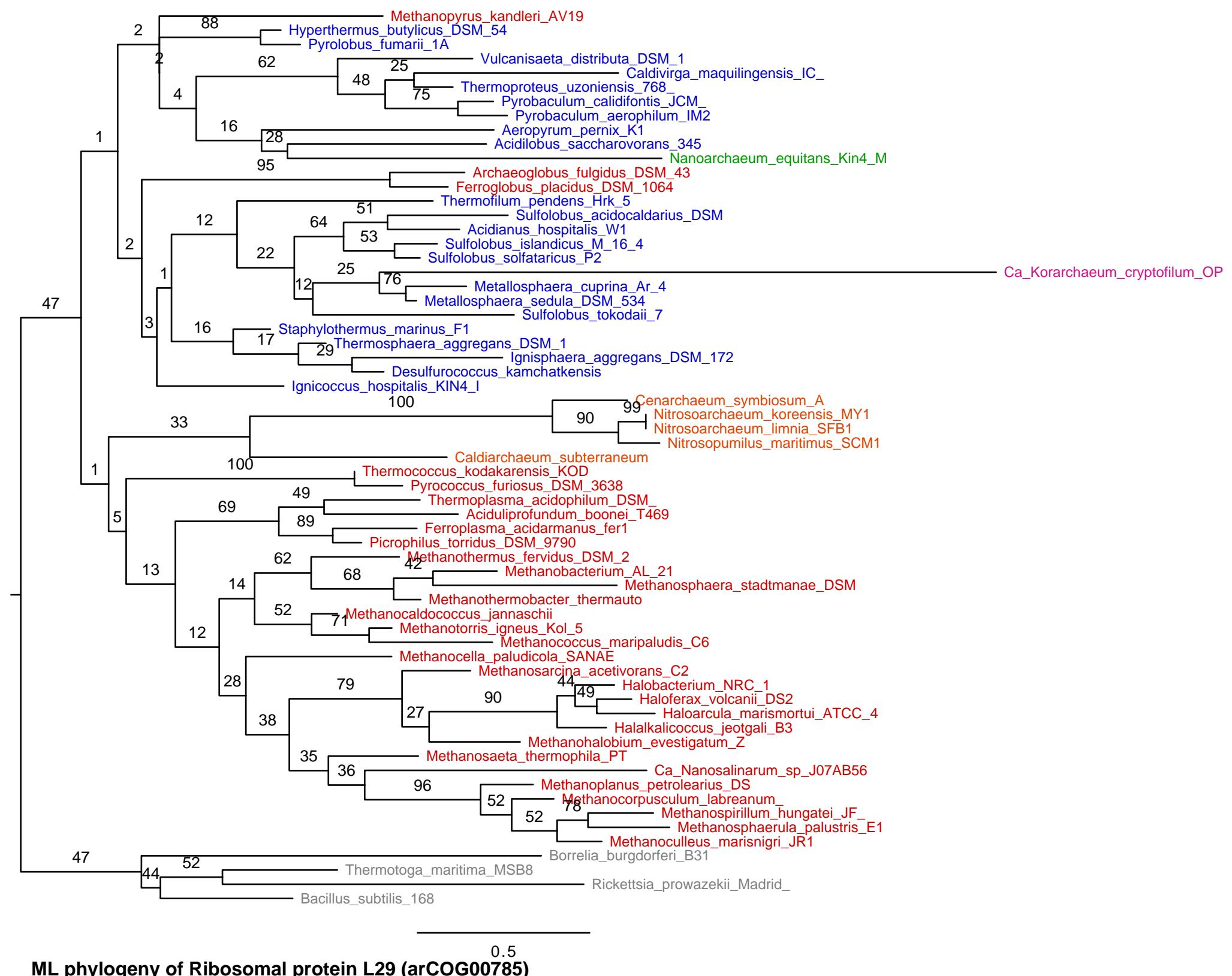
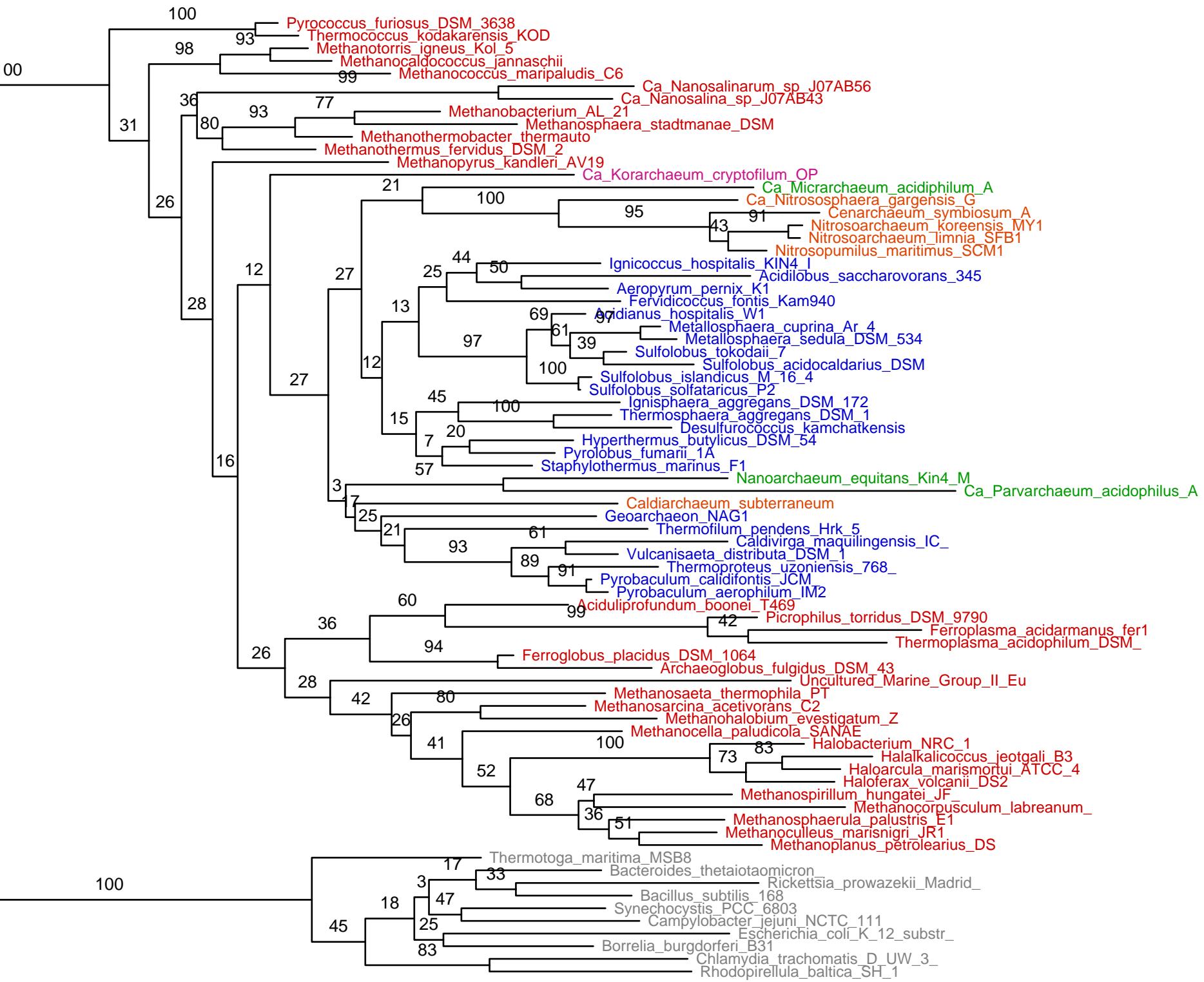
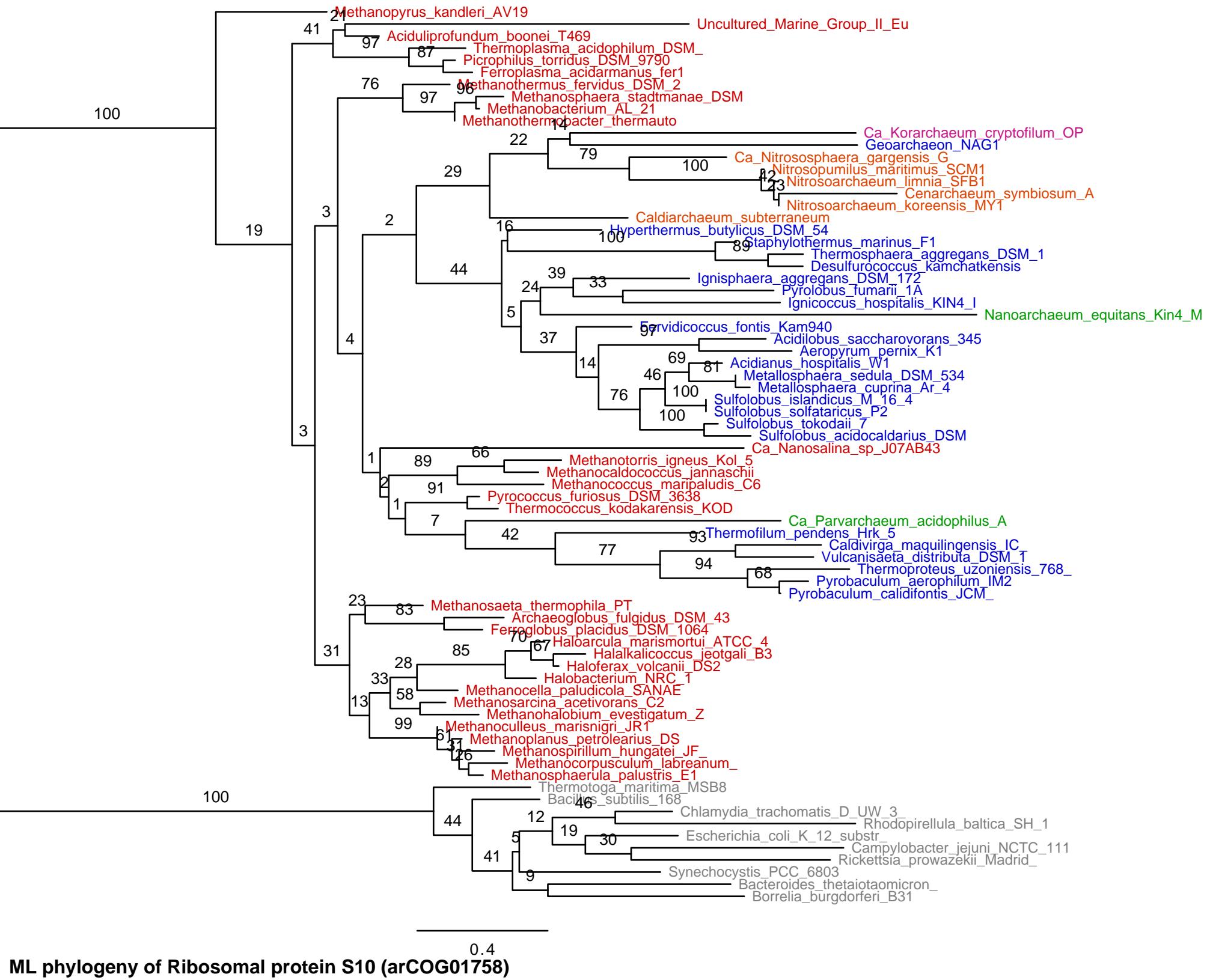


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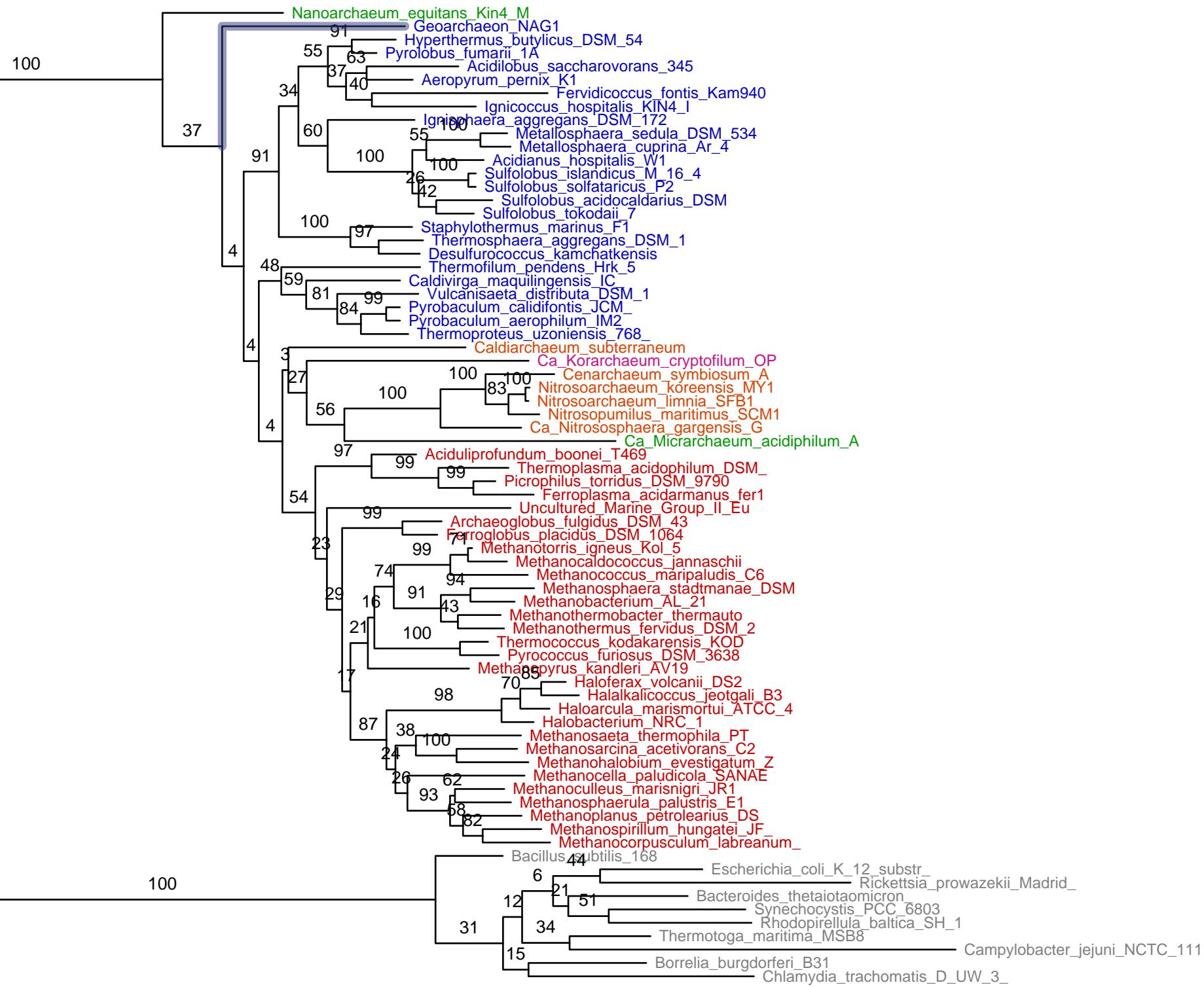


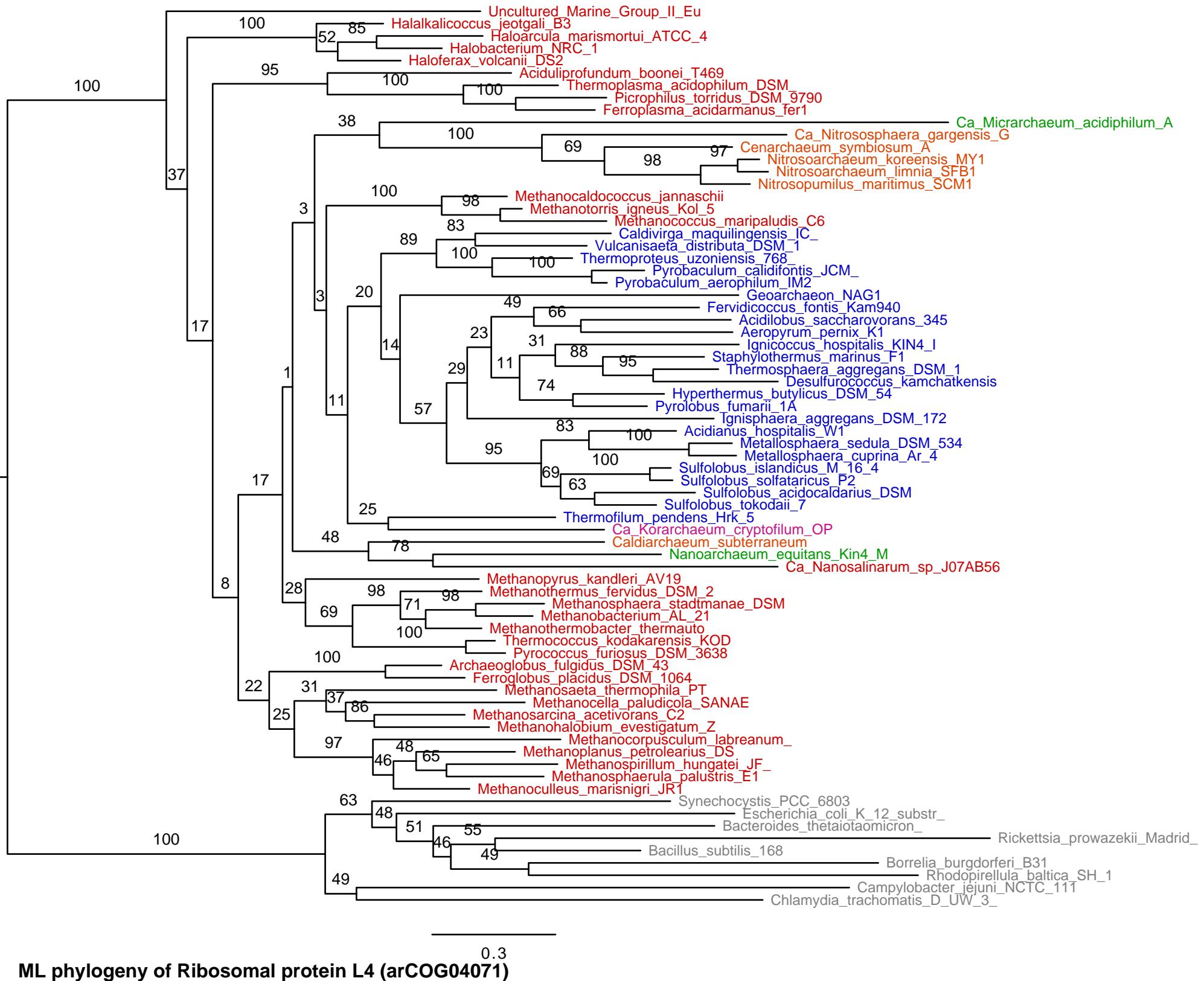












Uncultured\_Marine\_Group\_II\_Eu

Aciduliprofundum\_boonei\_T469

Methanopyrus\_kandleri\_AV19

Ca\_Parvarchaeum\_acidophilus\_A

75

Nitrosoarchaeum\_koreensis\_MY1

Cenarchaeum\_symbiosum\_A

Nitrosopumilus\_maritimus\_SCMT

Nitrosoarchaeum\_limnia\_SFB1

Ca\_Nitrososphaera\_gärgensis\_G

1

5

21

100

Nanoarchaeum\_equitans\_Kin4\_M

2

4

11

3

3

5

6

7

35

69

36

3

36

Thermococcus\_kodakarensis\_KOD

Pyrococcus\_furiosus\_DSM\_3638

Ca\_Korarchaeum\_cryptofilum\_OP

Methanocaldococcus\_jannaschii

Methanotorris\_igneus\_Kol\_5

Methanococcus\_maripaludis\_C6

Caldiarchaeum\_subterraneum

98

61

90

Sulfolobus\_islandicus\_M\_16\_4

Sulfolobus\_solfataricus\_P2

Metallosphaera\_sedula\_DSM\_534

Metallosphaera\_cuprina\_Ar\_4

Acidianus\_hospitalis\_W1

Sulfolobus\_acidocaldarius\_DSM

Sulfolobus\_tokodaii\_7

Archaeoglobus\_fulgidus\_DSM\_43

Ferroglobus\_placidus\_DSM\_1064

Geoarchaeon\_NAG1

Pyrobaculum\_calidifontis\_JCM

Pyrobaculum\_aerophilum\_TM2

Thermoproteus\_uzoniensis\_768

Vulcanisaeta\_distributa\_DSM\_1

Caldivirga\_maquilingensis\_IC

Ignisphaera\_aggregans\_DSM\_172

90

60

Methanospaera\_stadtmanae\_DSM

47

Methanothermobacter\_thermauto

Methanothermus\_fervidus\_DSM\_2

Ferroplasma\_acidarmanus\_fer1

Picrophilus\_torridus\_DSM\_9790

Thermoplasma\_acidophilum\_DSM

Methanocella\_paludicola\_SANAE

Haloarcula\_marismortui\_ATCC\_4

Halalkalicoccus Jeotgalii\_B3

Halobacterium\_NRC\_1

Haloferax\_volcanii\_DS2

Methanosaeta\_thermophila\_PT

Methanoculleus\_marisnigri\_JR1

Methanospaerula\_palustris\_E1

Methanocorpusculum\_labreanum

Methanospirillum\_hungatei\_JF

Methanoplanus\_petrolearius\_DS

Methanohalobium\_evestigatum\_Z

Methanosarcina\_acetivorans\_C2

Chlamydia\_trachomatis\_D\_UW\_3

Bacteroides\_thetaiotaomicron

Synechocystis\_PCC\_6803

Escherichia\_coli\_K\_12\_substr

Borrelia\_burgdorferi\_B31

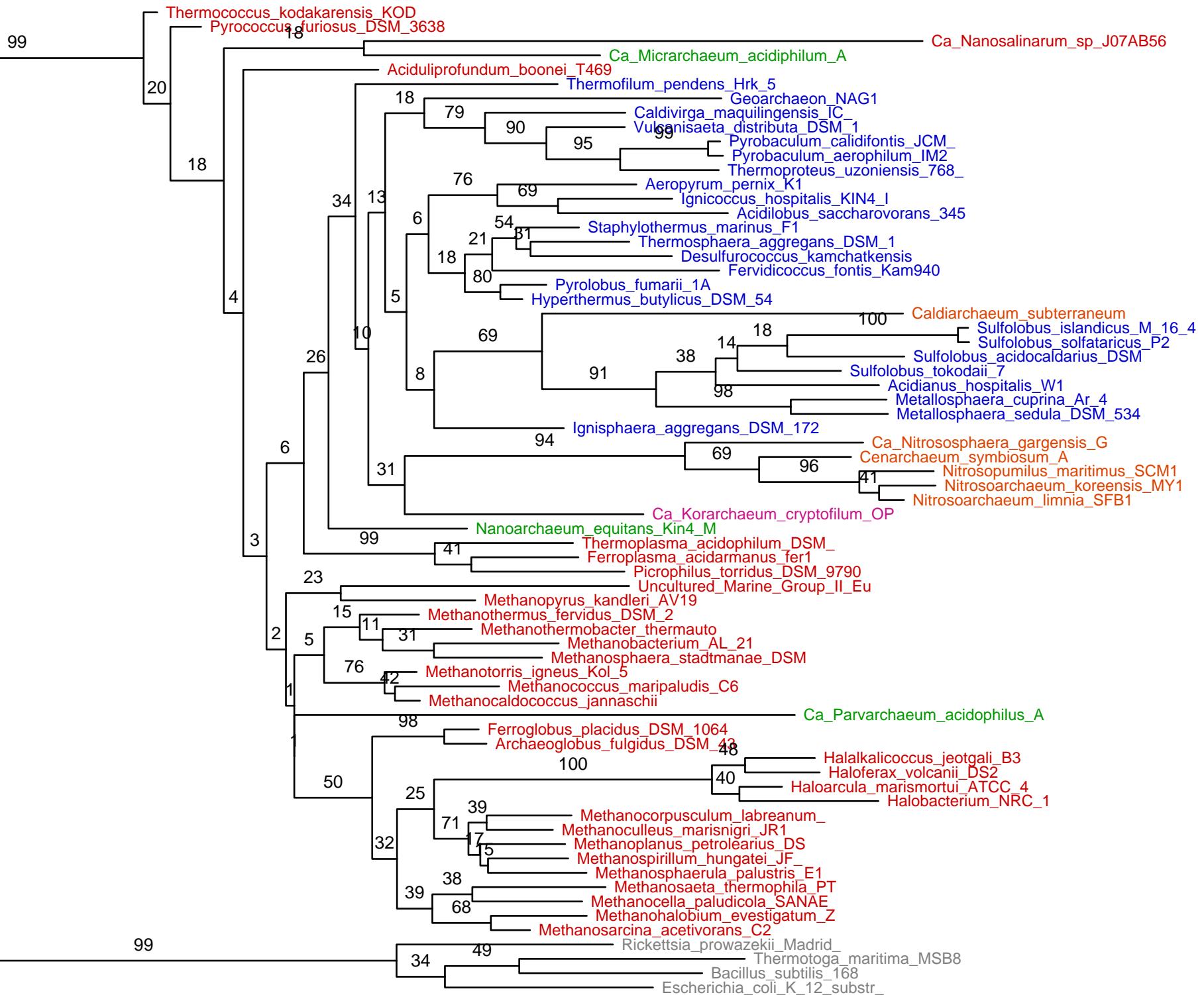
Rickettsia\_prowazekii\_Madrid

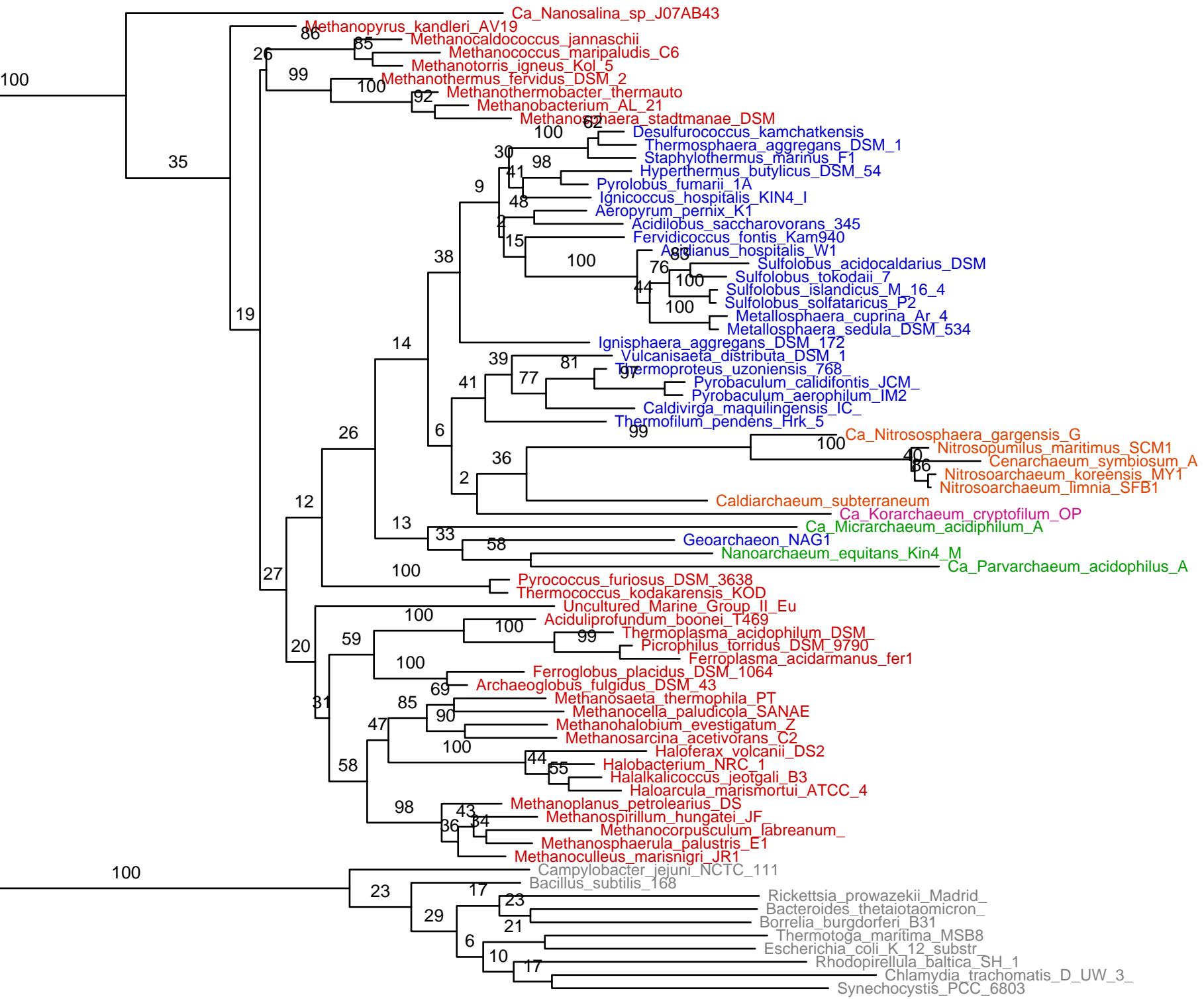
Rhodopirellula\_baltica\_SH\_1

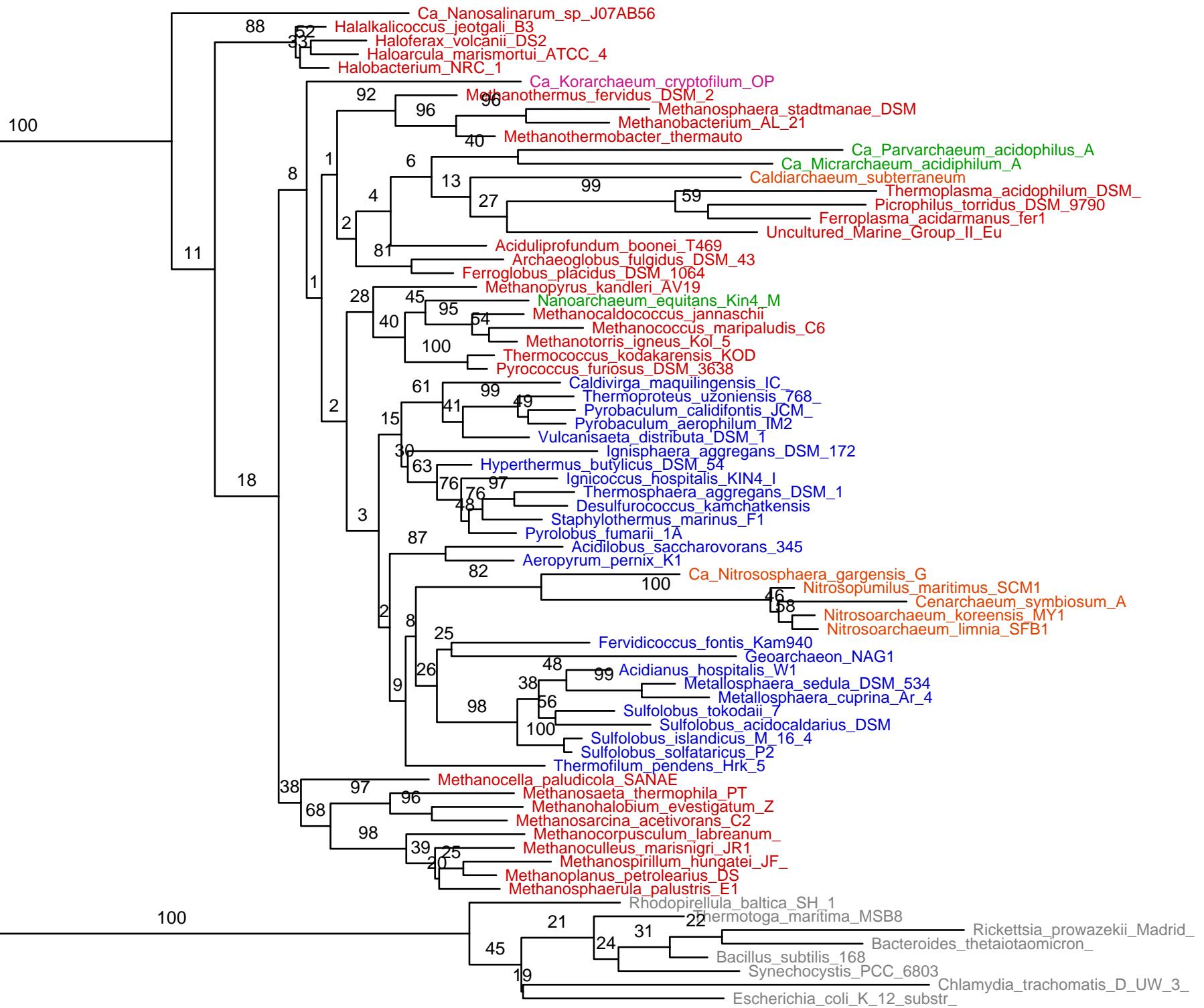
Bacillus\_subtilis\_168

Thermotoga\_maritima\_MSB8

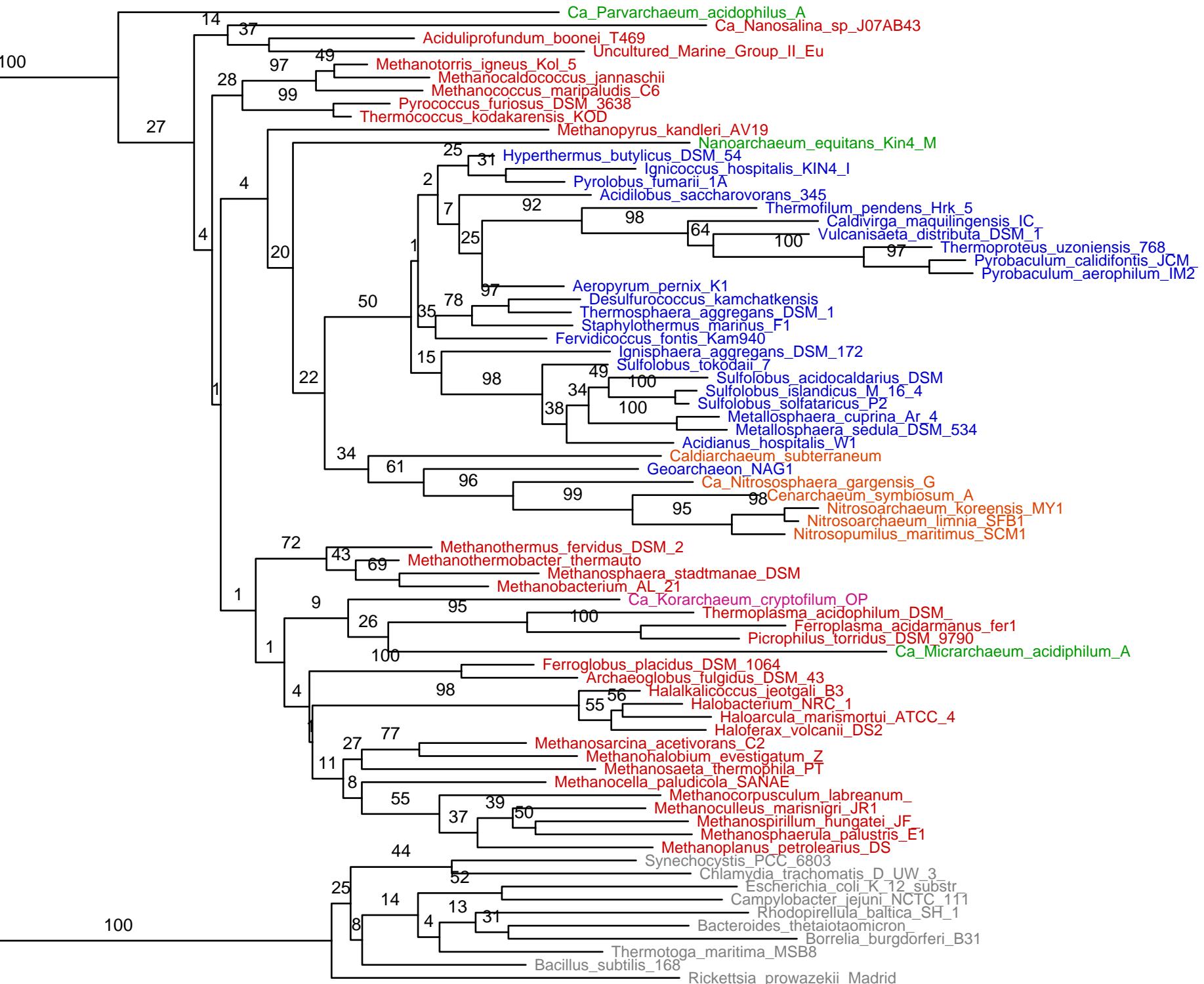
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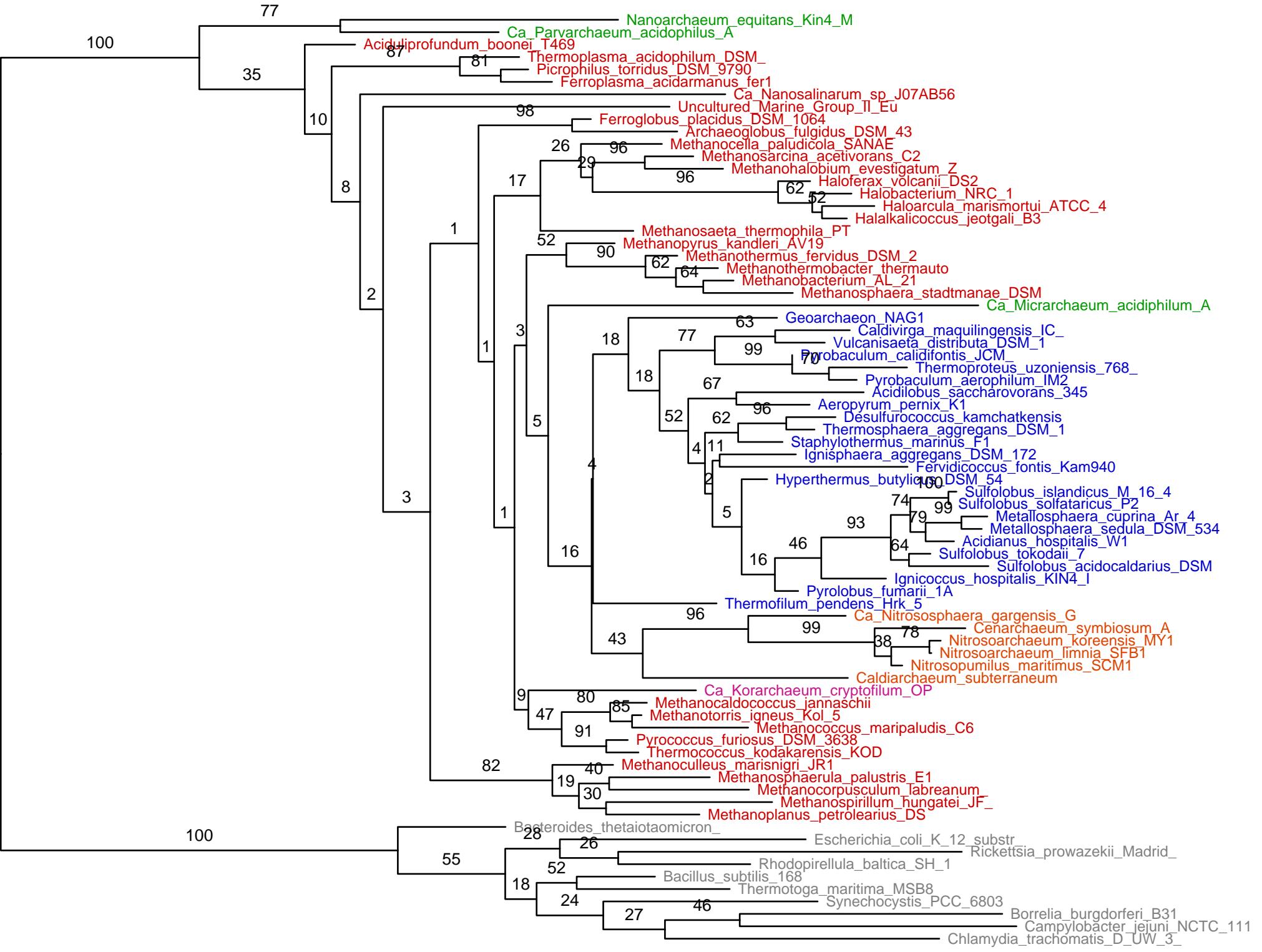


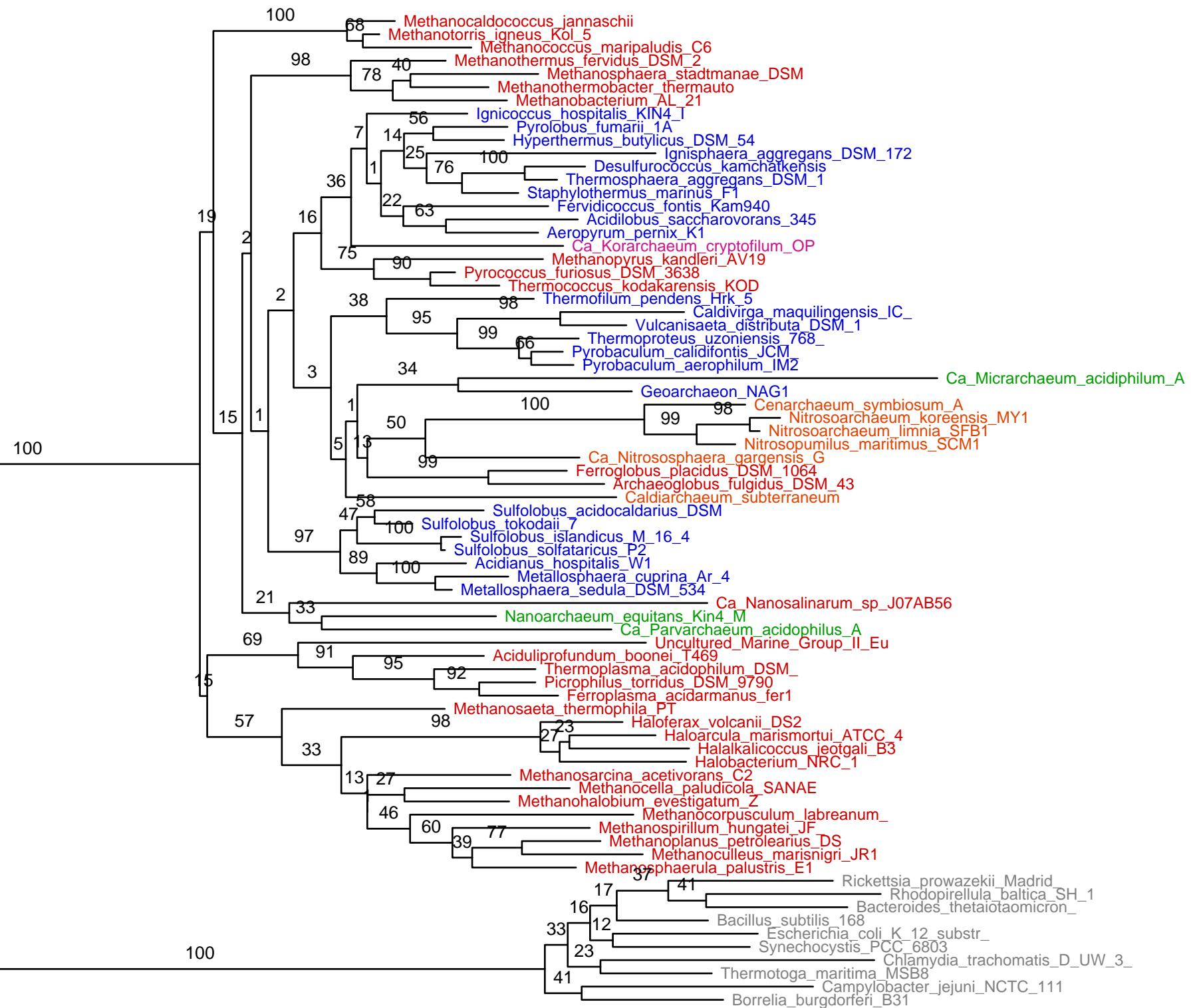


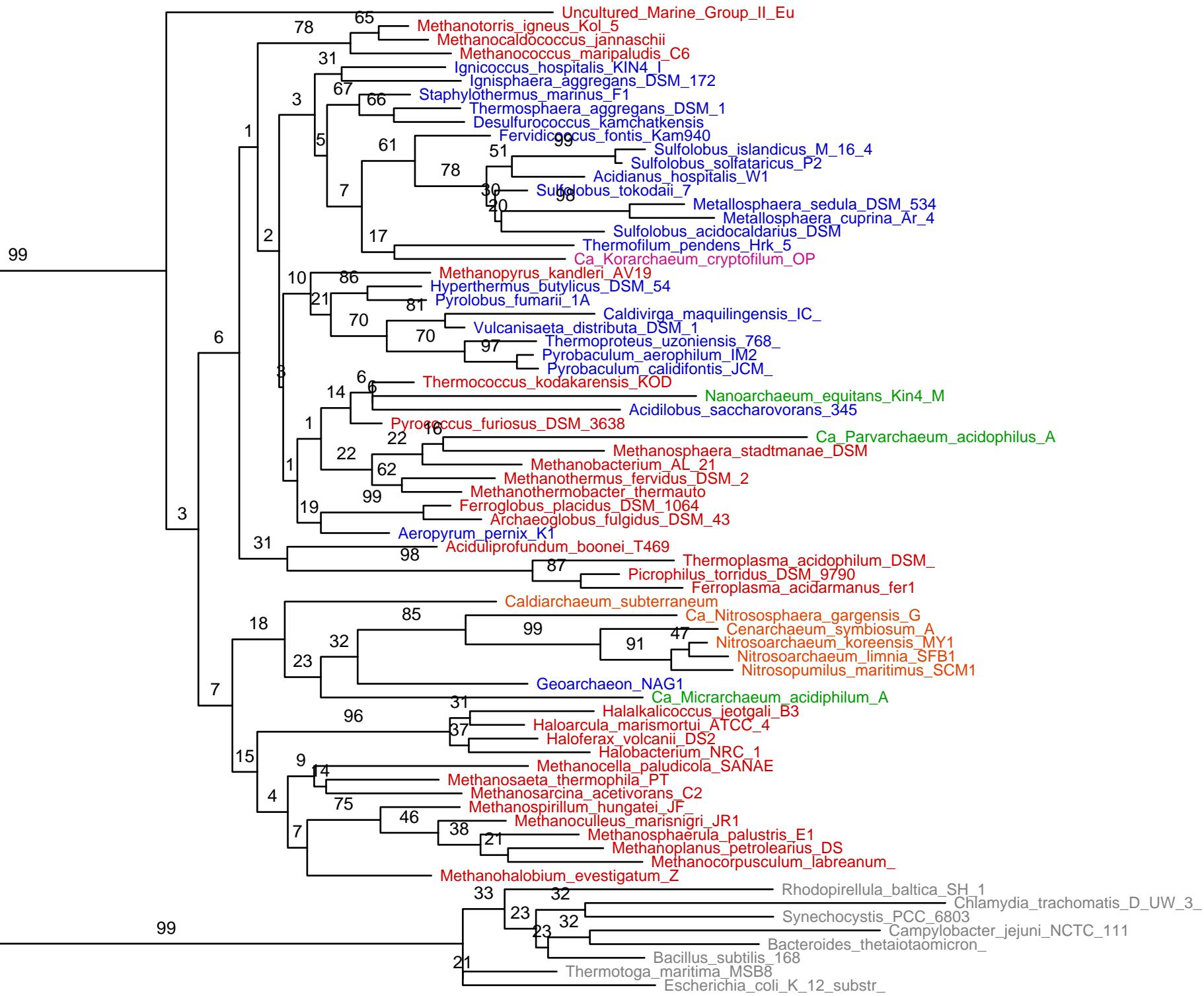


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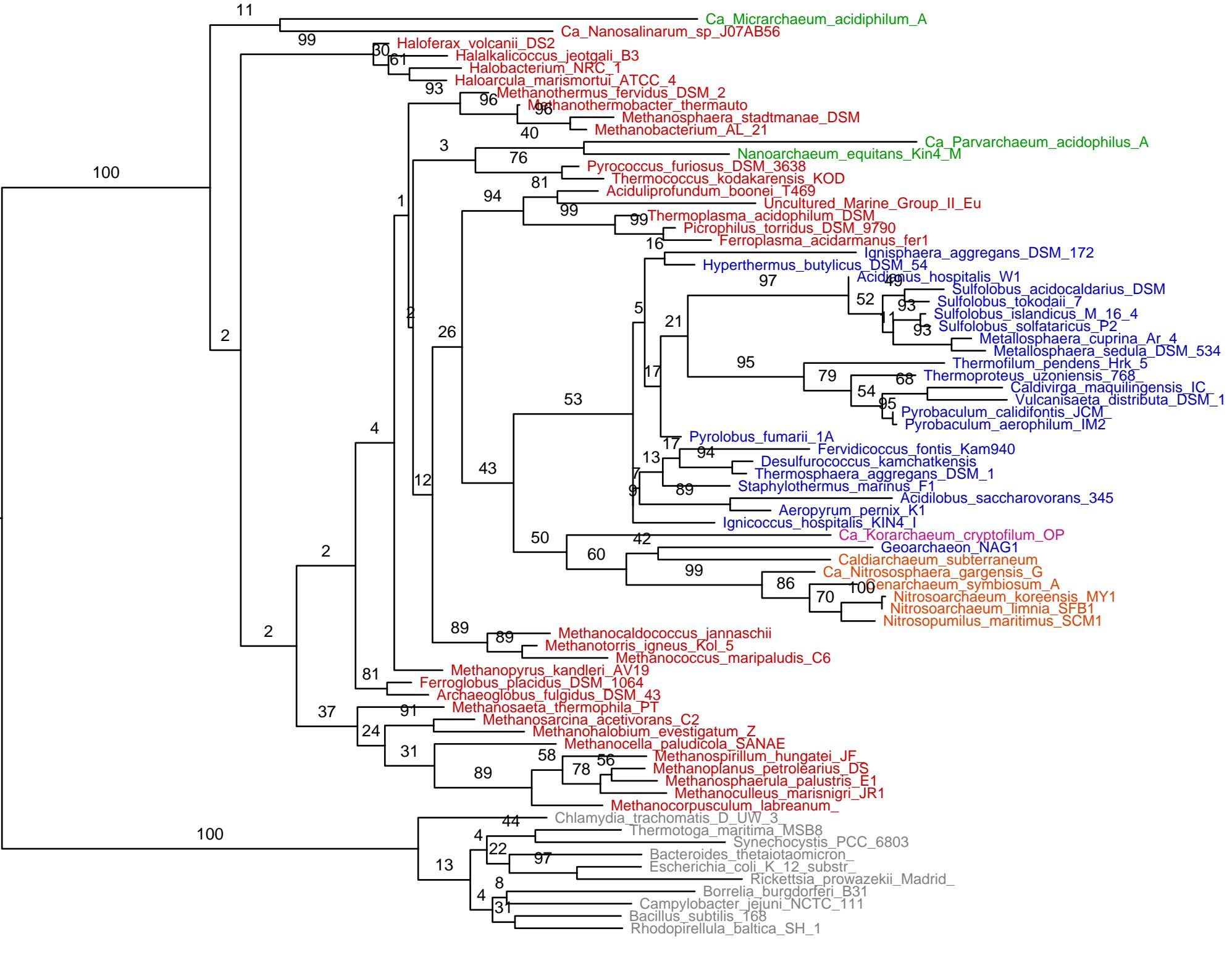


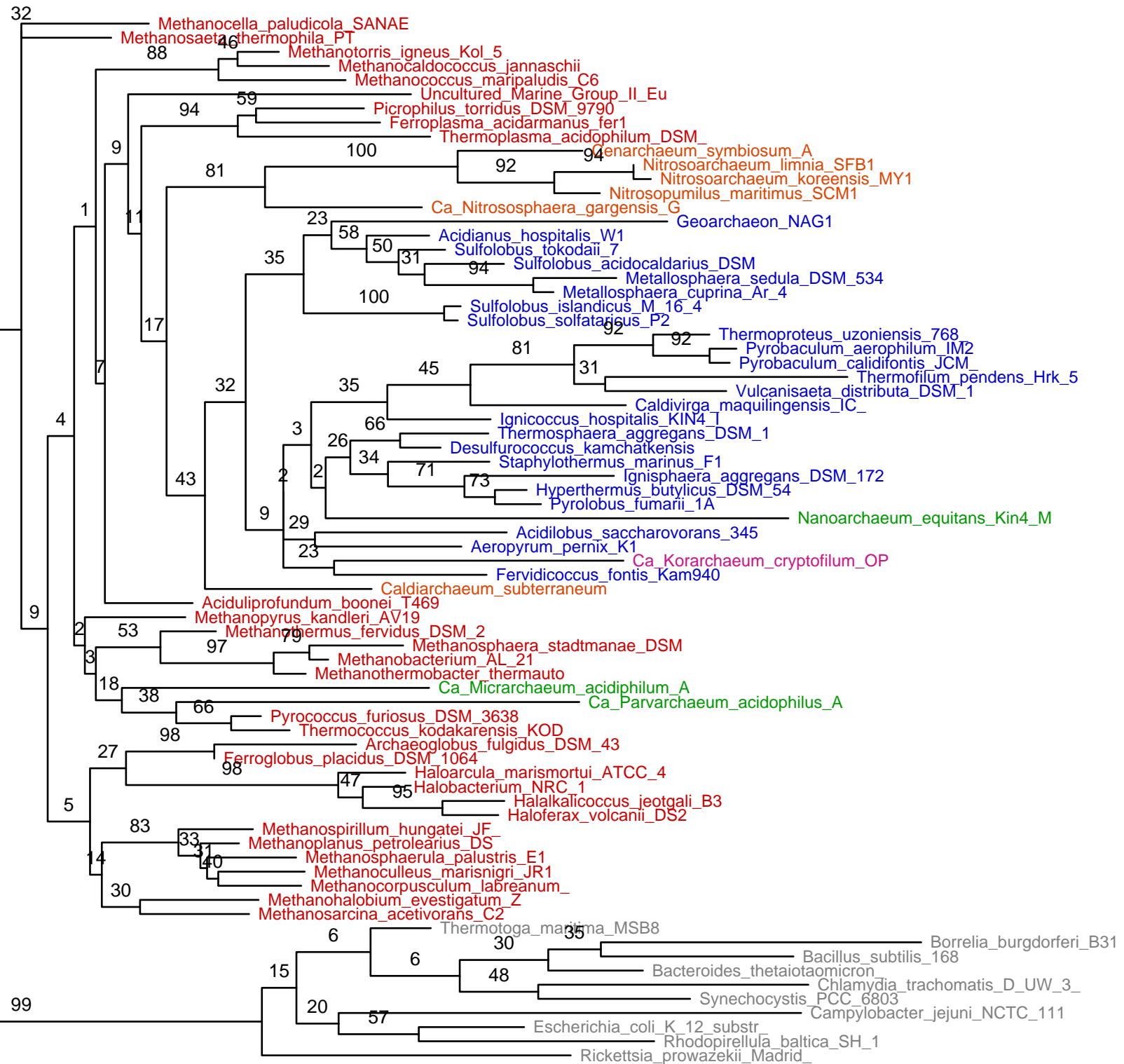


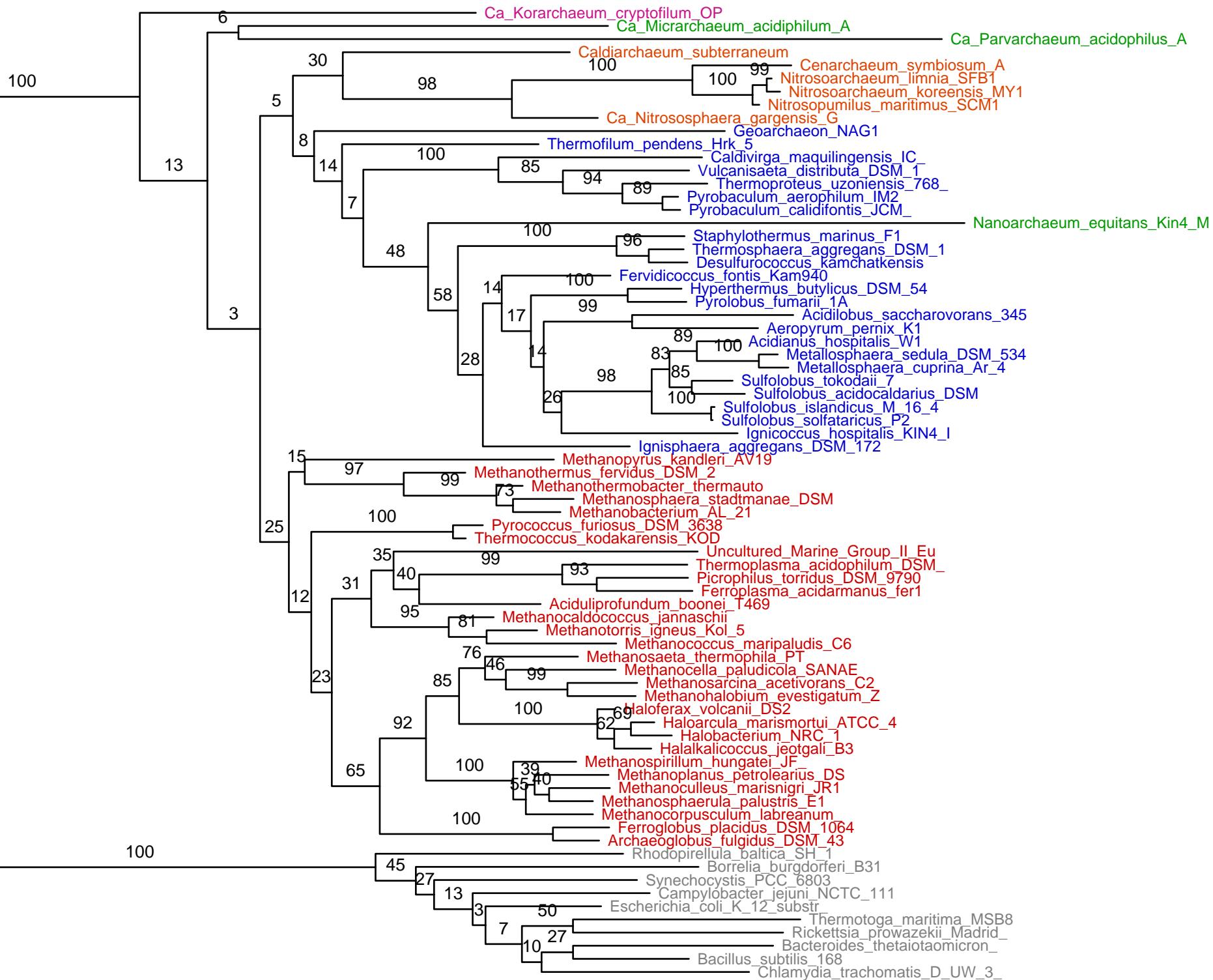


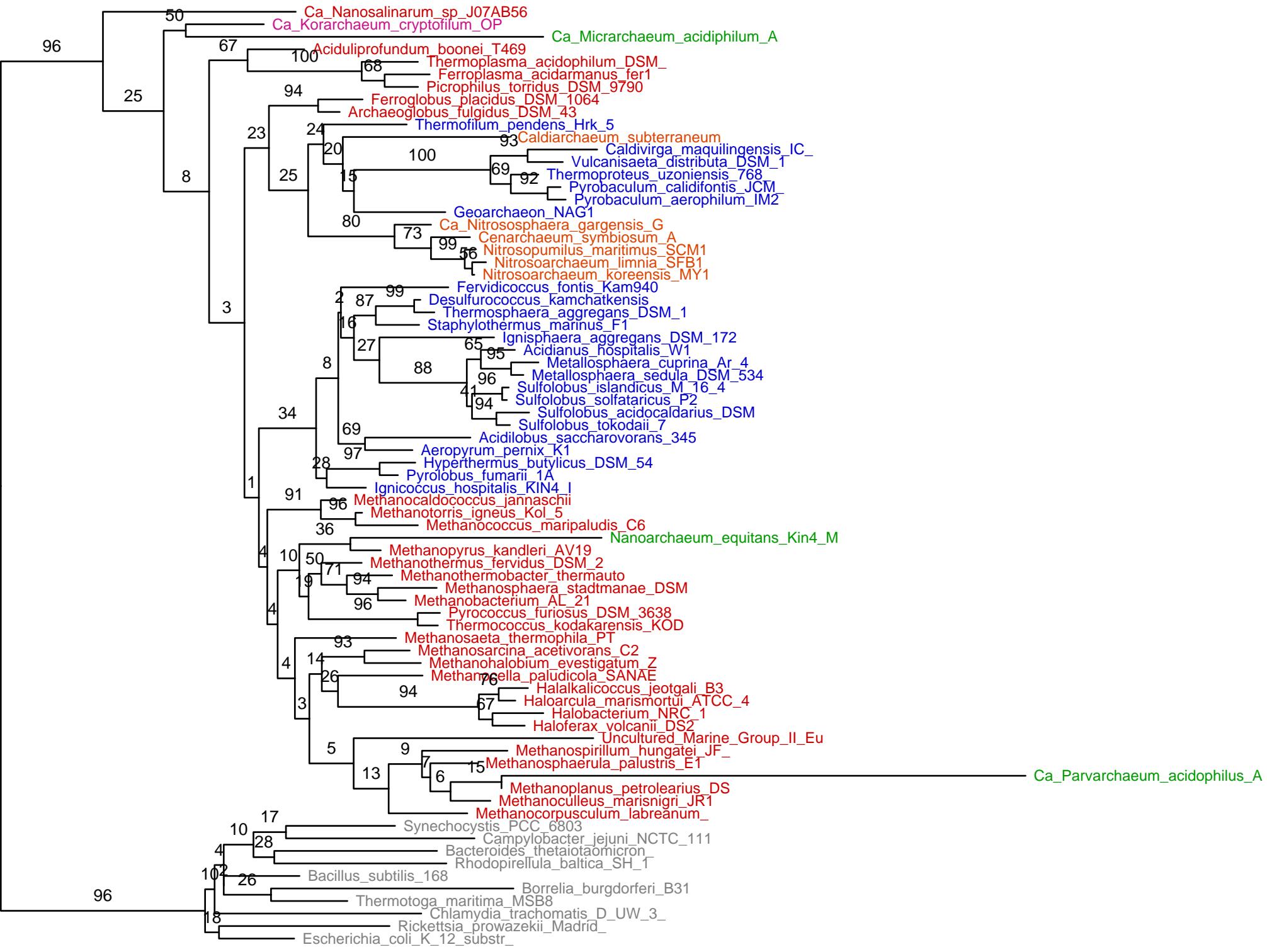


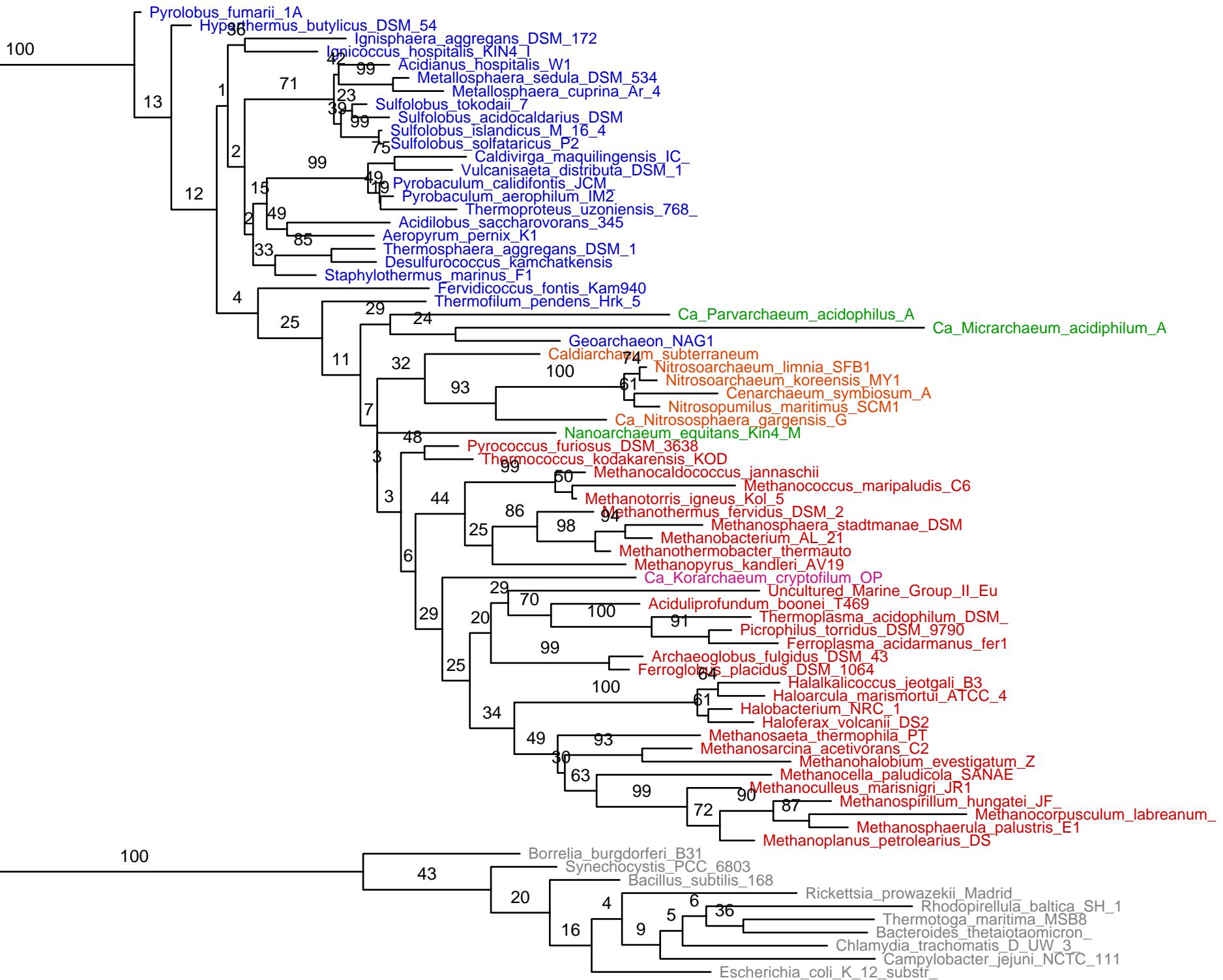
### ML phylogeny of Ribosomal protein L14 (arCOG04095)

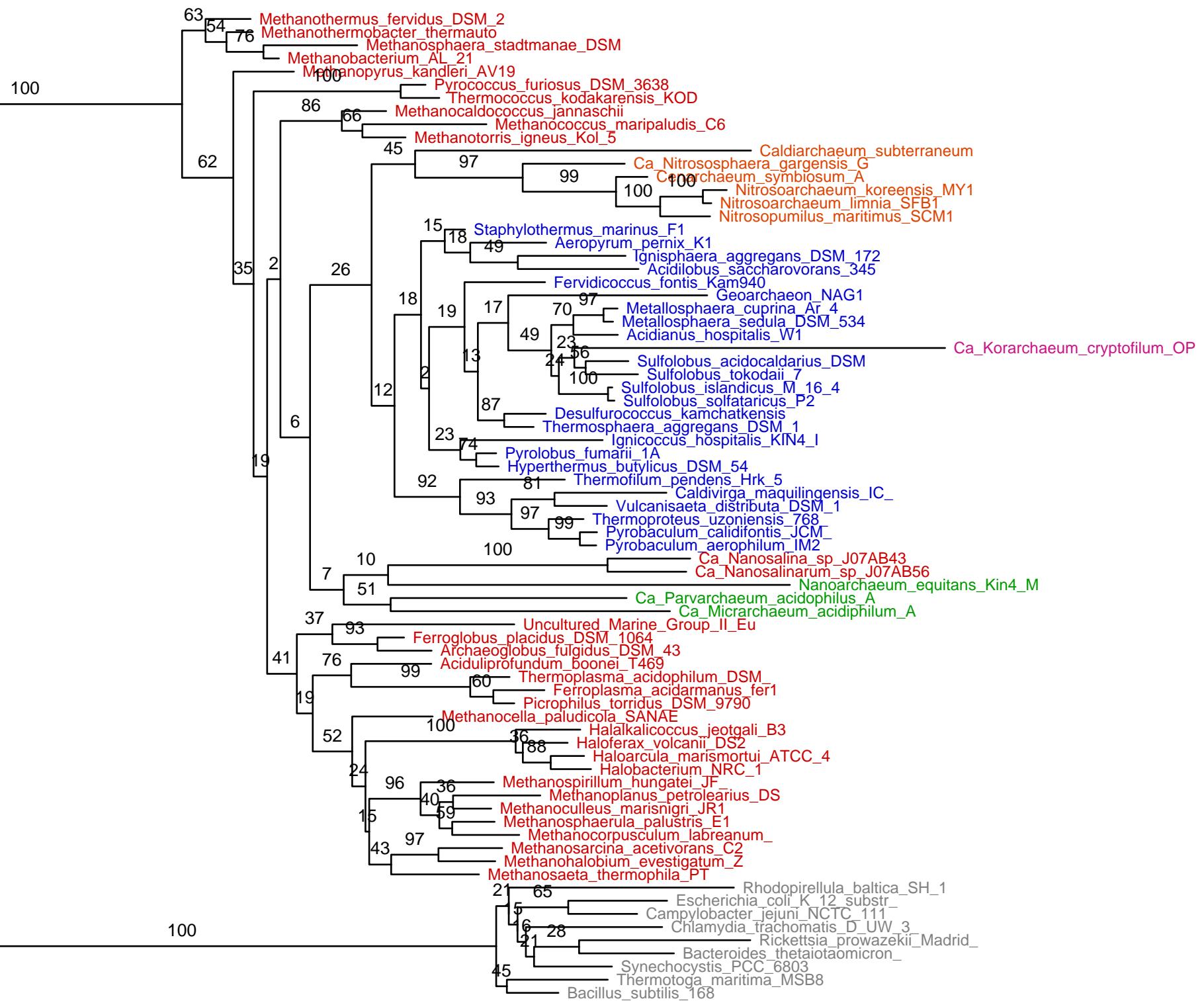








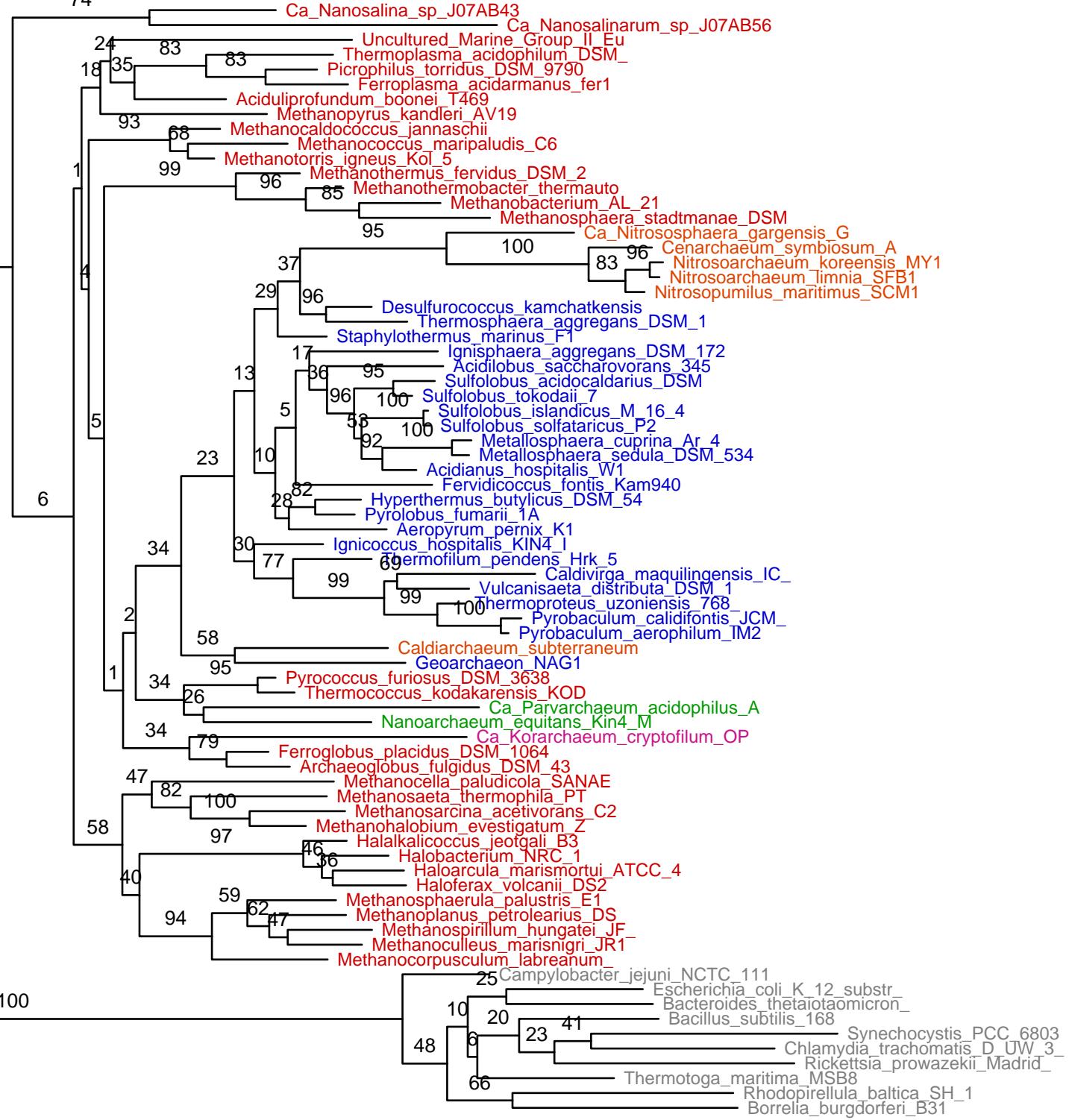


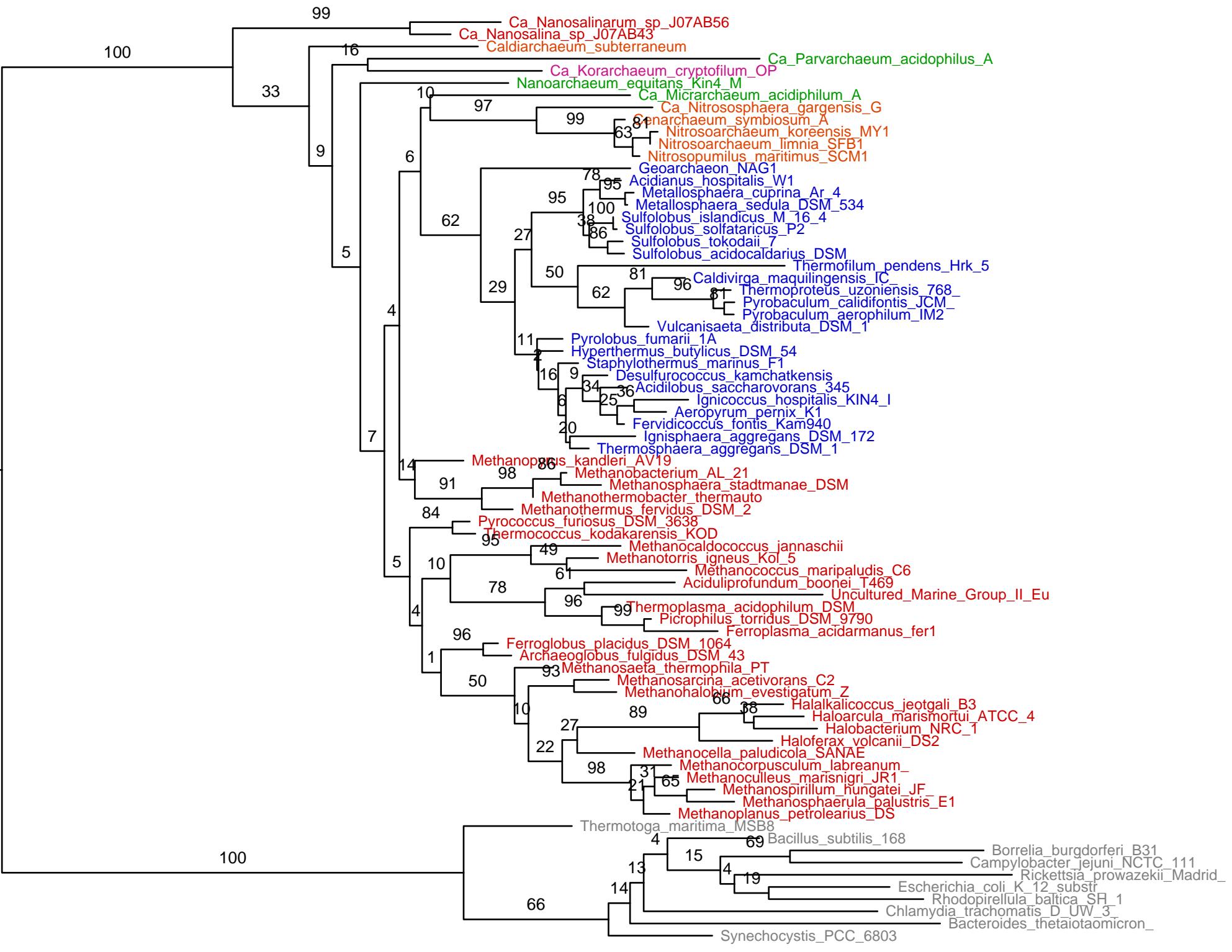


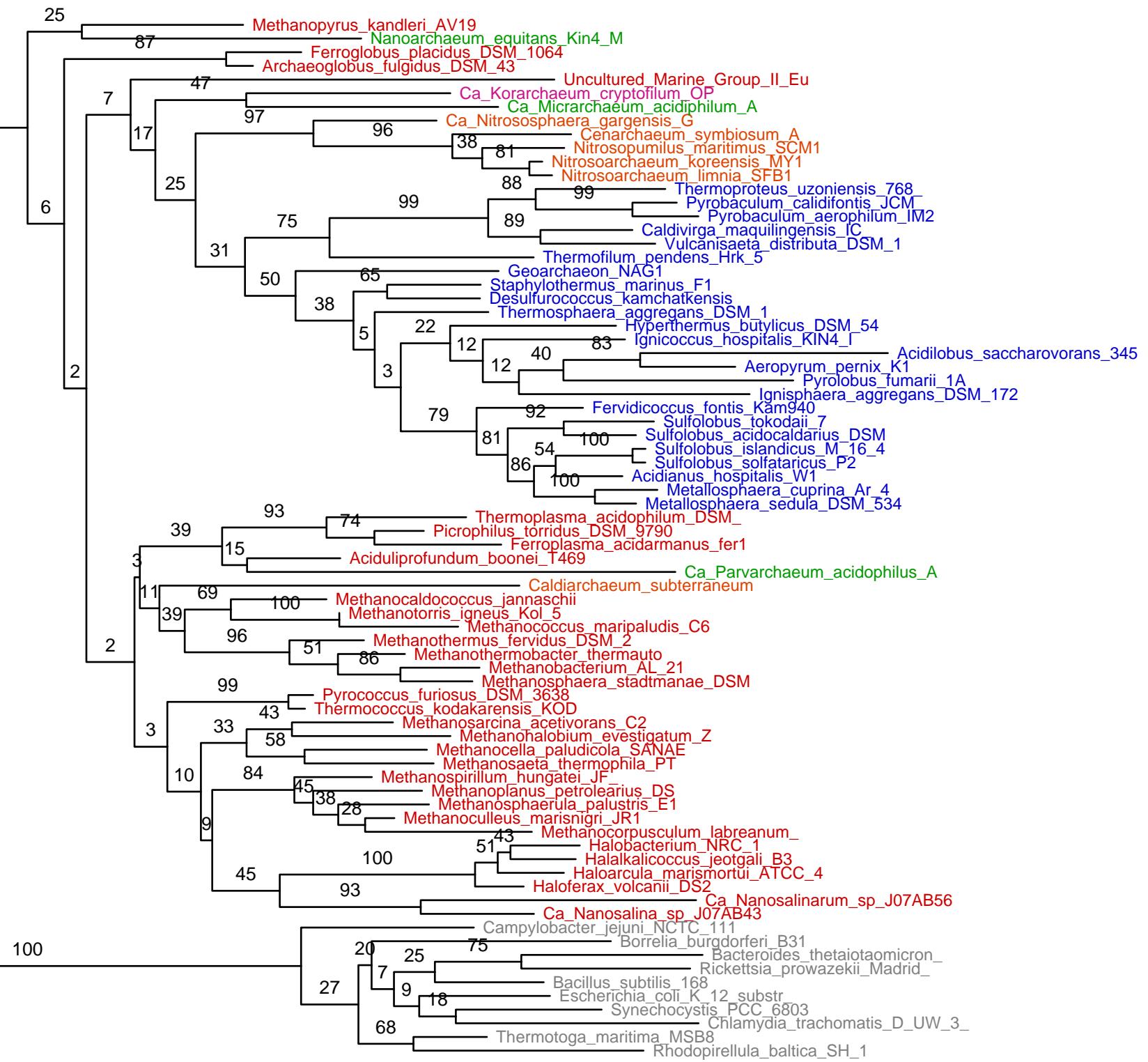


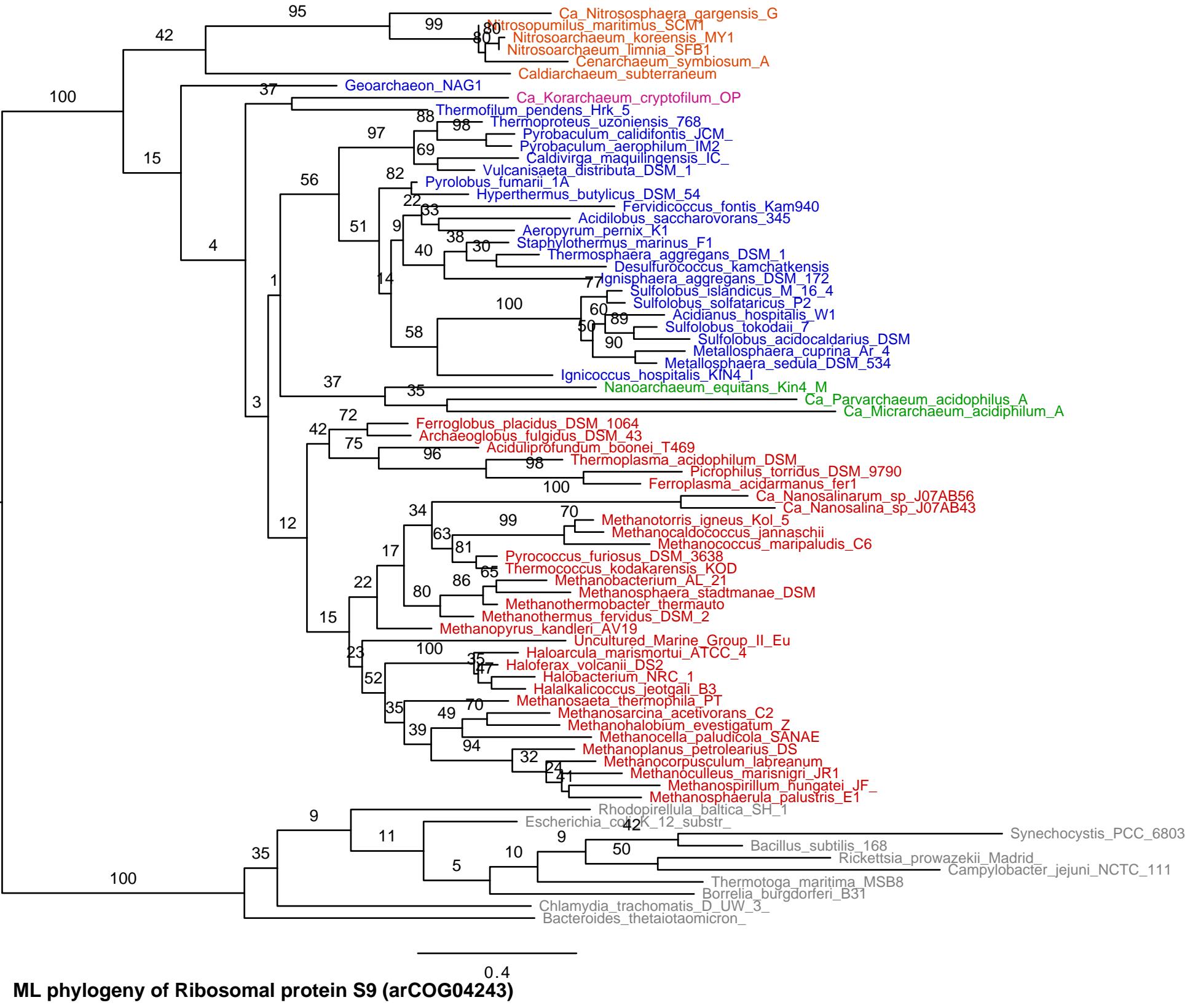
*Ca\_Nanosalina\_sp\_J07AB43*

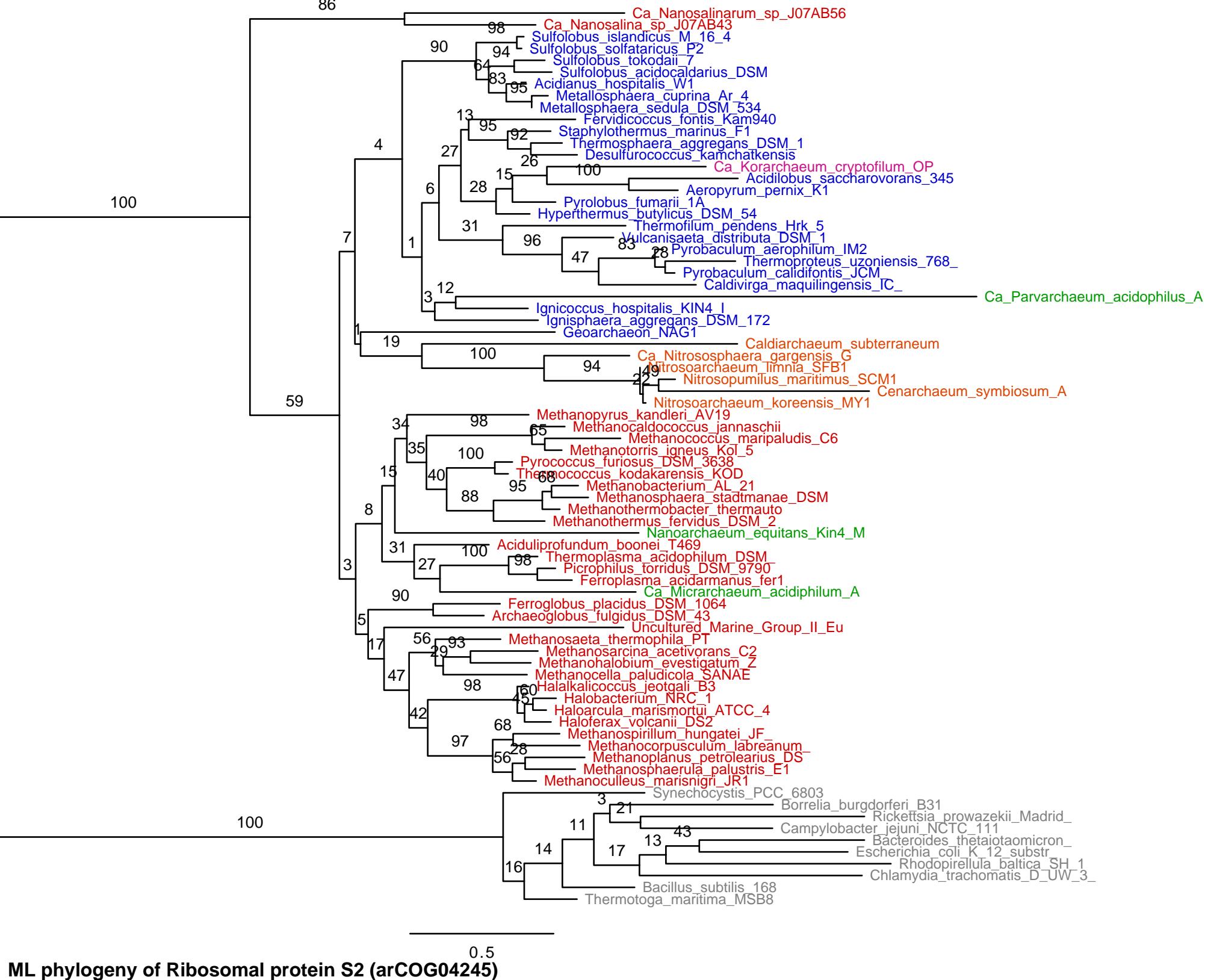
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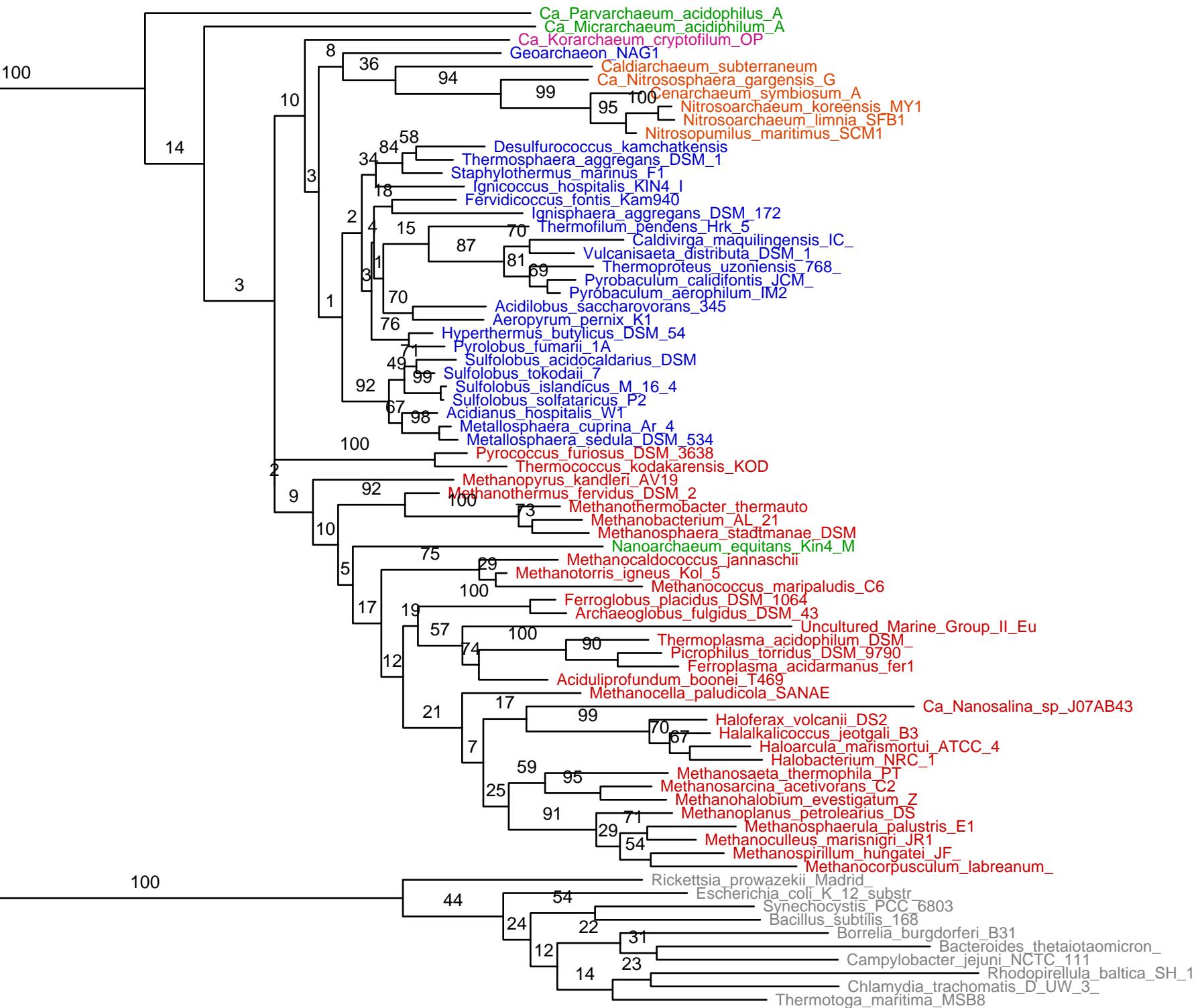


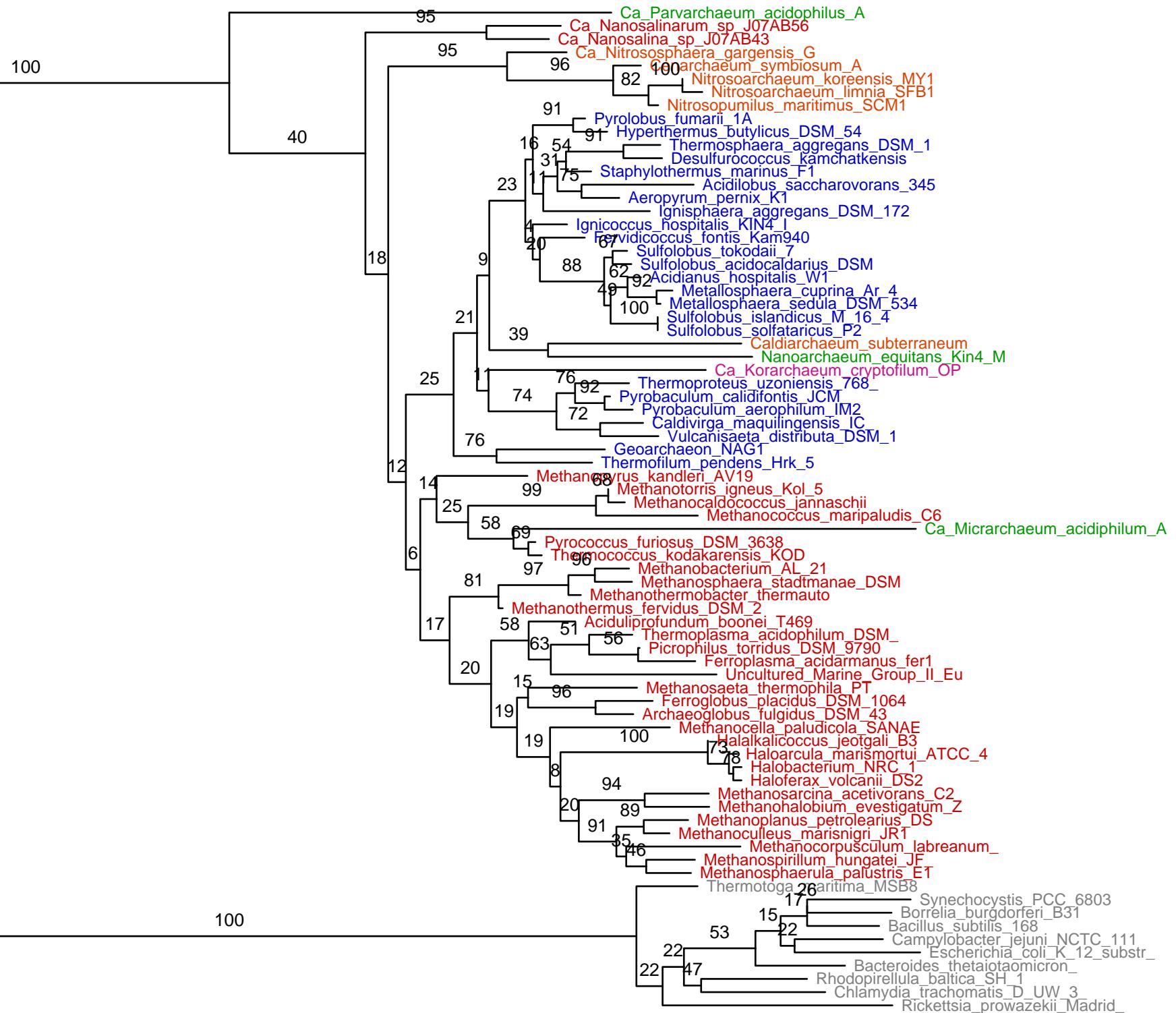


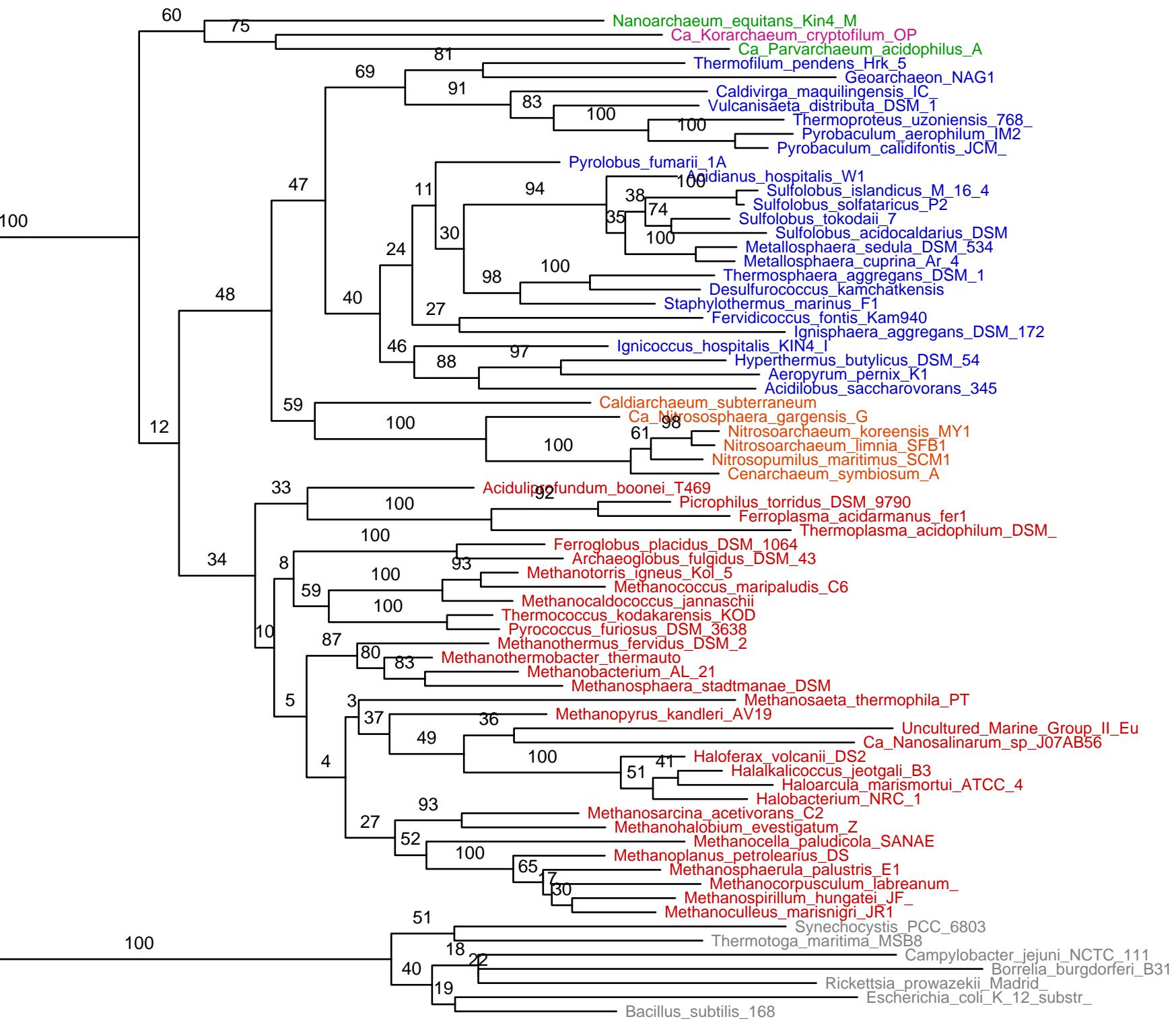








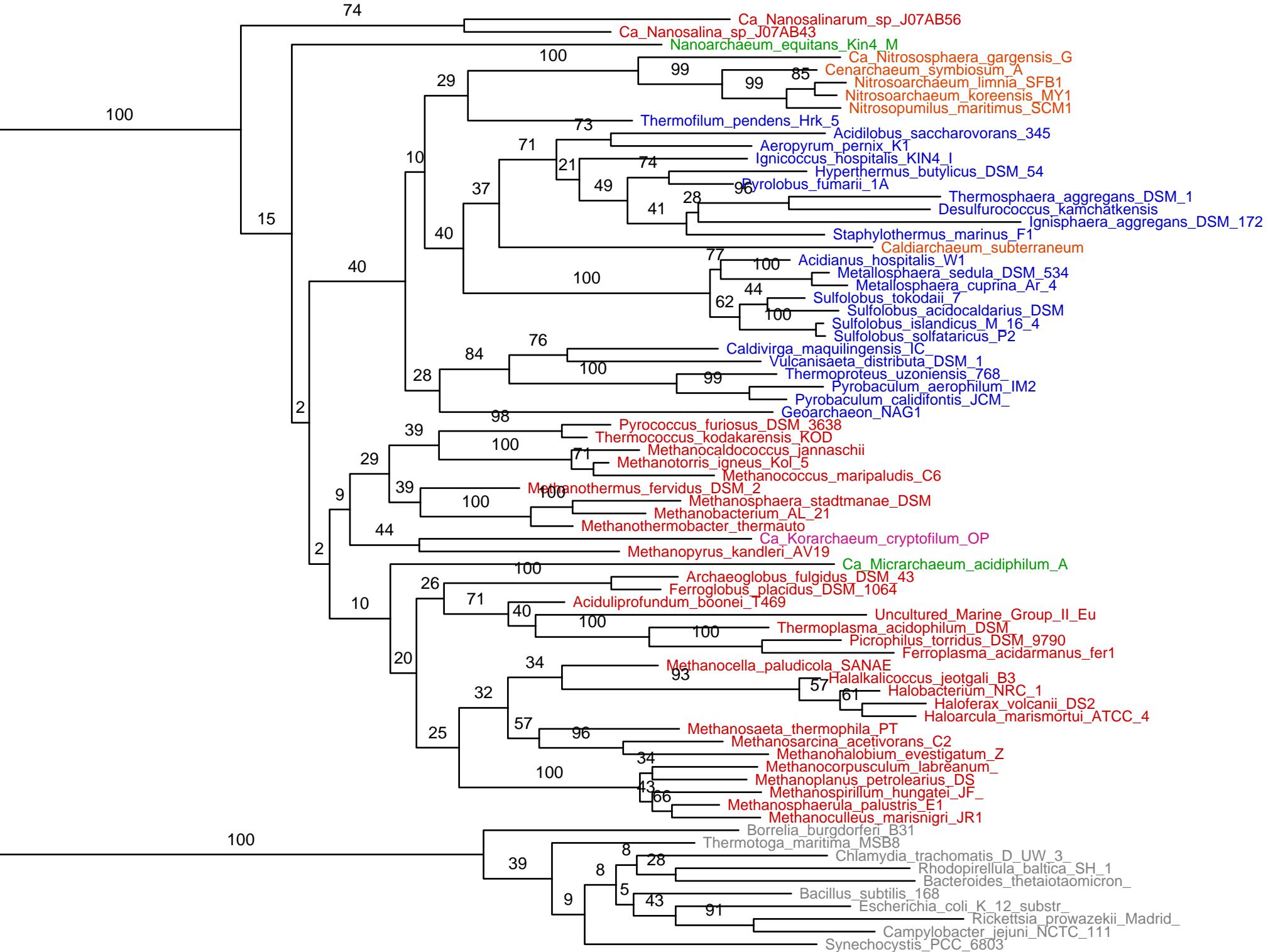




ML phylogeny of Ribosomal protein L10 (arCOG04288)

0.4

ML phylogeny of Ribosomal protein L1 (arCOG04289)



0.4

