

F8DC90 – *Halopiger xanaduensis*

D3SRA4 – *Natrialba magadii*

Q3IS62 – *Natronomonas pharaonis*

0.93
0.819
D3T041 – *Natrialba magadii*

D2S1D8 – *Haloterrigena turkmenica*

H0X182 – *Otolemur garnettii*

G7PMY1 – *Macaca fascicularis*

G1QPF3 – *Nomascus leucogenys*

0.96
0.95
FNSGGOG00000034893

G3SKM5 – *Gorilla gorilla gorilla*

Q9NUZ1 – *Homo sapiens*

0.94
B3RYV9 – *Trichoplax adhaerens*

0.94
E9C0B2 – *Capsaspora owczarzaki*

A4FR53 – *Saccharopolyspora erythraea*

H8MFT9 – *Coralloccoccus coralloides*

0.972
Q096A6 – *Stigmatella aurantiaca*

G0J6F1 – *Cyclobacterium marinum*

A5FEF7 – *Flavobacterium johnsoniae*

Q55CT6 – *Dictyostelium discoideum*

0.71
F1A1B8 – *Dictyostelium purpureum*

0.99
D3BKV2 – *Polysphondylium pallidum*

F1A2F0 – *Dictyostelium purpureum*

B3RJW6 – *Trichoplax adhaerens*

D6X2M0 – *Tribolium castaneum*

0.97
0.71
E0VMW1 – *Pediculus humanus subsp. corporis*

E0VMW2 – *Pediculus humanus subsp. corporis*

F4P5I7 – *Batrachochytrium dendrobatidis*

I1C384 – *Rhizopus delemar*

0.93
E3JQQ0 – *Puccinia graminis f. sp. tritici*

0.91
Q5KEJ4 – *Cryptococcus neoformans* var. *neoformans* serotype D

F5HGF0 – *Cryptococcus neoformans* var. *neoformans* serotype D

0.93
I1R1I2 – *Oryza glaberrima*

I1IKI2 – *Brachypodium distachyon*

D7MT79 – *Arabidopsis lyrata subsp. lyrata*

0.94
Q65201 – *Arabidopsis thaliana*

I1K4K8 – *Glycine max*

ENSGGOG00000002283

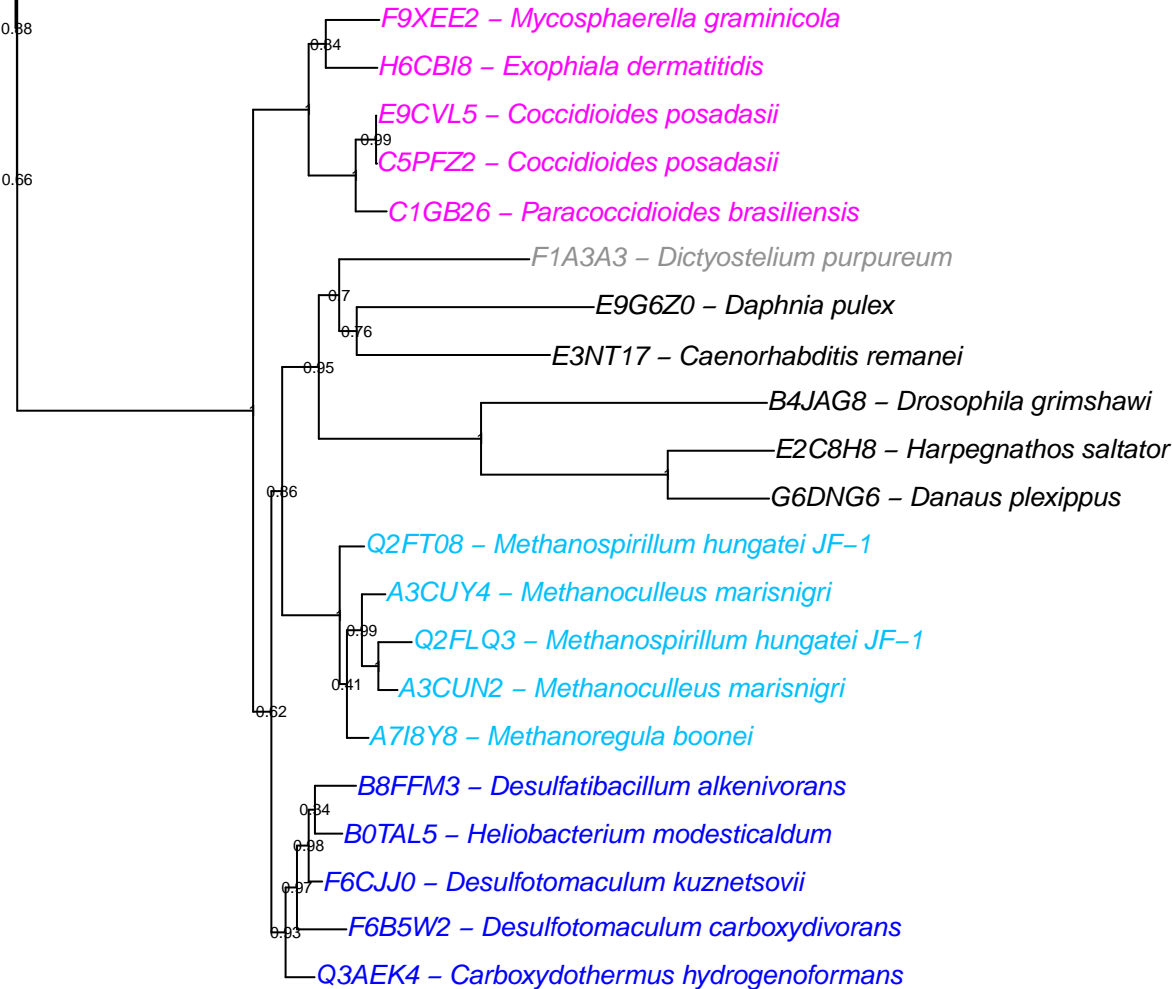
G3RVX0 – *Gorilla gorilla gorilla*

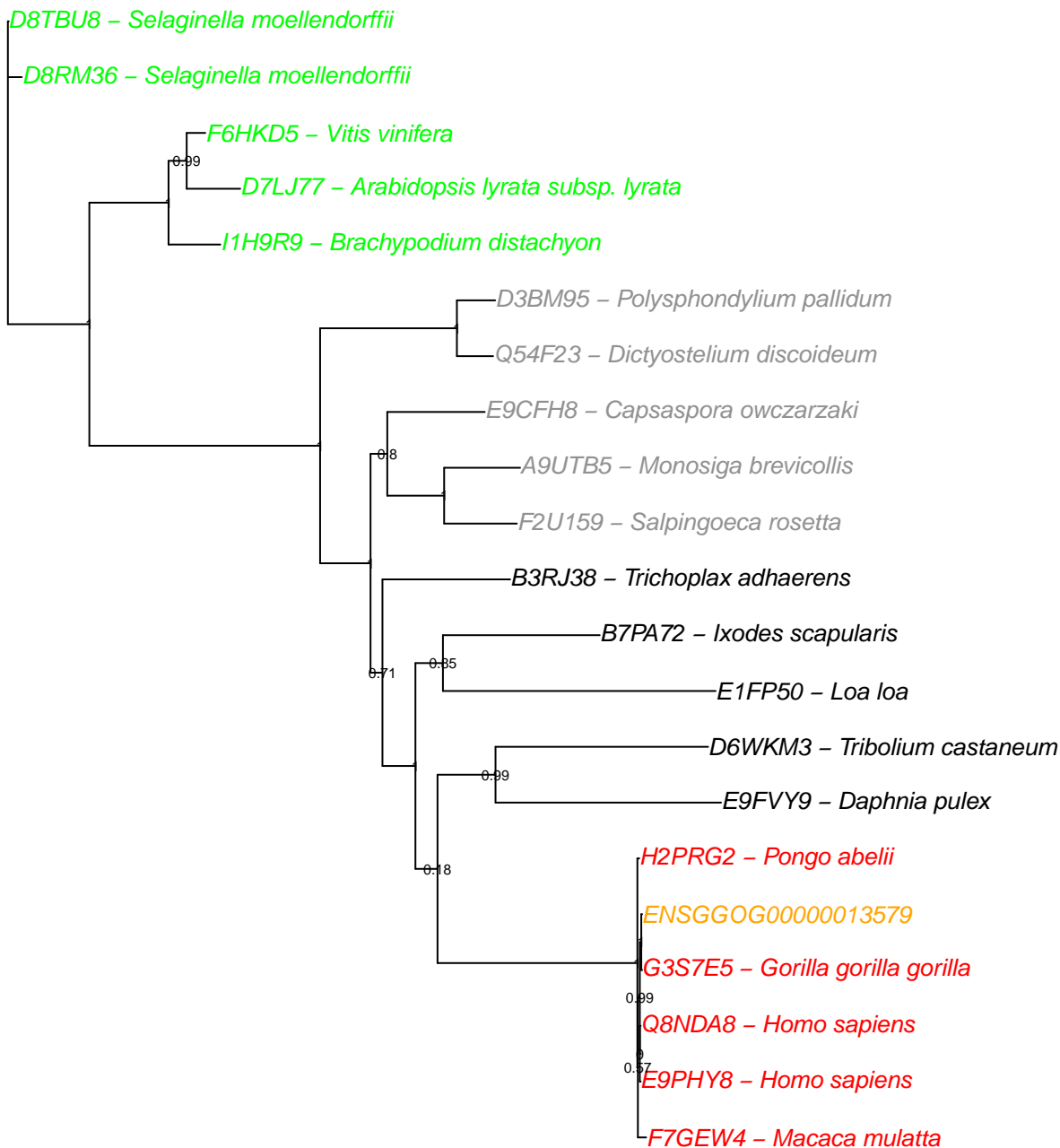
G3QIN3 – *Gorilla gorilla gorilla*

Q6P461 – *Homo sapiens*

G1RRG9 – *Nomascus leucogenys*

H2QYM4 – *Pan troglodytes*





ENSGGOG00000027677

G3RVH7 – *Gorilla gorilla gorilla*

F7EHK9 – *Callithrix jacchus*

F7GP18 – *Callithrix jacchus*

P60371 – *Homo sapiens*

P60372 – *Homo sapiens*

H2W4Z3 – *Caenorhabditis japonica*

H2VR84 – *Caenorhabditis japonica*

H2WDI4 – *Caenorhabditis japonica*

H2WGE6 – *Caenorhabditis japonica*

H2WRK9 – *Caenorhabditis japonica*

F0YNE6 – *Aureococcus anophagefferens*

D8TX60 – *Volvox carteri*

Q2GLF1 – *Anaplasma phagocytophilum*

Q8IK03 – *Plasmodium falciparum*

F2LS50 – *Burkholderia gladioli*

0

0.8

0.91

0.98

0.31

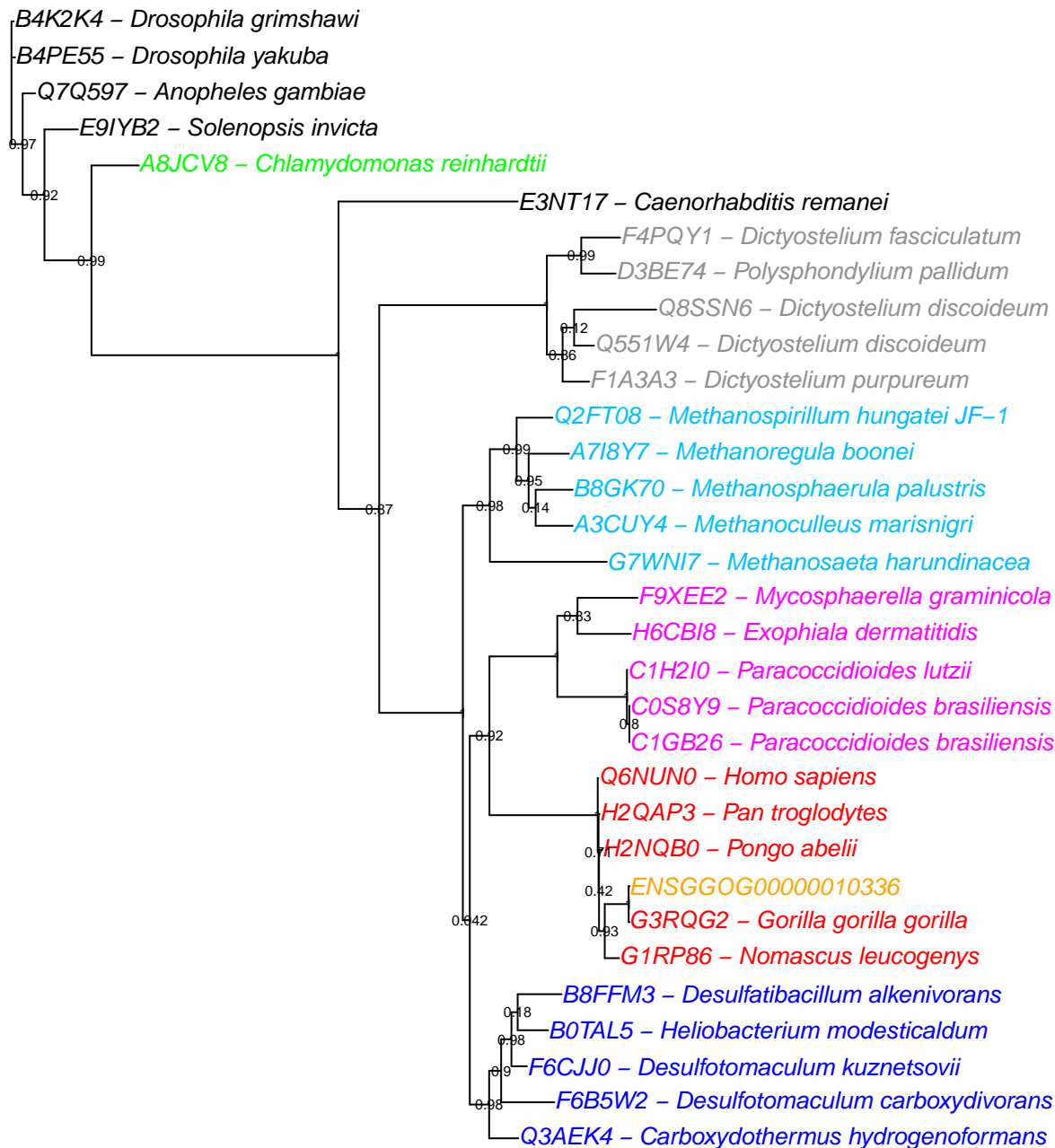
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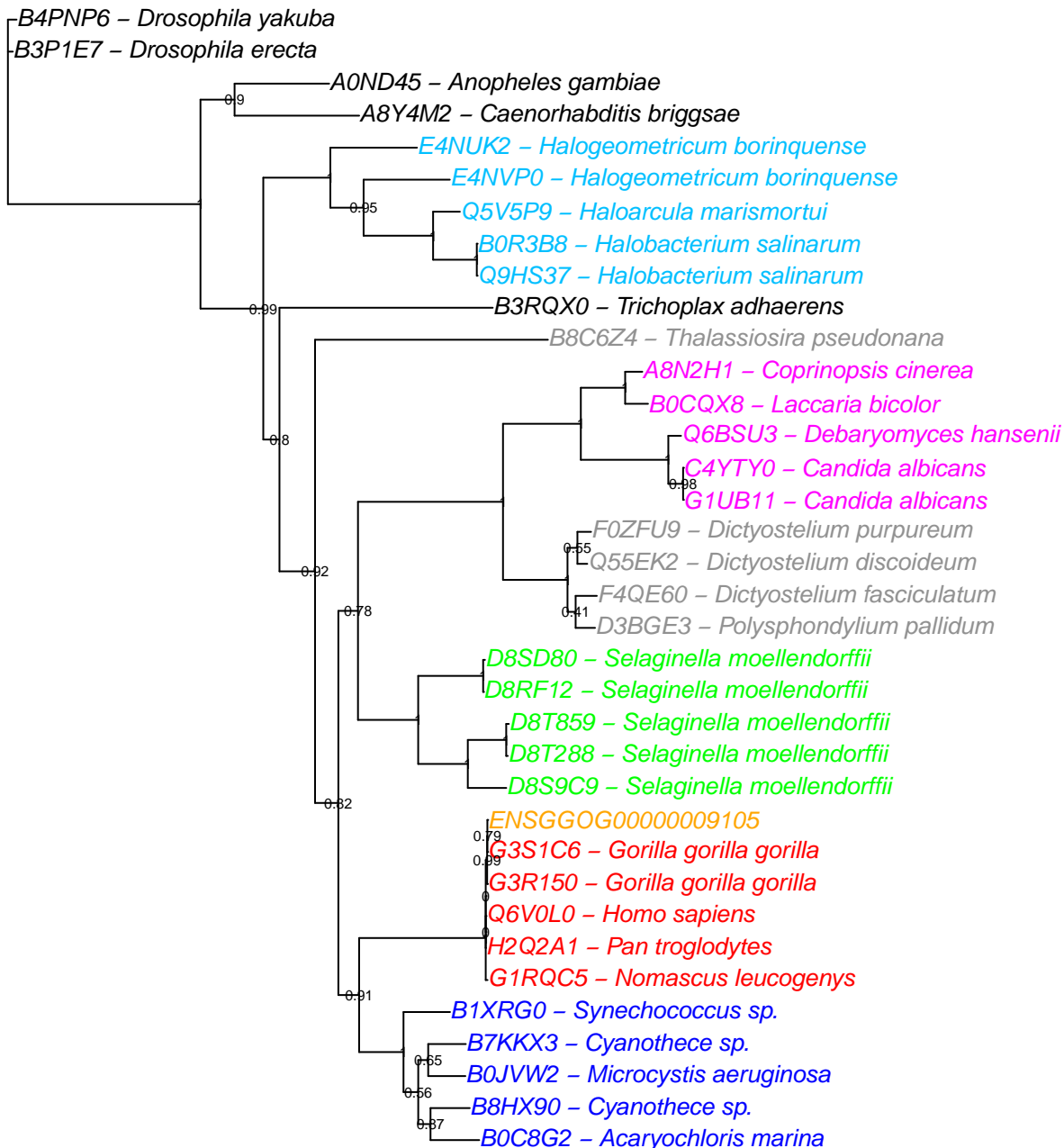
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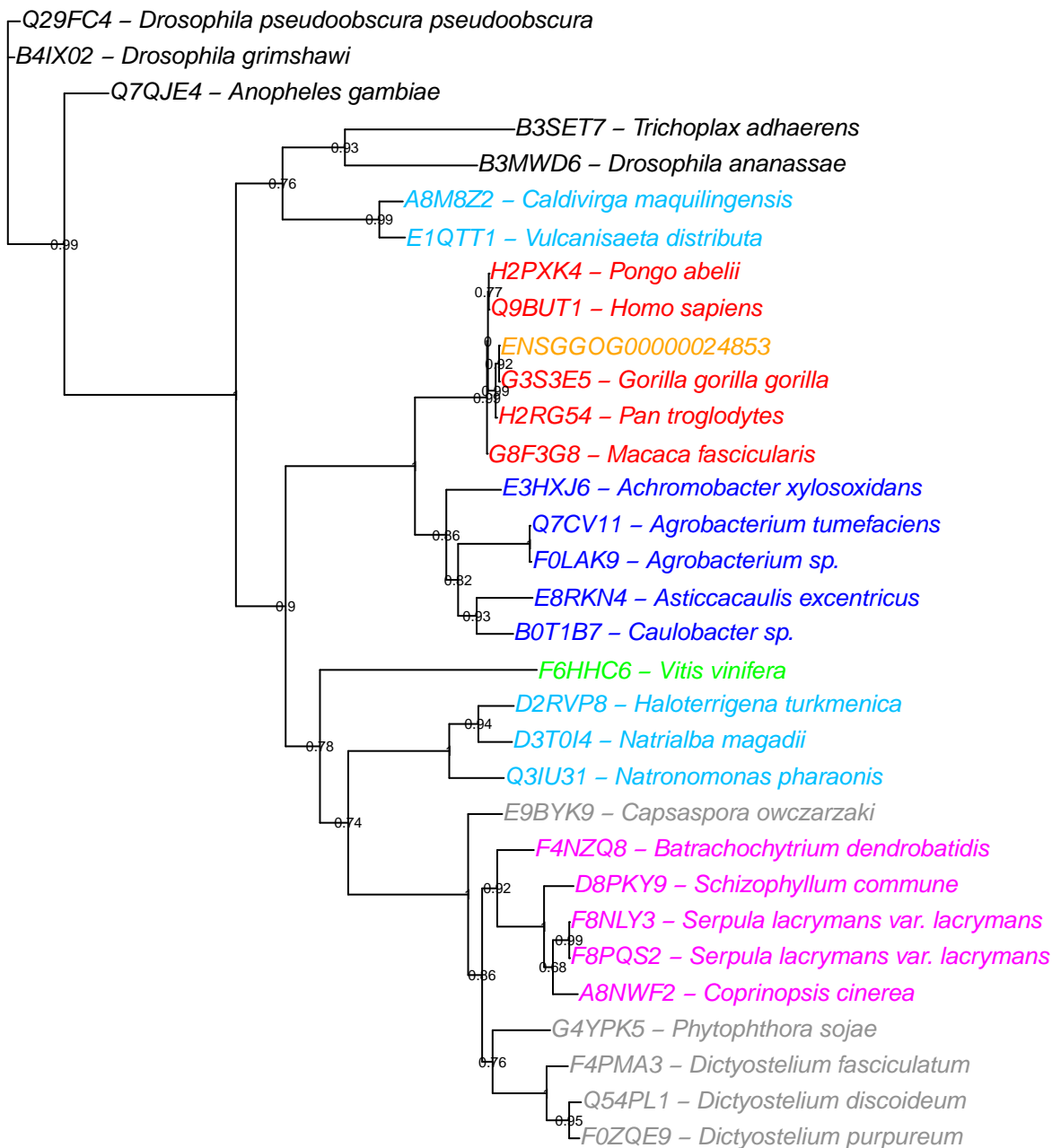
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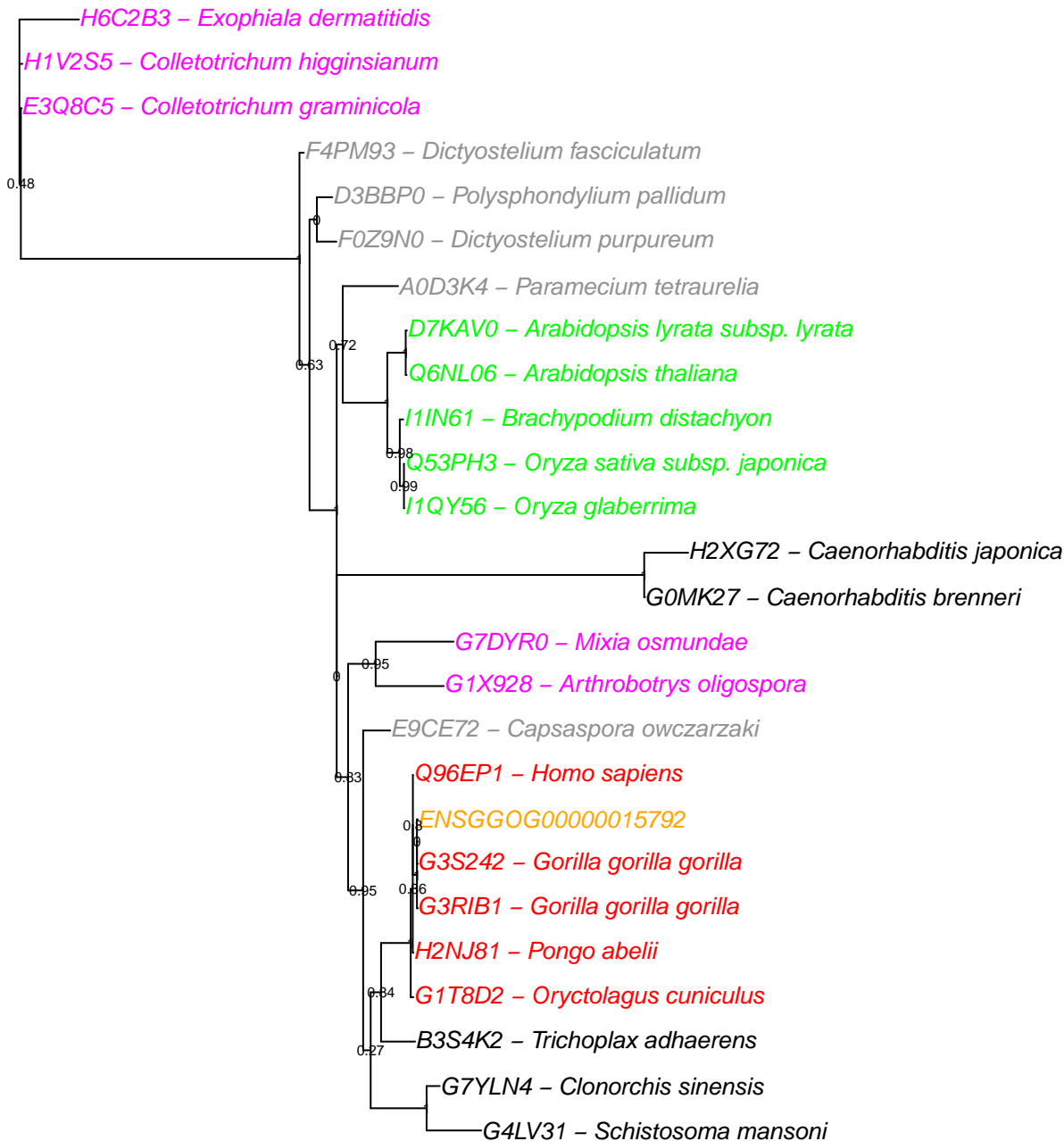
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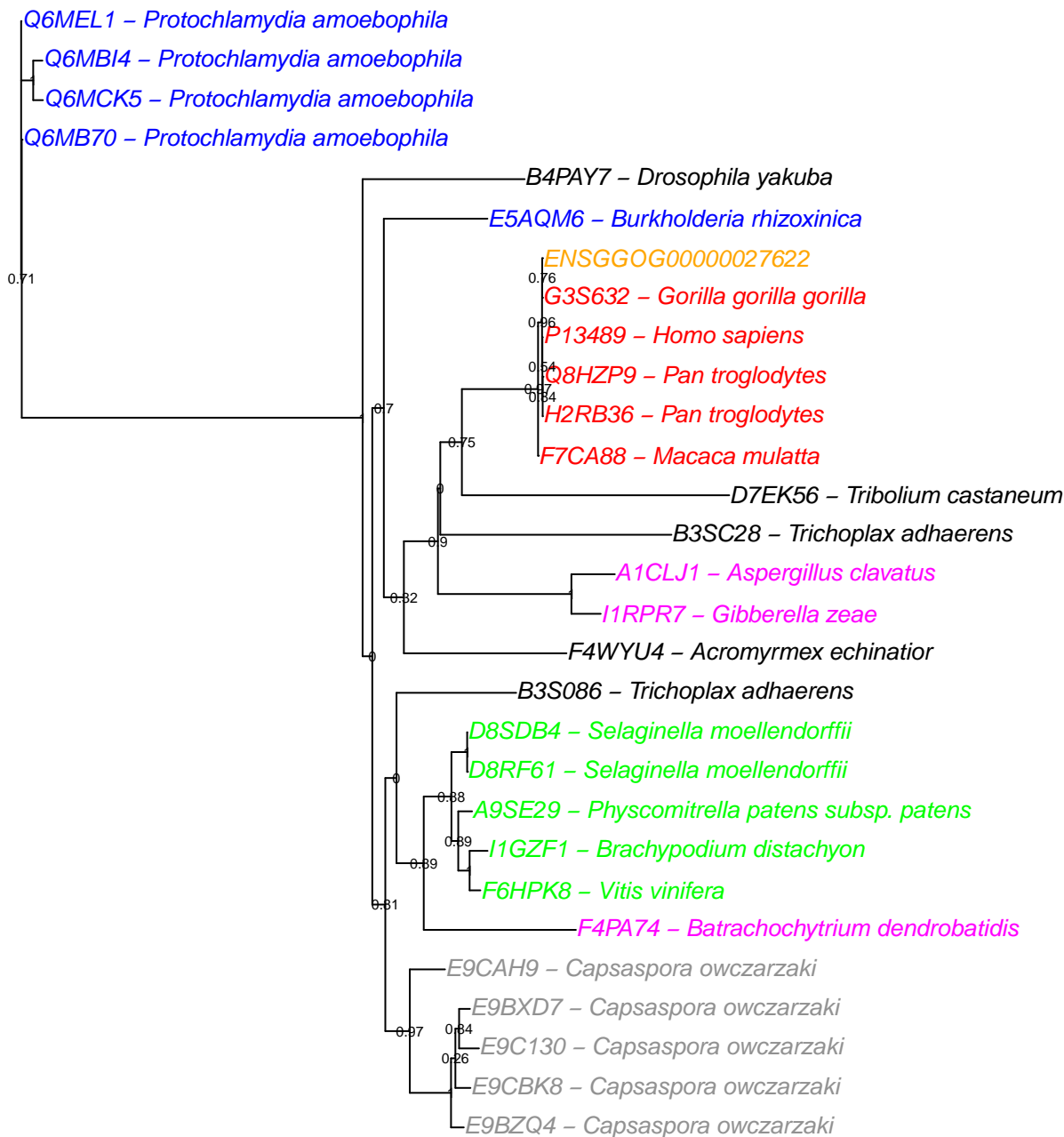
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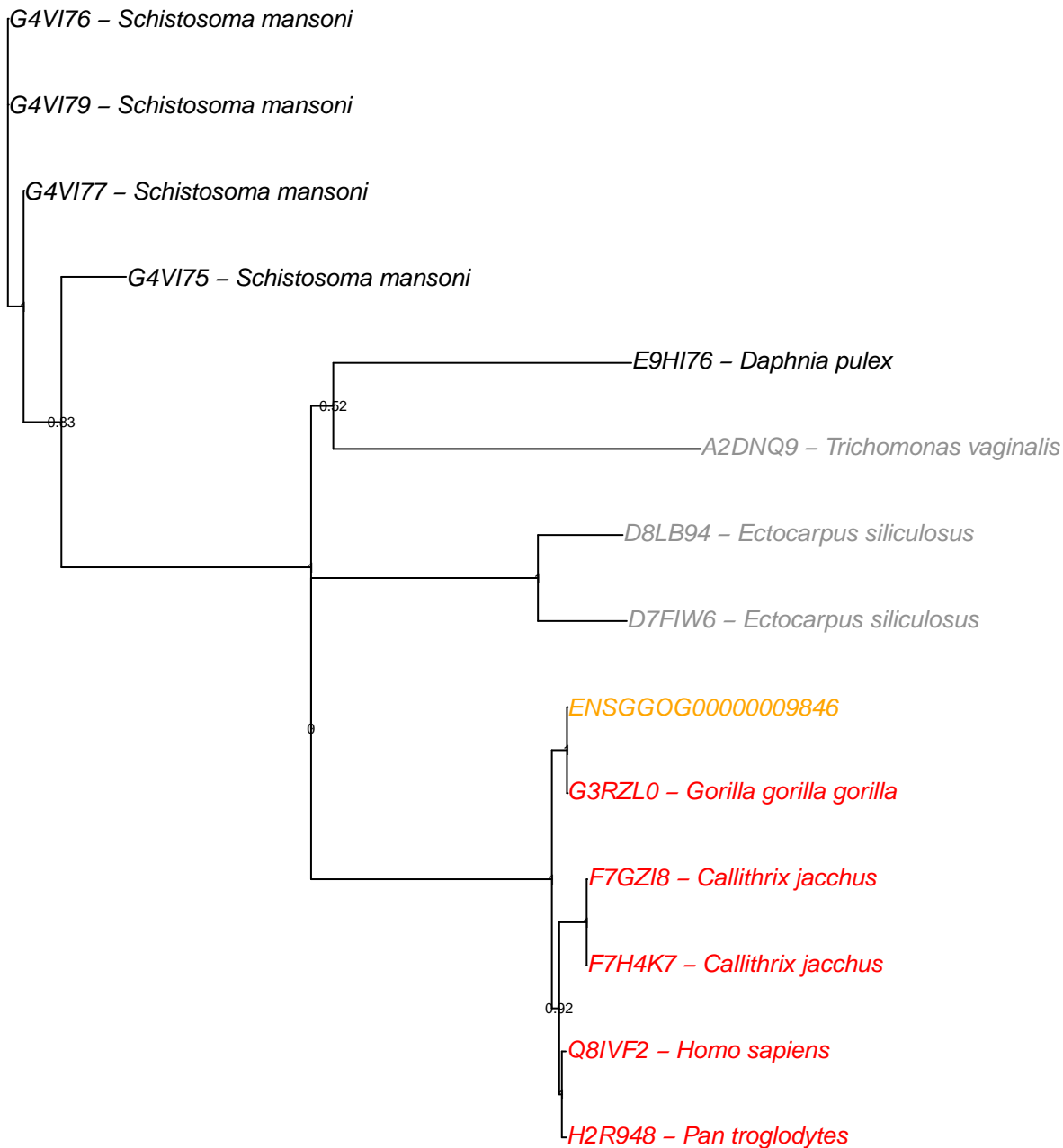


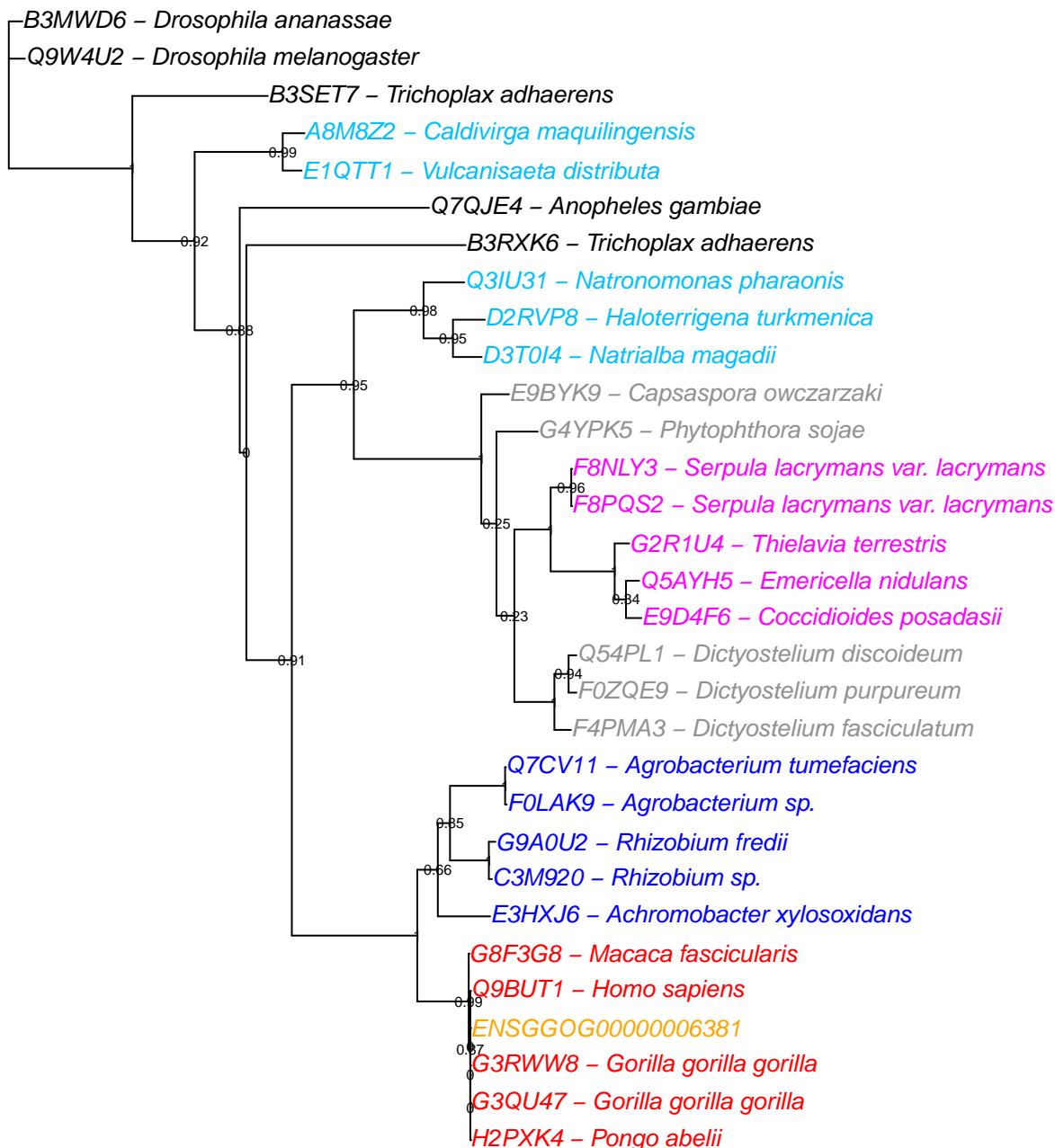


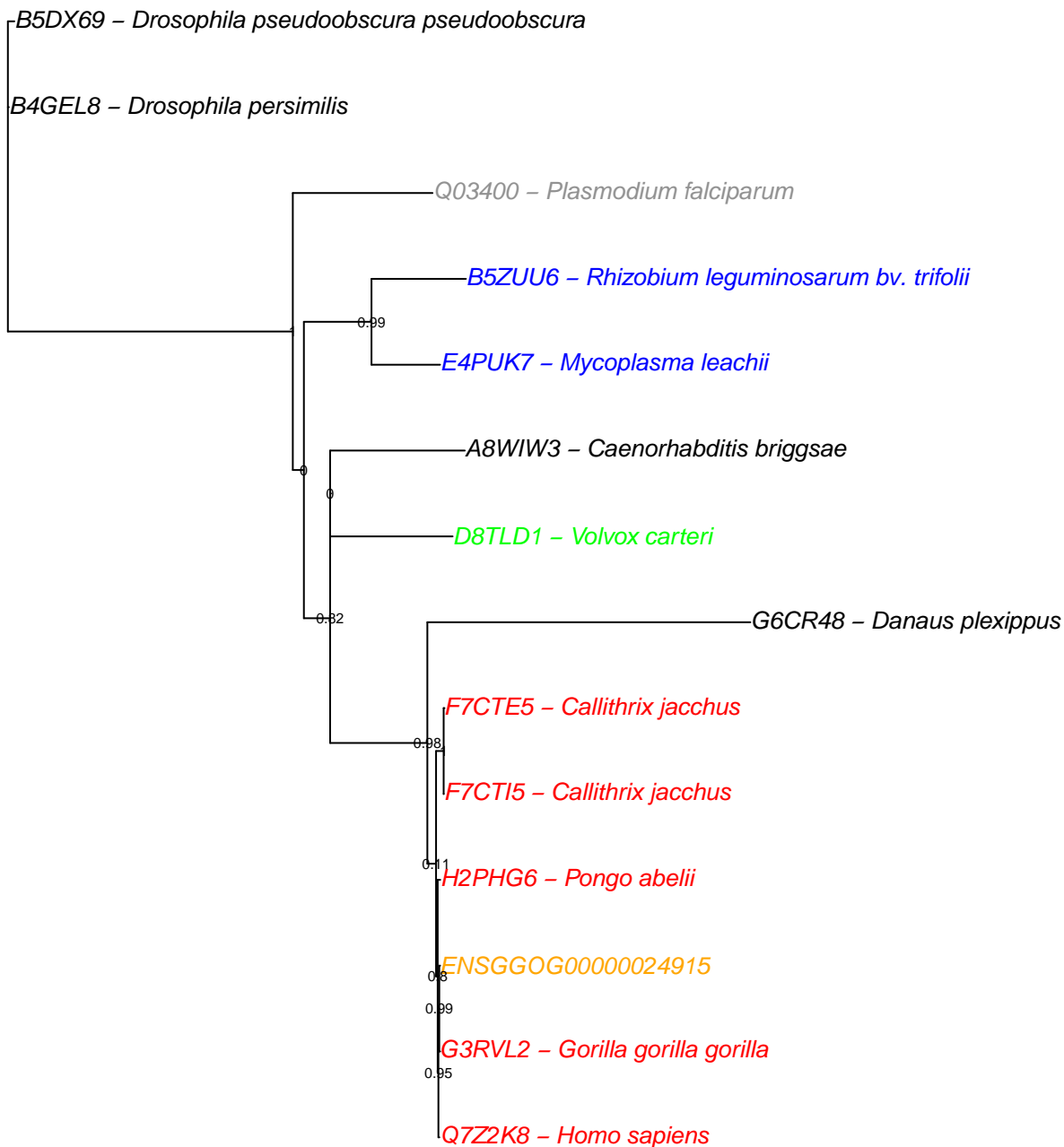


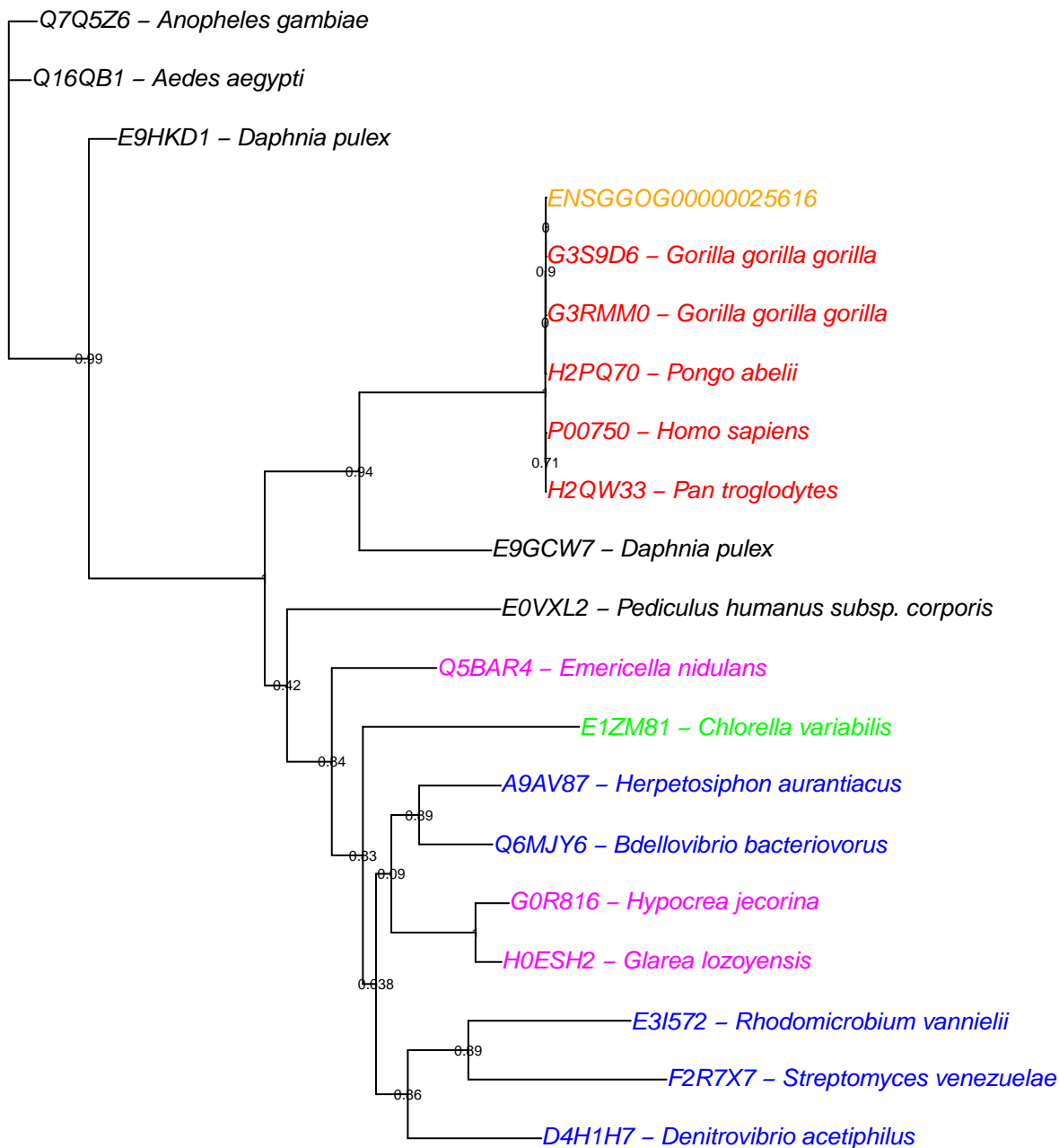


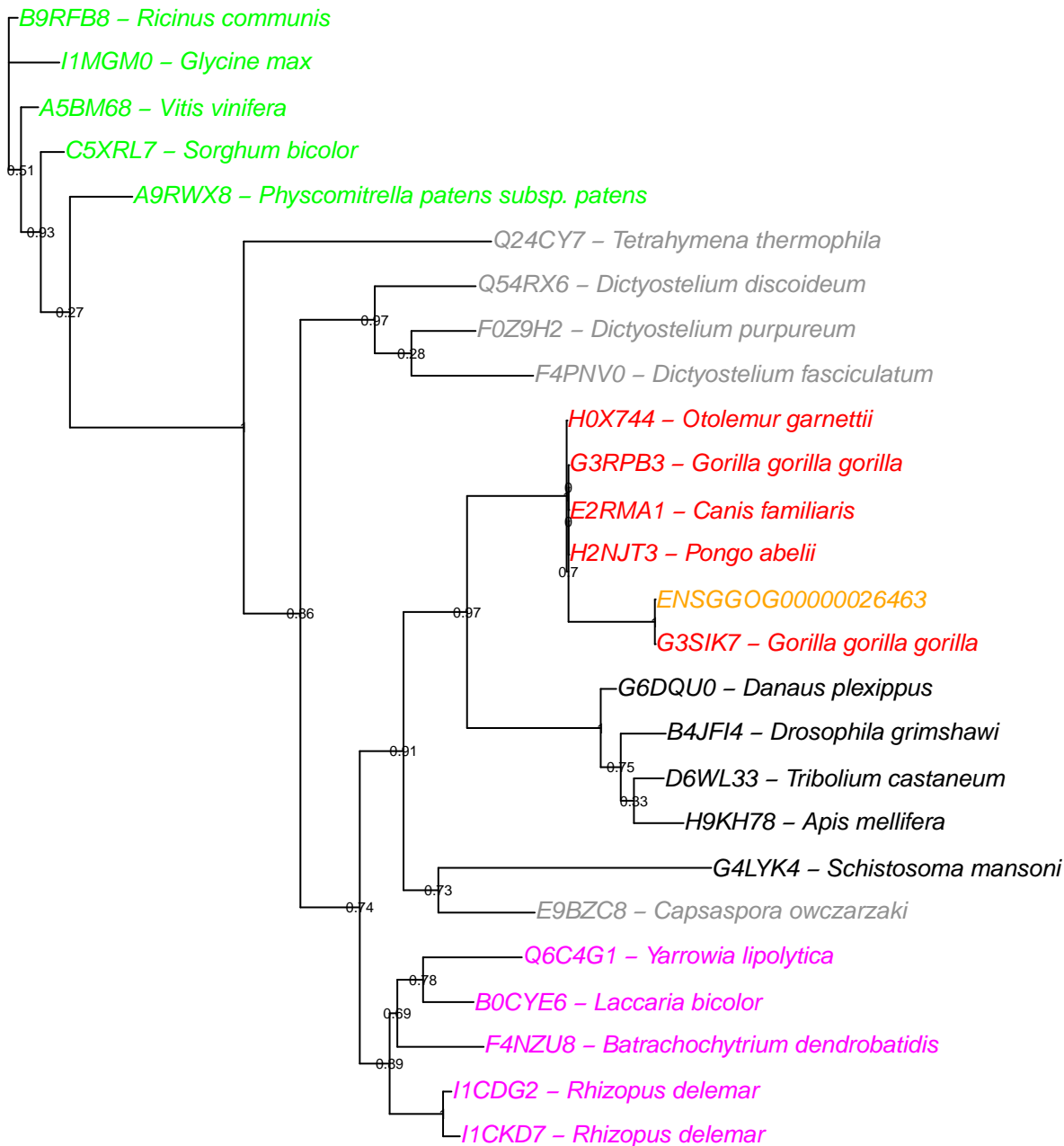


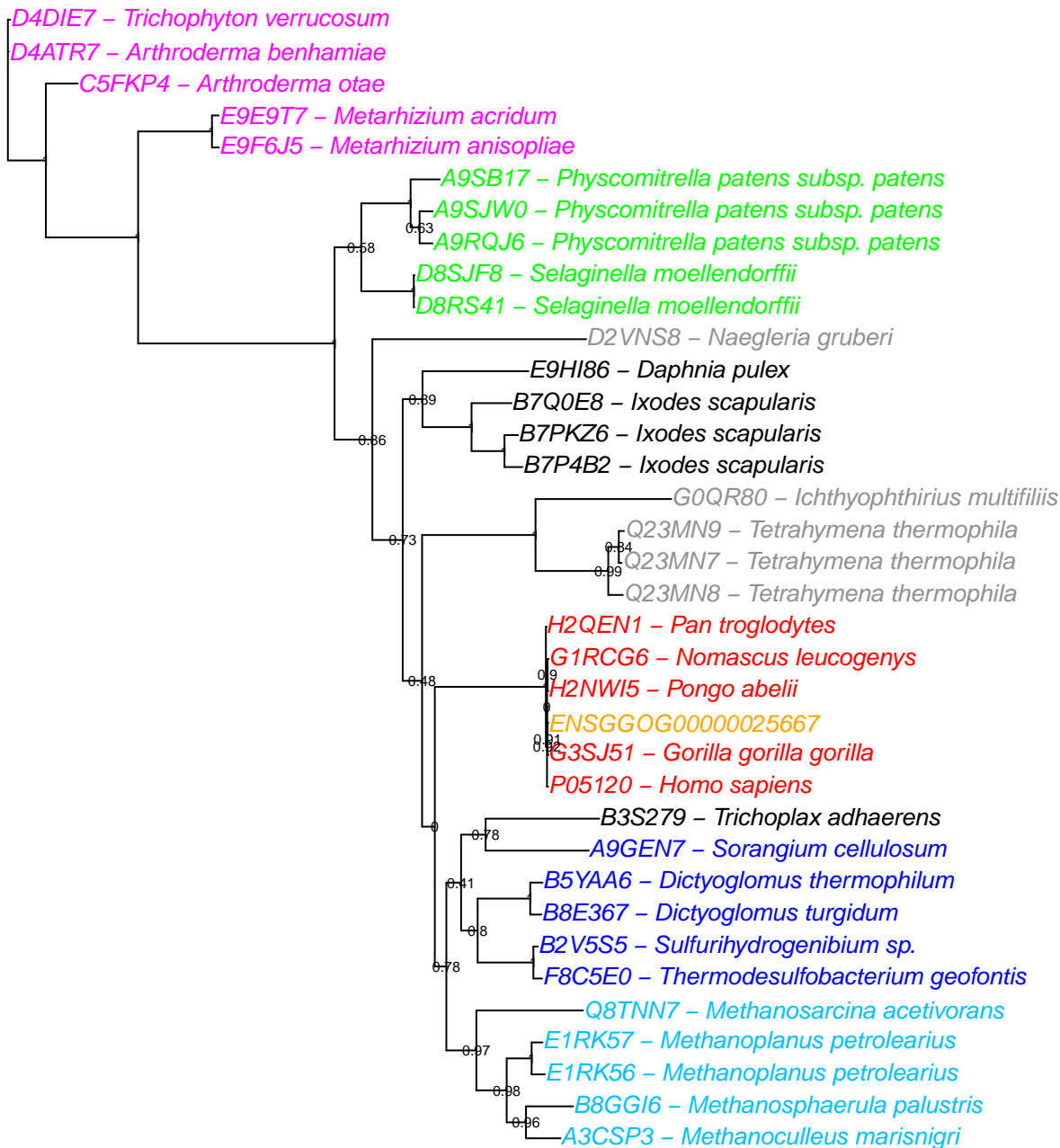












A5VKZ1 – *Lactobacillus reuteri*

B2G8C6 – *Lactobacillus reuteri*

F1MCK2 – *Bos taurus*

G1LJN6 – *Ailuropoda melanoleuca*

H2QPH0 – *Pan troglodytes*

Q09666 – *Homo sapiens*

ENSGGOG000000026177

G3S9N5 – *Gorilla gorilla gorilla*

G4VI75 – *Schistosoma mansoni*

G4VI77 – *Schistosoma mansoni*

G4VI76 – *Schistosoma mansoni*

G4VI79 – *Schistosoma mansoni*

B3L2C1 – *Plasmodium knowlesi*

E9HI76 – *Daphnia pulex*

A6LWL3 – *Clostridium beijerinckii*

E1Z7E0 – *Chlorella variabilis*

E8UK14 – *Streptococcus suis*

A4VZ88 – *Streptococcus suis*

Q0UTZ6 – *Phaeosphaeria nodorum*

G1X3R9 – *Arthrobotrys oligospora*

F4PCB1 – *Batrachochytrium dendrobatidis*

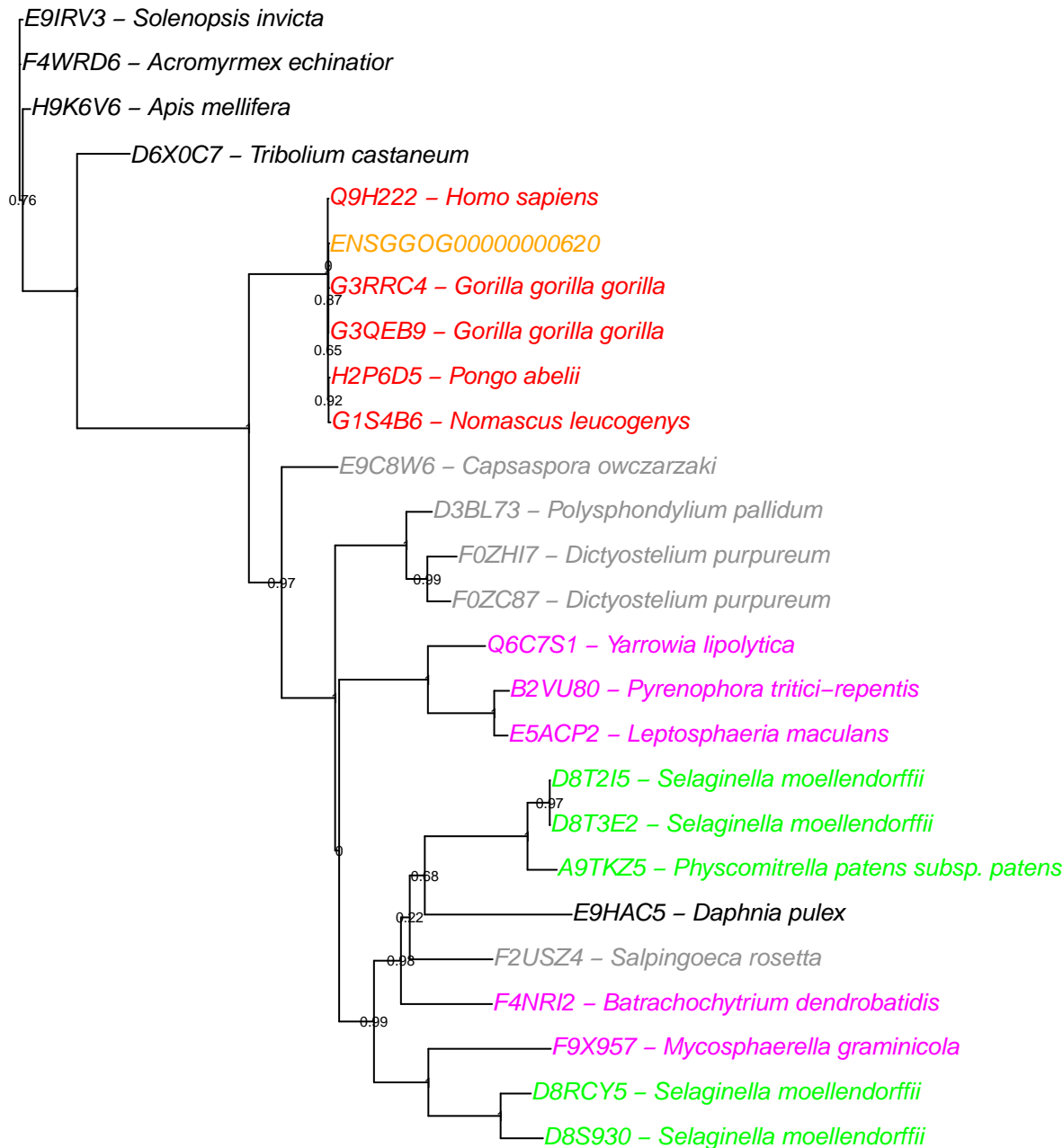
C0SE10 – *Paracoccidioides brasiliensis*

A2DNQ9 – *Trichomonas vaginalis*

D7FIW6 – *Ectocarpus siliculosus*

D8LB94 – *Ectocarpus siliculosus*

B3L1B6 – *Plasmodium knowlesi*



A6UMC3 – *Sinorhizobium medicae*

F6BZY2 – *Sinorhizobium meliloti*

E4SPX6 – *Streptococcus thermophilus*

Q03MS9 – *Streptococcus thermophilus*

C3LL95 – *Bacillus anthracis*

Q0CAX2 – *Aspergillus terreus*

F7H7U8 – *Macaca mulatta*

Q92839 – *Homo sapiens*

G3V1S7 – *Homo sapiens*

G3S833 – *Gorilla gorilla gorilla*

ENSGGOG00000028194

G3SGN1 – *Gorilla gorilla gorilla*

I1C447 – *Rhizopus delemar*

F9FZM0 – *Fusarium oxysporum*

B8PCC4 – *Postia placenta*

B8PKM3 – *Postia placenta*

B8BZ32 – *Thalassiosira pseudonana*

B8BZ79 – *Thalassiosira pseudonana*

B5YNX7 – *Thalassiosira pseudonana*

B8C4Q2 – *Thalassiosira pseudonana*

C5WWR7 – *Sorghum bicolor*

H2VHT5 – *Caenorhabditis japonica*

A8XE88 – *Caenorhabditis briggsae*

G0NCW3 – *Caenorhabditis brenneri*

G0P120 – *Caenorhabditis brenneri*

G5ECD6 – *Caenorhabditis elegans*

E4NTD4 – *Halogeometricum borinquense*

B1L4E1 – *Korarchaeum cryptofilum*

F4G0D4 – *Metallosphaera cuprina*

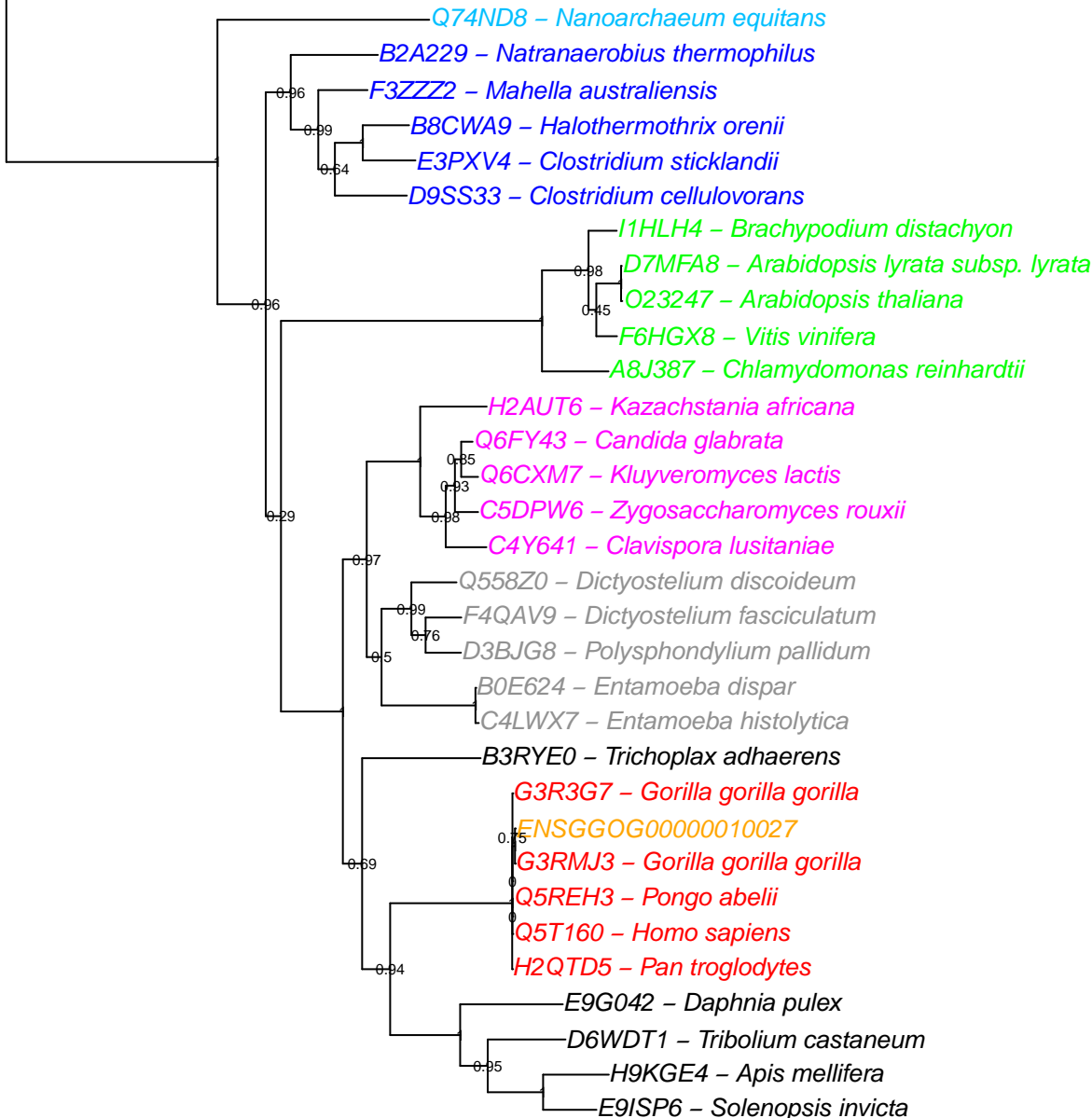
Q9HJU0 – *Thermoplasma acidophilum*

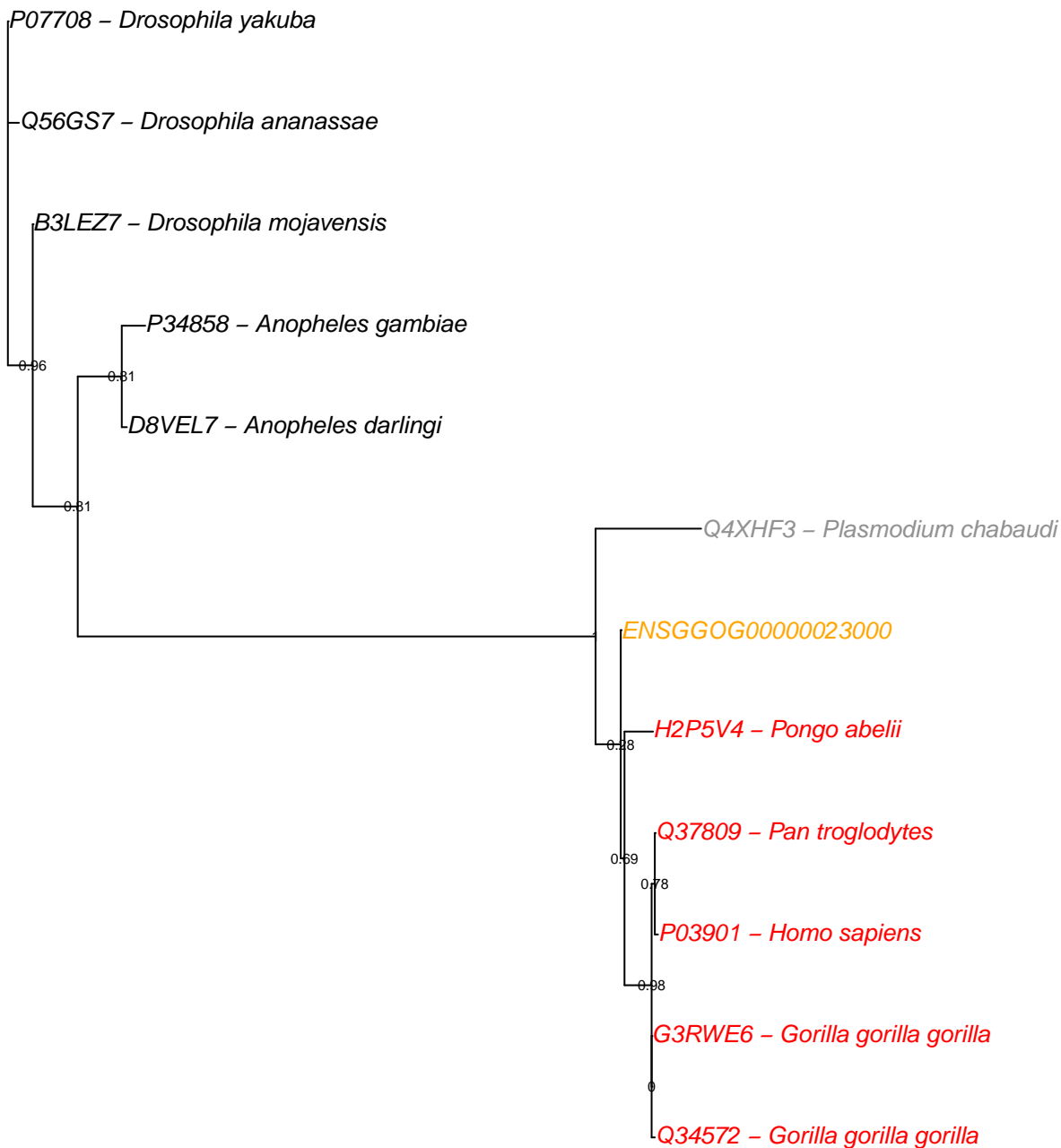
D0KUP2 – *Sulfolobus solfataricus*

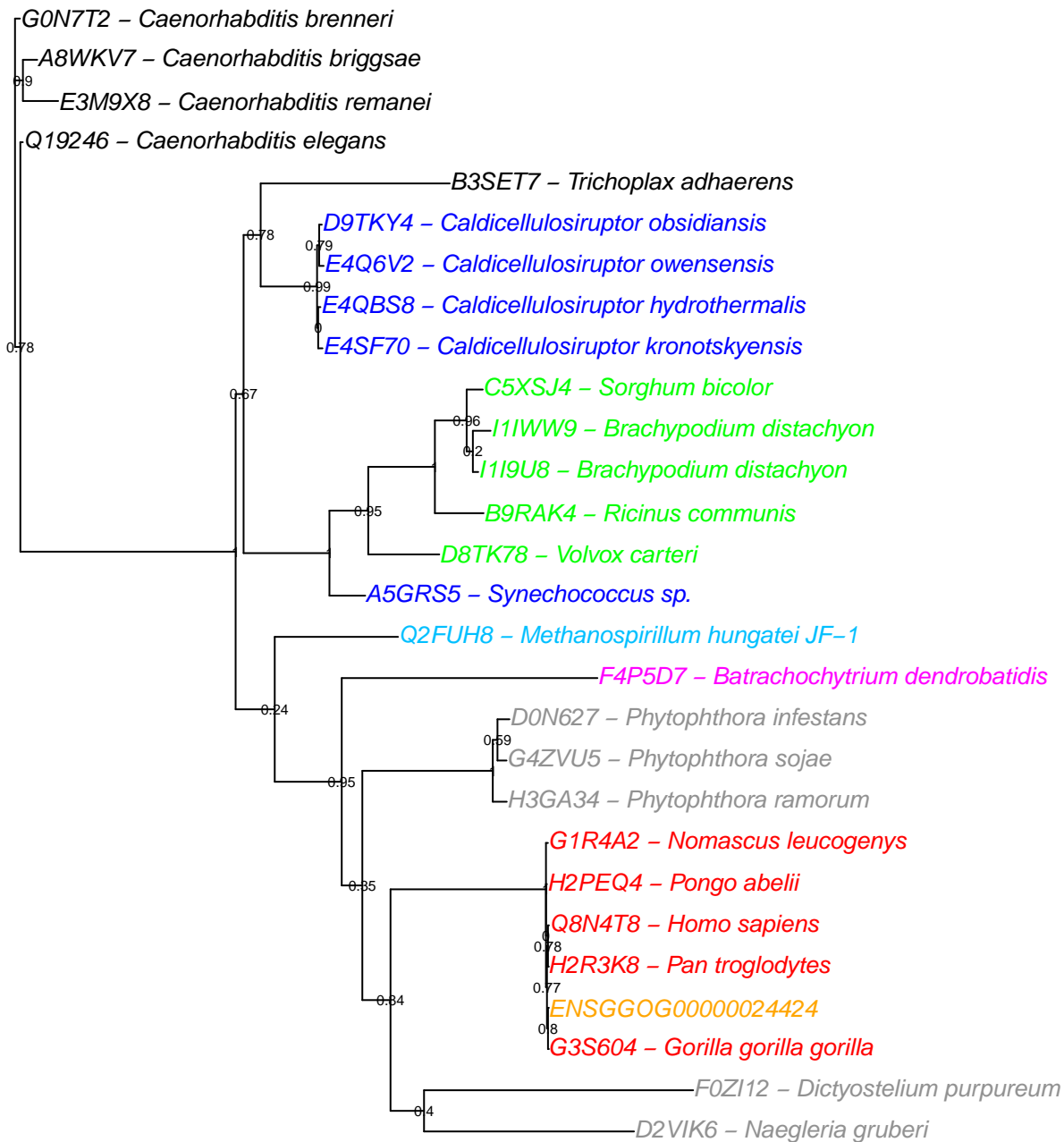
D7G7X6 – *Ectocarpus siliculosus*

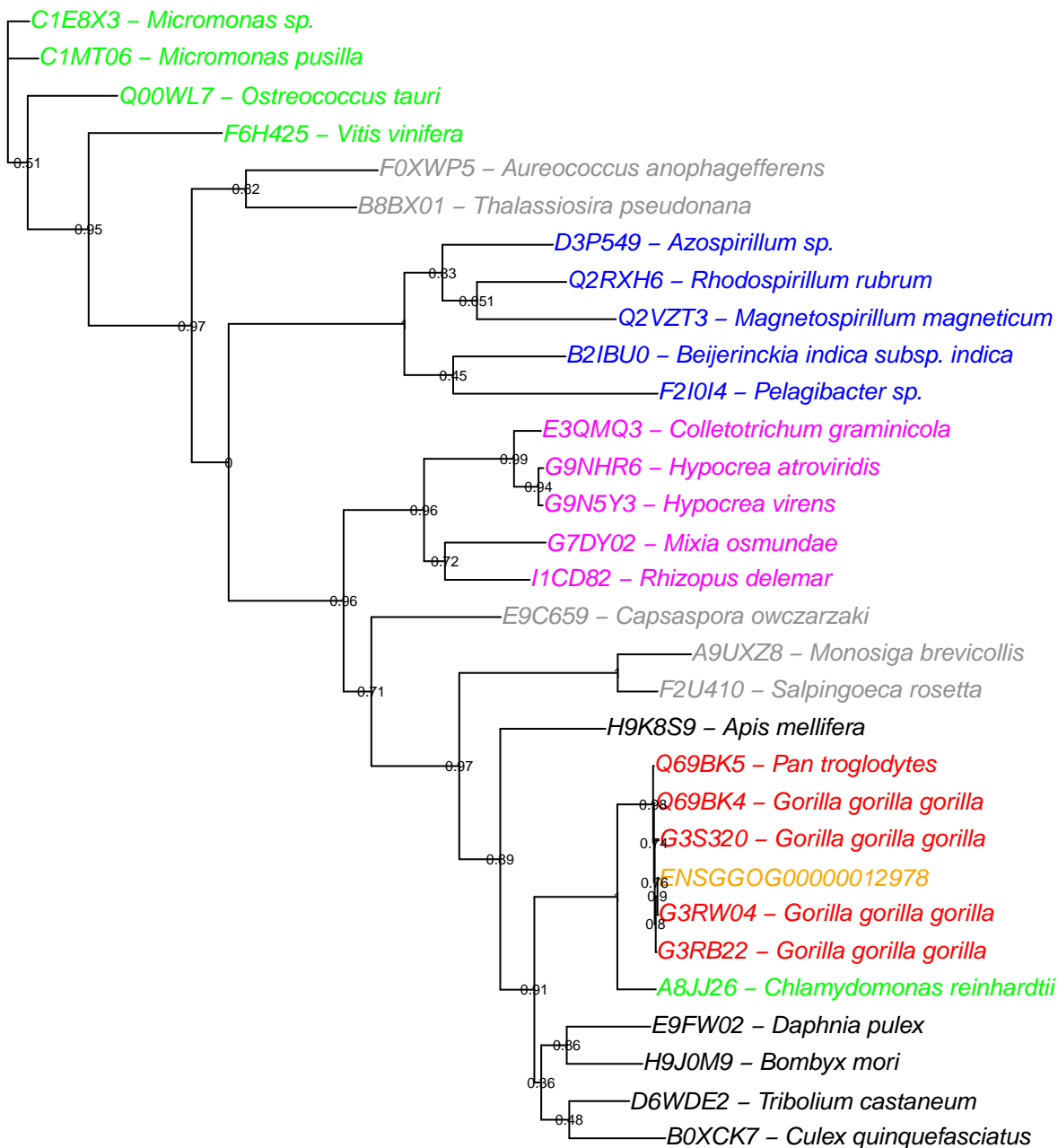
B0R9X1 – *Halobacterium salinarum*

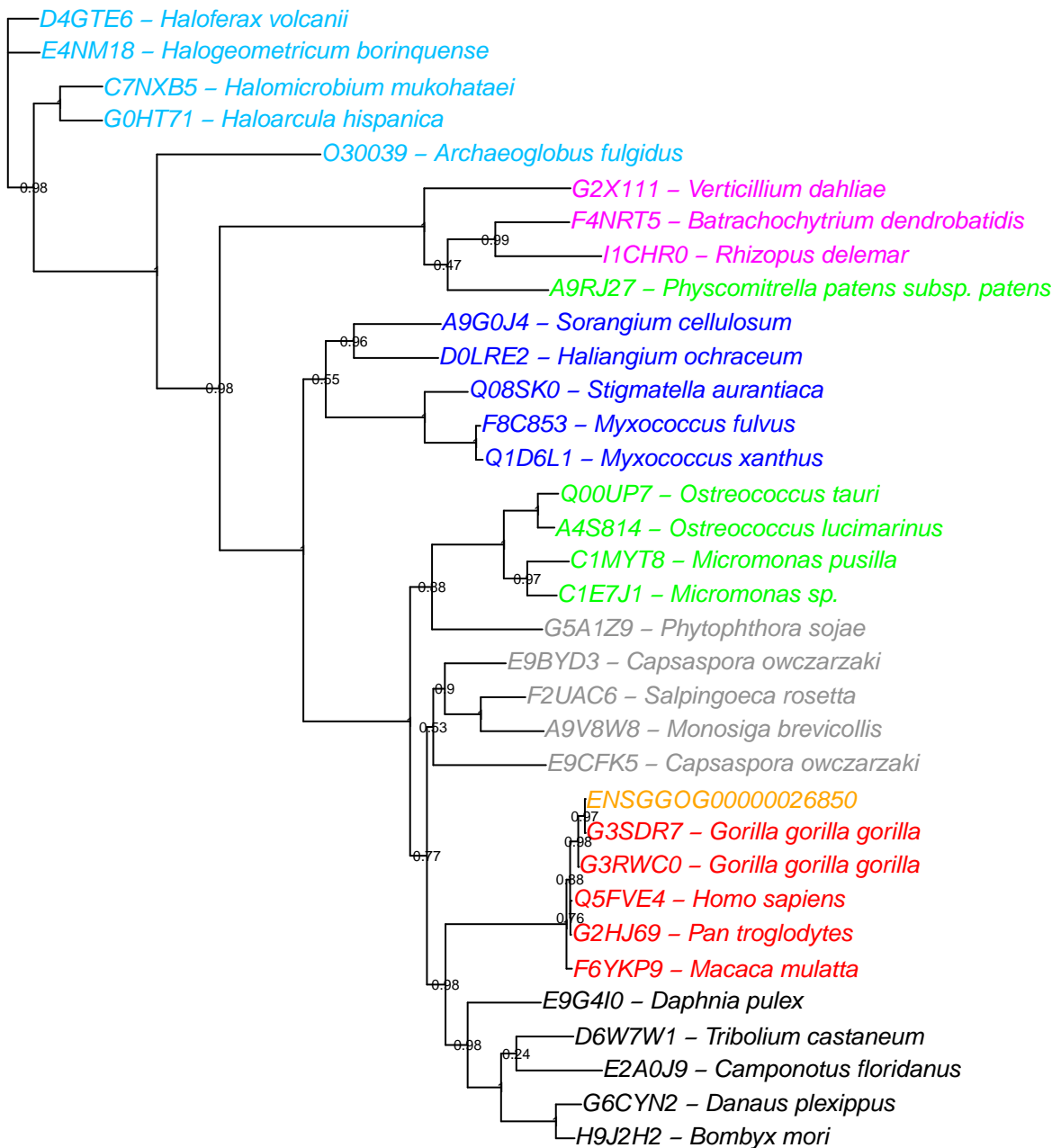
Q9HHN2 – *Halobacterium salinarum*

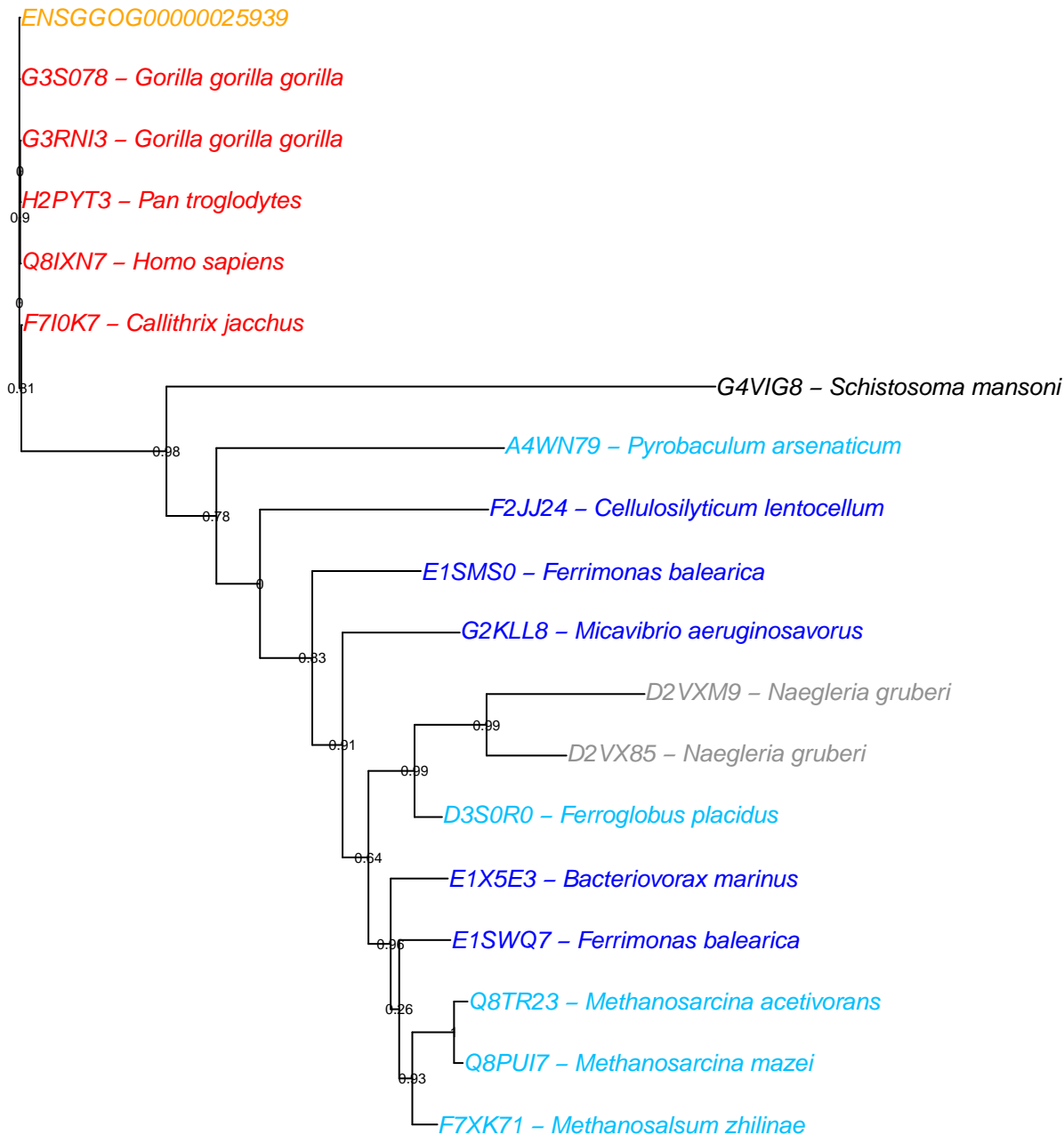


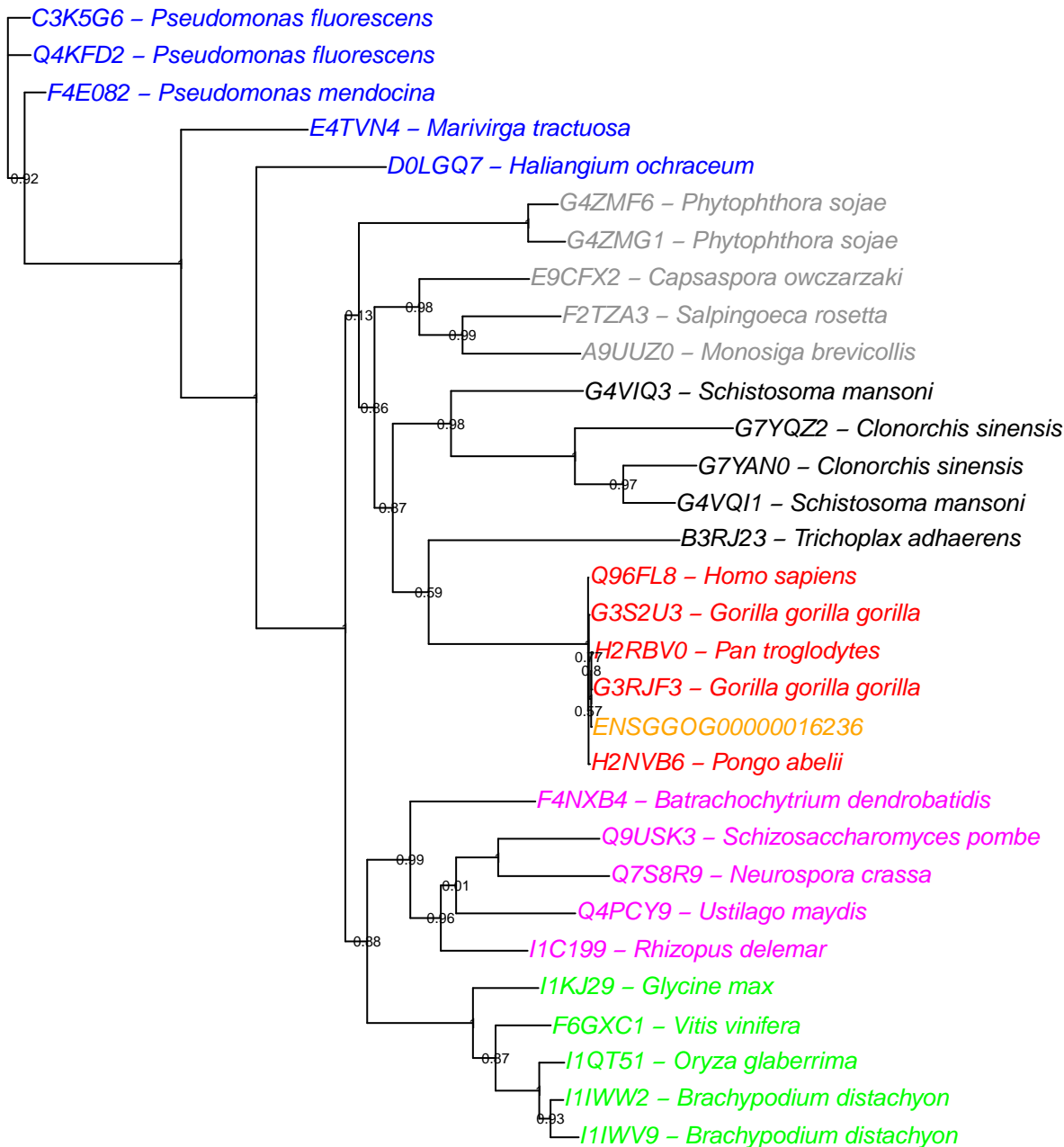


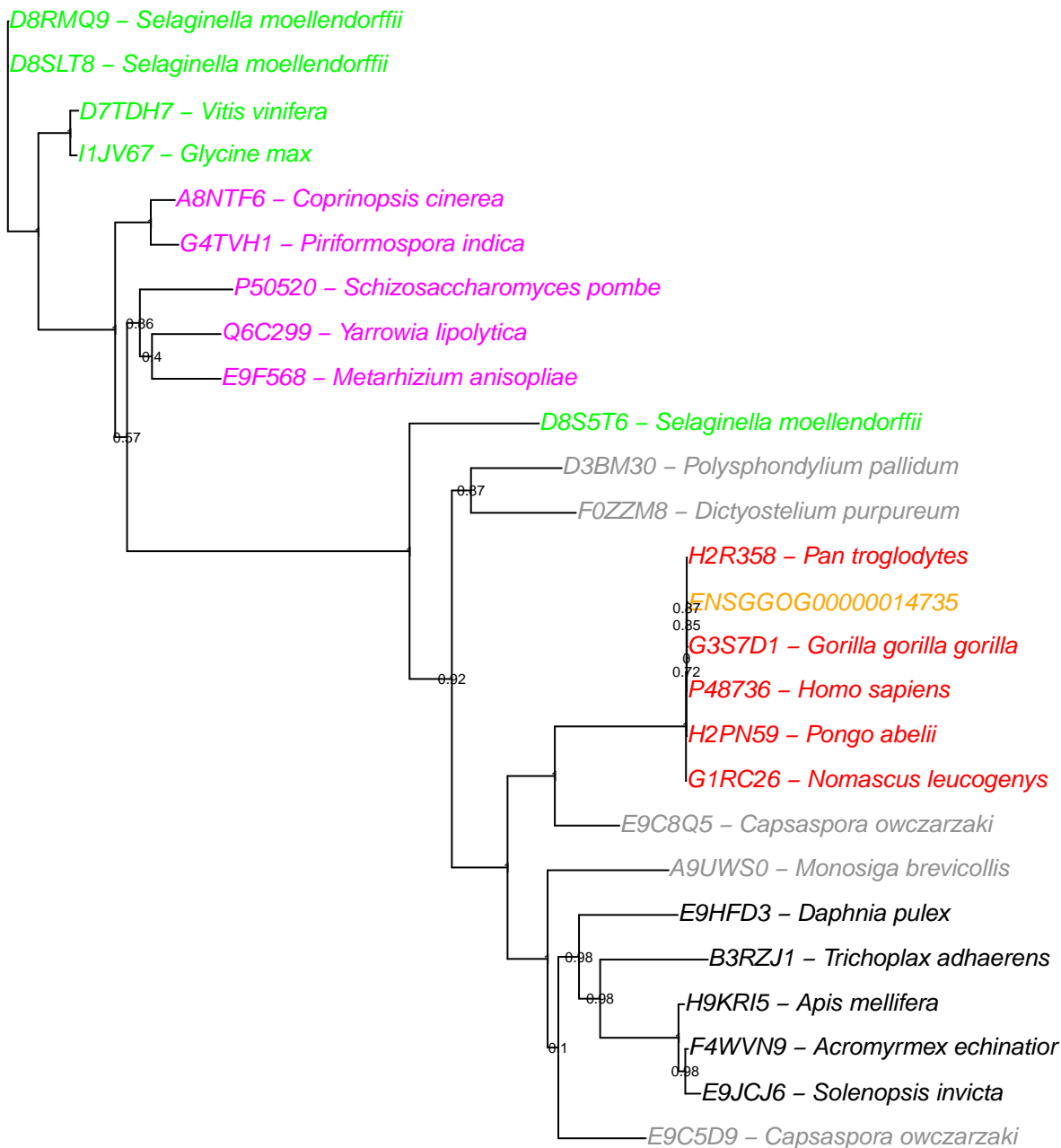






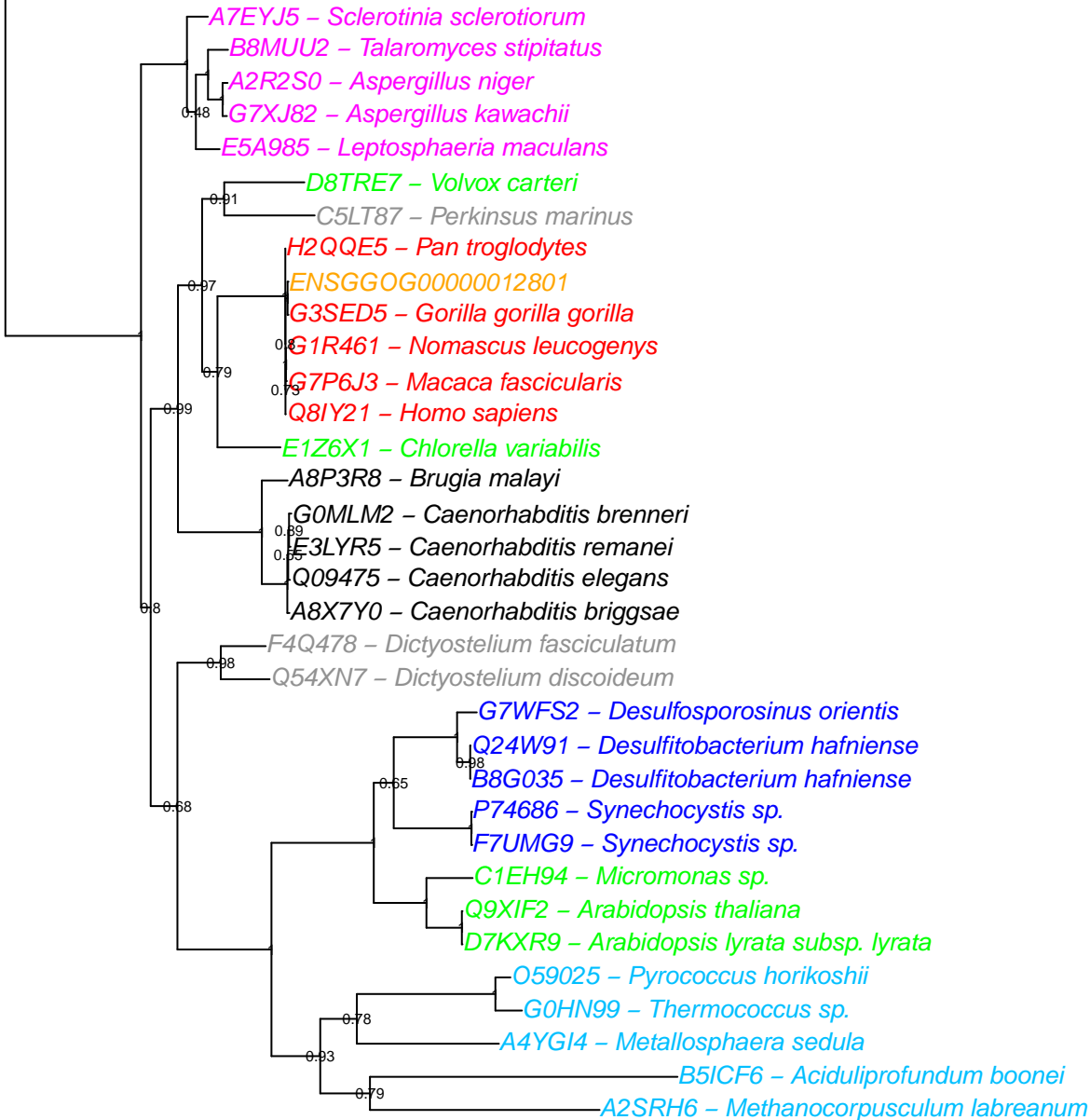






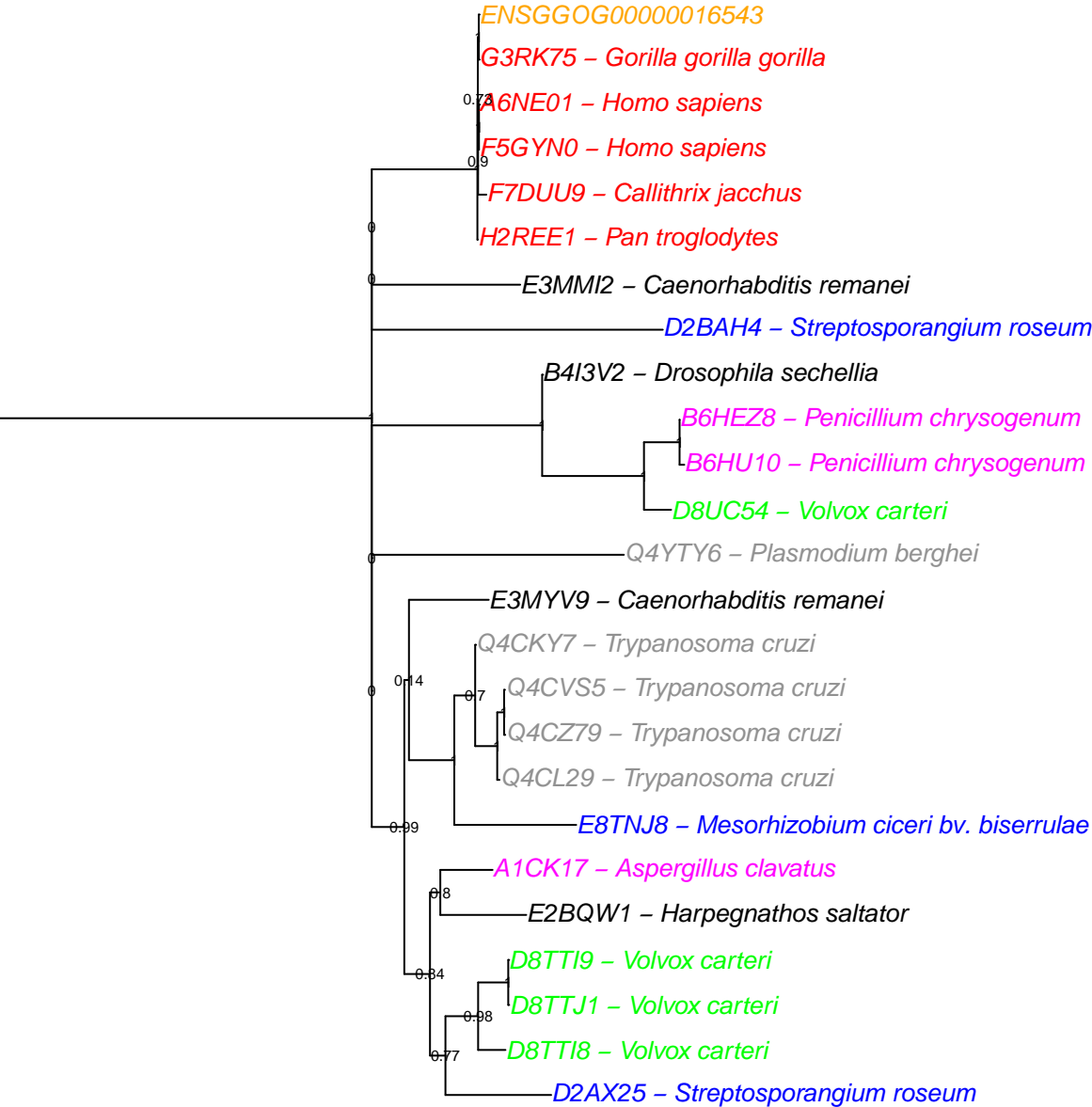
Q582X2 – *Trypanosoma brucei brucei*

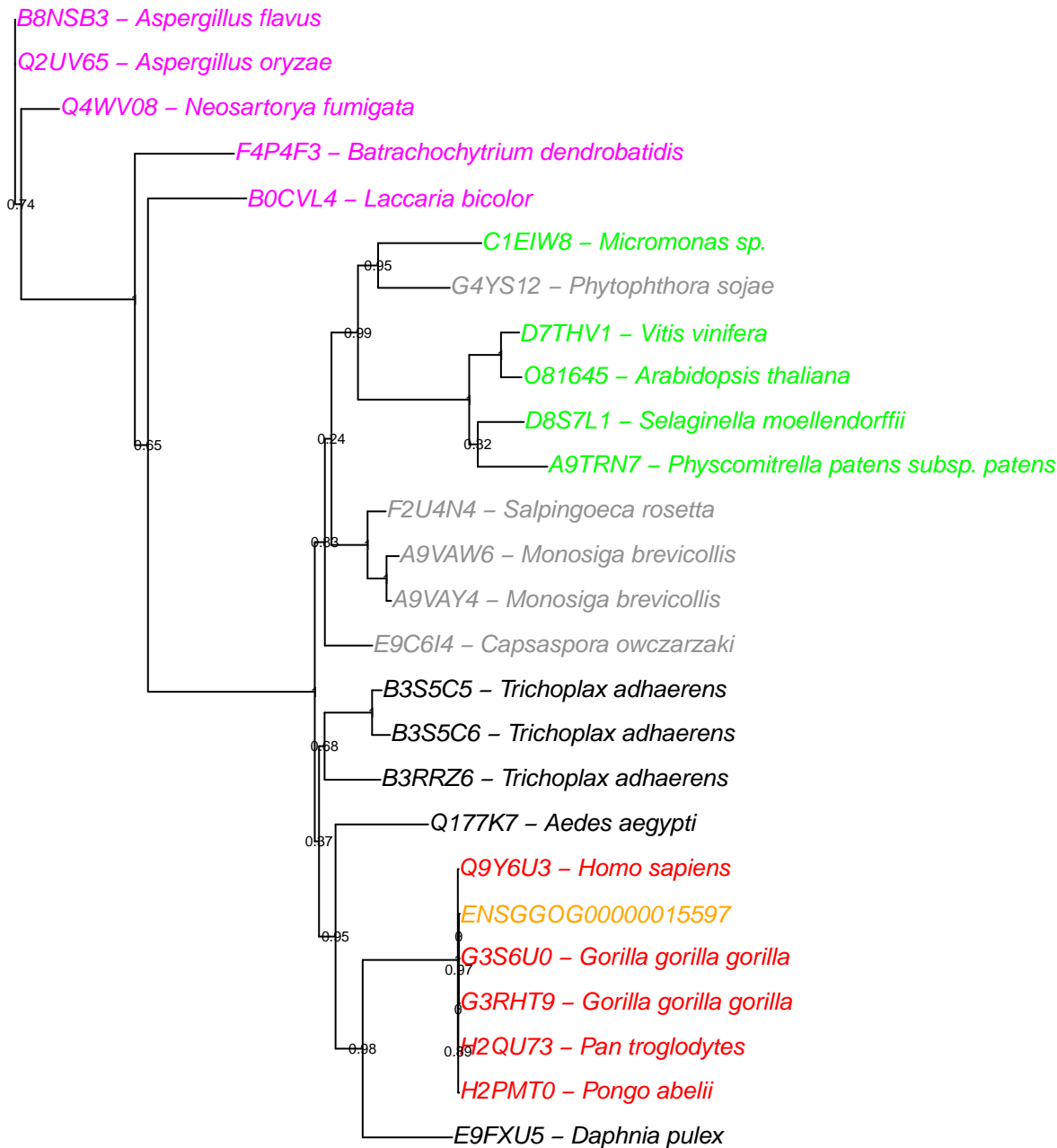
C9ZKG1 – *Trypanosoma brucei gambiense*

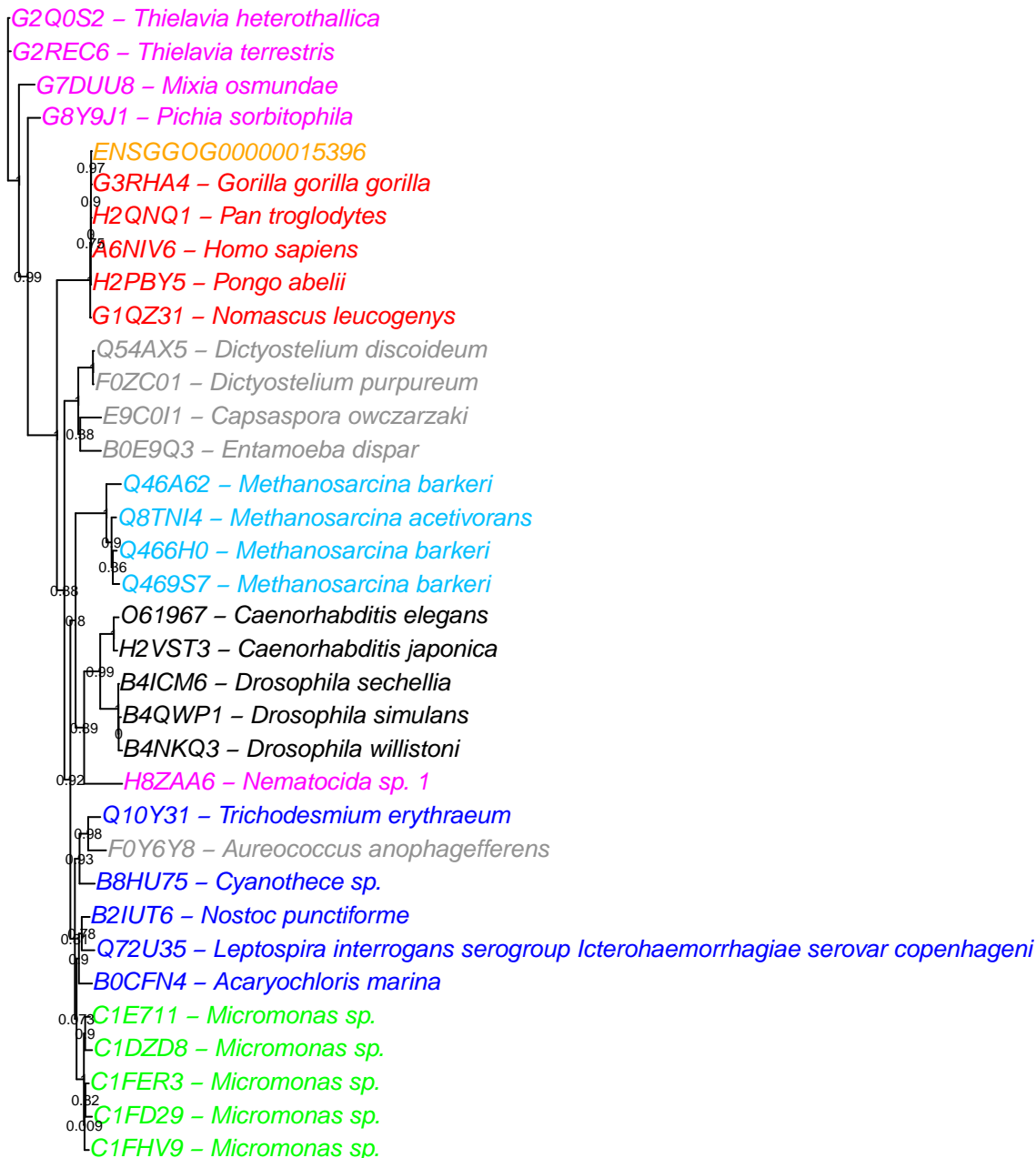


Q73GH9 – *Wolbachia pipientis* wMel

C0R400 – *Wolbachia* sp. subsp. *Drosophila simulans*







Q8DA23 – *Vibrio vulnificus*

E8VQK2 – Vibrio vulnificus

Q7MK56 – *Vibrio vulnificus*

-Q484F0 – *Colwellia psychrerythraea*

-H0ESH2 – *Glarea lozoyensis*

G0R816 – *Hypocrea jecorina*

– E5A5U3 – *Leptosphaeria maculans*

–E3RNS2 – *Pyrenophora teres* f. *teres*

– I1S303 – *Gibberella zeae*

-E9GC79 - *Daphnia pulex*

-B7PKT9 - Ixodes scapularis

-E9GCW7 – *Daphnia pulex*

H2Q245 – *Pan troglodytes*

ENSGGOG00000015266

G3RGY4 – *Gorilla gorilla gorilla*

P00749 – Homo sapiens

Q5RF29 – *Pongo abelii*

E7ET40 – *Homo sapiens*

-A9AV87 – *Herpetosiphon aurantiacus*

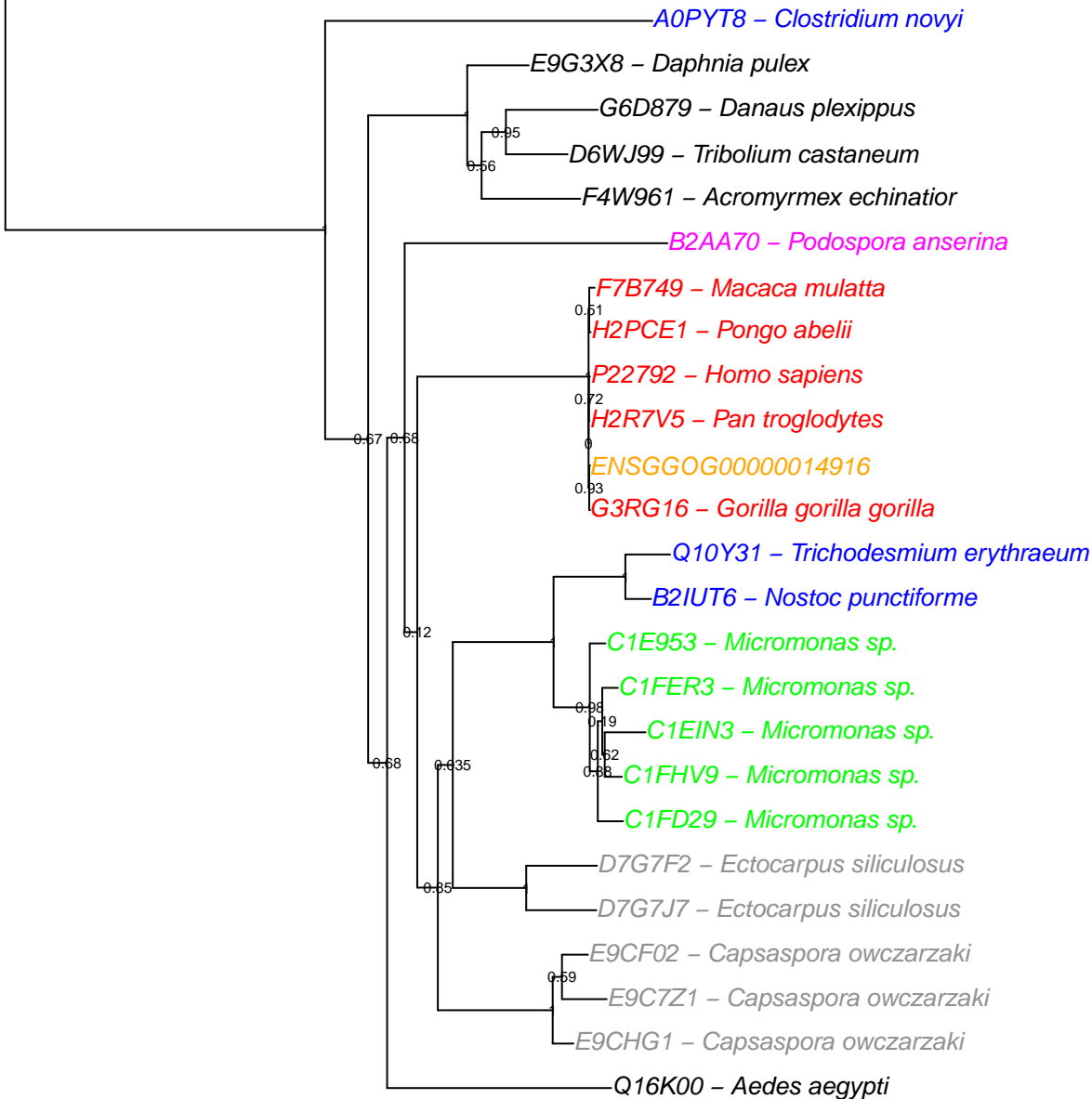
-B3RY72 – *Trichoplax adhaerens*

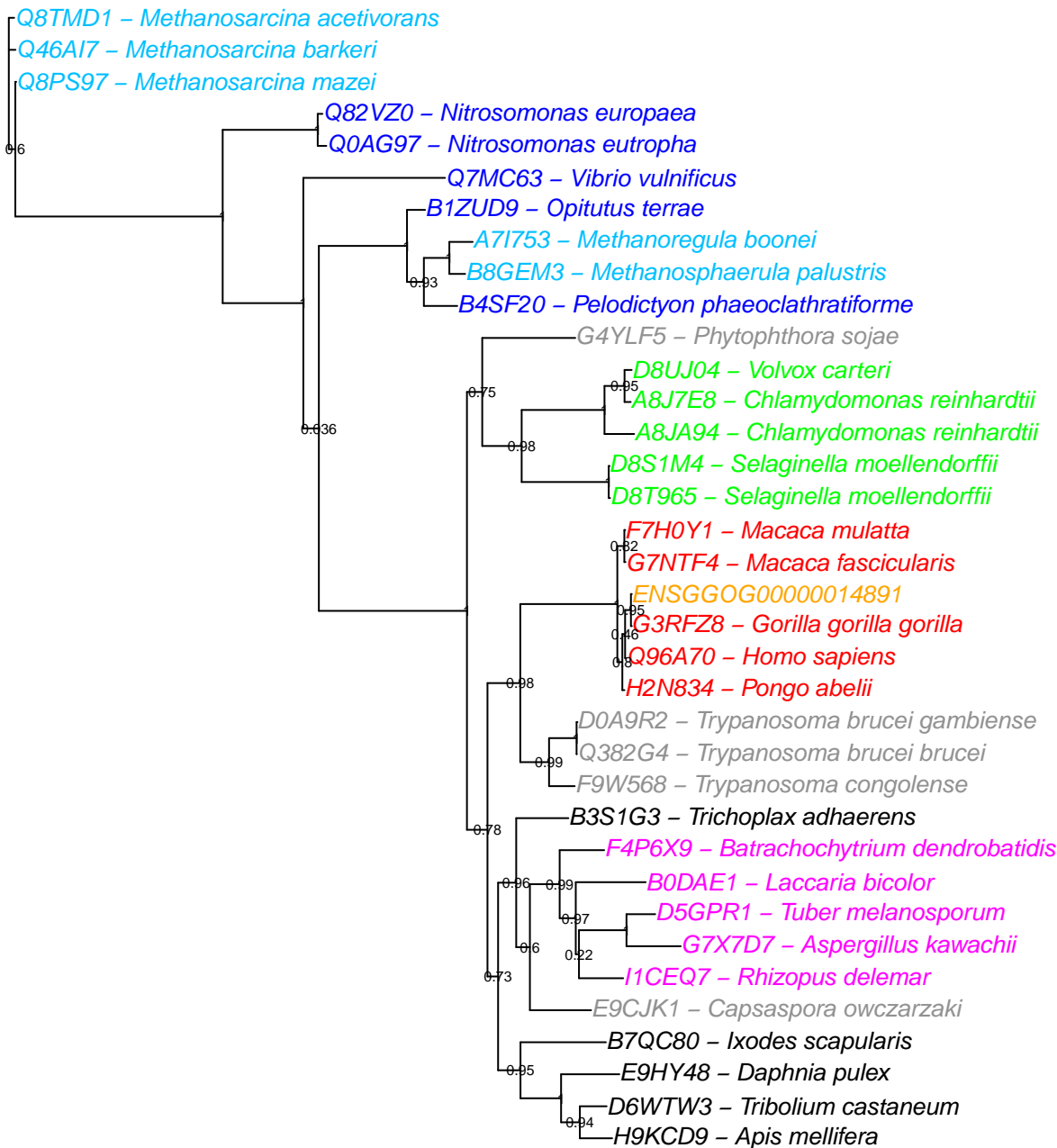
-B3SC31 – *Trichoplax adhaerens*

-E1ZM81 – *Chlorella variabilis*

F8IPN2 – *Streptococcus equi* subsp. *zooepidemicus*

C0MEB5 – *Streptococcus equi* subsp. *zooepidemicus*





D8QRF8 – *Selaginella moellendorffii*

D8RJE3 – *Selaginella moellendorffii*

B9KXI3 – *Thermomicrobium roseum*

D1C273 – *Sphaerobacter thermophilus*

D1CEP3 – *Thermobaculum terrenum*

C7PVW8 – *Catenulispora acidiphila*

Q2JJ39 – *Synechococcus* sp.

ENSGGOG00000014778

G3RFR0 – *Gorilla gorilla gorilla*

H2QQE6 – *Pan troglodytes*

Q5H9U9 – *Homo sapiens*

H2PEQ0 – *Pongo abelii*

G1R463 – *Nomascus leucogenys*

E1Z6X1 – *Chlorella variabilis*

D8TRE7 – *Volvox carteri*

A8P3R8 – *Brugia malayi*

G0MLM2 – *Caenorhabditis brenneri*

E3LYR5 – *Caenorhabditis remanei*

Q09475 – *Caenorhabditis elegans*

A8X7Y0 – *Caenorhabditis briggsae*

F4Q478 – *Dictyostelium fasciculatum*

F0ZME4 – *Dictyostelium purpureum*

Q54XN7 – *Dictyostelium discoideum*

F4PHU3 – *Dictyostelium fasciculatum*

D8TRE6 – *Volvox carteri*

F2U1T7 – *Salpingoeca rosetta*

A7EYJ5 – *Sclerotinia sclerotiorum*

B8MUU2 – *Talaromyces stipitatus*

G7XJ82 – *Aspergillus kawachii*

C5P1B0 – *Coccidioides posadasii*

E9D9M3 – *Coccidioides posadasii*

F2L1D6 – *Thermoproteus uzoniensis*

A1RTP0 – *Pyrobaculum islandicum*

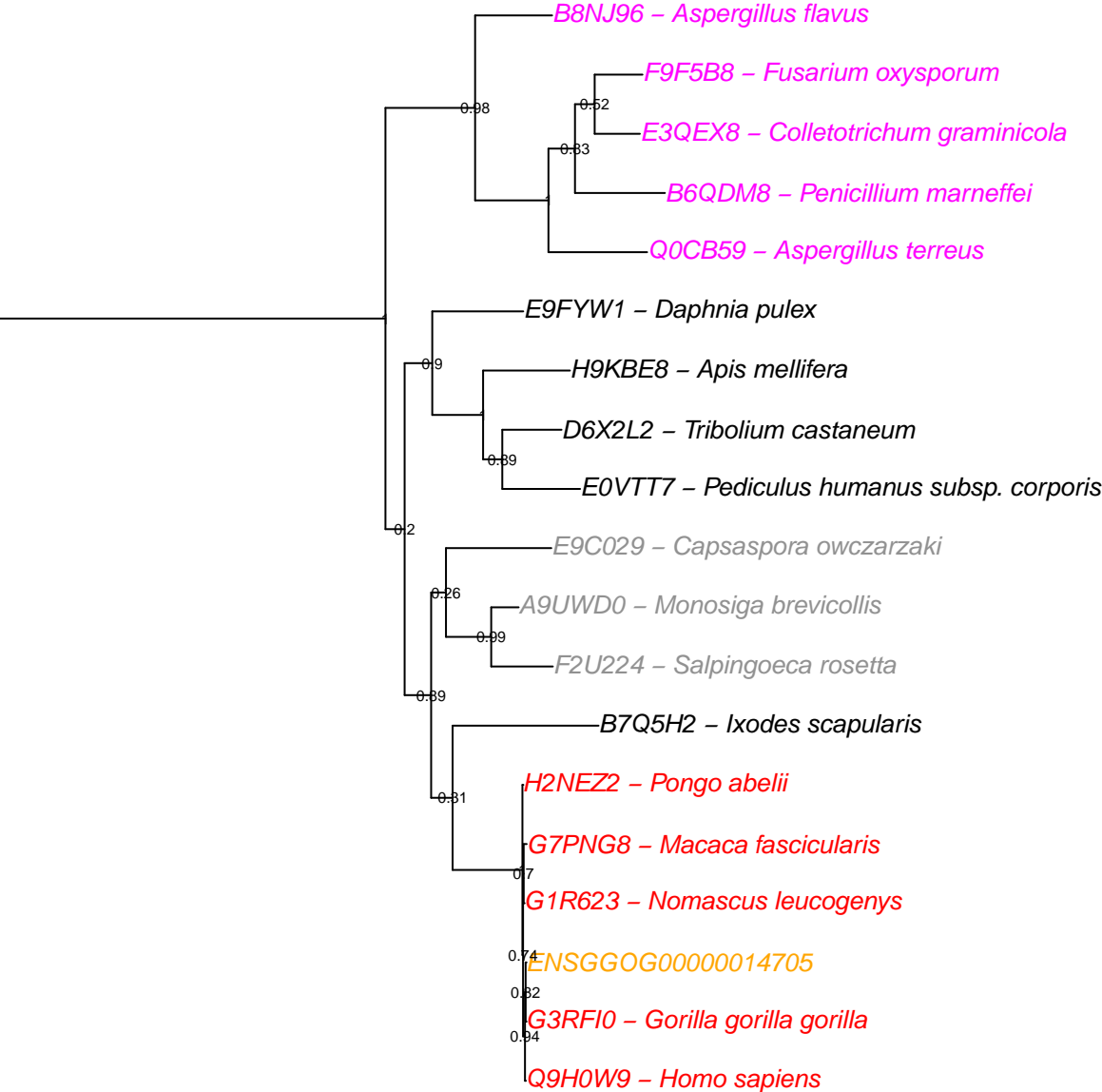
Q8ZY90 – *Pyrobaculum aerophilum*

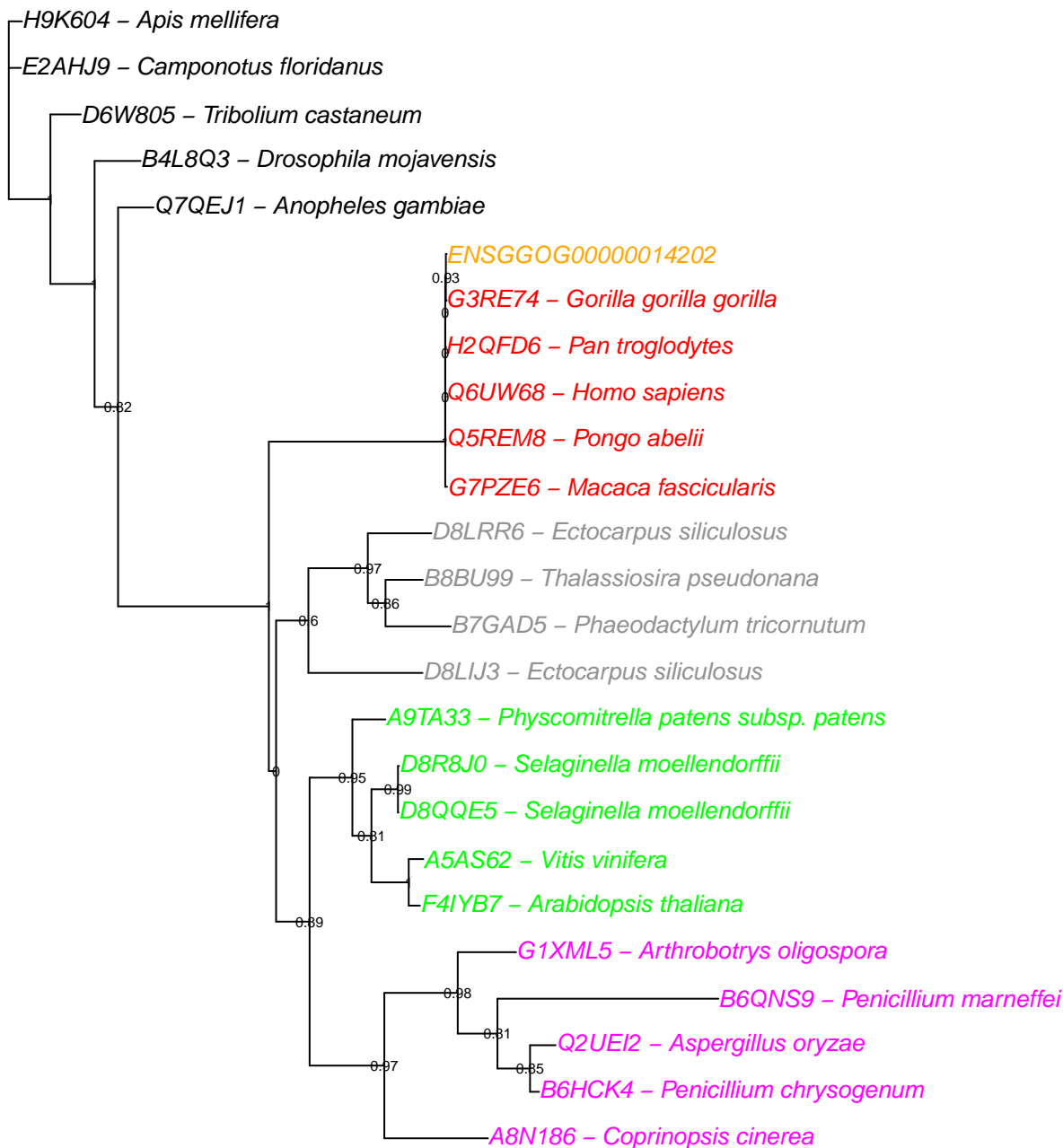
B1L6M0 – *Korarchaeum cryptofilum*

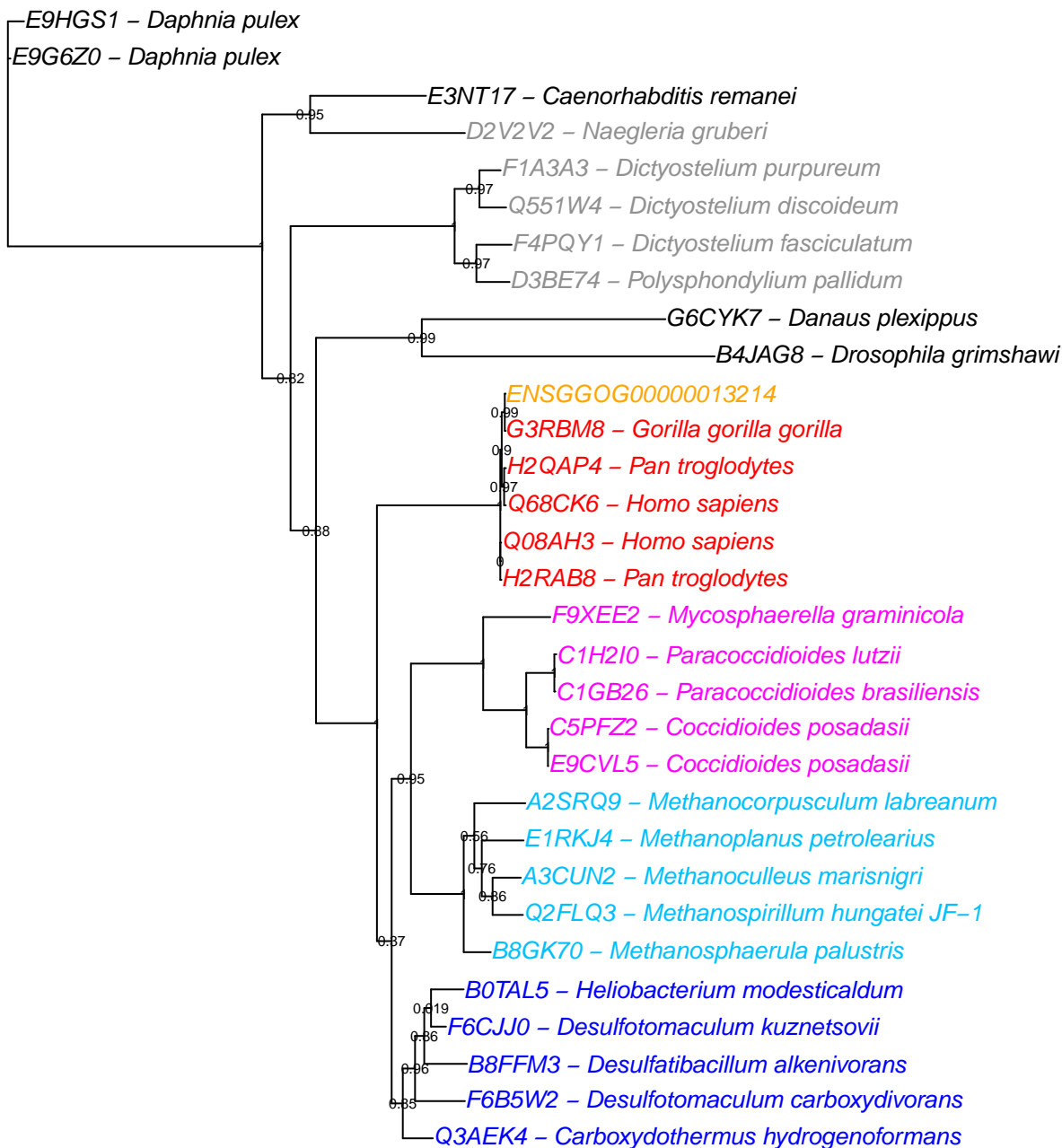
Q46DX3 – *Methanosarcina barkeri*

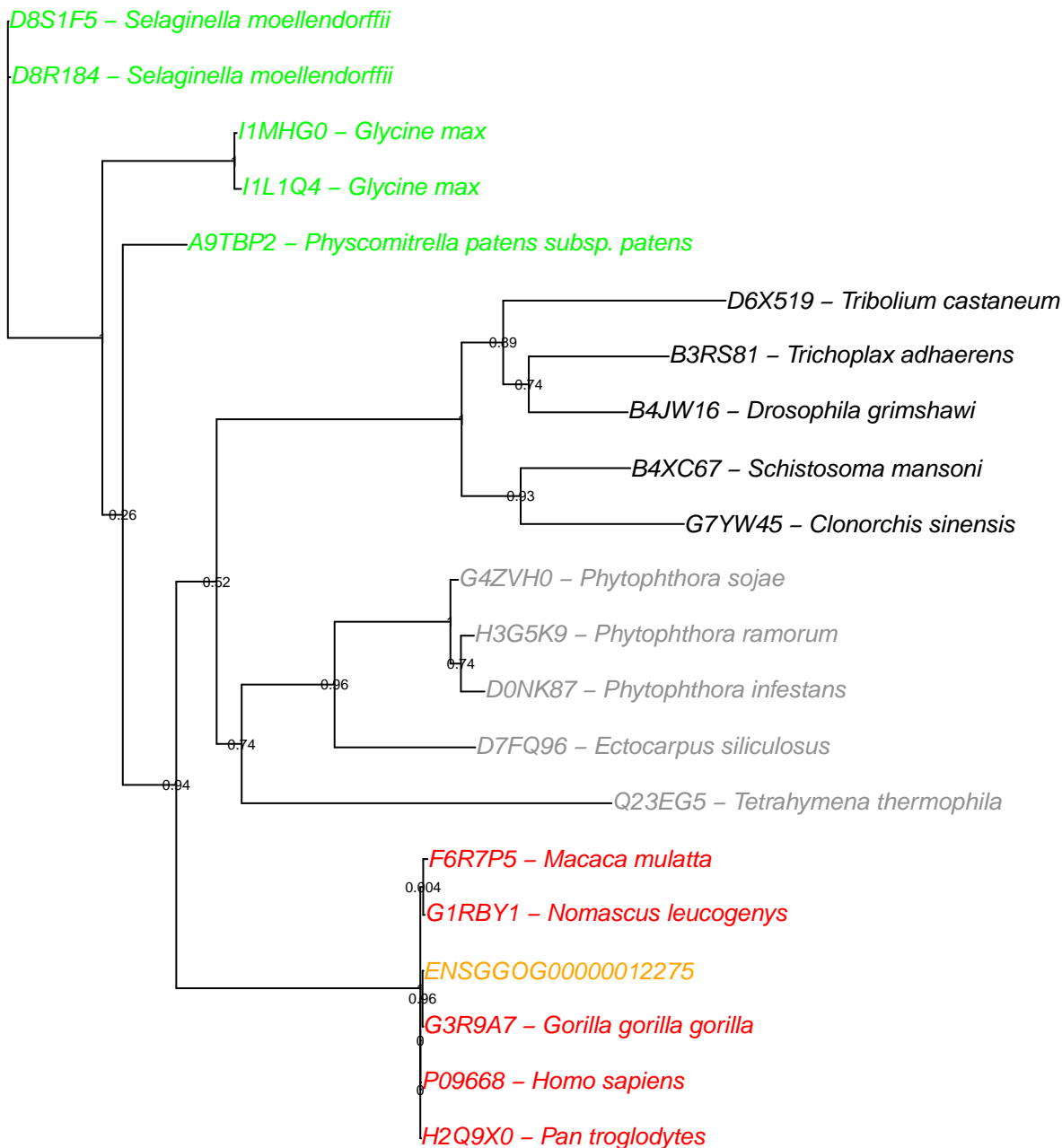
C5M1Q2 – *Perkinsus marinus*

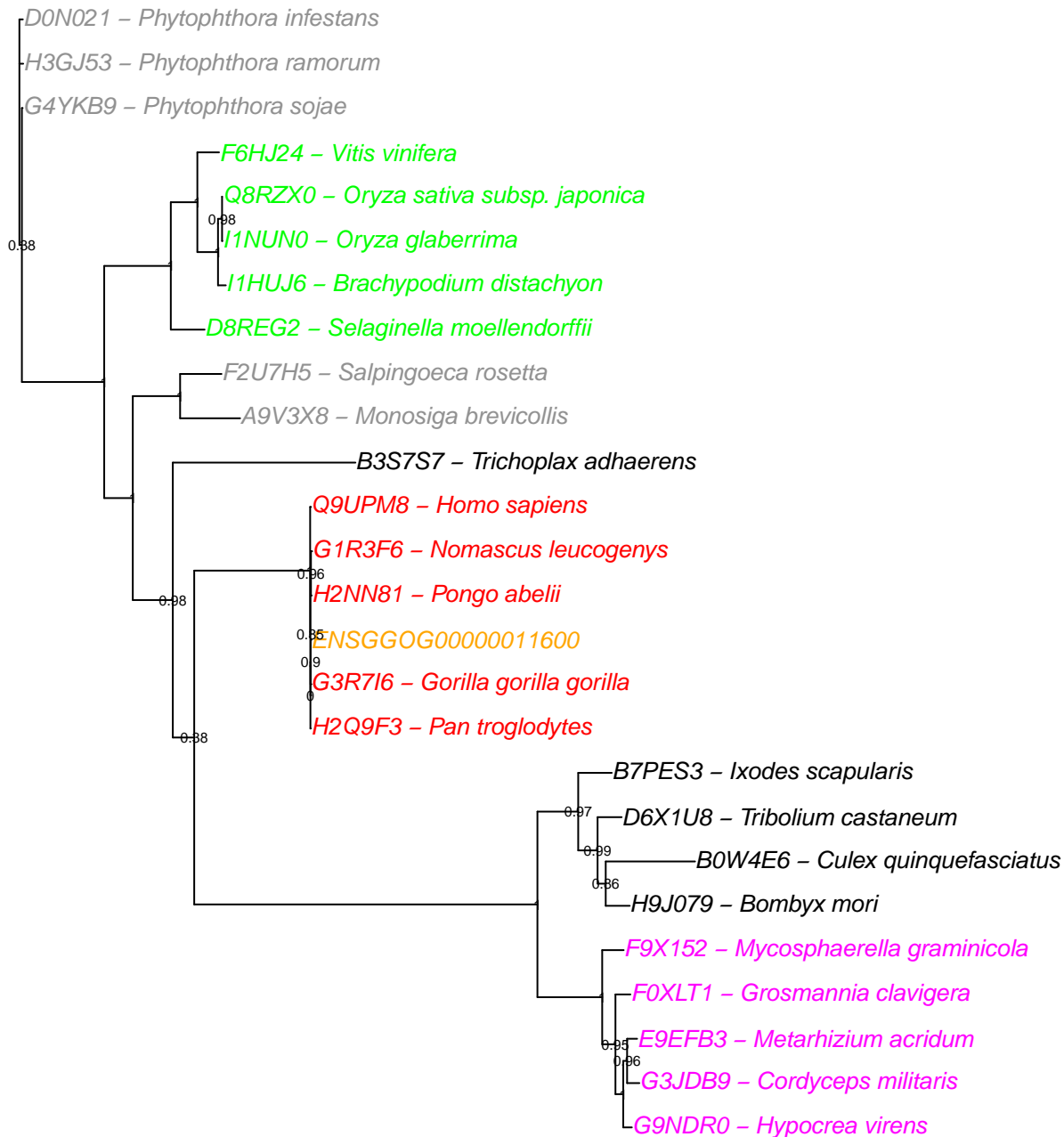
C5LL96 – *Perkinsus marinus*











C4MAF8 – *Entamoeba histolytica*

B0E732 – *Entamoeba dispar*

C4R7M5 – *Komagataella pastoris*

F2QZG7 – *Komagataella pastoris*

G3BBH8 – *Candida tenuis*

P49606 – *Ustilago maydis*

H2RFM8 – *Pan troglodytes*

A4D1F6 – *Homo sapiens*

ENSGGOG00000011266

G3R6M2 – *Gorilla gorilla gorilla*

G1RZ32 – *Nomascus leucogenys*

G7P1U0 – *Macaca fascicularis*

Q72U35 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar copenhageni

Q8F3F6 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai

G7QMW0 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai

Q72U34 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar copenhageni

Q46A62 – *Methanosarcina barkeri*

Q466H0 – *Methanosarcina barkeri*

Q469S7 – *Methanosarcina barkeri*

Q8TNI4 – *Methanosarcina acetivorans*

B0CFN4 – *Acaryochloris marina*

C1FI76 – *Micromonas* sp.

C1FD29 – *Micromonas* sp.

C1FER3 – *Micromonas* sp.

C1FHV9 – *Micromonas* sp.

C1EBH5 – *Micromonas* sp.

F4NUK7 – *Batrachochytrium dendrobatidis*

C4M0K6 – *Entamoeba histolytica*

G4ZH24 – *Phytophthora sojae*

D0NIQ6 – *Phytophthora infestans*

E2BAG5 – *Harpegnathos saltator*

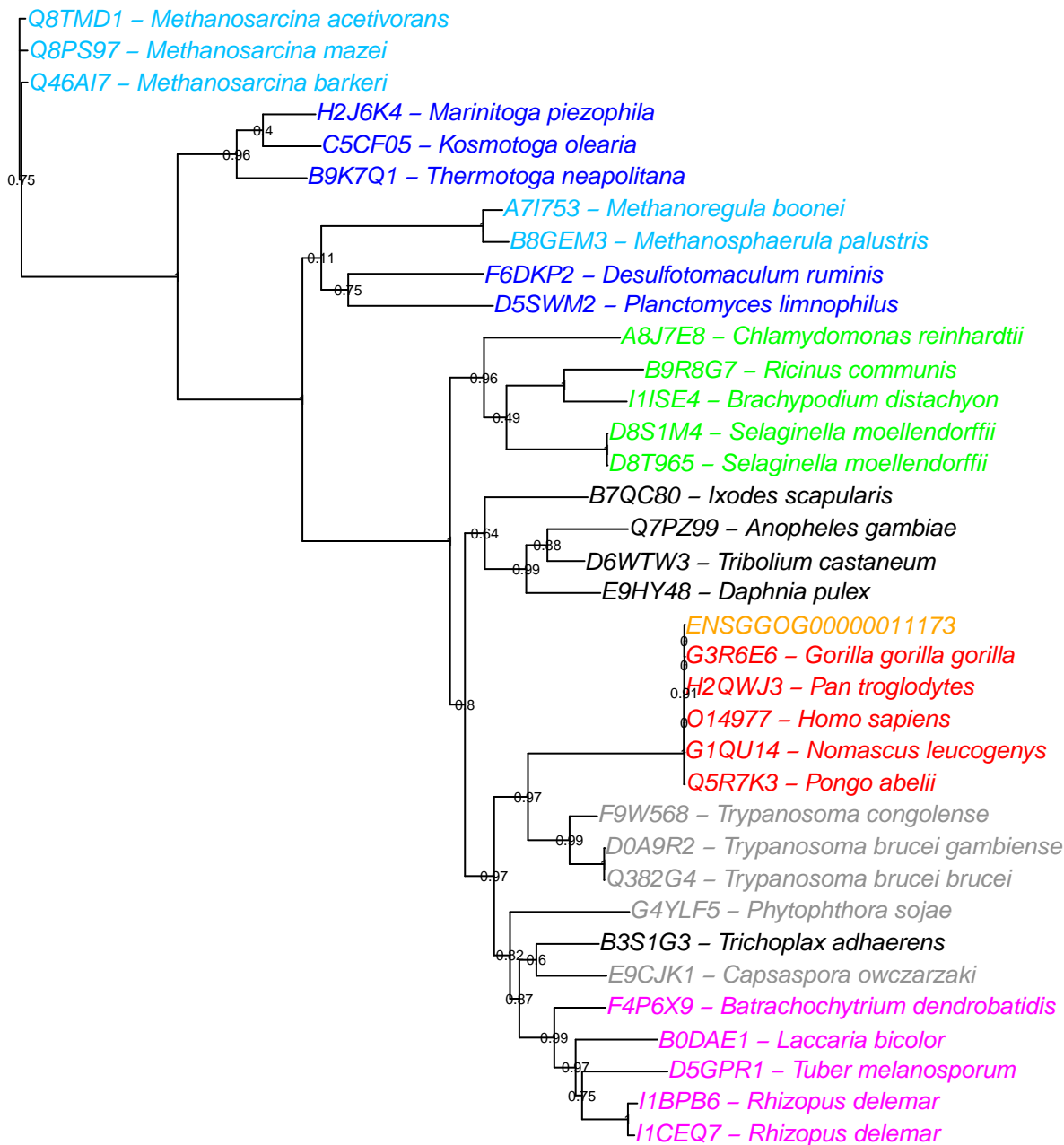
E2AHX9 – *Camponotus floridanus*

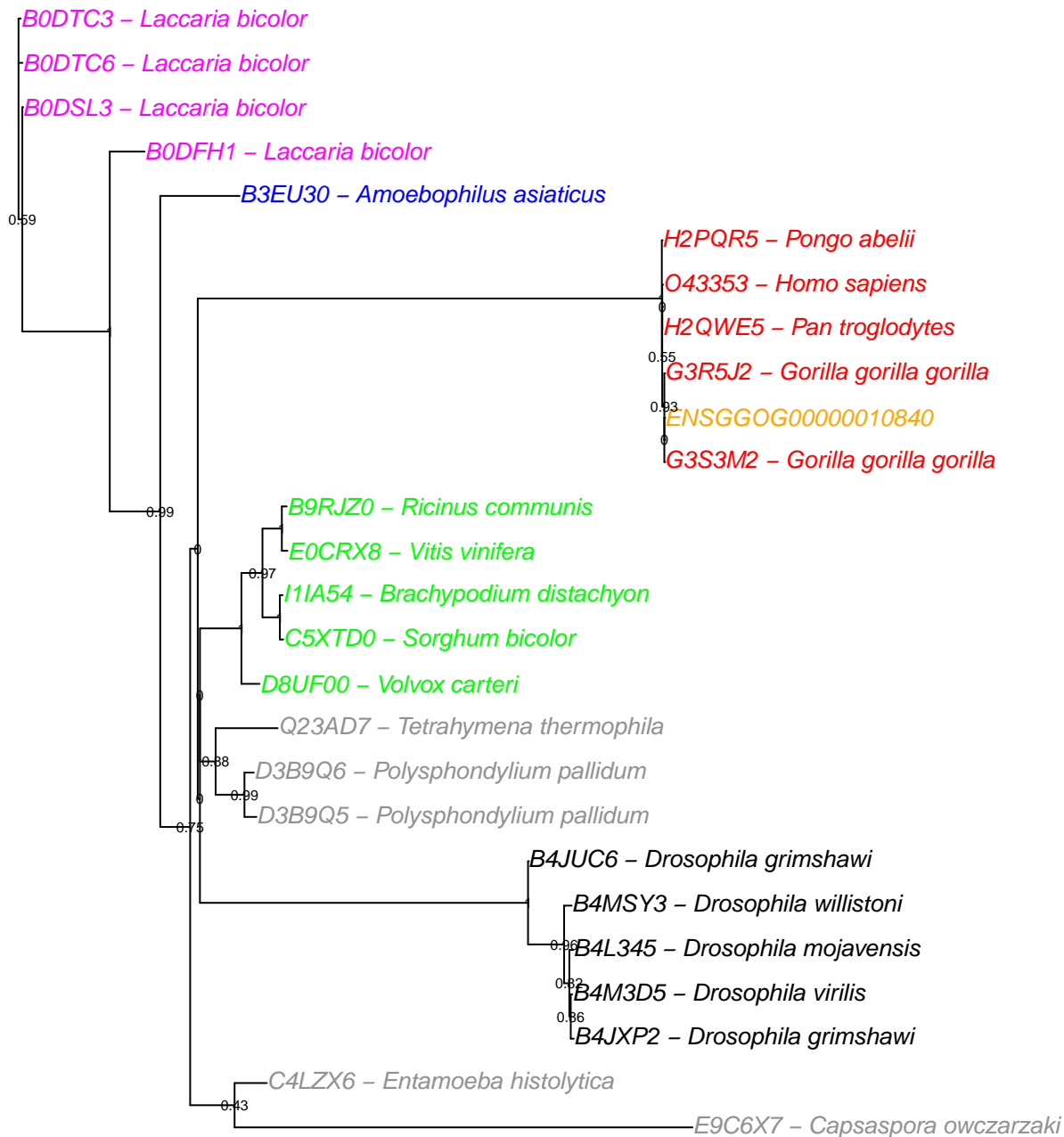
H9JA58 – *Bombyx mori*

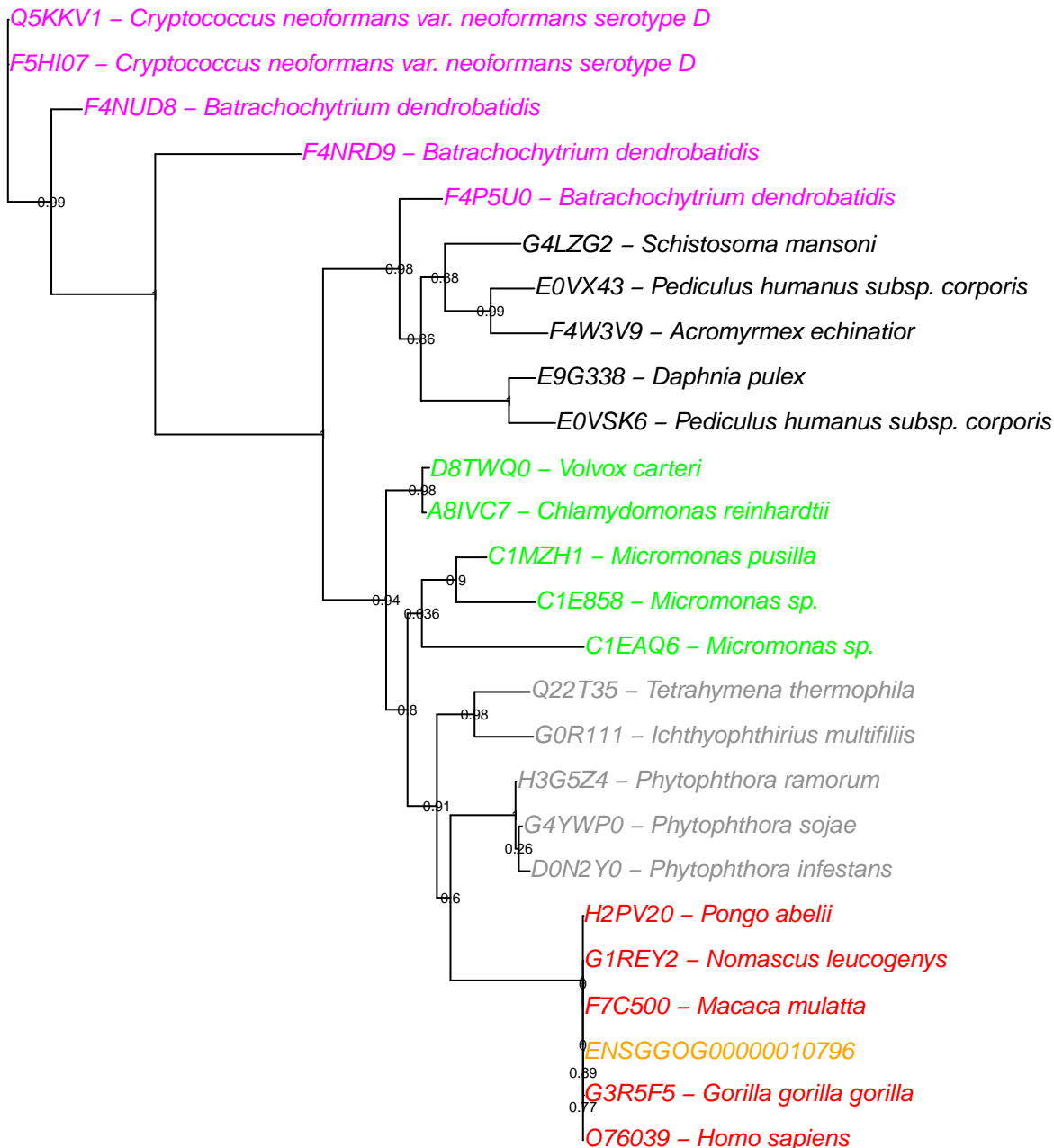
G6CNB6 – *Danaus plexippus*

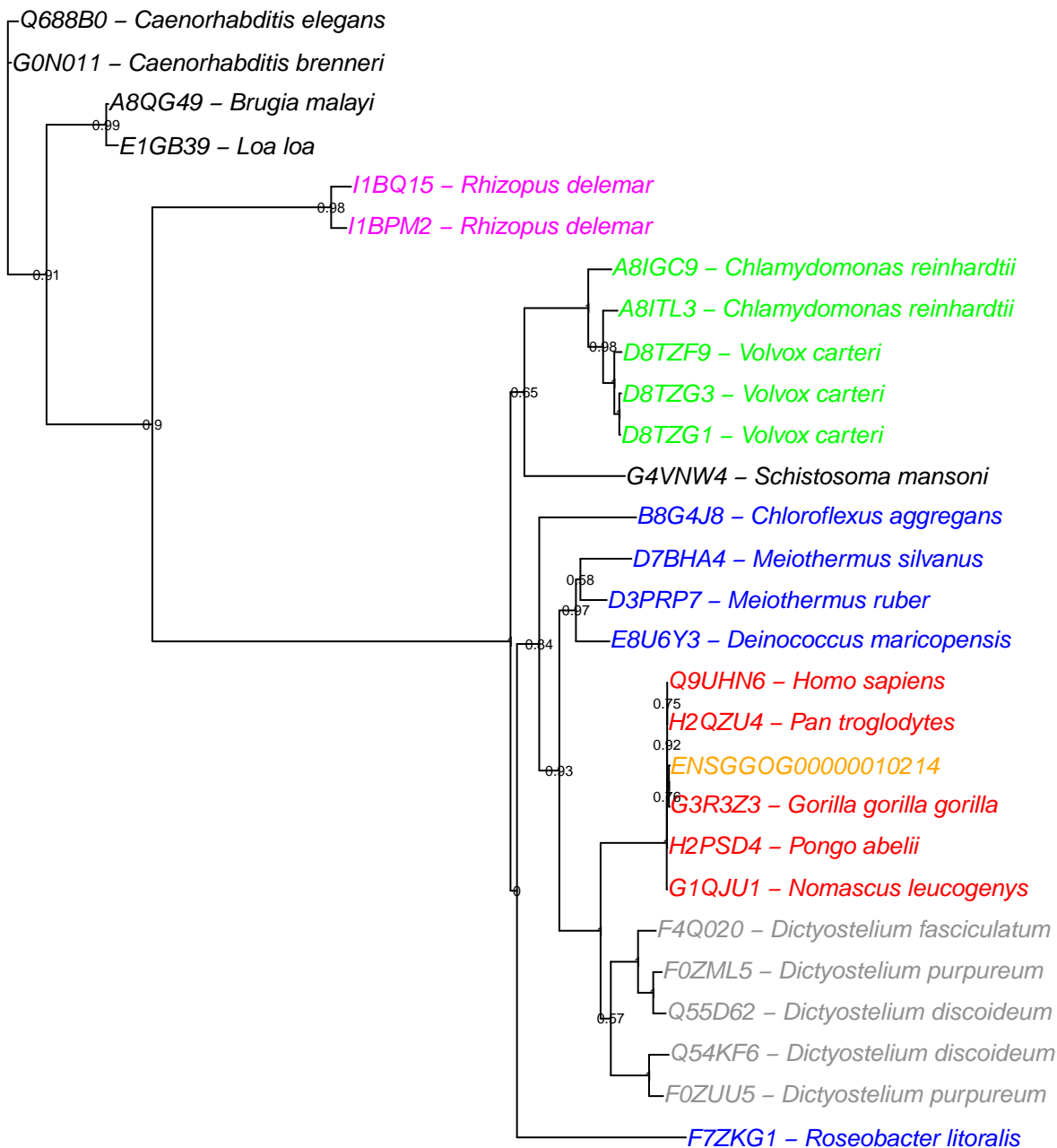
E9GB72 – *Daphnia pulex*

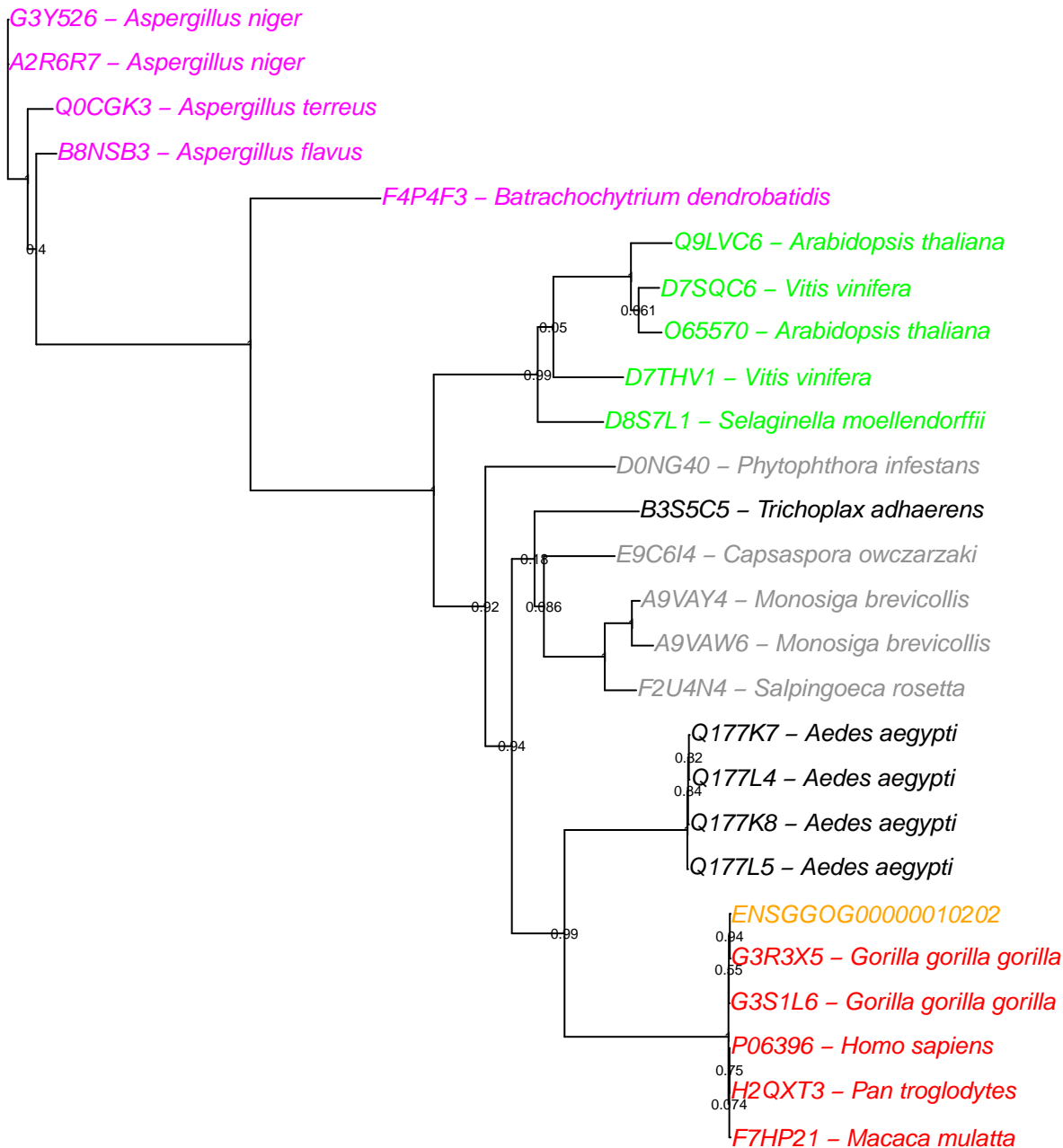
F4BWY7 – *Methanosaeta concilii*

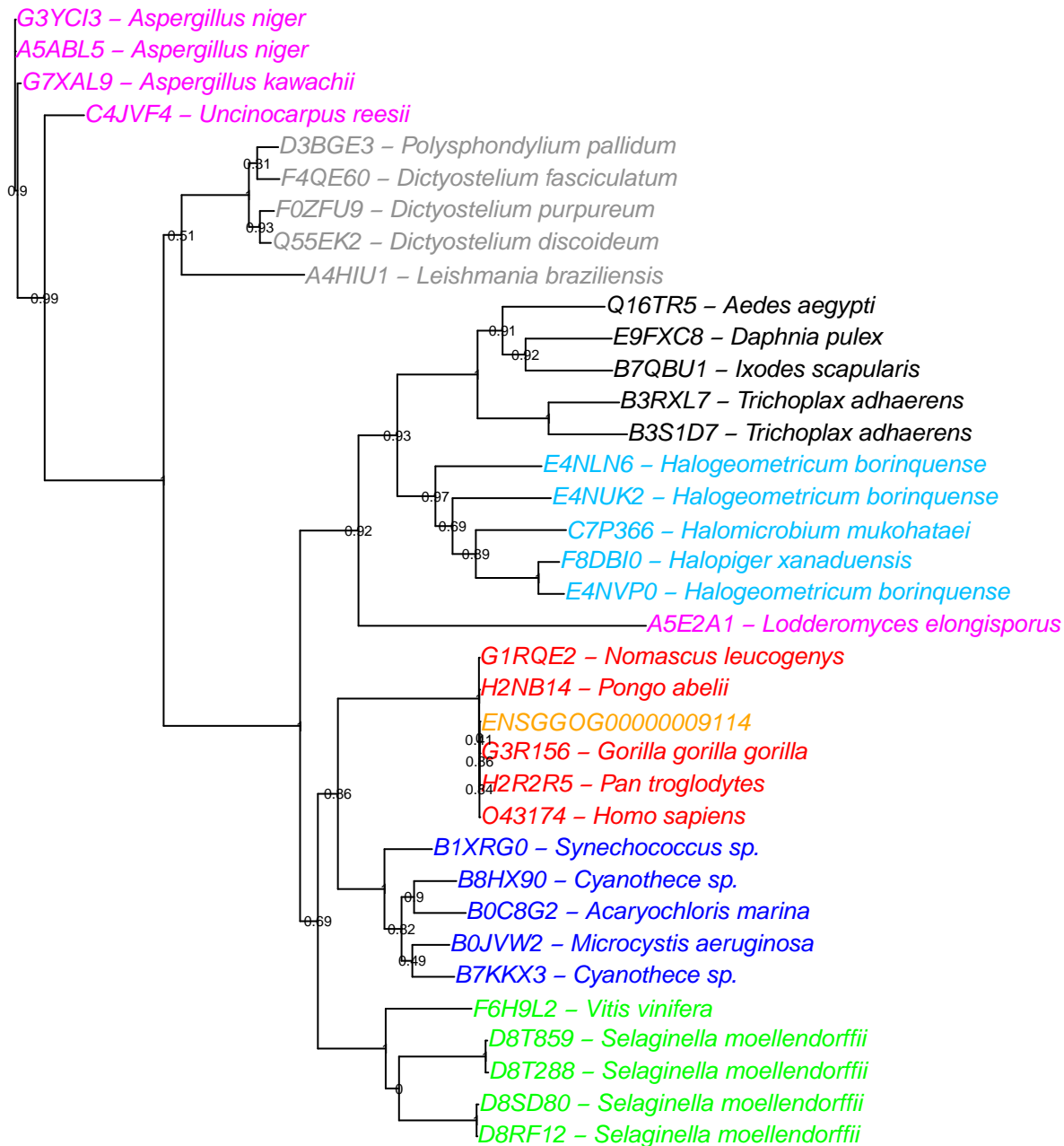


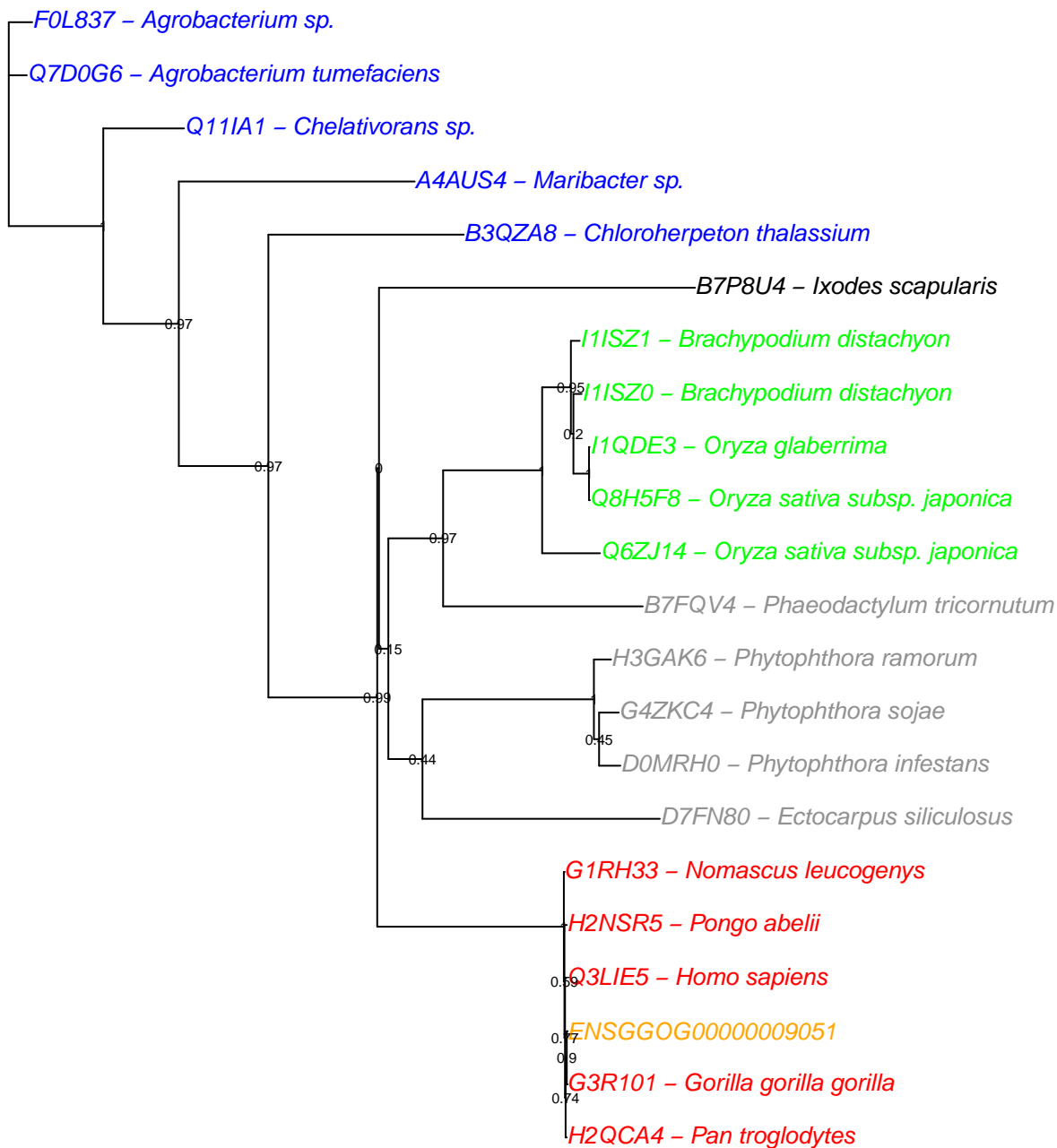


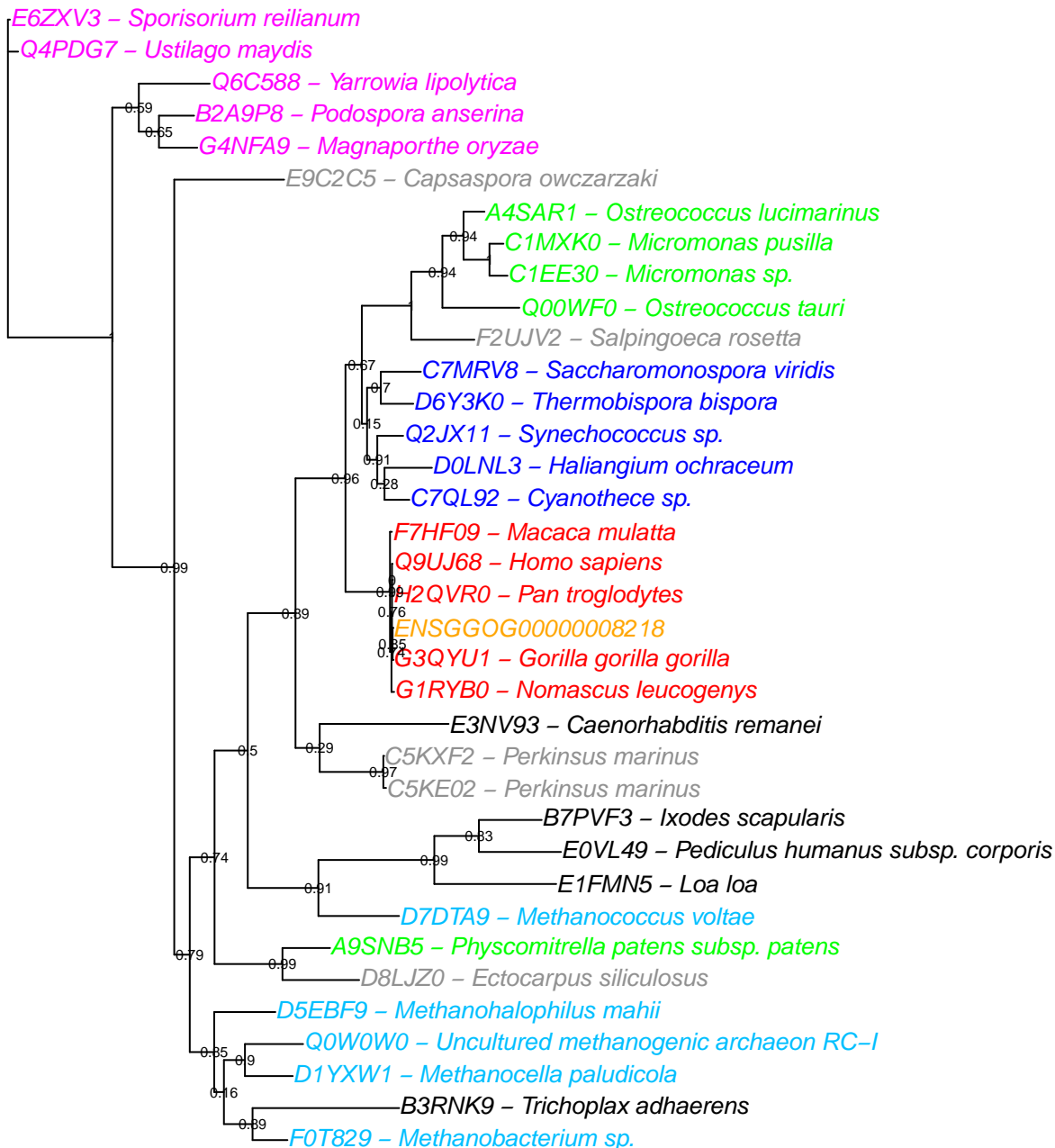


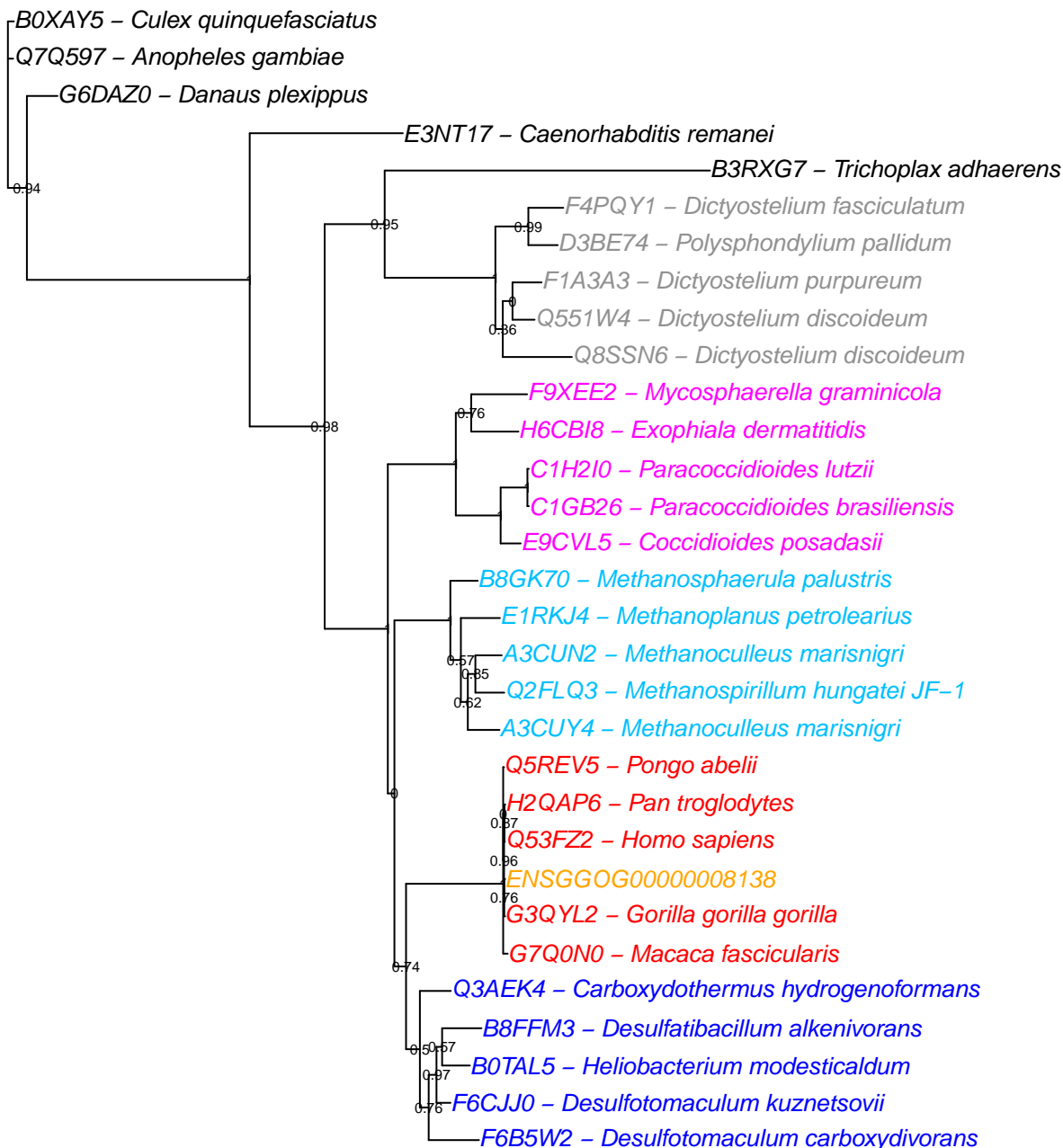


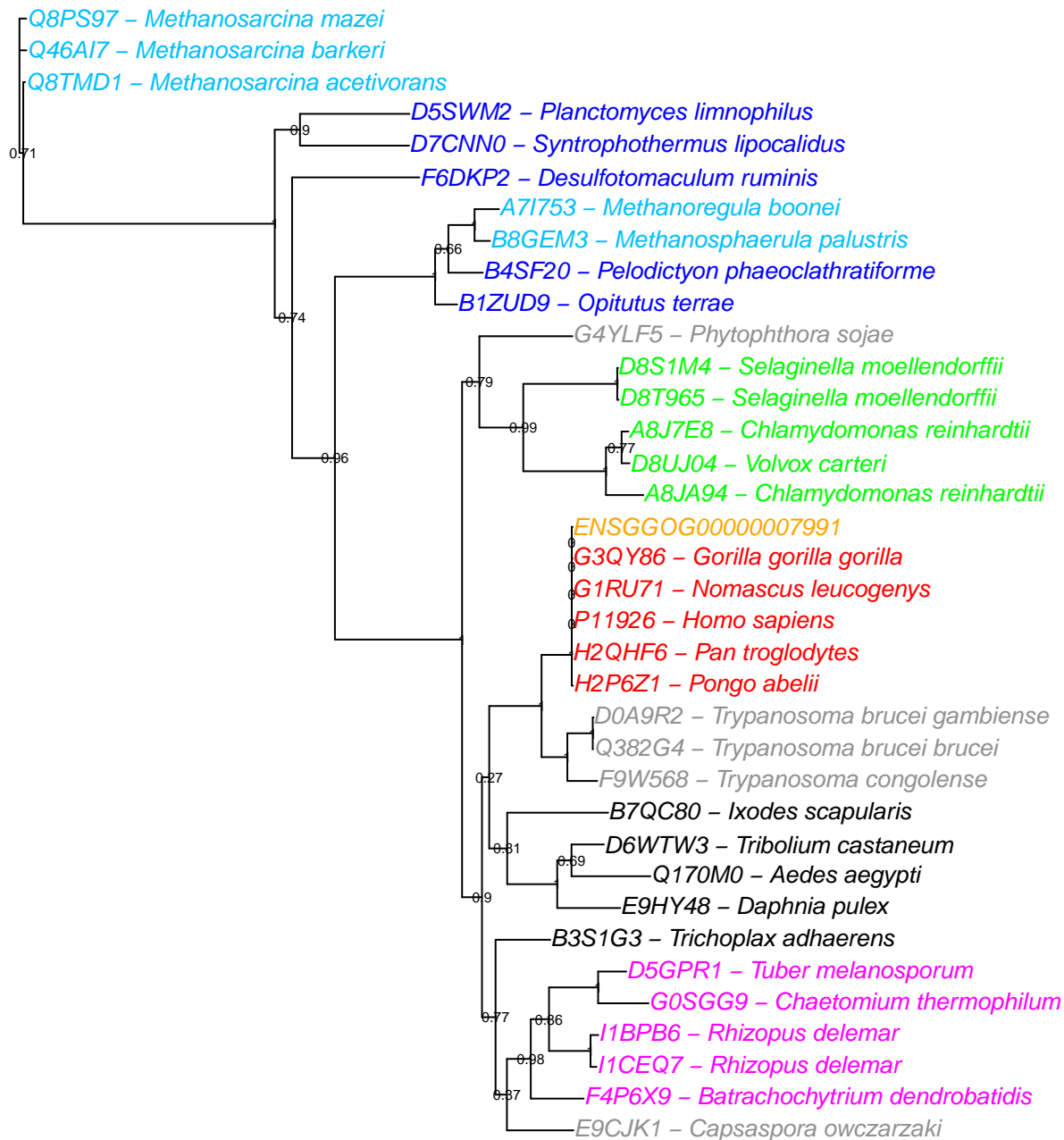


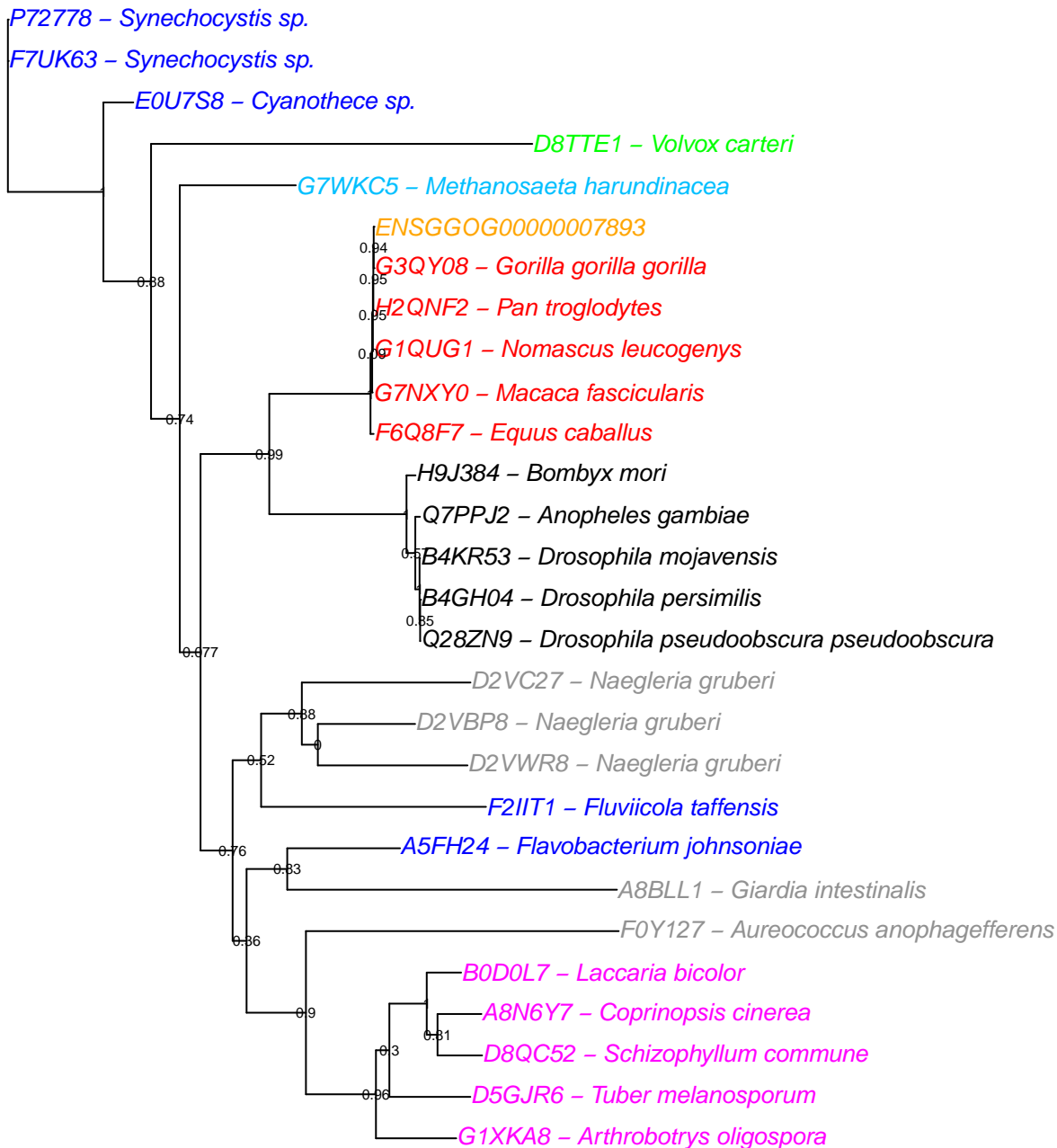


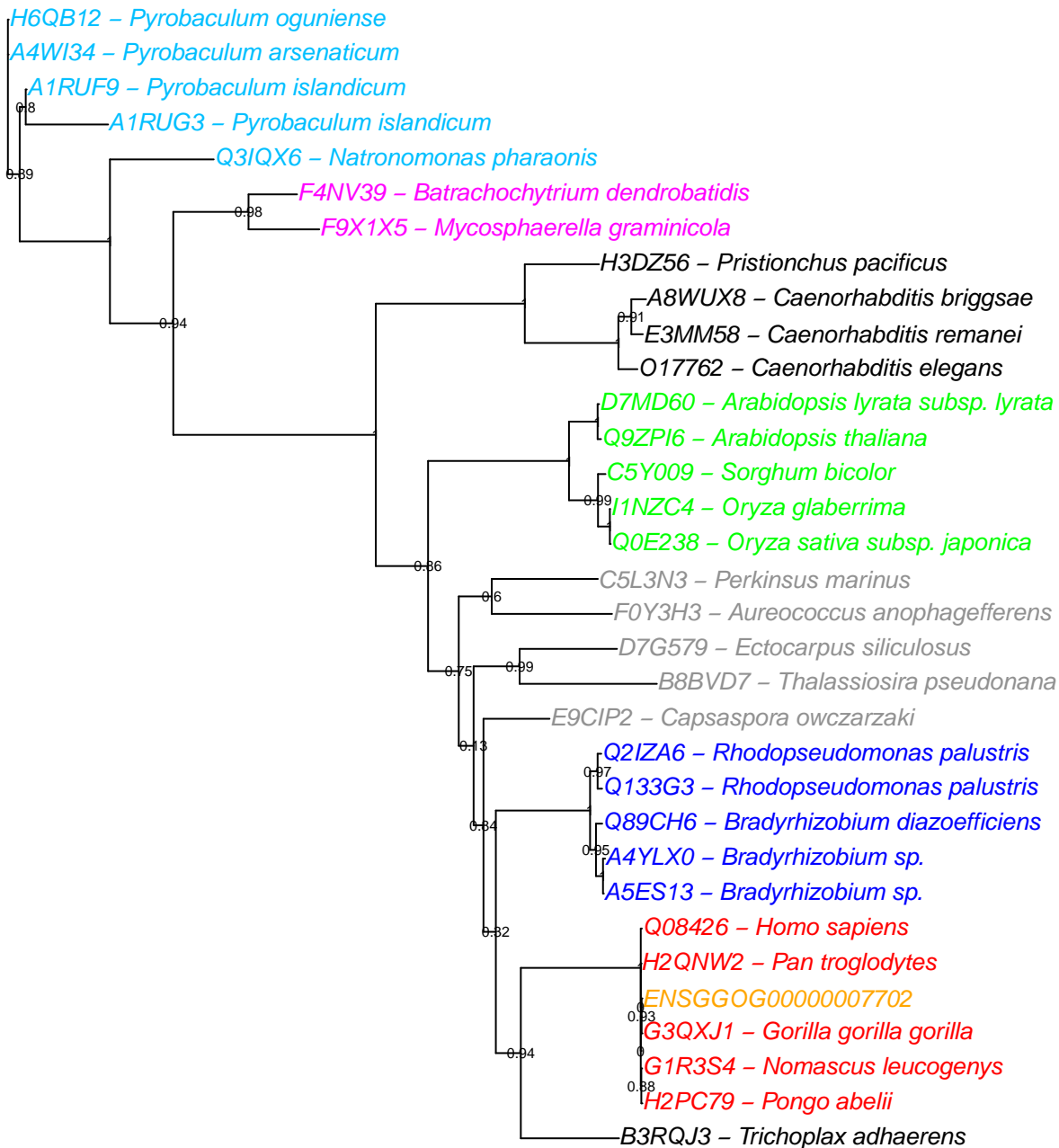


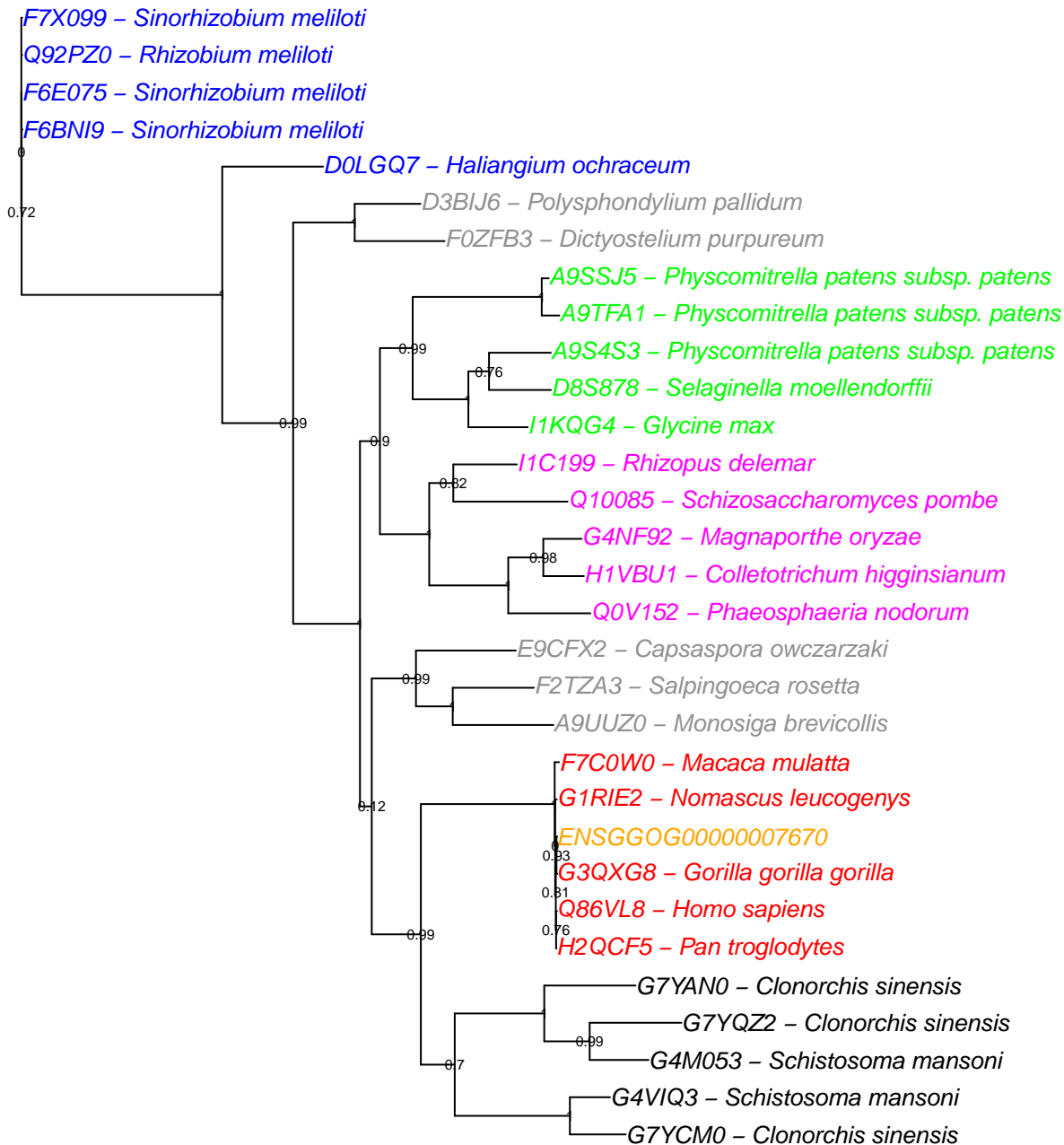


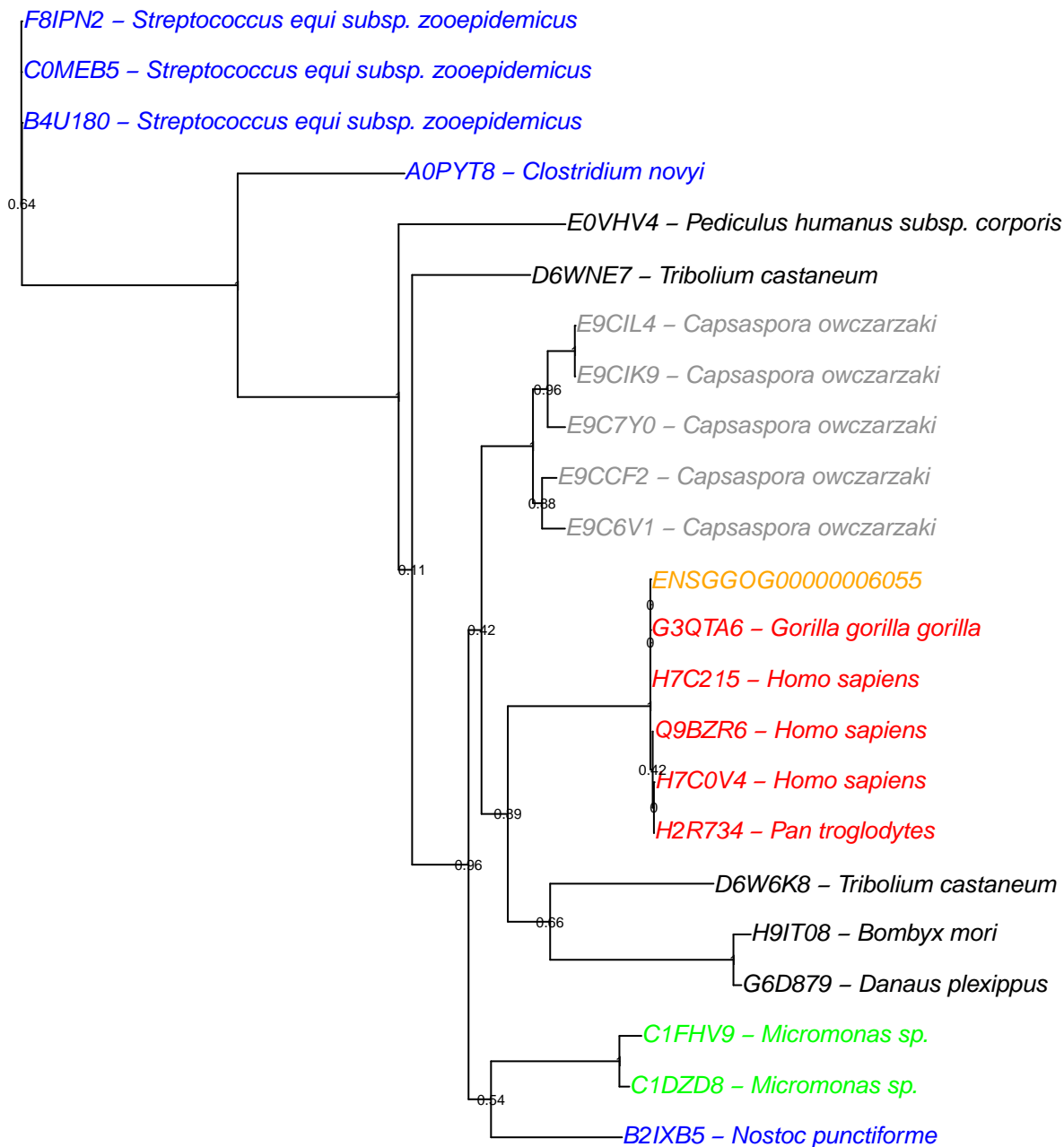


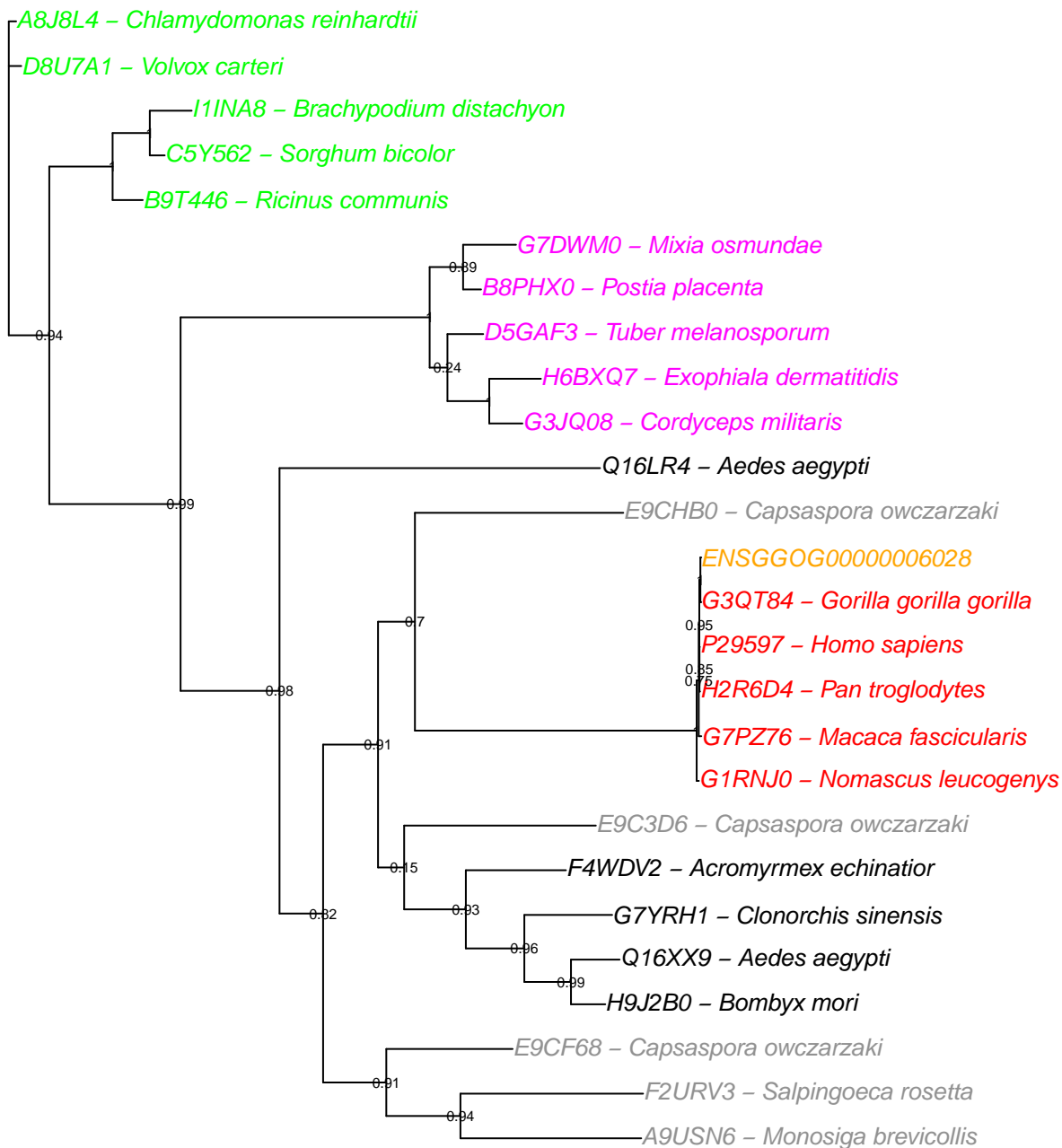












A8ISJ6 – *Chlamydomonas reinhardtii*

Q9ATG5 – *Chlamydomonas reinhardtii*

D8TSH9 – *Volvox carteri*

D8TJI2 – *Volvox carteri*

A8IBH3 – *Chlamydomonas reinhardtii*

B4GCV2 – *Drosophila persimilis*

B5E066 – *Drosophila pseudoobscura pseudoobscura*

B4MG15 – *Drosophila virilis*

D6WJJ9 – *Tribolium castaneum*

Q7Q6L4 – *Anopheles gambiae*

Q5LVA2 – *Ruegeria pomeroyi*

Q46P27 – *Cupriavidus pinatubonensis*

E1TIK2 – *Burkholderia* sp.

B2T943 – *Burkholderia phytofirmans*

Q7W424 – *Bordetella parapertussis*

F0YQG0 – *Aureococcus anophagefferens*

F0YQG6 – *Aureococcus anophagefferens*

E6ZPZ4 – *Sporisorium reilianum*

Q4P5X9 – *Ustilago maydis*

A1CUI6 – *Aspergillus clavatus*

C0NZ33 – *Ajellomyces capsulatus*

A6RD60 – *Ajellomyces capsulatus*

D8J5M9 – *Halalkalicoccus jeotgali*

D3STT8 – *Natrialba magadii*

D2RQH7 – *Haloterrigena turkmenica*

D8J5N0 – *Halalkalicoccus jeotgali*

F0XZB7 – *Aureococcus anophagefferens*

D4GP88 – *Haloferax volcanii*

ENSGGOG00000005782

G3QSM2 – *Gorilla gorilla gorilla*

Q6UWY0 – *Homo sapiens*

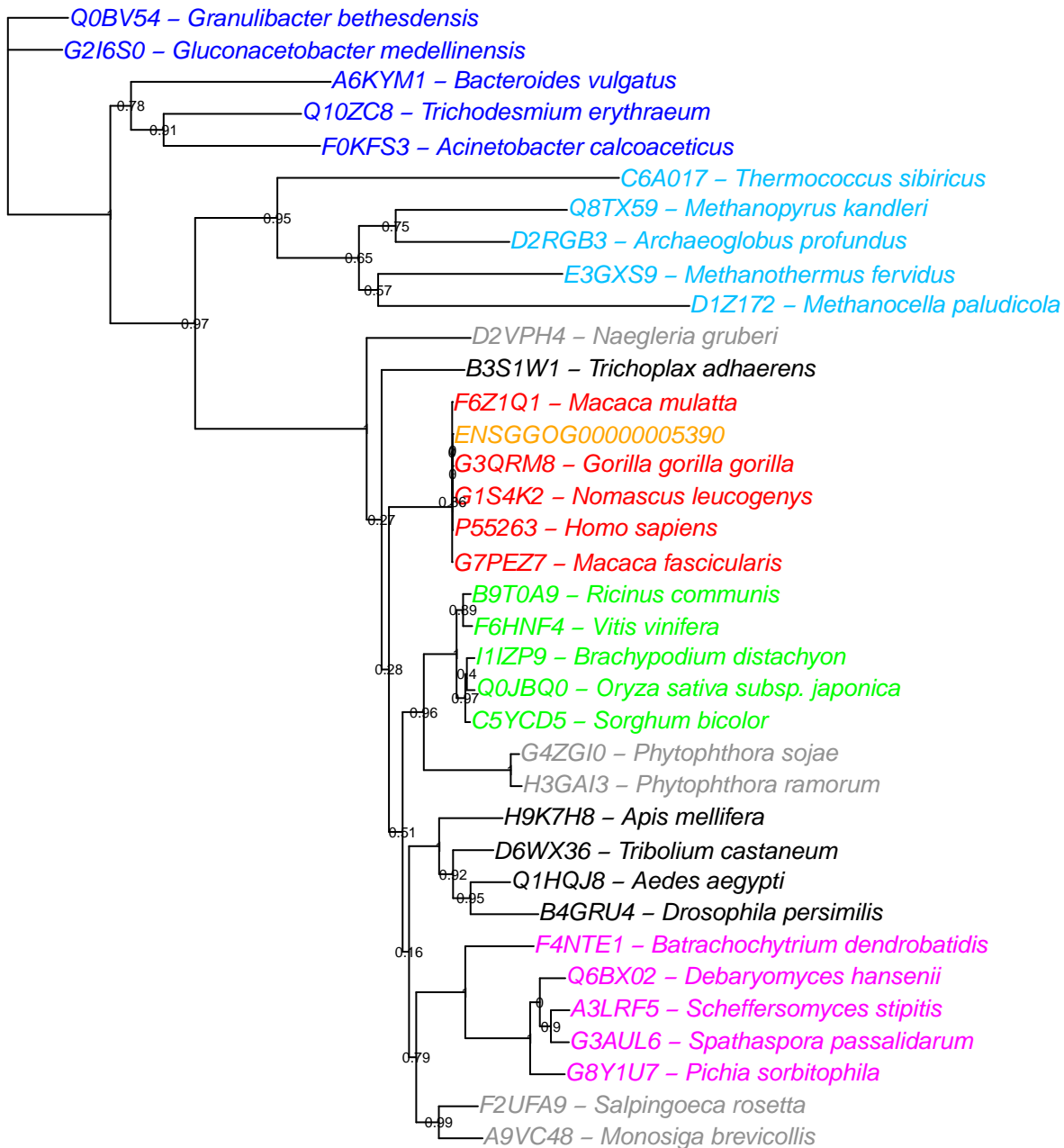
H2R2W4 – *Pan troglodytes*

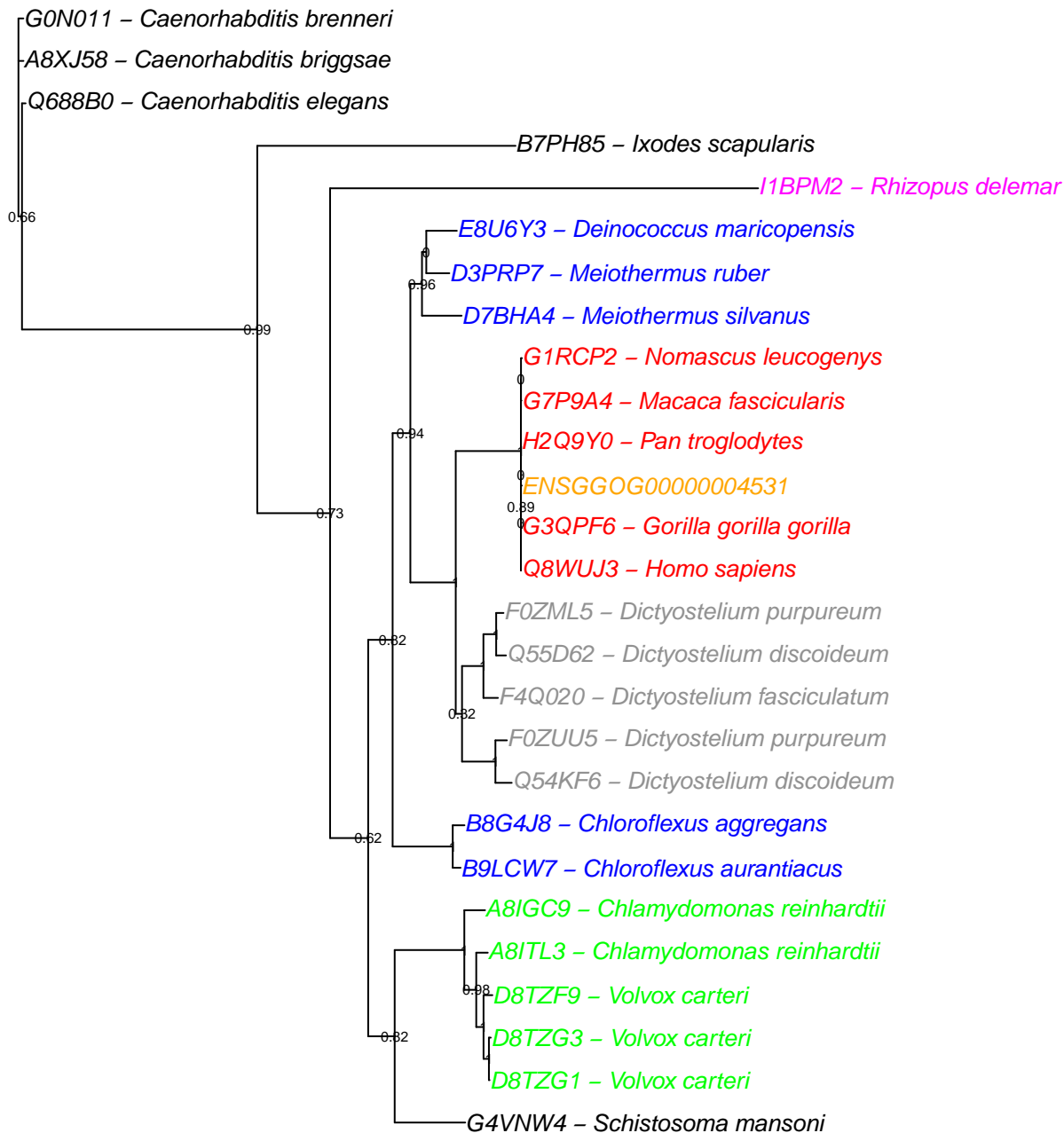
G1RV90 – *Nomascus leucogenys*

H2PG43 – *Pongo abelii*

A9V439 – *Monosiga brevicollis*

A9VDQ3 – *Monosiga brevicollis*





E4SPX6 – *Streptococcus thermophilus*

Q03MS9 – *Streptococcus thermophilus*

C0MF69 – *Streptococcus equi* subsp. *zooepidemicus*

B4U0D4 – *Streptococcus equi* subsp. *zooepidemicus*

F8IM73 – *Streptococcus equi* subsp. *zooepidemicus*

B2B6A1 – *Podospora anserina*

ENSGGOG00000004183

G3QNI4 – *Gorilla gorilla gorilla*

H2QBE6 – *Pan troglodytes*

Q00219 – *Homo sapiens*

G1R027 – *Nomascus leucogenys*

G7Q1H5 – *Macaca fascicularis*

I1C447 – *Rhizopus delemar*

B8PCC4 – *Postia placenta*

B8PKM3 – *Postia placenta*

F9FZM0 – *Fusarium oxysporum*

E4NTD4 – *Halogeometricum borinquense*

D3SVK8 – *Natrialba magadii*

B8BZ32 – *Thalassiosira pseudonana*

B5YNX7 – *Thalassiosira pseudonana*

B8C4Q2 – *Thalassiosira pseudonana*

A8PV21 – *Brugia malayi*

H3FIF0 – *Pristionchus pacificus*

E3NLQ7 – *Caenorhabditis remanei*

G5ECD6 – *Caenorhabditis elegans*

H2VHT5 – *Caenorhabditis japonica*

D8LPB5 – *Ectocarpus siliculosus*

D7G7X6 – *Ectocarpus siliculosus*

F4G0D4 – *Metallosphaera cuprina*

A4YDN3 – *Metallosphaera sedula*

Q97YM4 – *Sulfolobus solfataricus*

