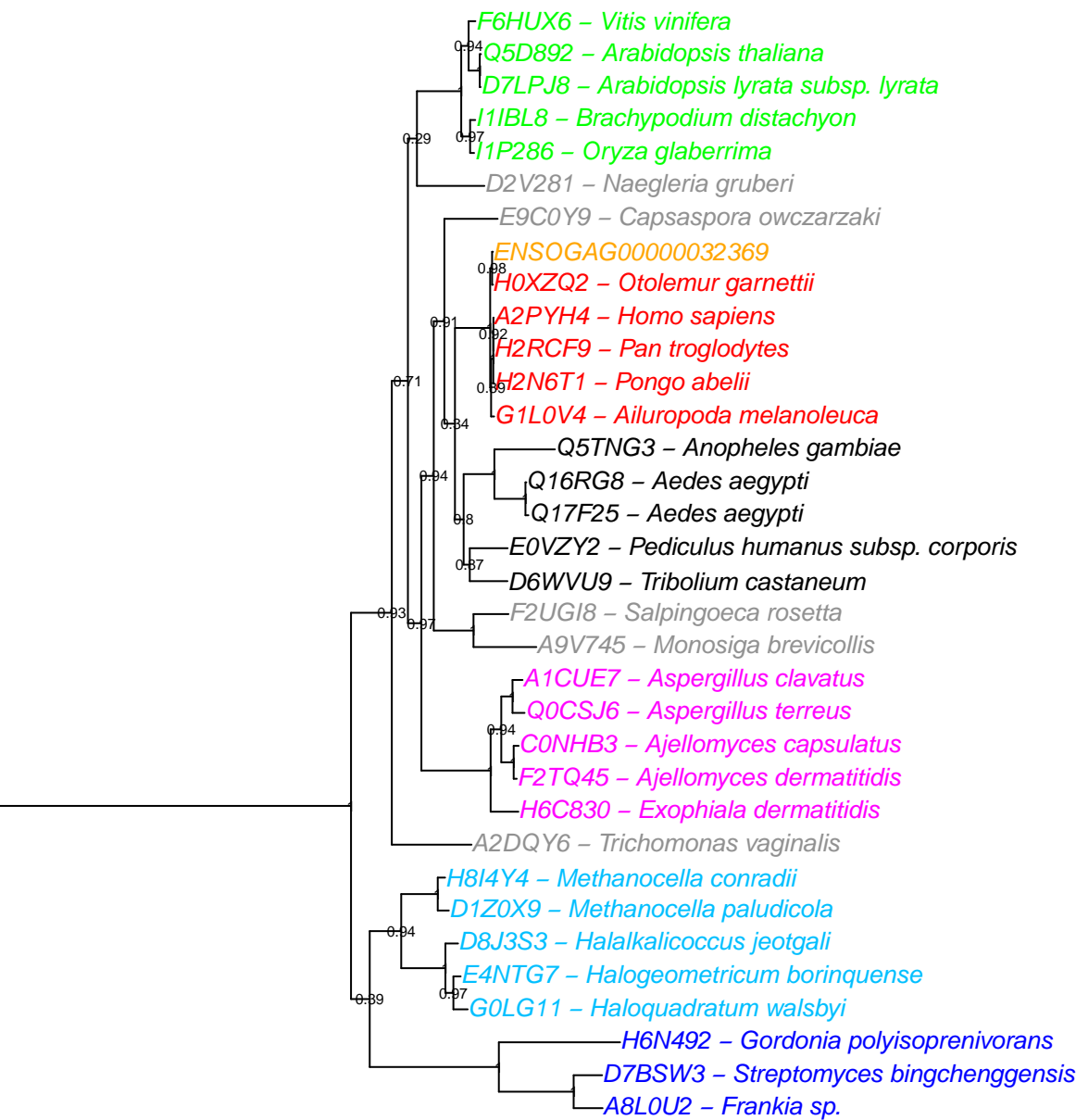
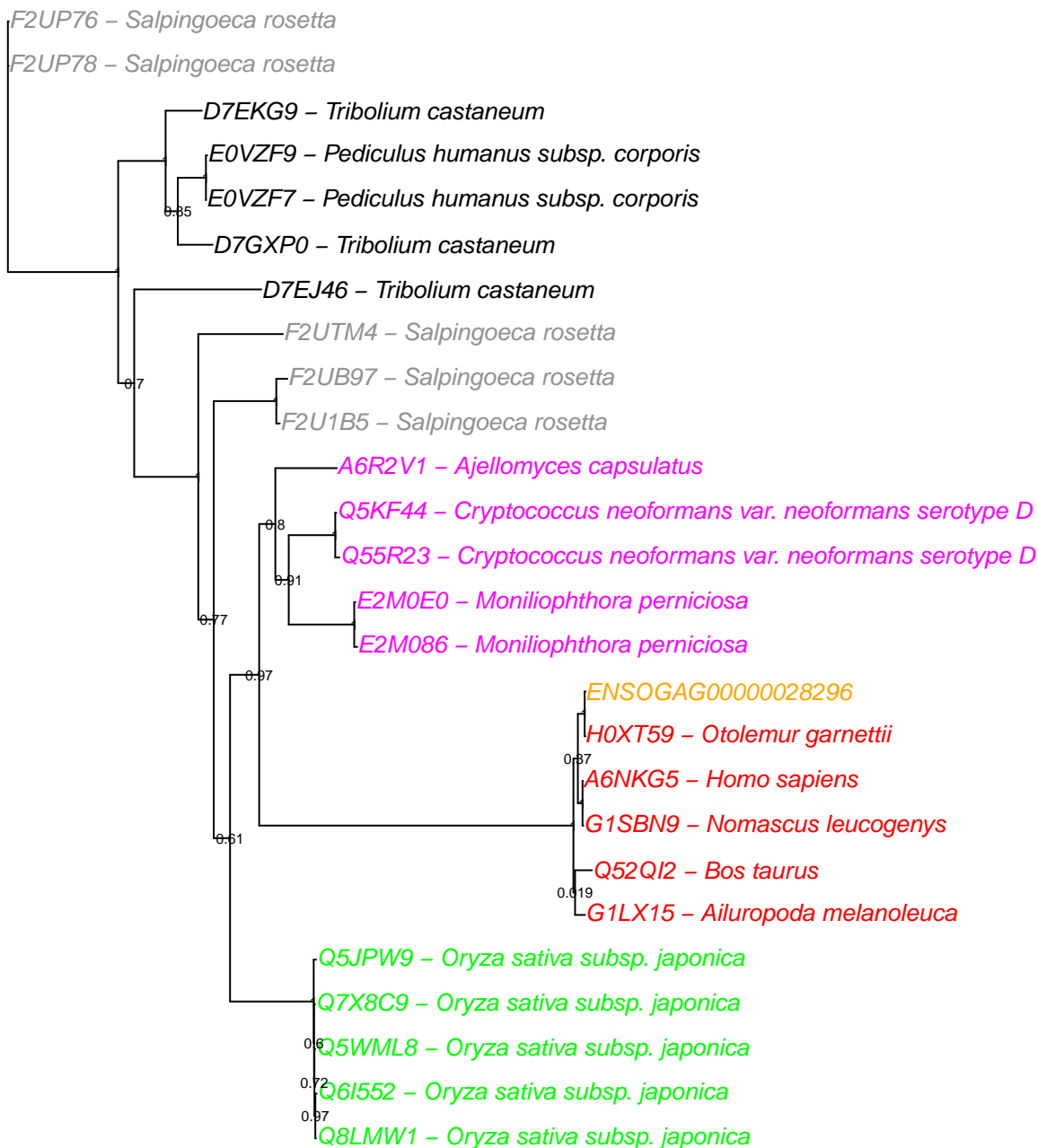
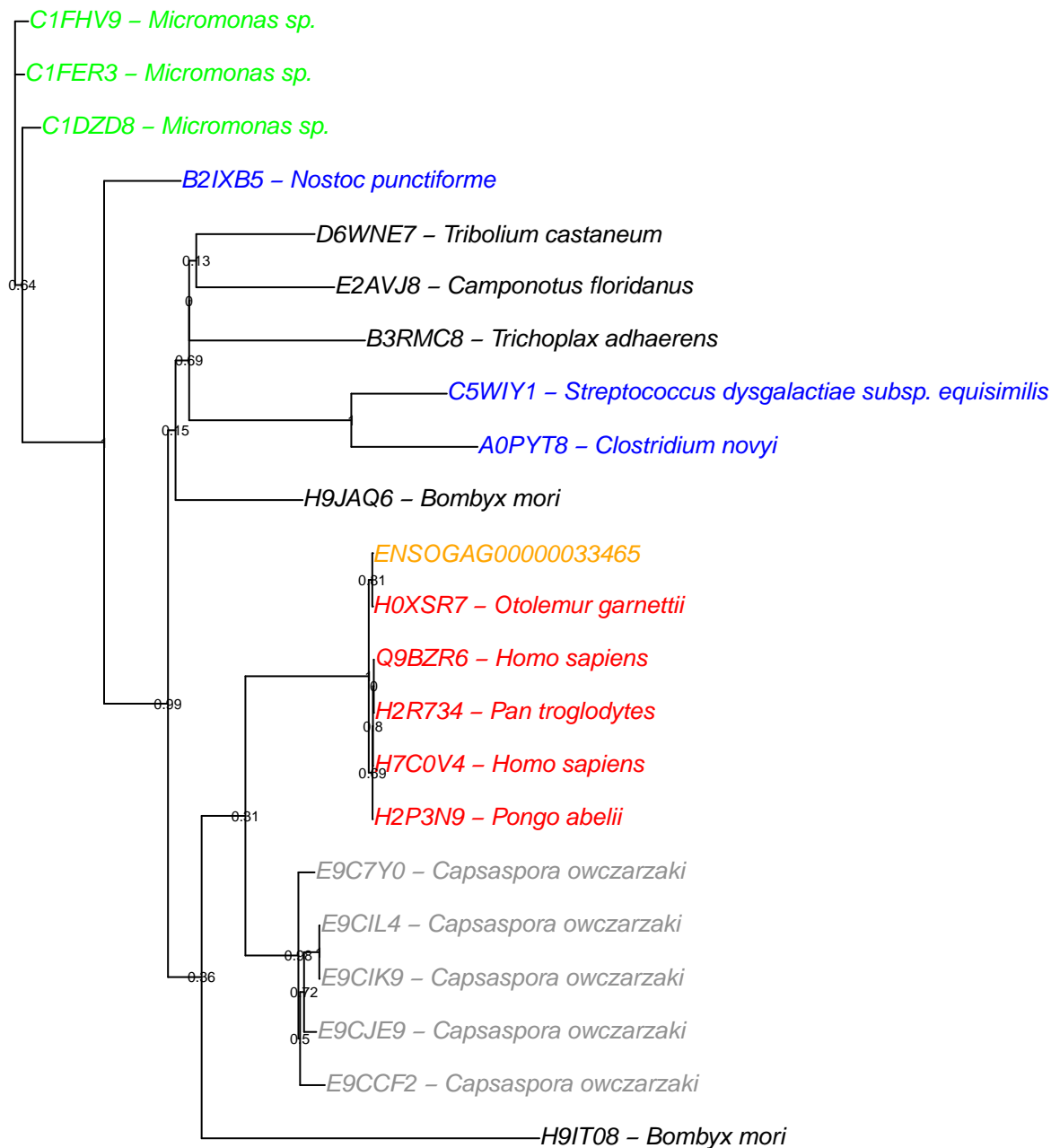
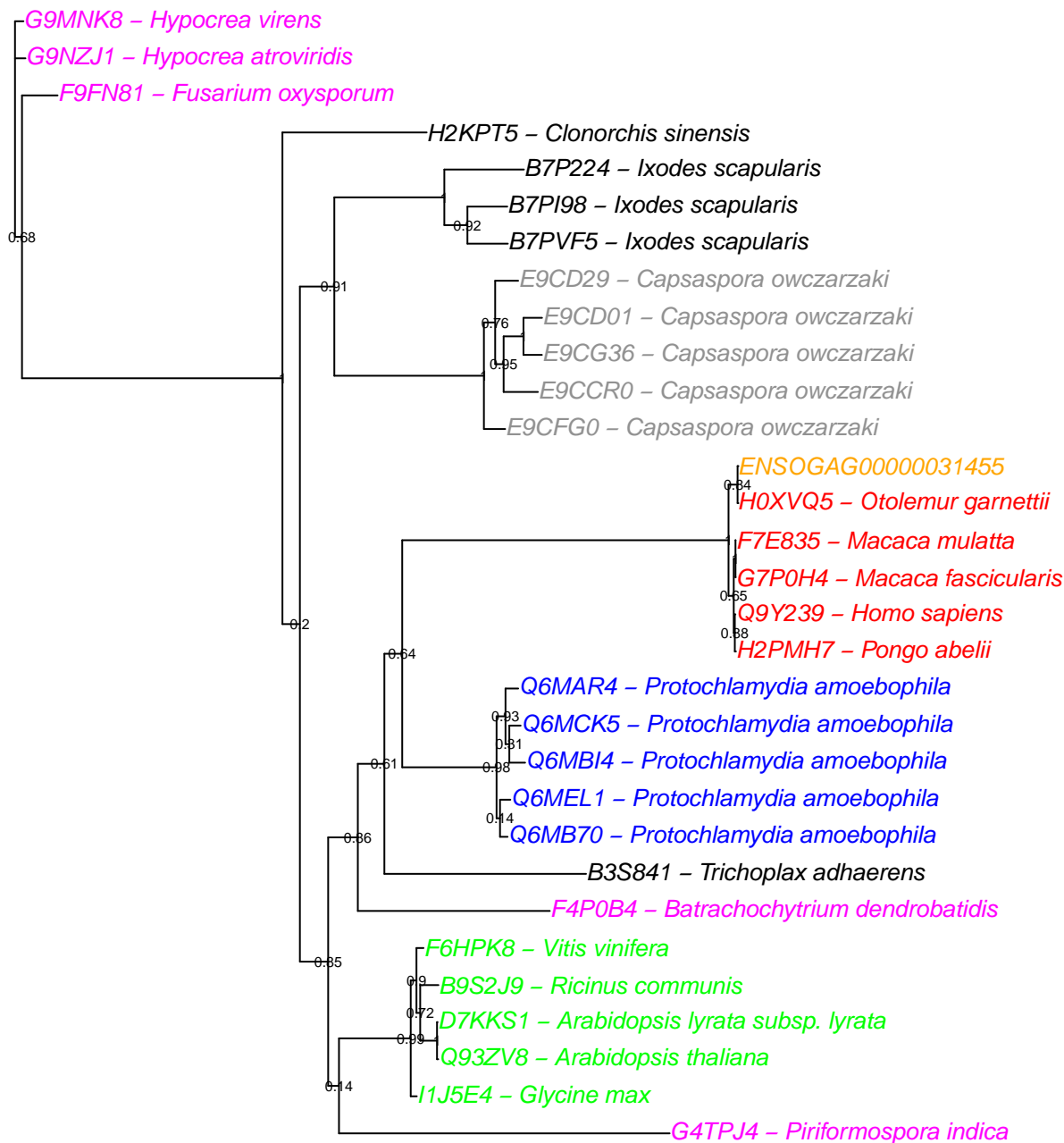


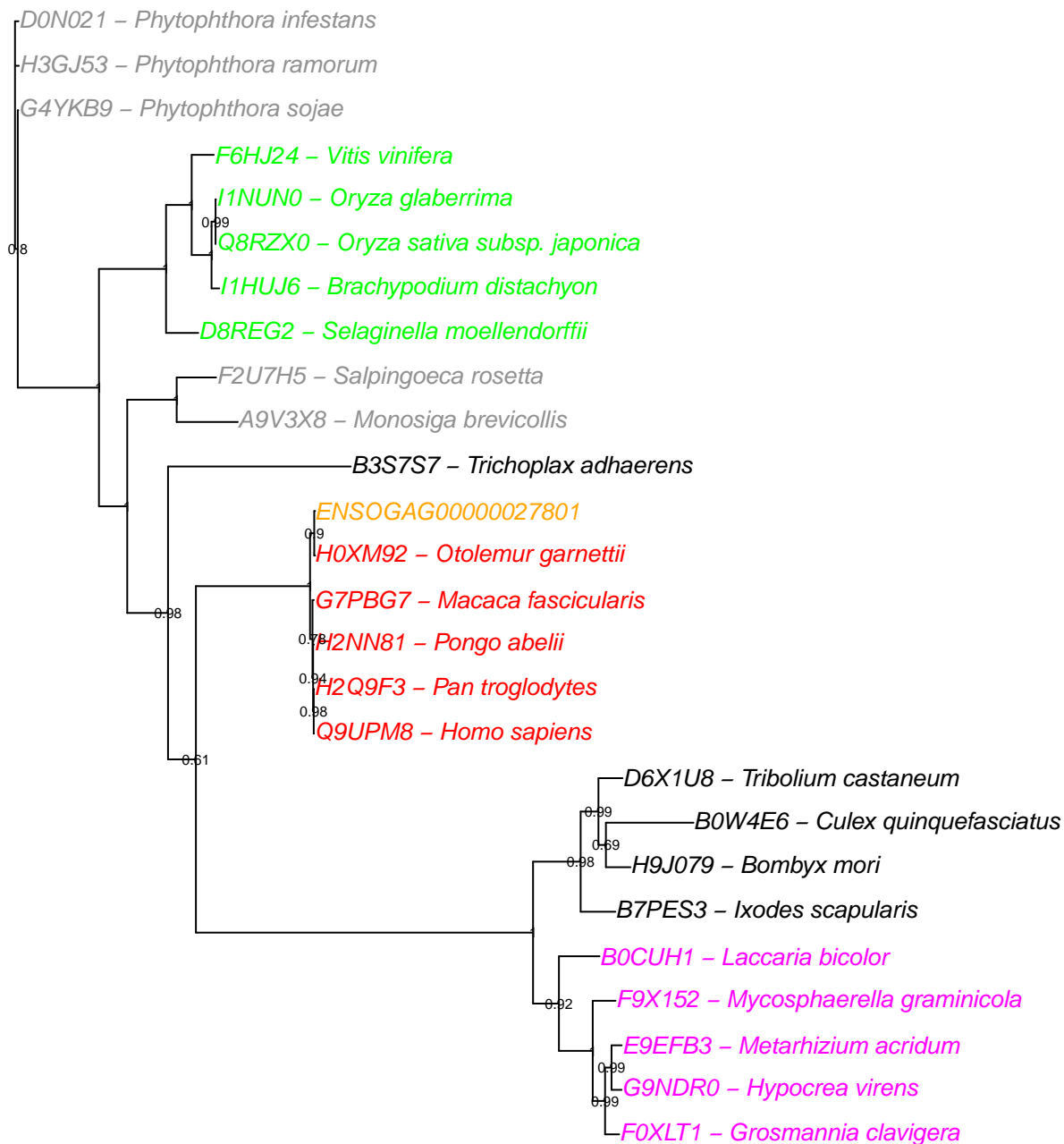
C6DPX2 – *Mycobacterium tuberculosis*
A5WP69 – *Mycobacterium tuberculosis*











A5VKZ1 – *Lactobacillus reuteri*

B2G8C6 – *Lactobacillus reuteri*

ENSOGAG00000031813

0.82
H0XTQ4 – *Otolemur garnettii*

0.96
F1MCK2 – *Bos taurus*

F6XEZ6 – *Macaca mulatta*

0.96
Q09666 – *Homo sapiens*

H2QPH0 – *Pan troglodytes*

G4VI75 – *Schistosoma mansoni*

G4VI77 – *Schistosoma mansoni*

G4VI76 – *Schistosoma mansoni*

G4VI79 – *Schistosoma mansoni*

0.96
B3L2C1 – *Plasmodium knowlesi*

0.55
B3L1B6 – *Plasmodium knowlesi*

0.83
E9HI76 – *Daphnia pulex*

0.47
A6LWL3 – *Clostridium beijerinckii*

D8LB94 – *Ectocarpus siliculosus*

0.99
Q0UTZ6 – *Phaeosphaeria nodorum*

G1X3R9 – *Arthrotrrys oligospora*

0.51
E1Z7E0 – *Chlorella variabilis*

0.39
D7FIW6 – *Ectocarpus siliculosus*

C0SE10 – *Paracoccidioides brasiliensis*

A2DNQ9 – *Trichomonas vaginalis*

F7BUK8 – *Macaca mulatta*

F7BUK2 – *Macaca mulatta*

F7A7S8 – *Macaca mulatta*

0

A9IXK1 – *Bartonella tribocorum*

B0WDQ9 – *Culex quinquefasciatus*

ENSOGAG00000027333

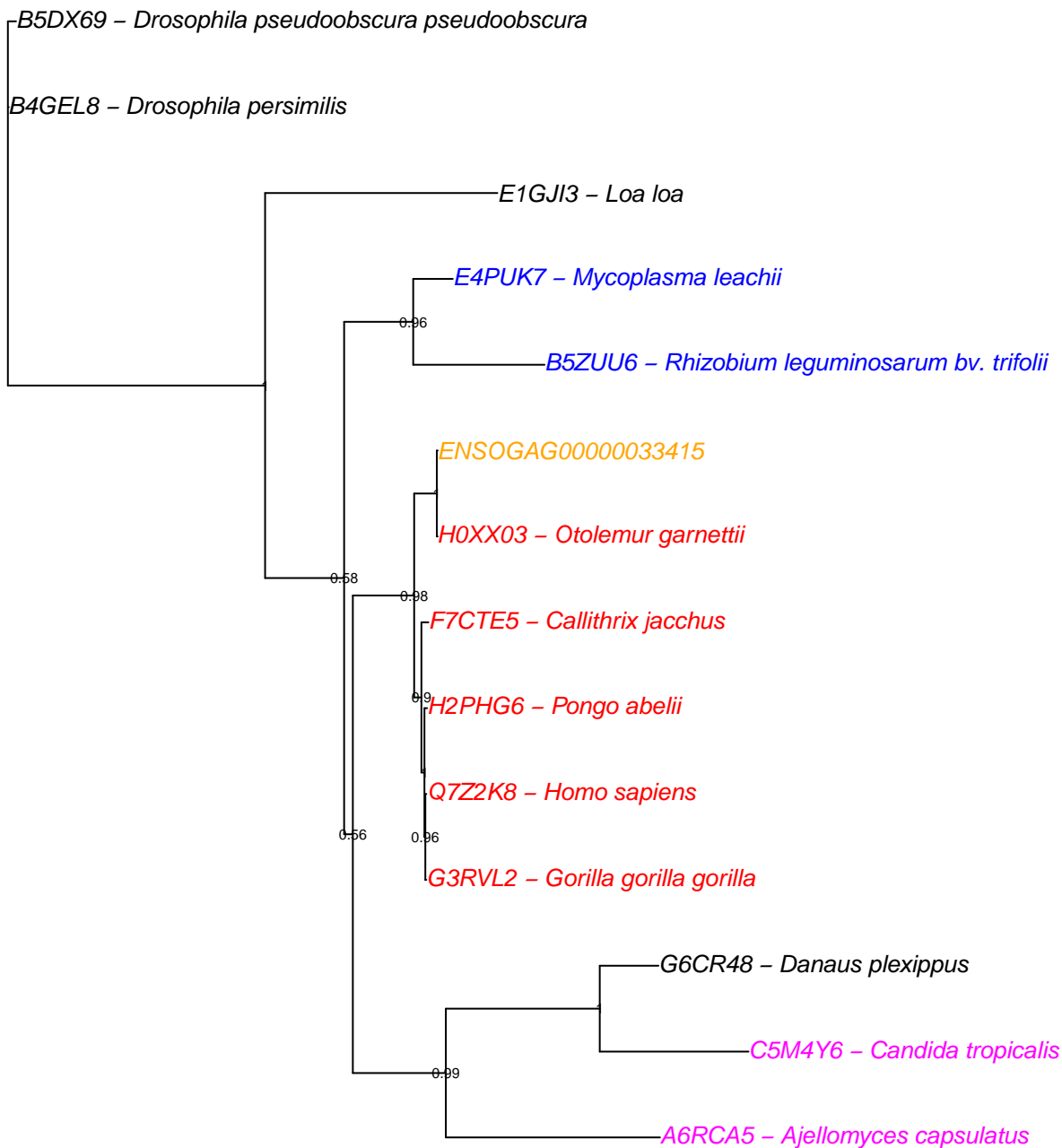
0.93

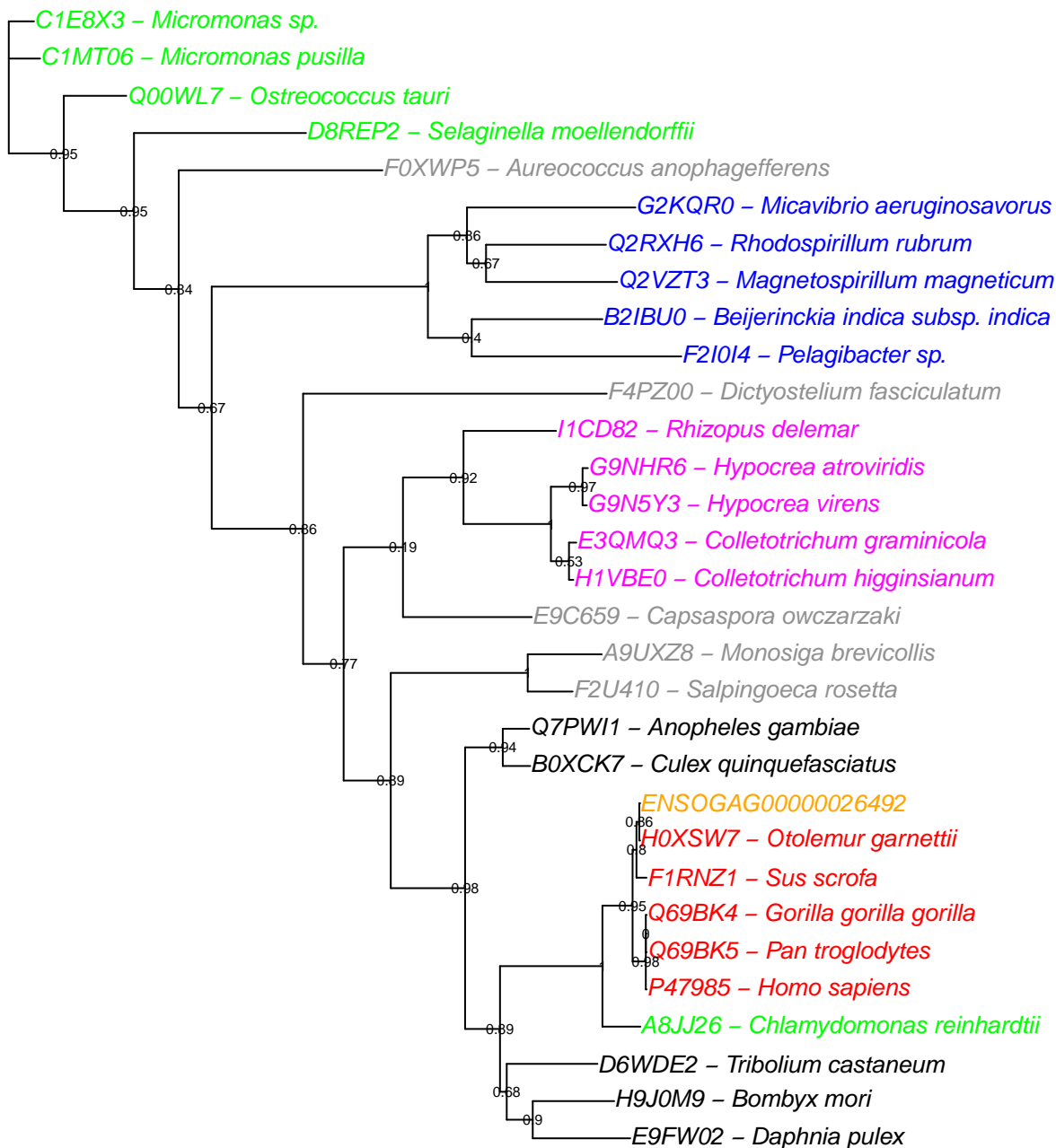
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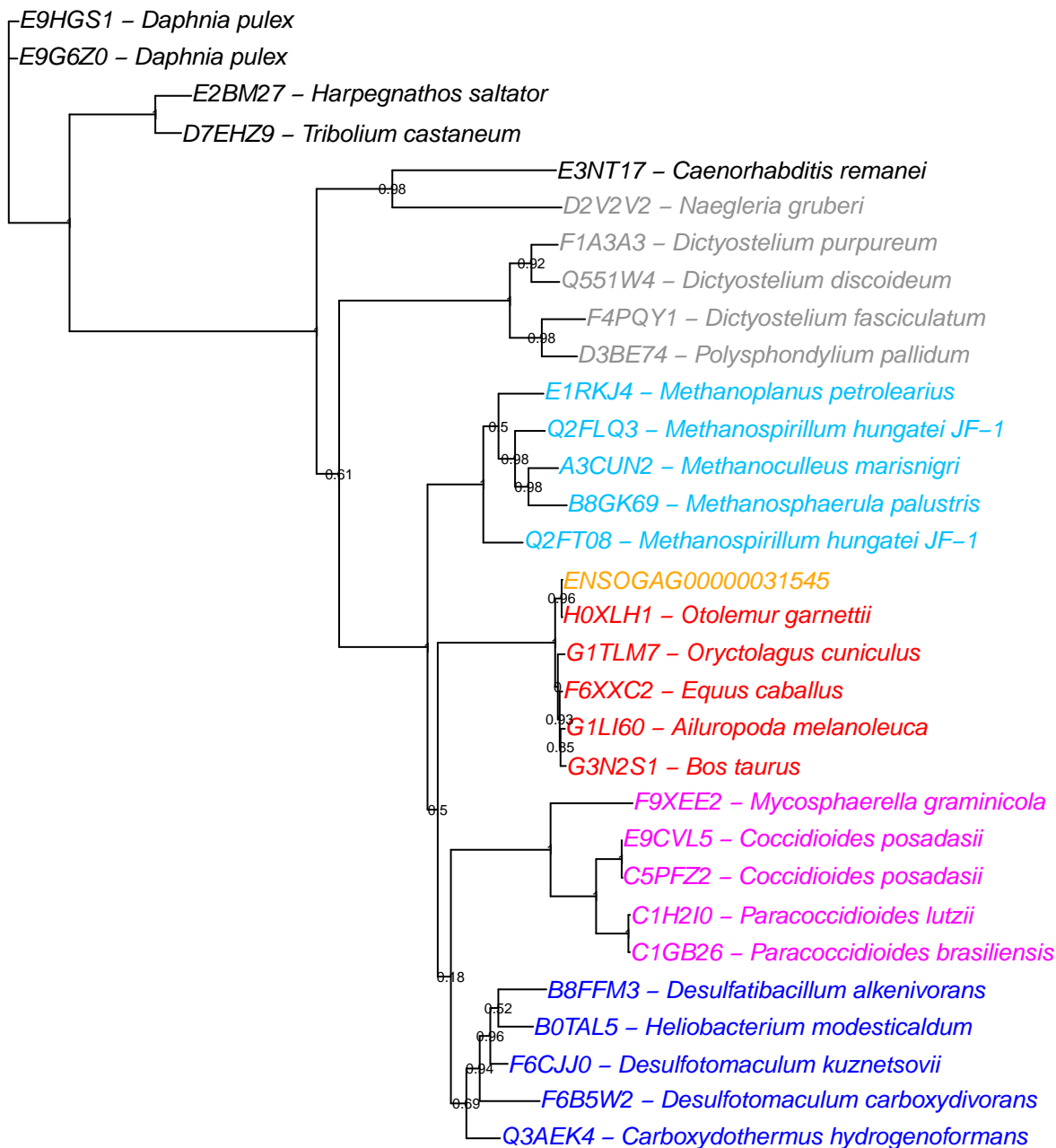
H0XJR7 – *Otolemur garnettii*

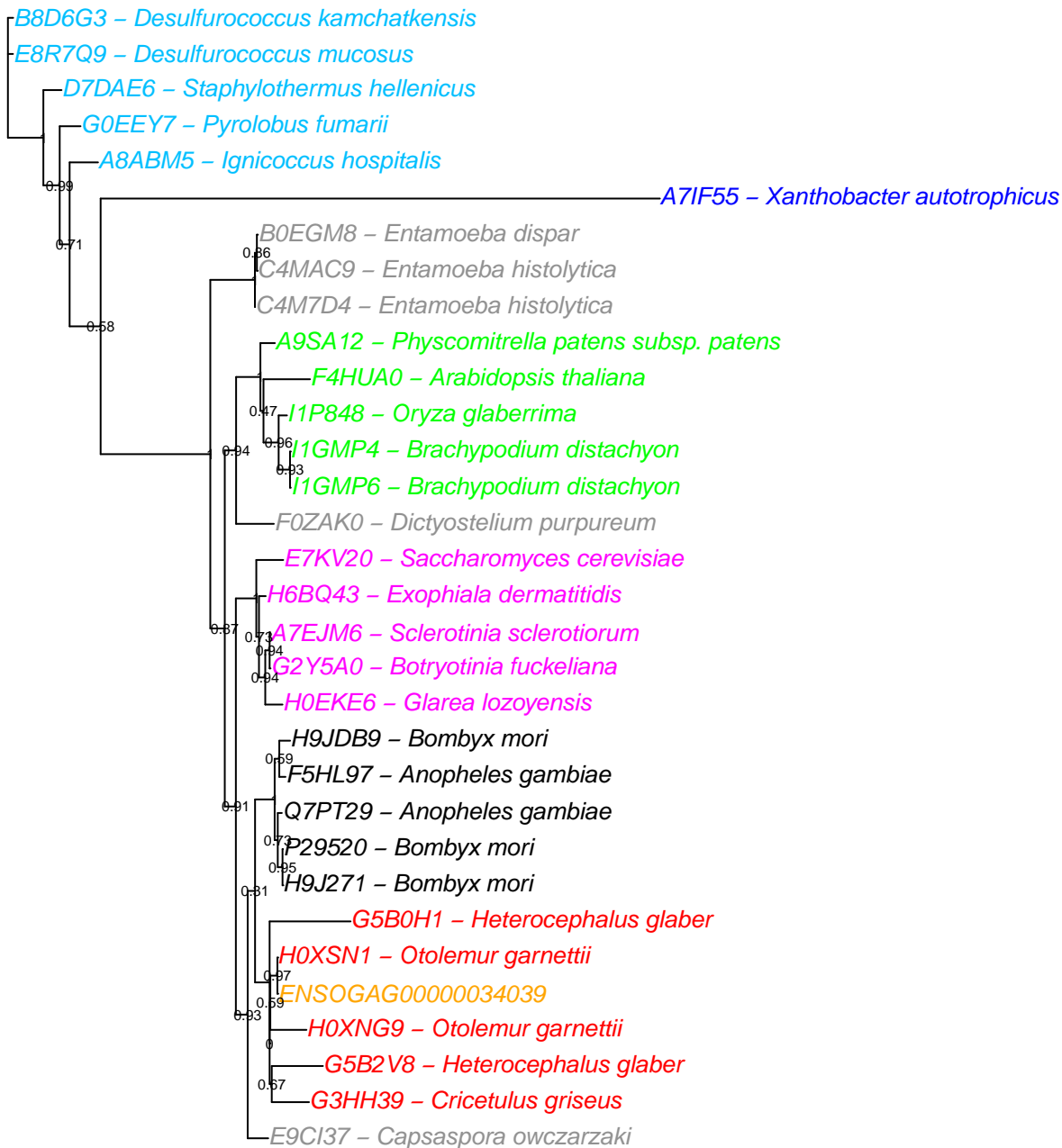
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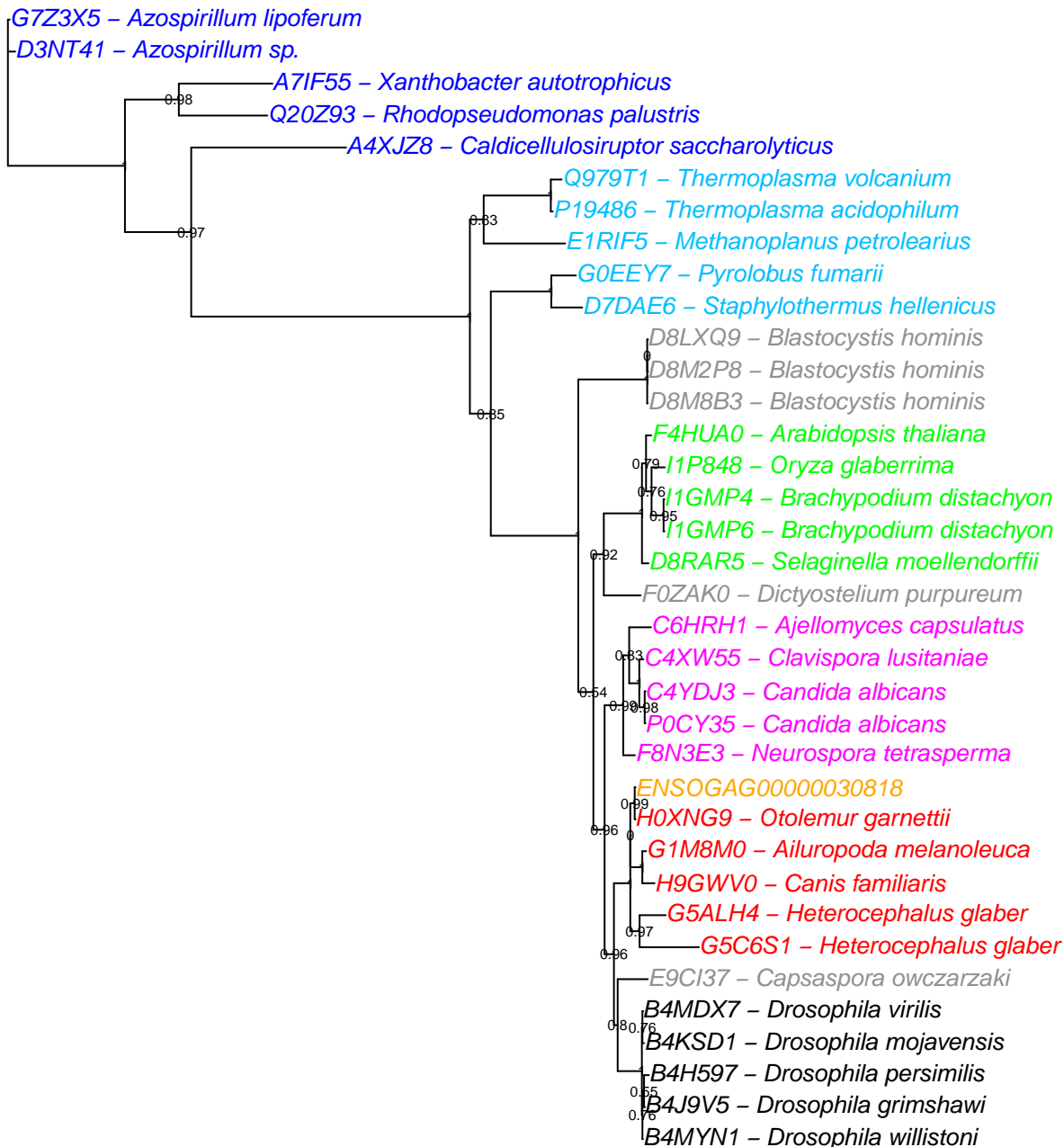
B7Q3N5 – *Ixodes scapularis*

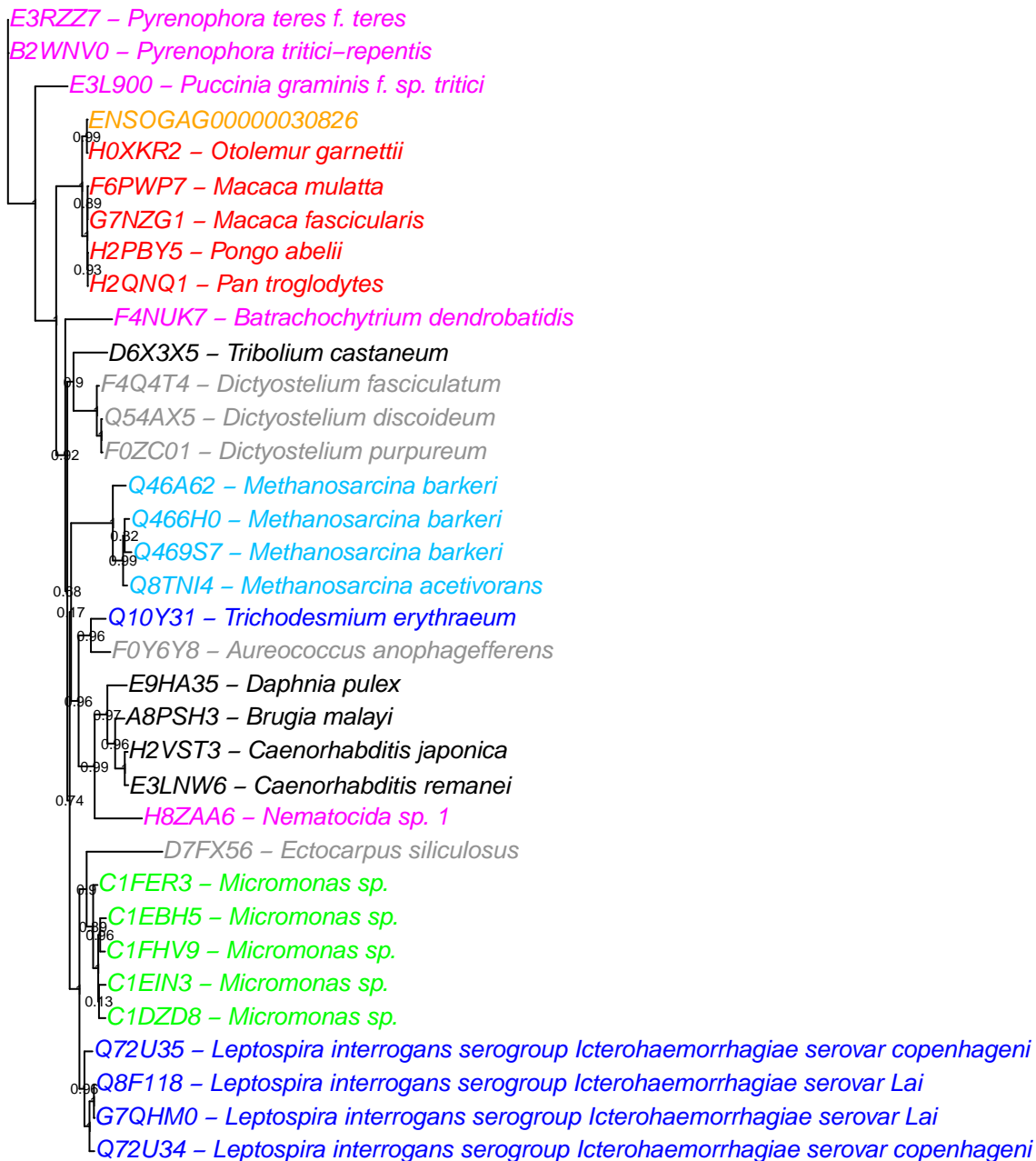


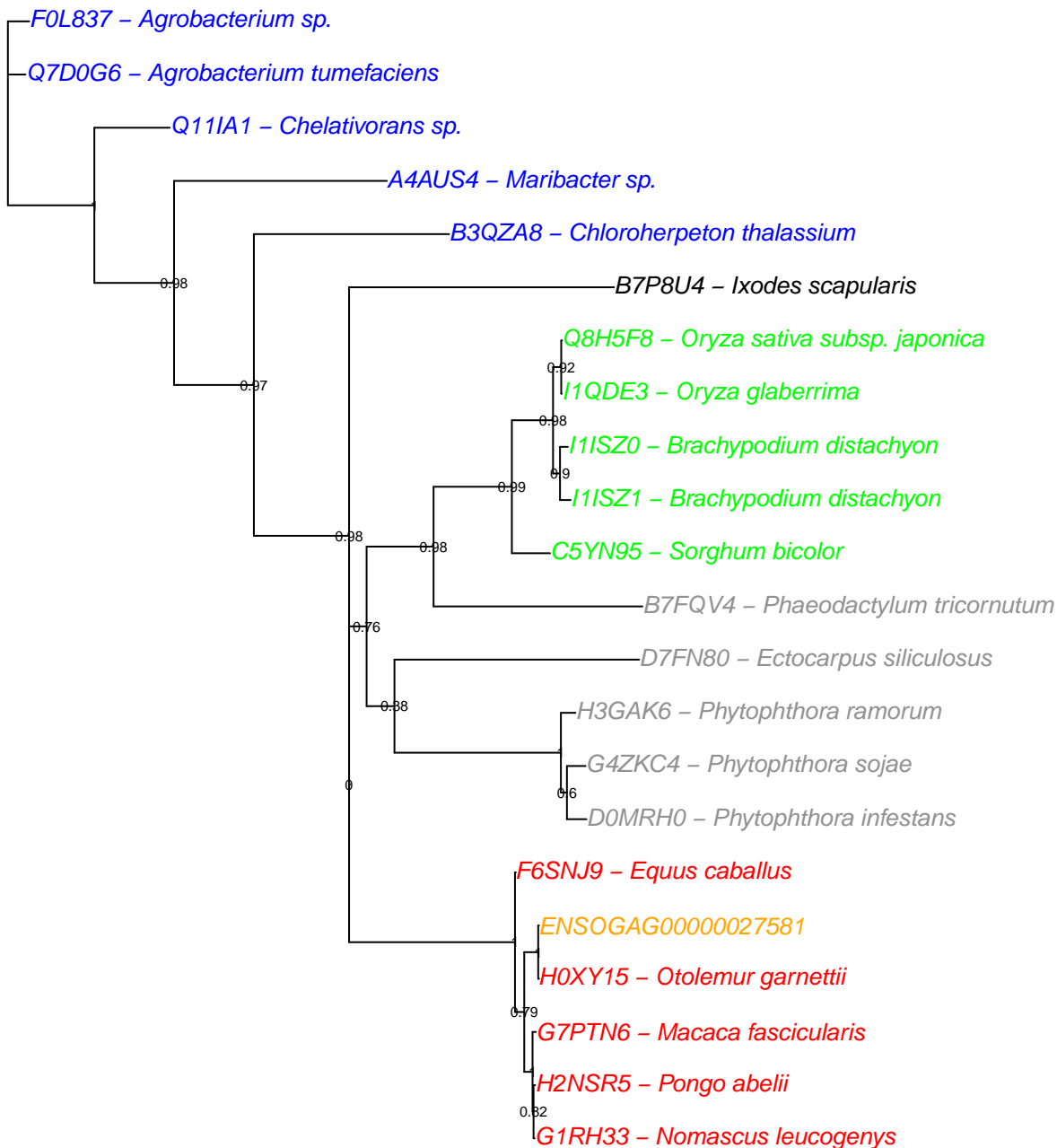


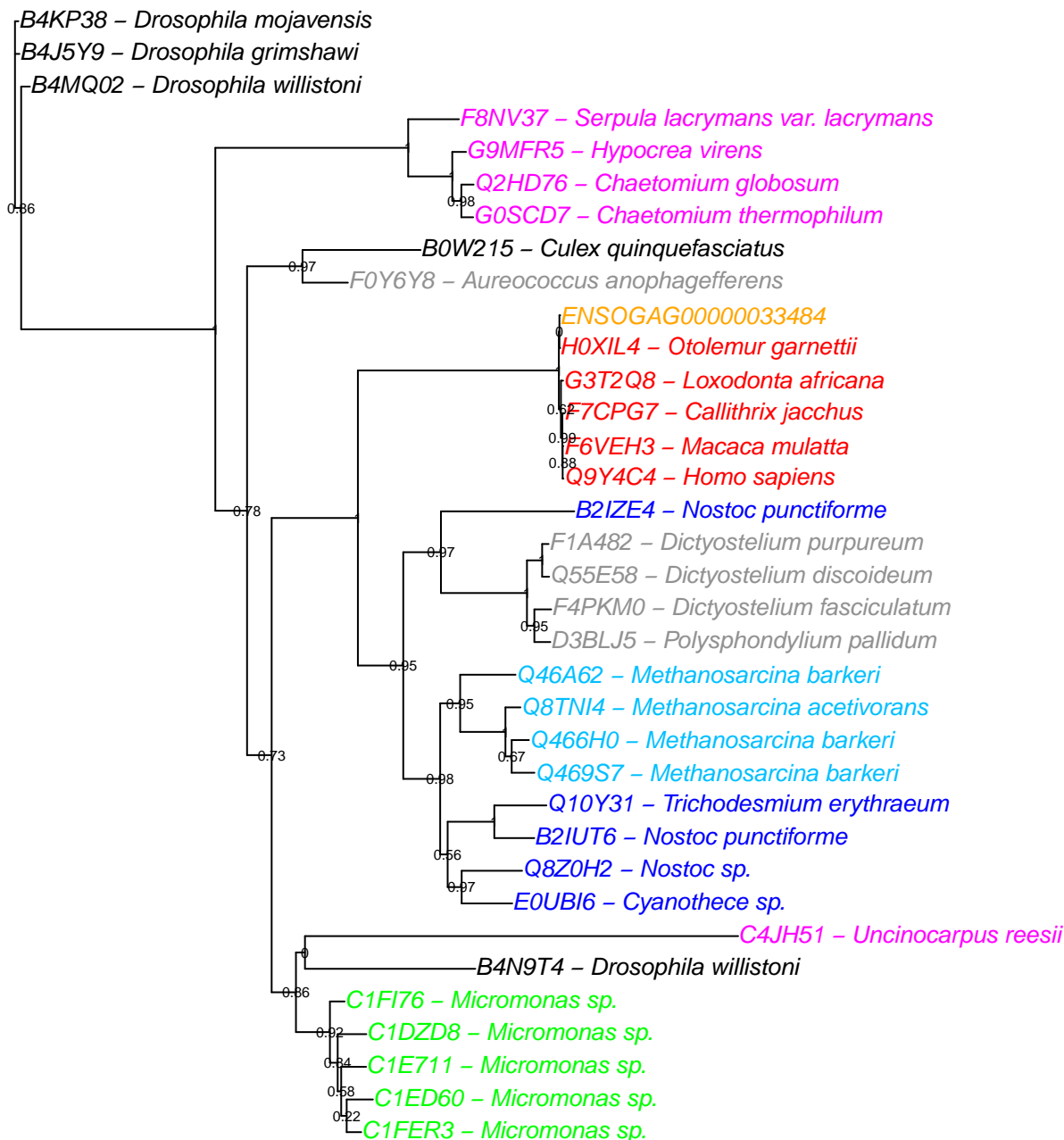












Q97YM4 – *Sulfolobus solfataricus*

D0KUP2 – *Sulfolobus solfataricus*

F4G0D4 – *Metallosphaera cuprina*

Q9HJU0 – *Thermoplasma acidophilum*

D7G7X6 – *Ectocarpus siliculosus*

A9KK06 – *Clostridium phytofermentans*

E4SPX6 – *Streptococcus thermophilus*

Q03MS9 – *Streptococcus thermophilus*

F6BZY2 – *Sinorhizobium meliloti*

C3LL95 – *Bacillus anthracis*

G9NND0 – *Hypocrea atroviridis*

ENSOGAG00000027147

H0XU08 – *Otolemur garnettii*

Q8CH93 – *Rattus norvegicus*

Q61647 – *Mus musculus*

G3S833 – *Gorilla gorilla gorilla*

Q92839 – *Homo sapiens*

I1C447 – *Rhizopus delemar*

F9FZM0 – *Fusarium oxysporum*

B8PCC4 – *Postia placenta*

B8PKM3 – *Postia placenta*

E4NTD4 – *Halogeometricum borinquense*

C5WWR7 – *Sorghum bicolor*

G5ECD6 – *Caenorhabditis elegans*

A8XE88 – *Caenorhabditis briggsae*

G0NCW3 – *Caenorhabditis brenneri*

H2VHT5 – *Caenorhabditis japonica*

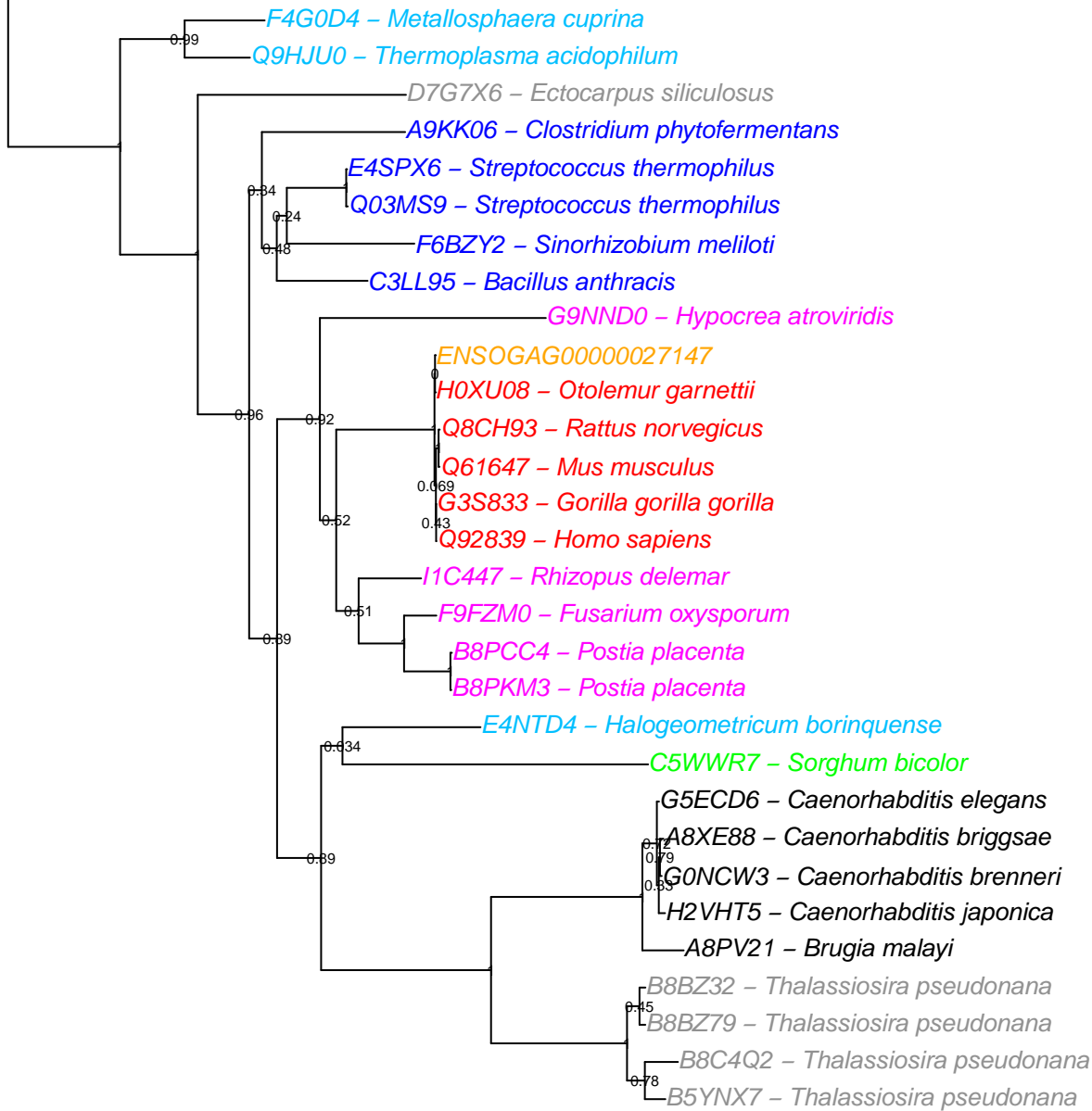
A8PV21 – *Brugia malayi*

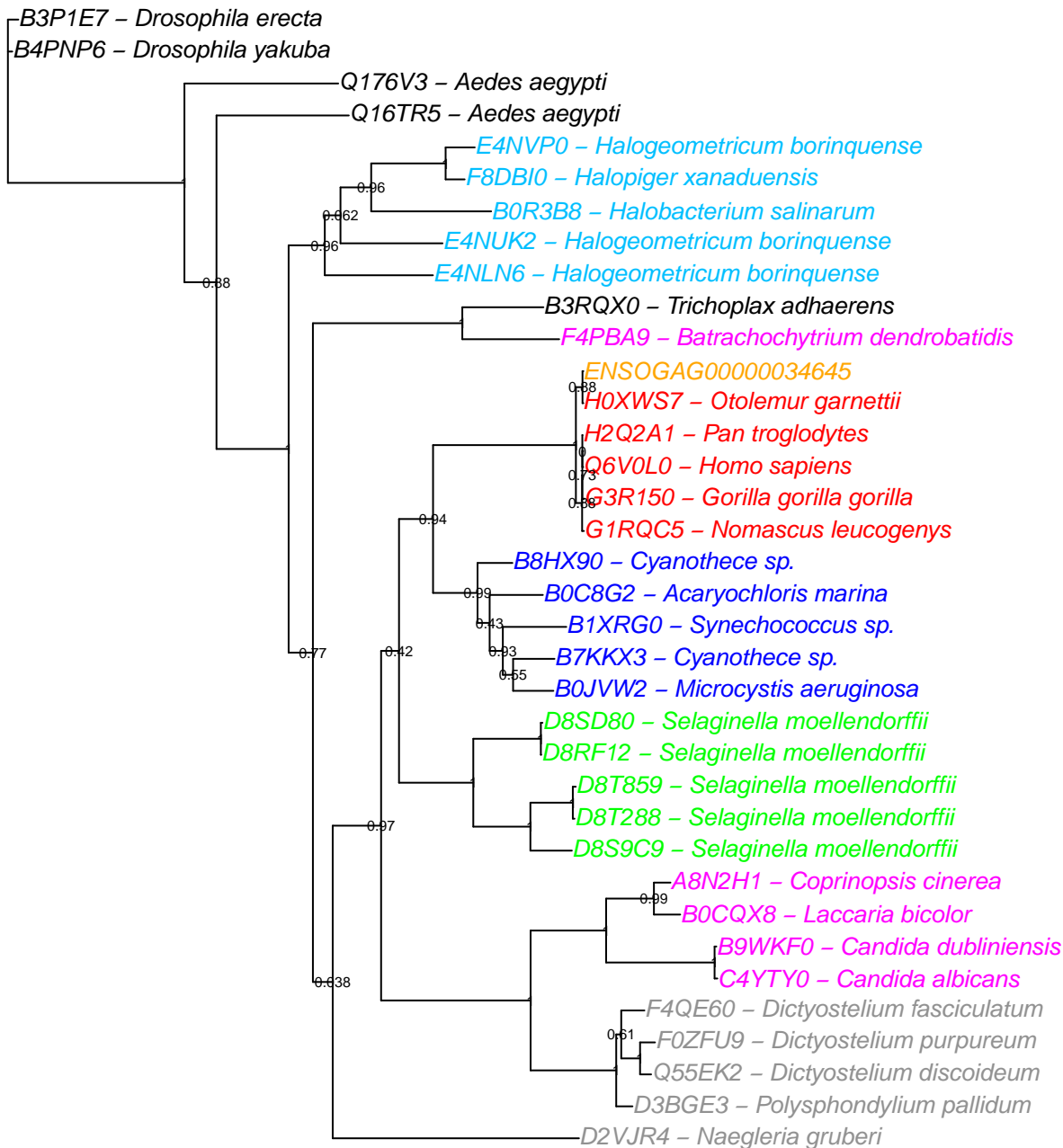
B8BZ32 – *Thalassiosira pseudonana*

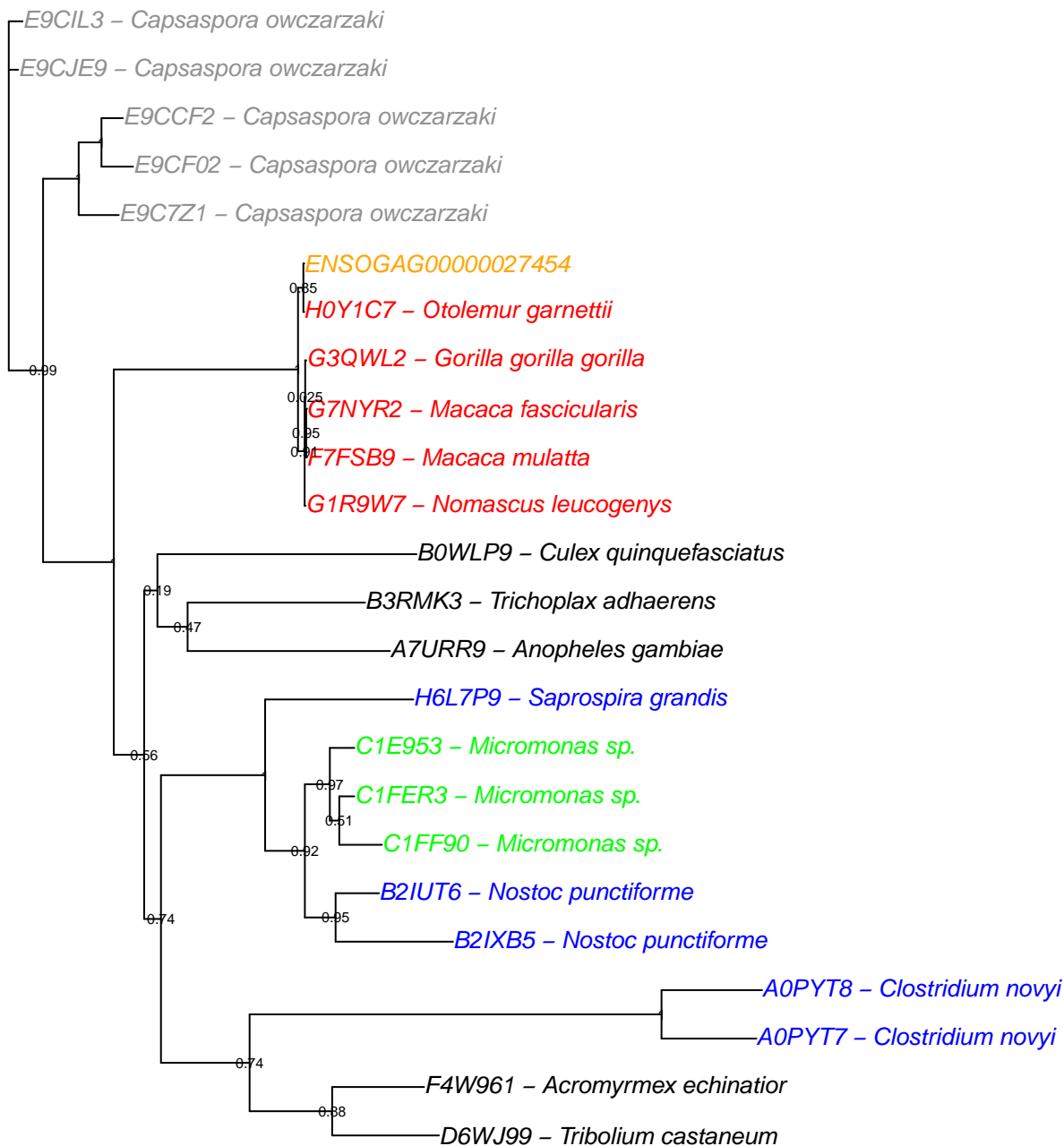
B8BZ79 – *Thalassiosira pseudonana*

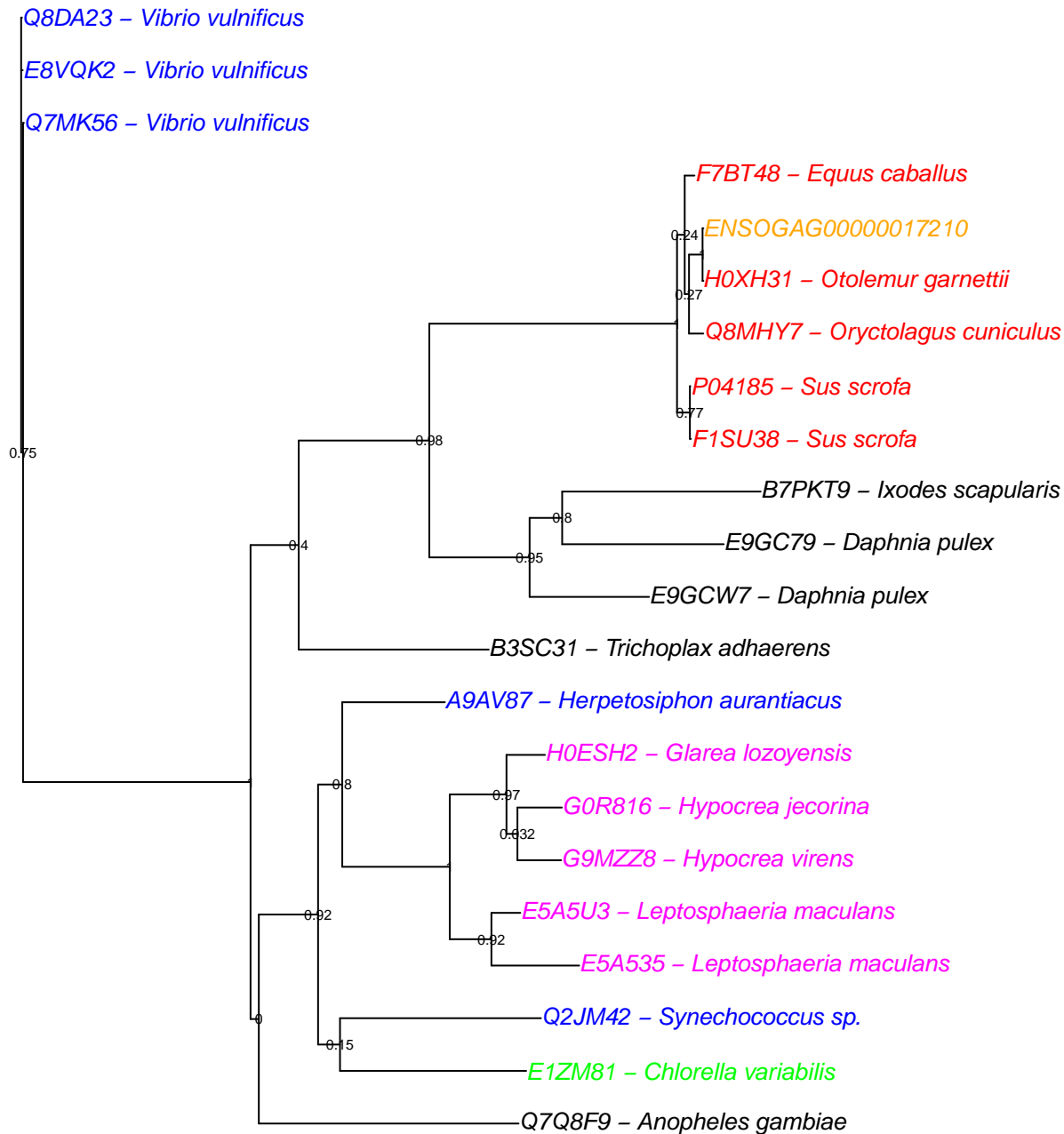
B8C4Q2 – *Thalassiosira pseudonana*

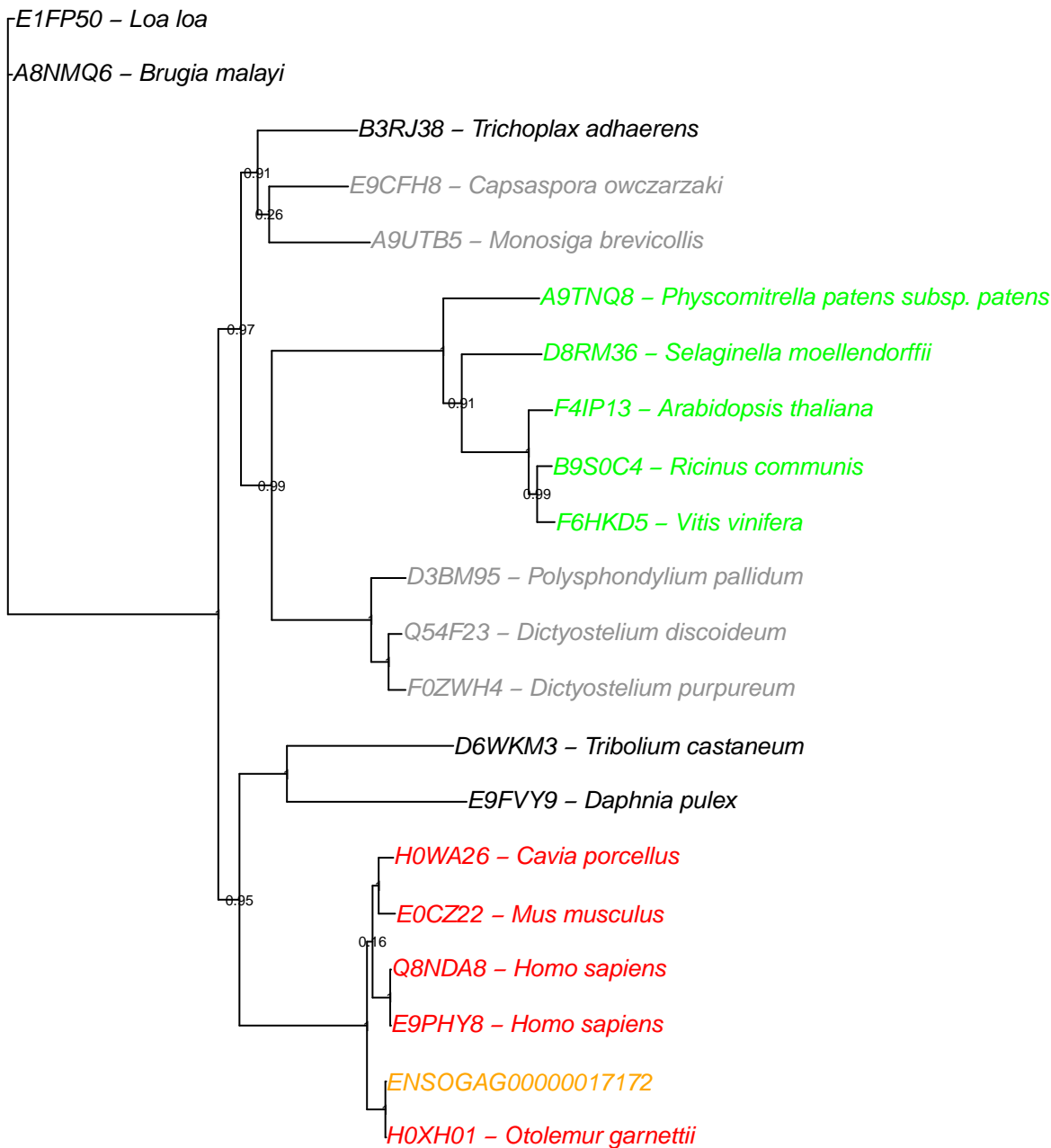
B5YNX7 – *Thalassiosira pseudonana*



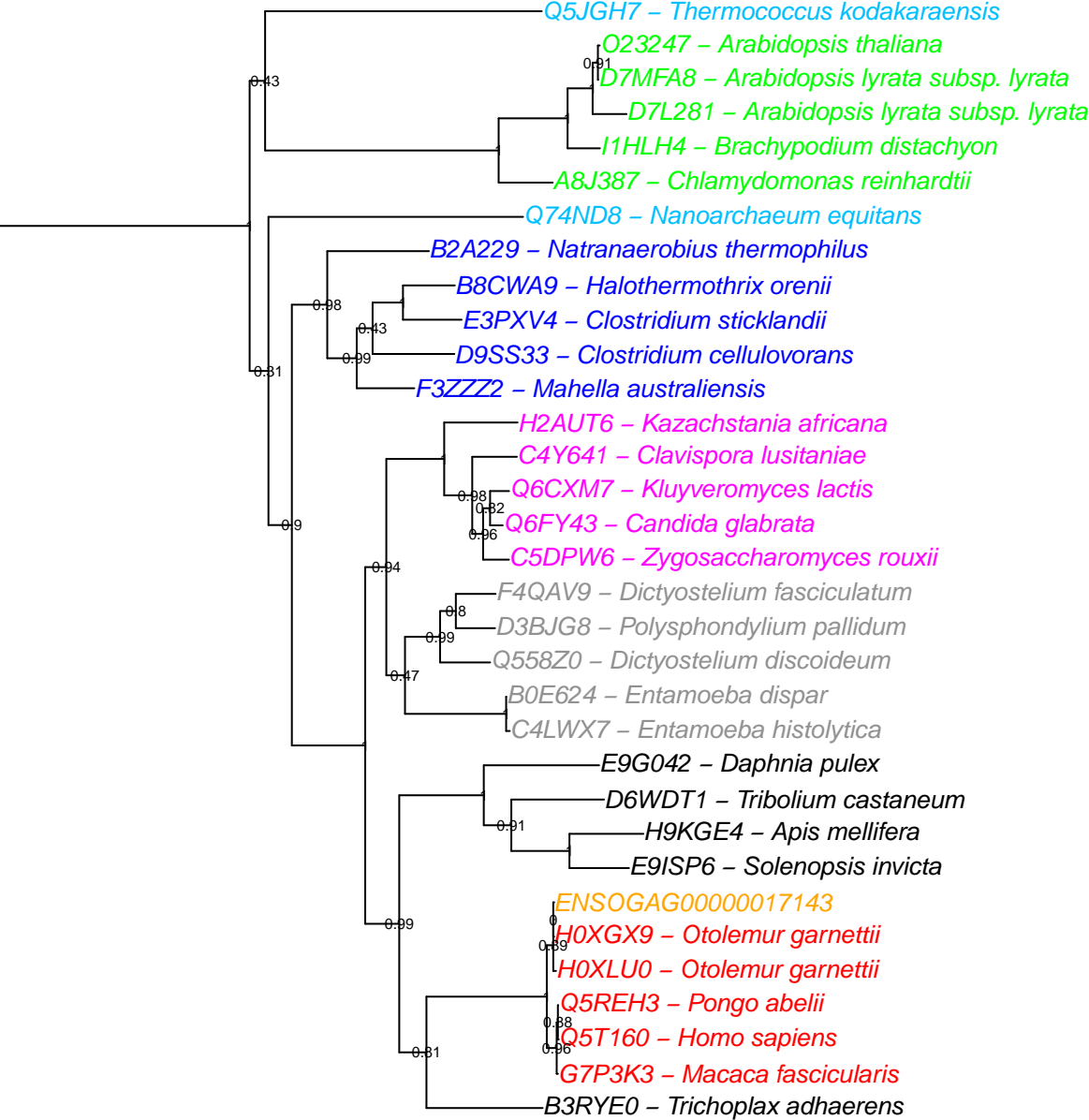


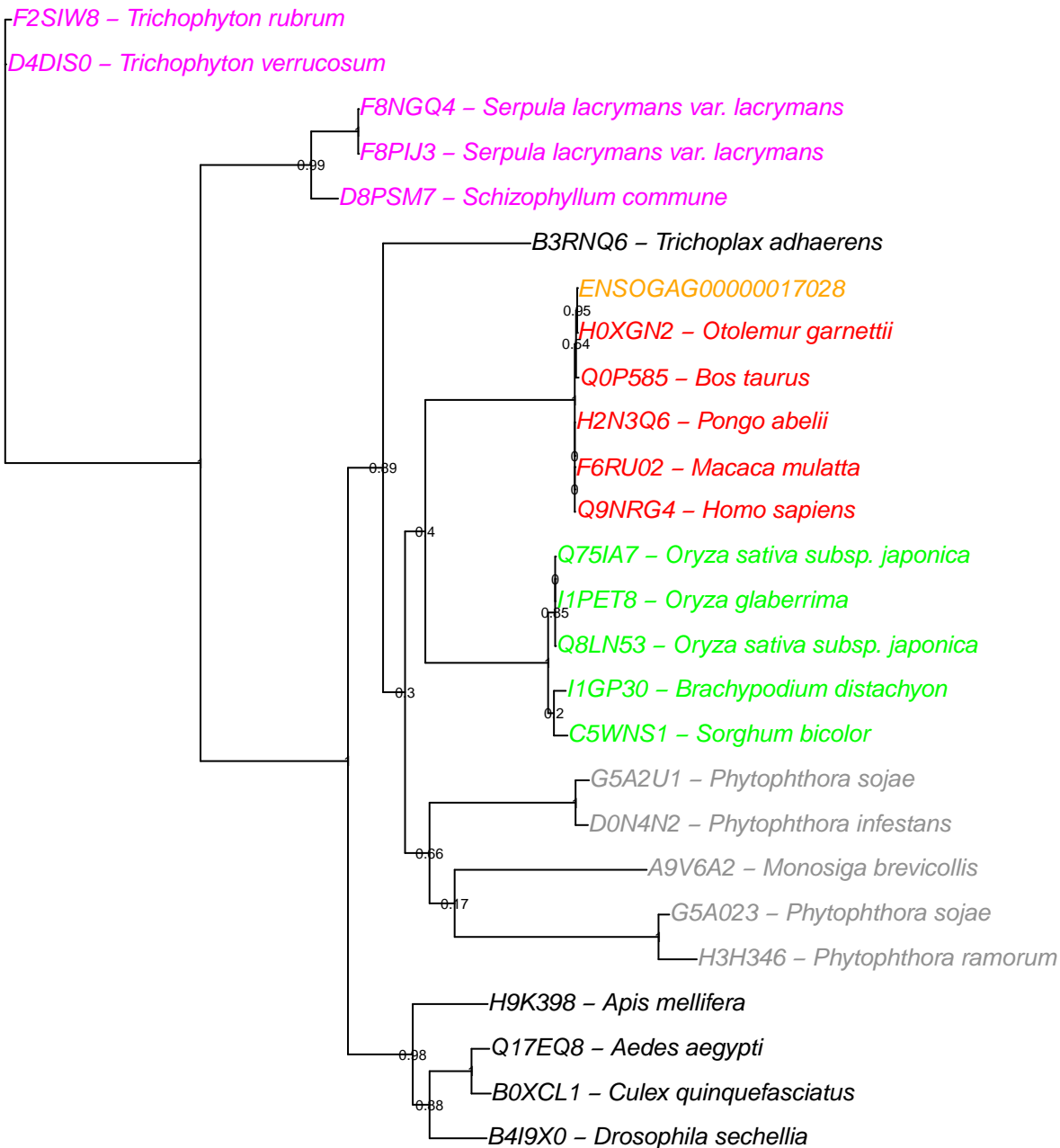


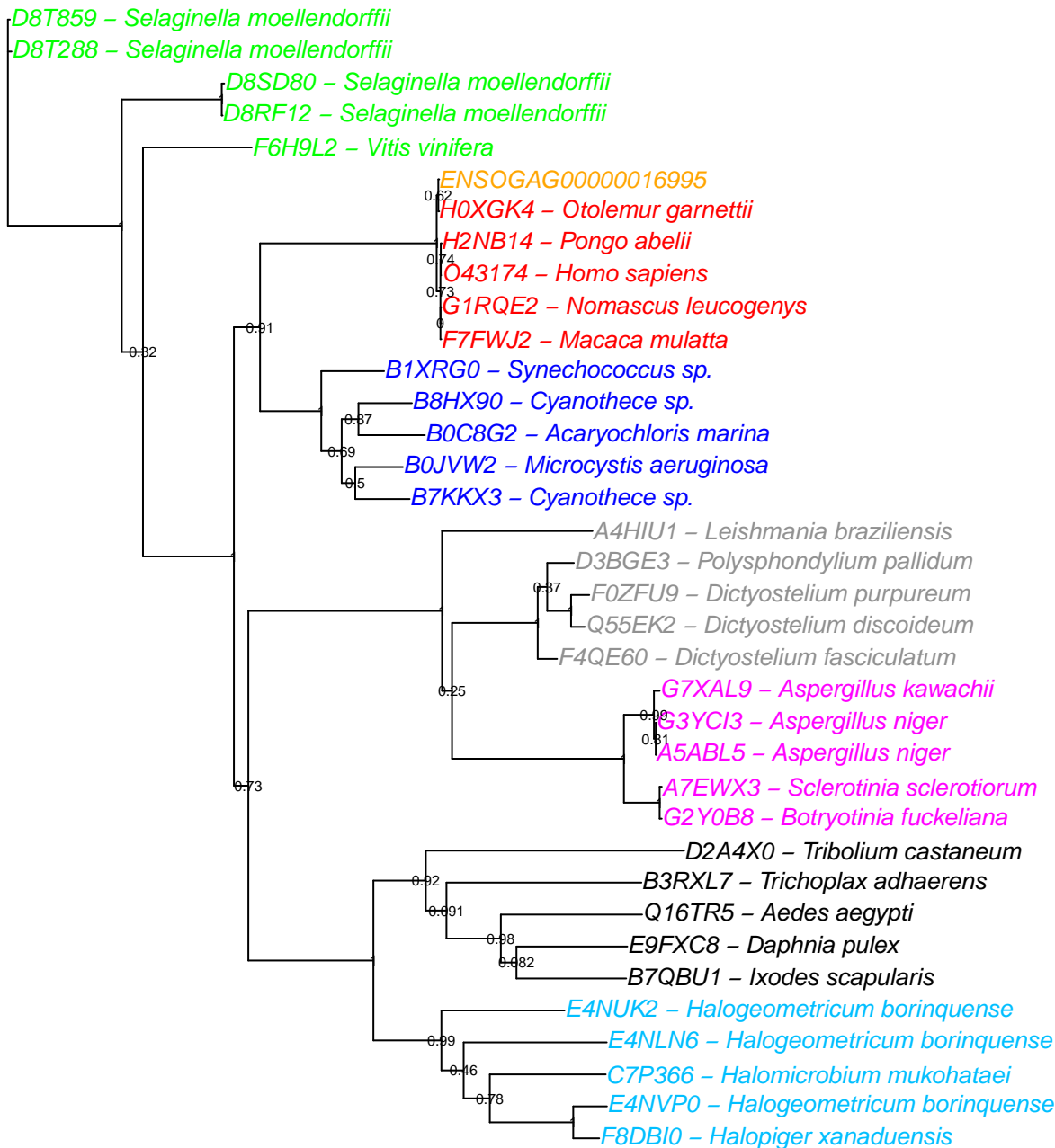


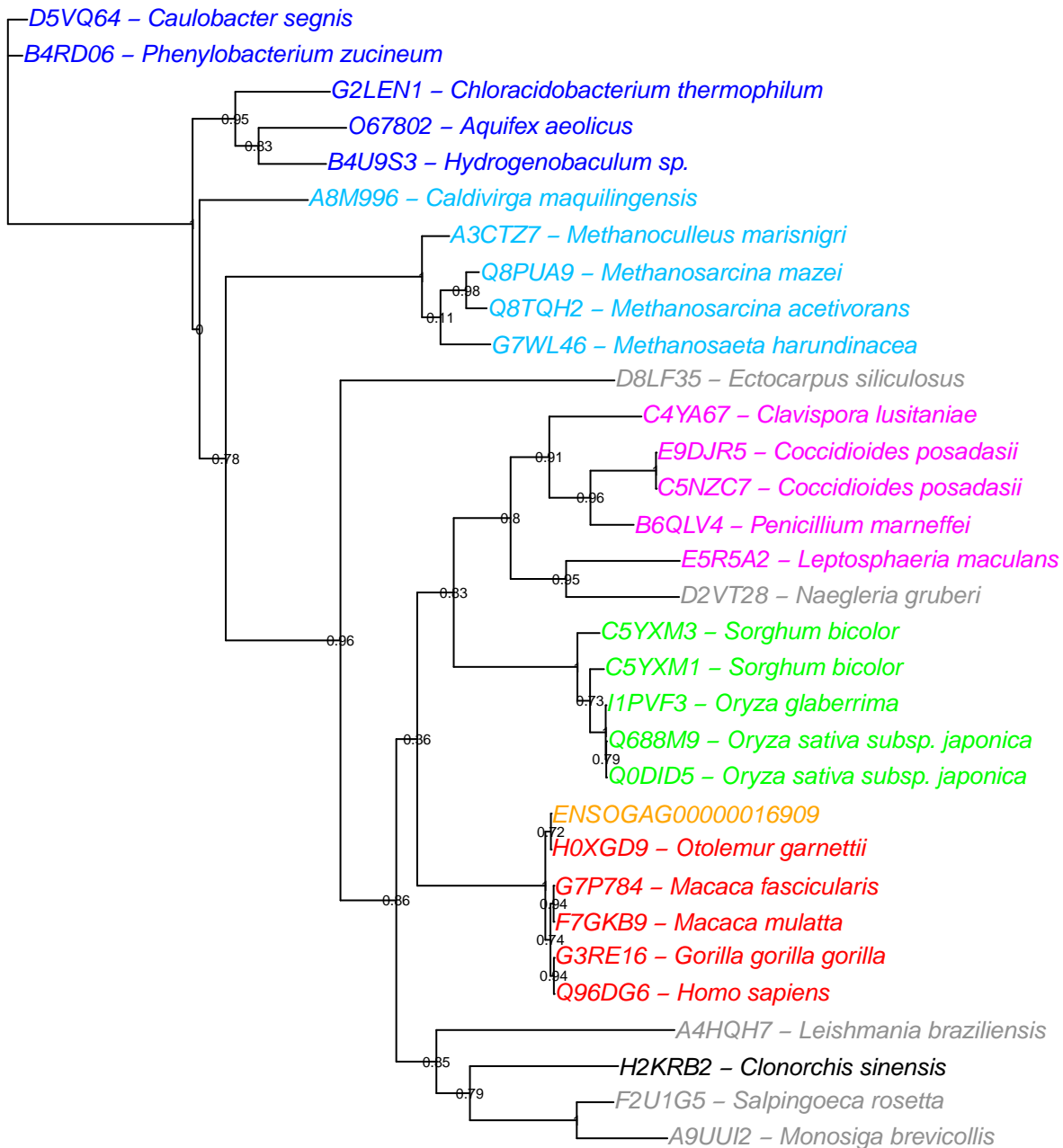


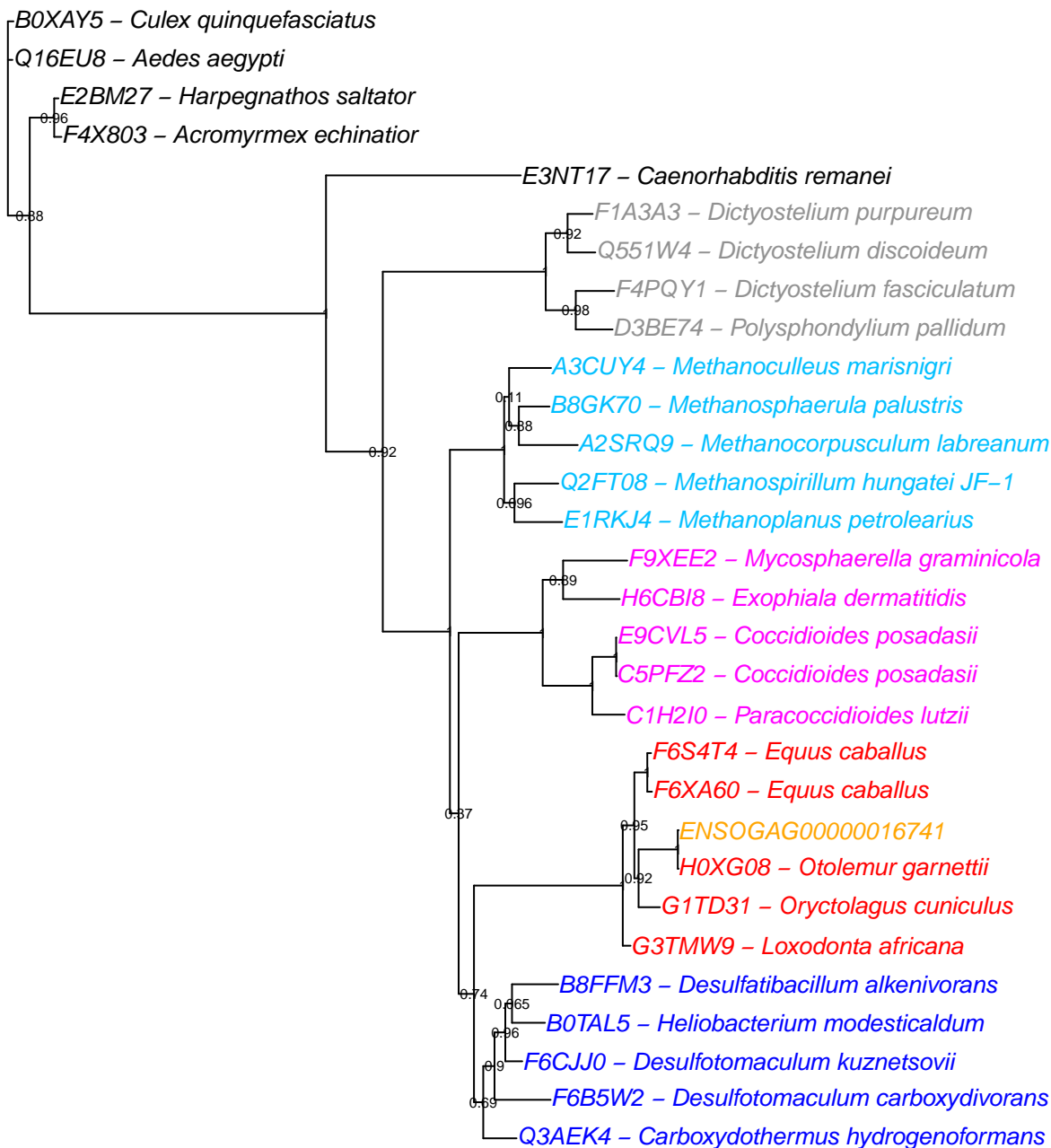
B0R9X1 – *Halobacterium salinarum*
Q9HHN2 – *Halobacterium salinarum*

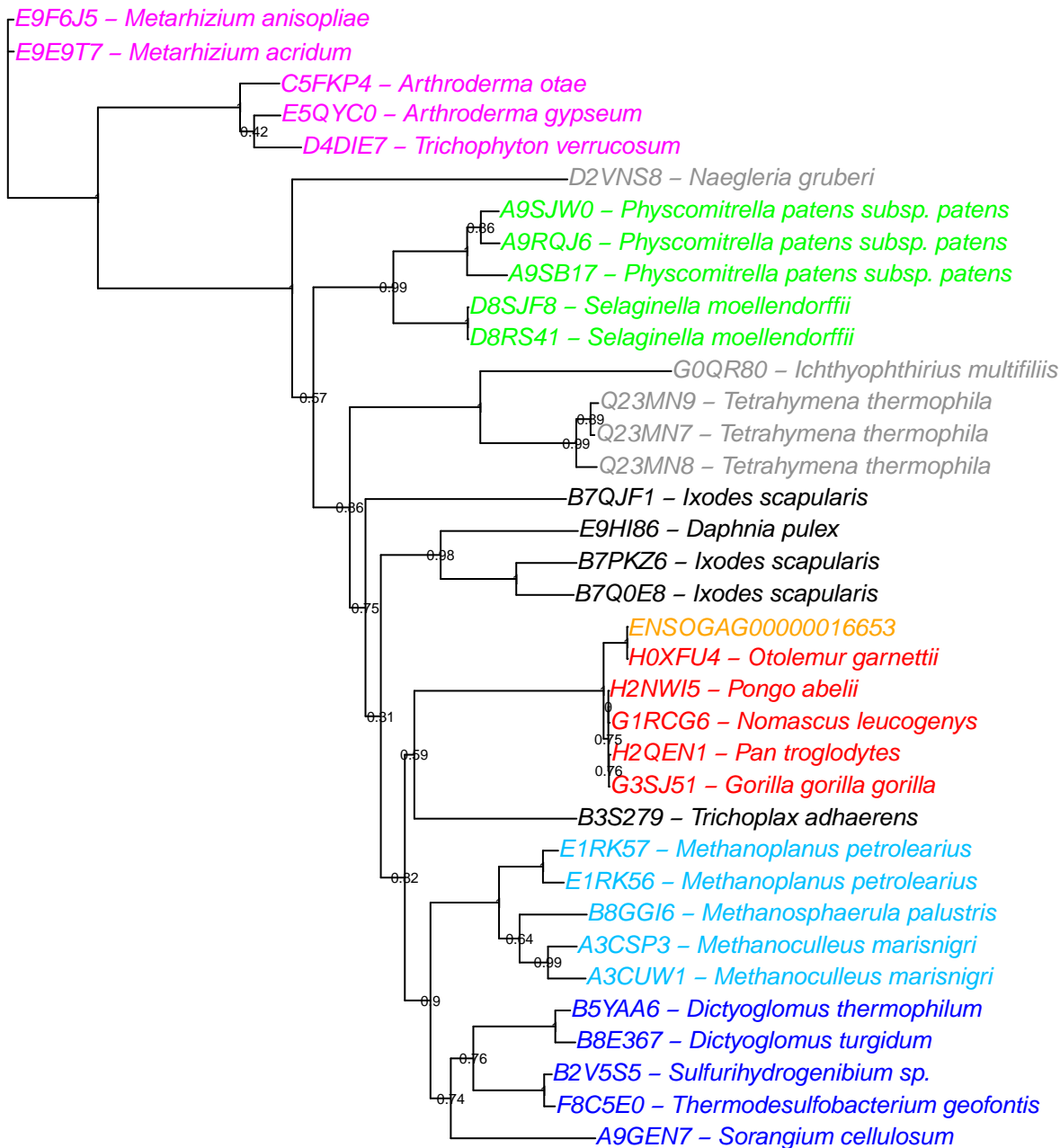


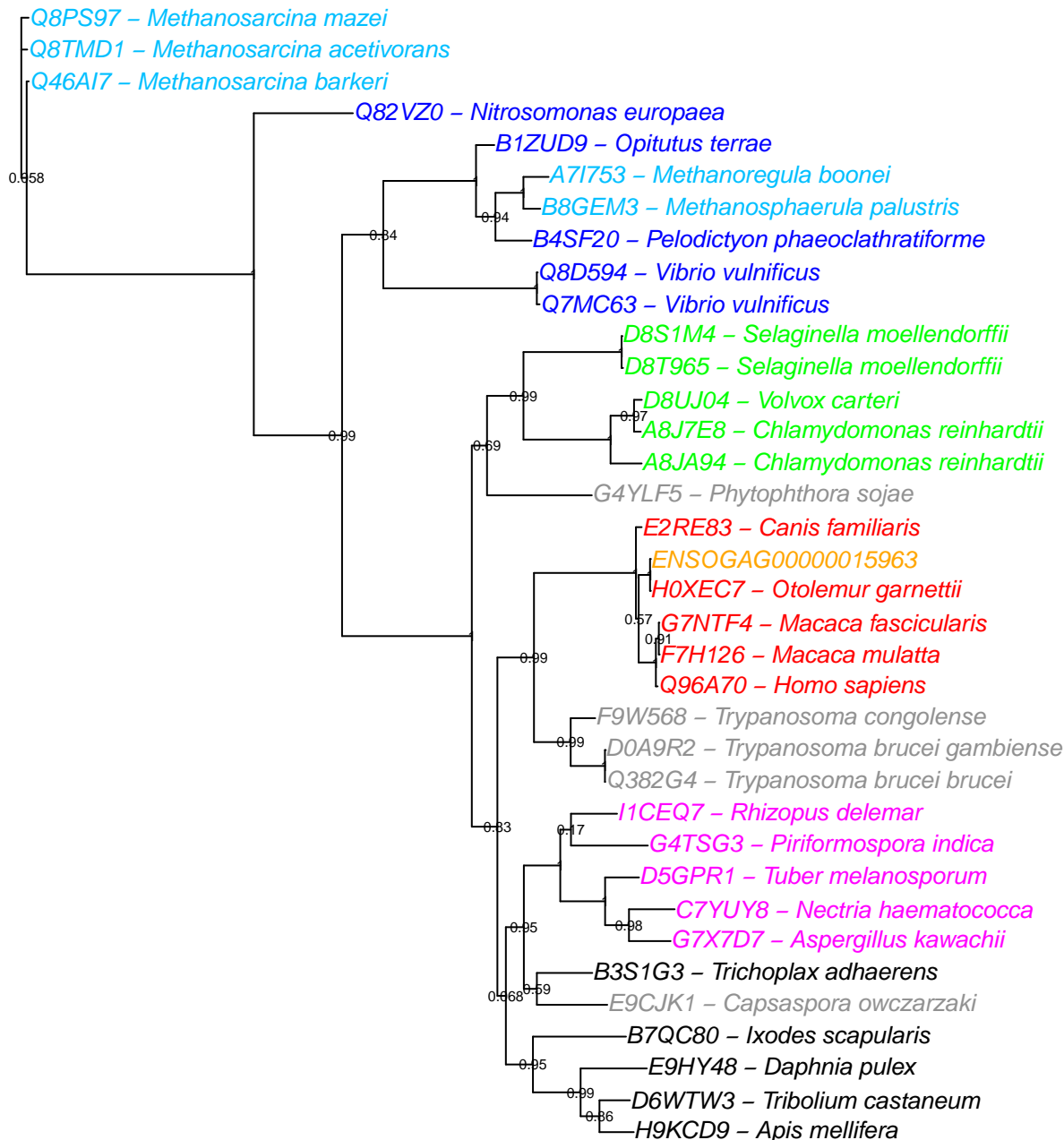


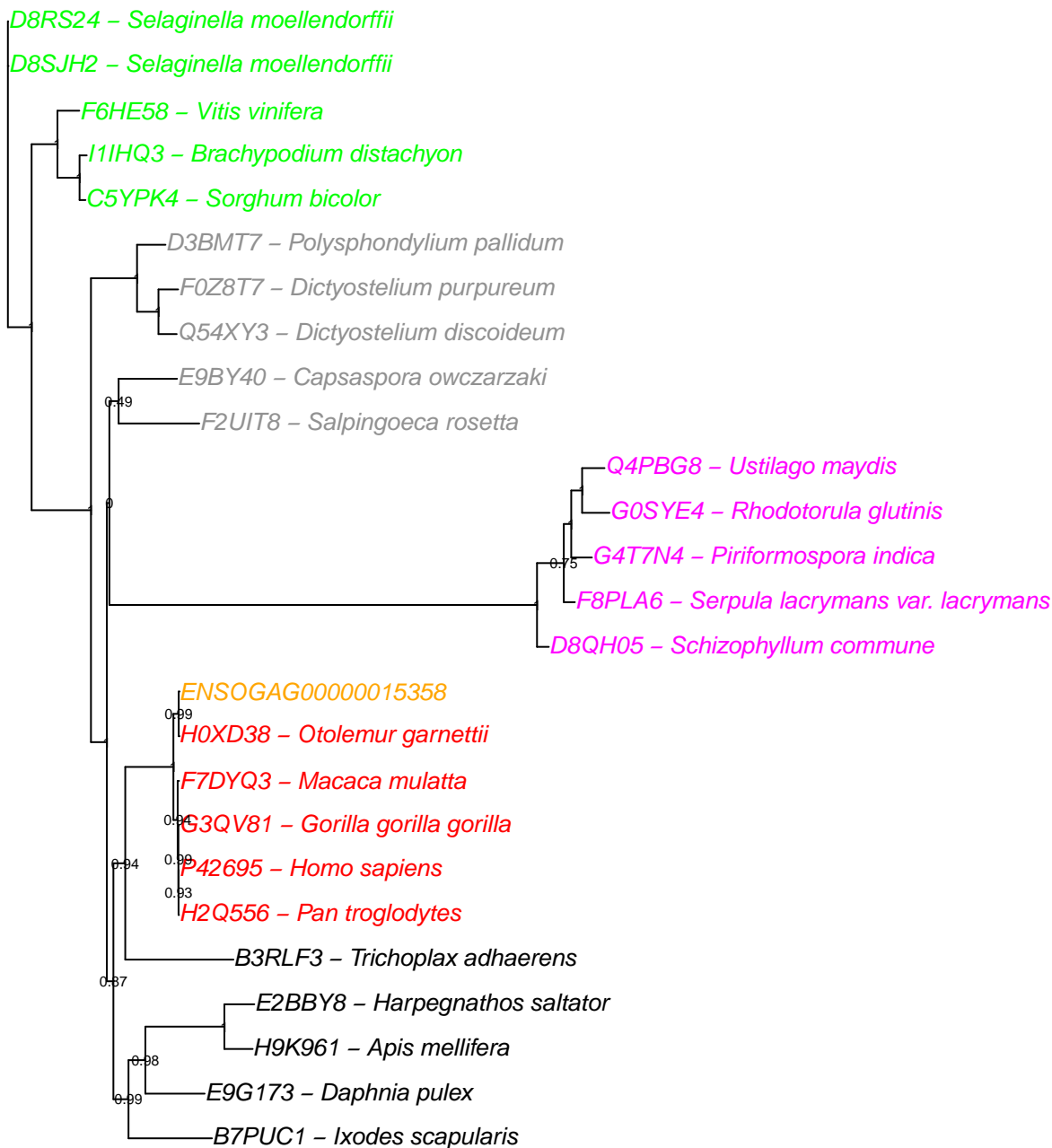


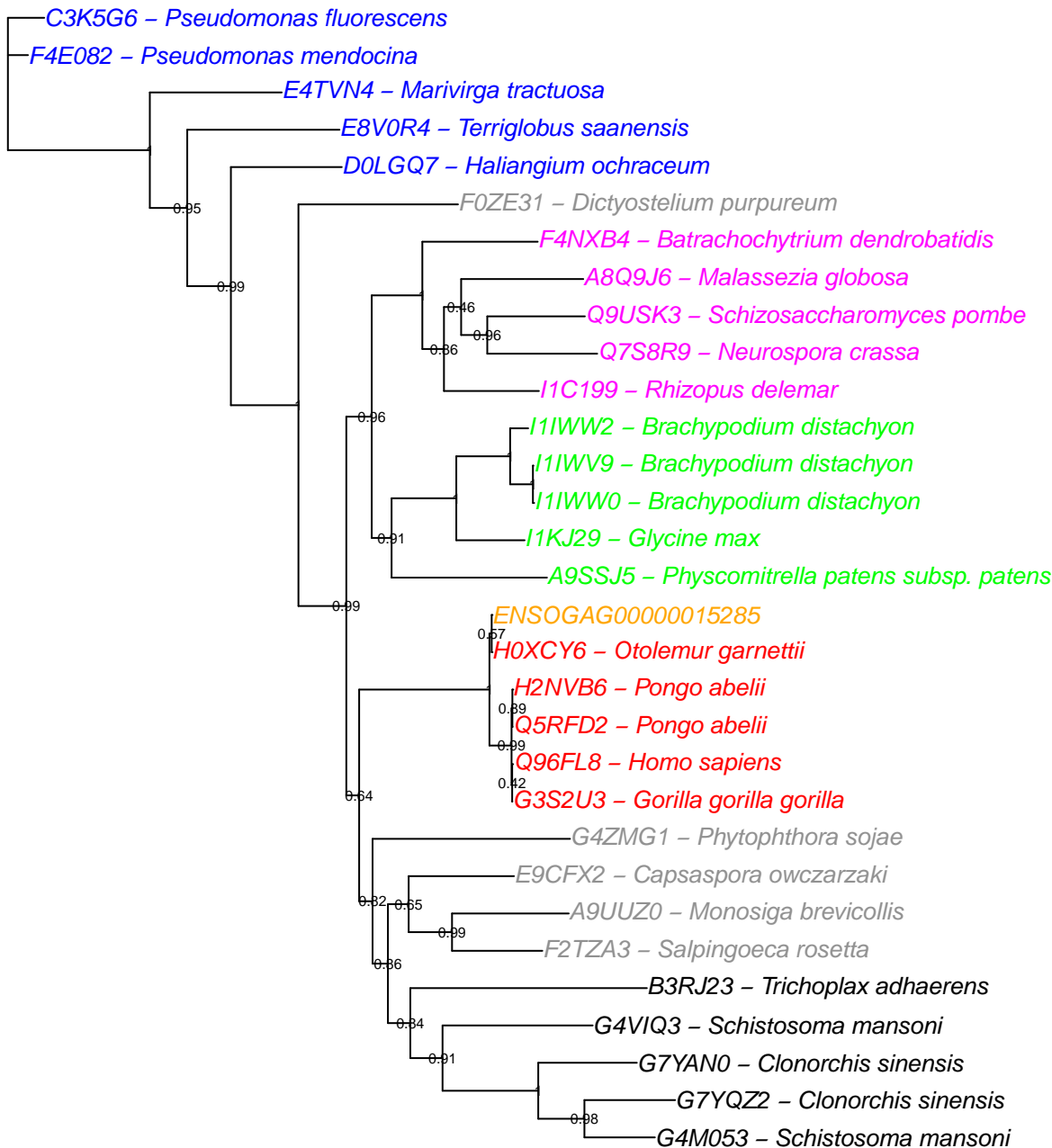


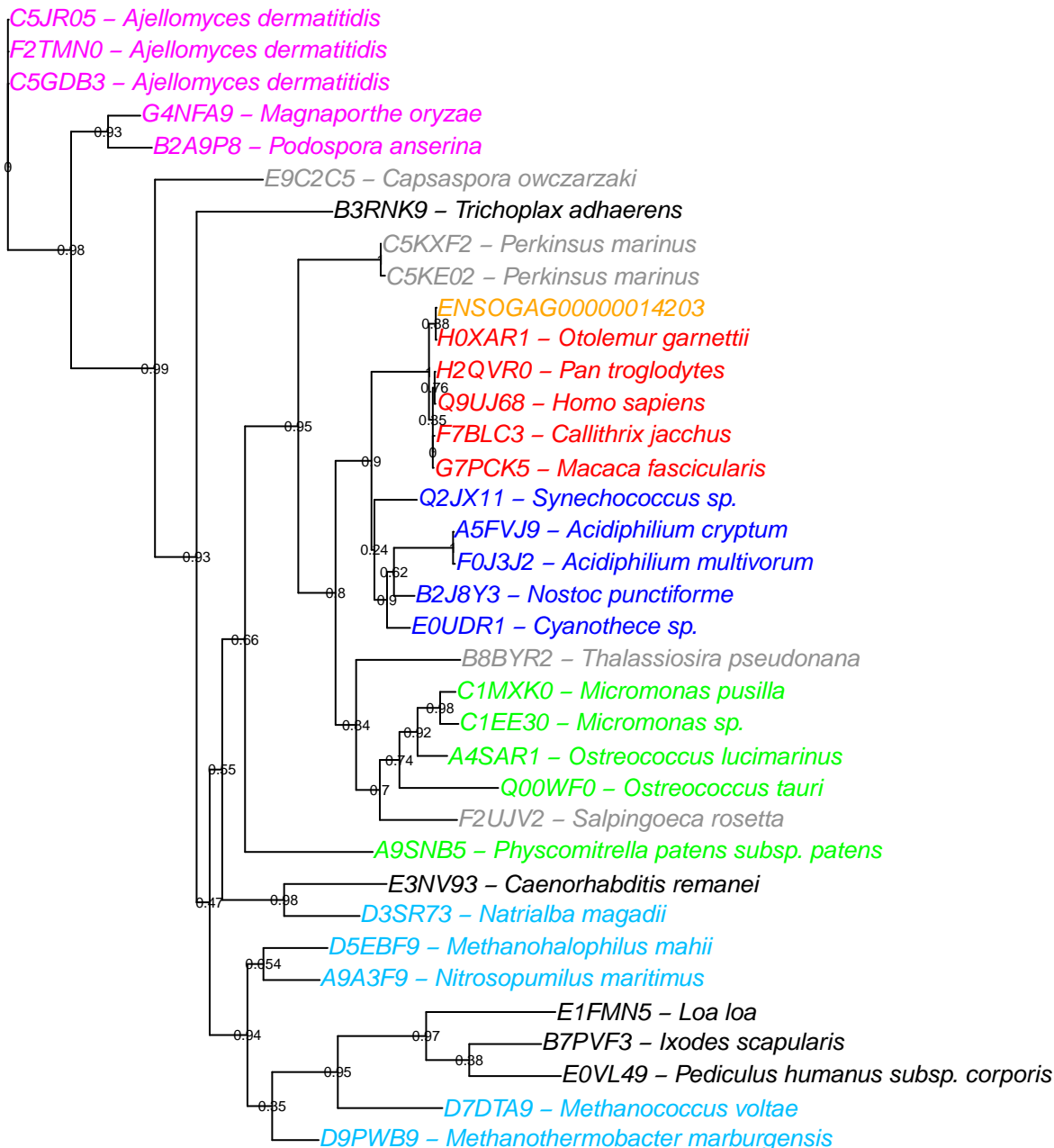


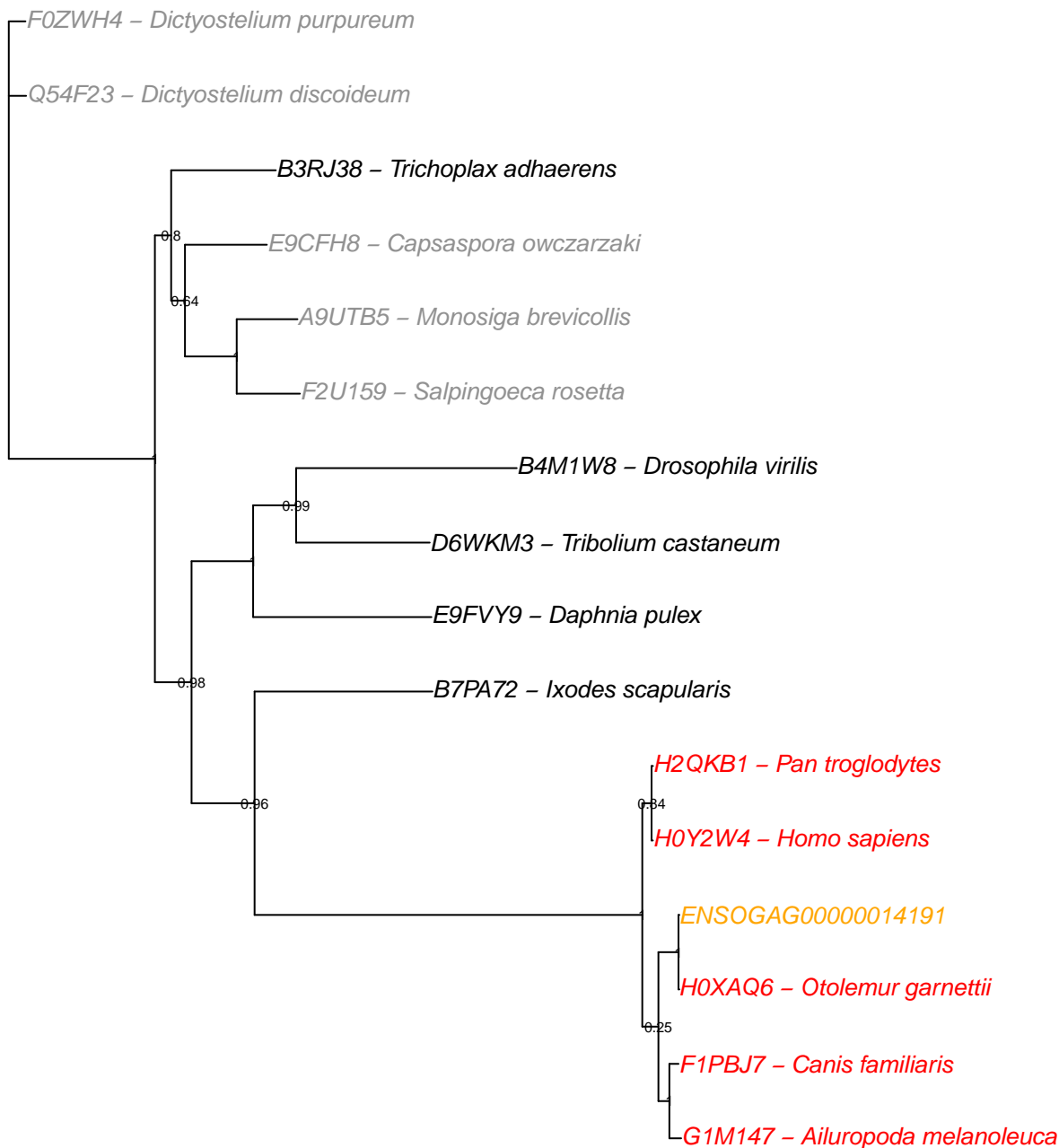


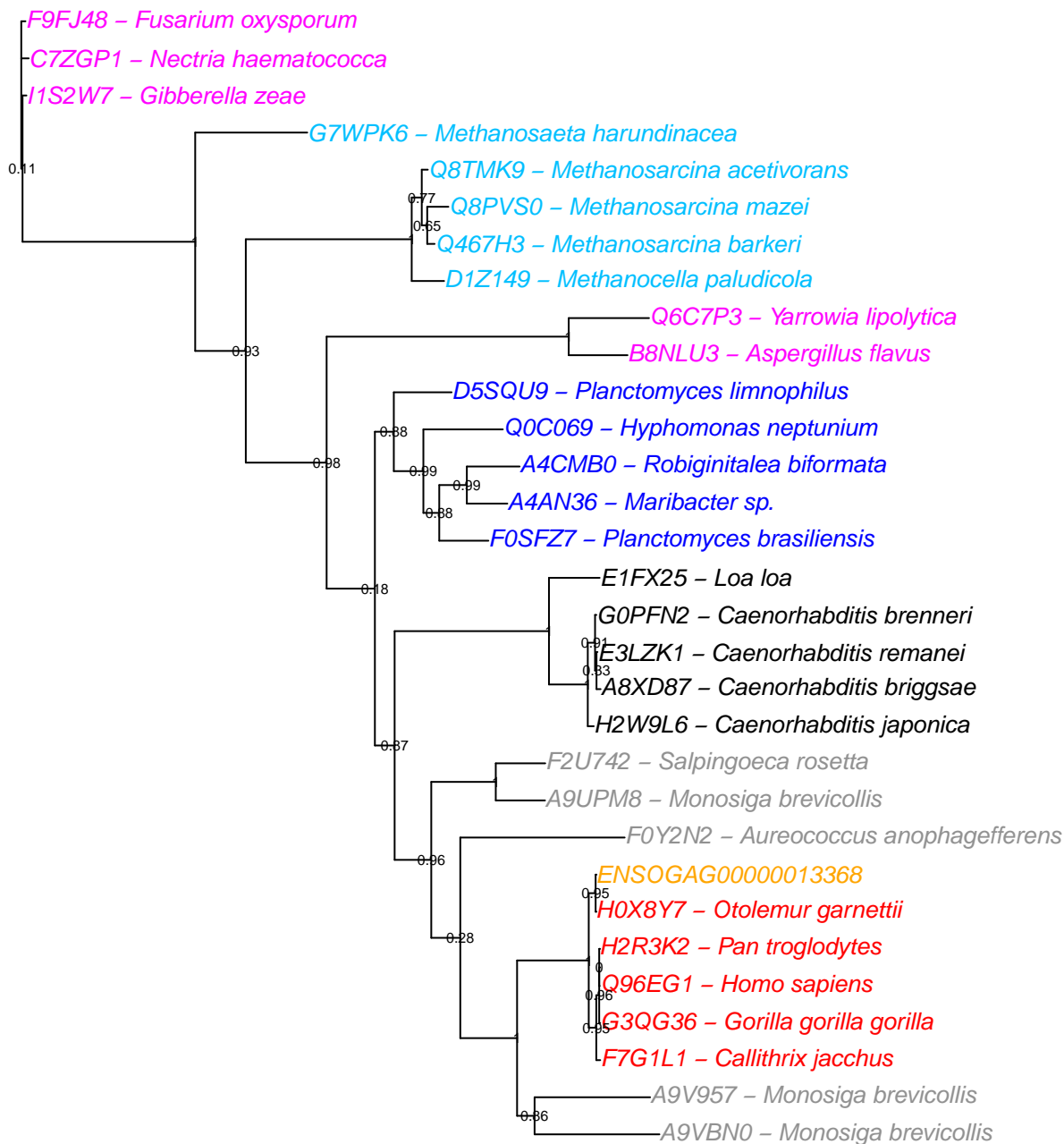


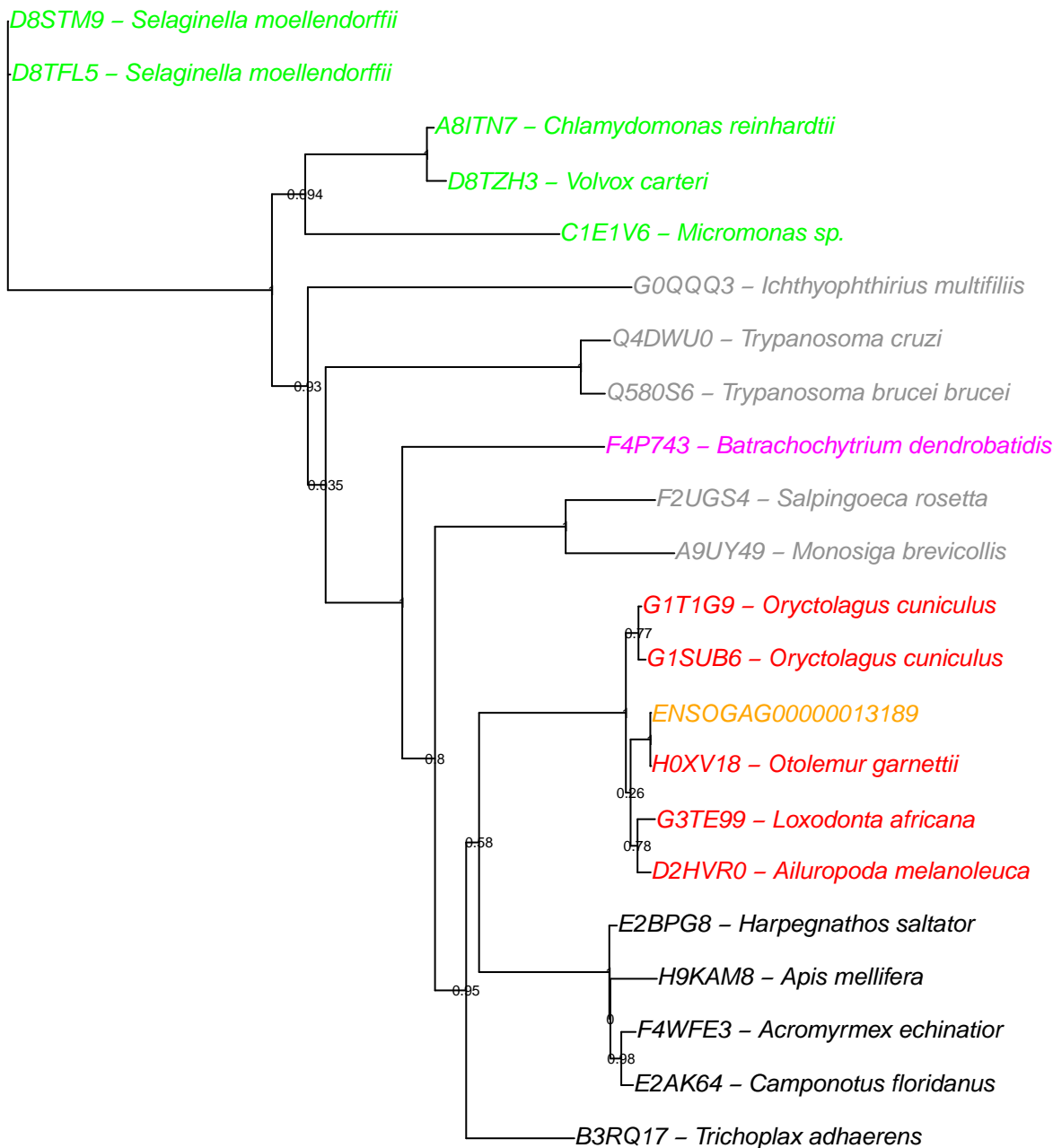


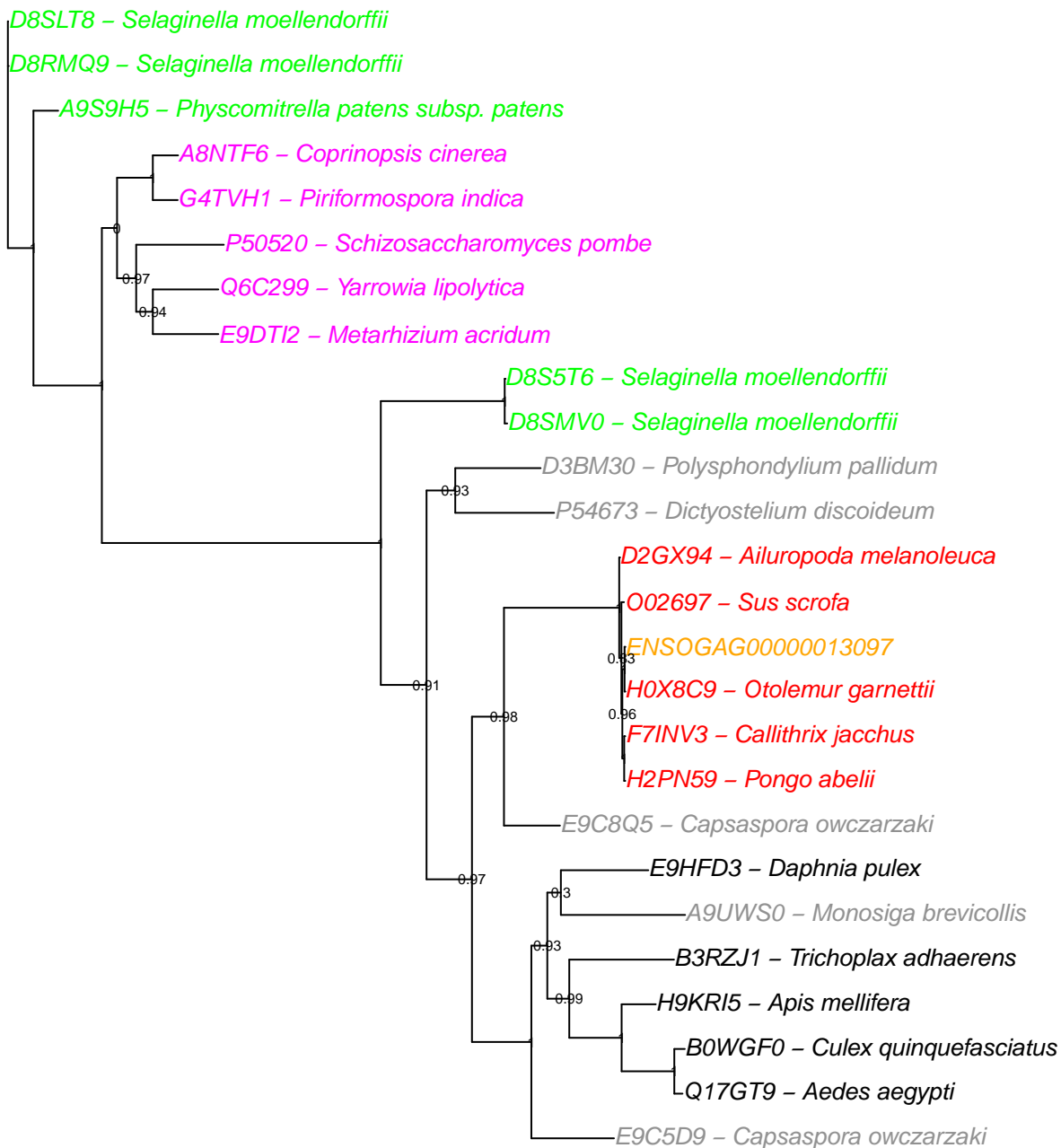






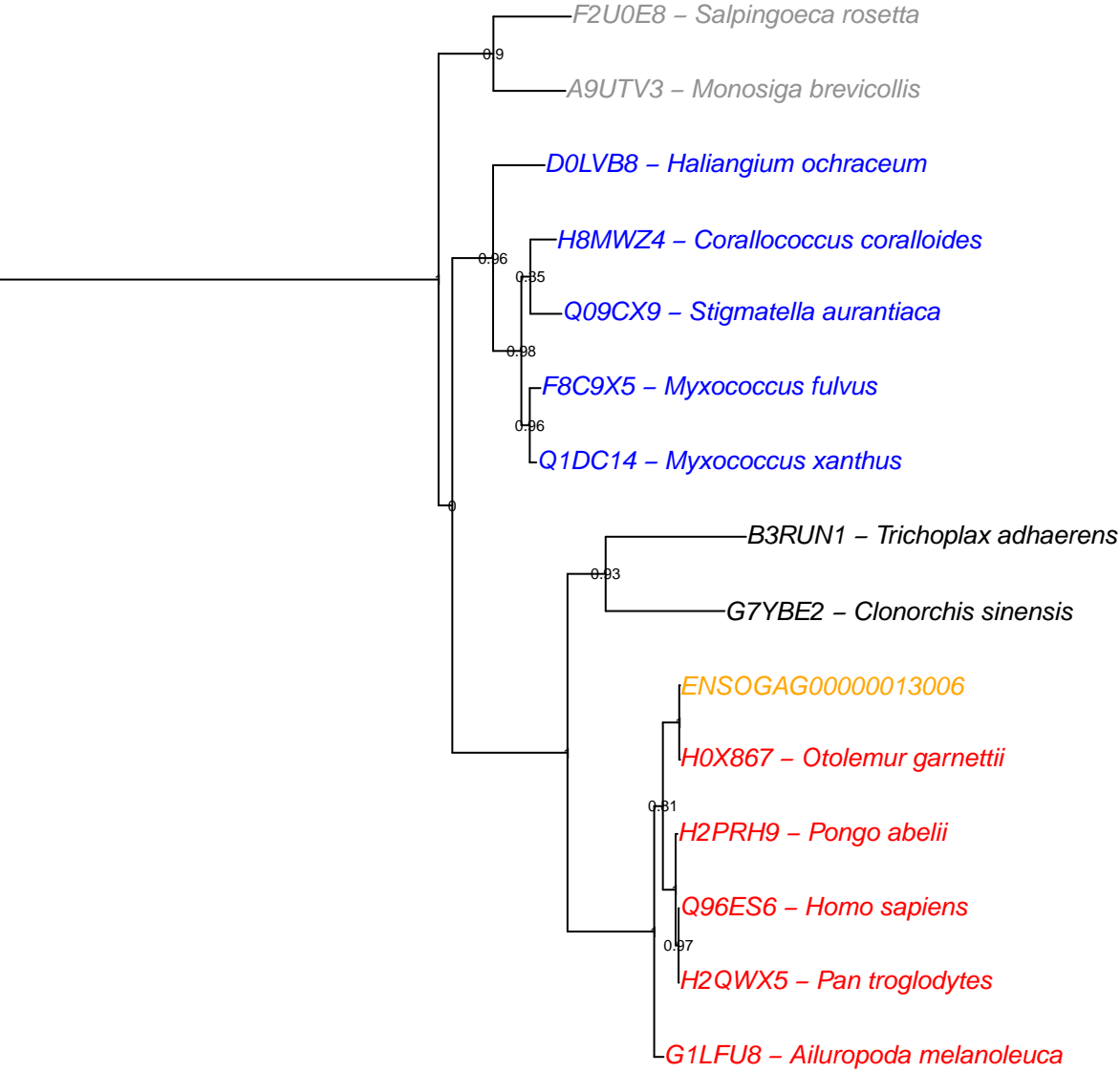


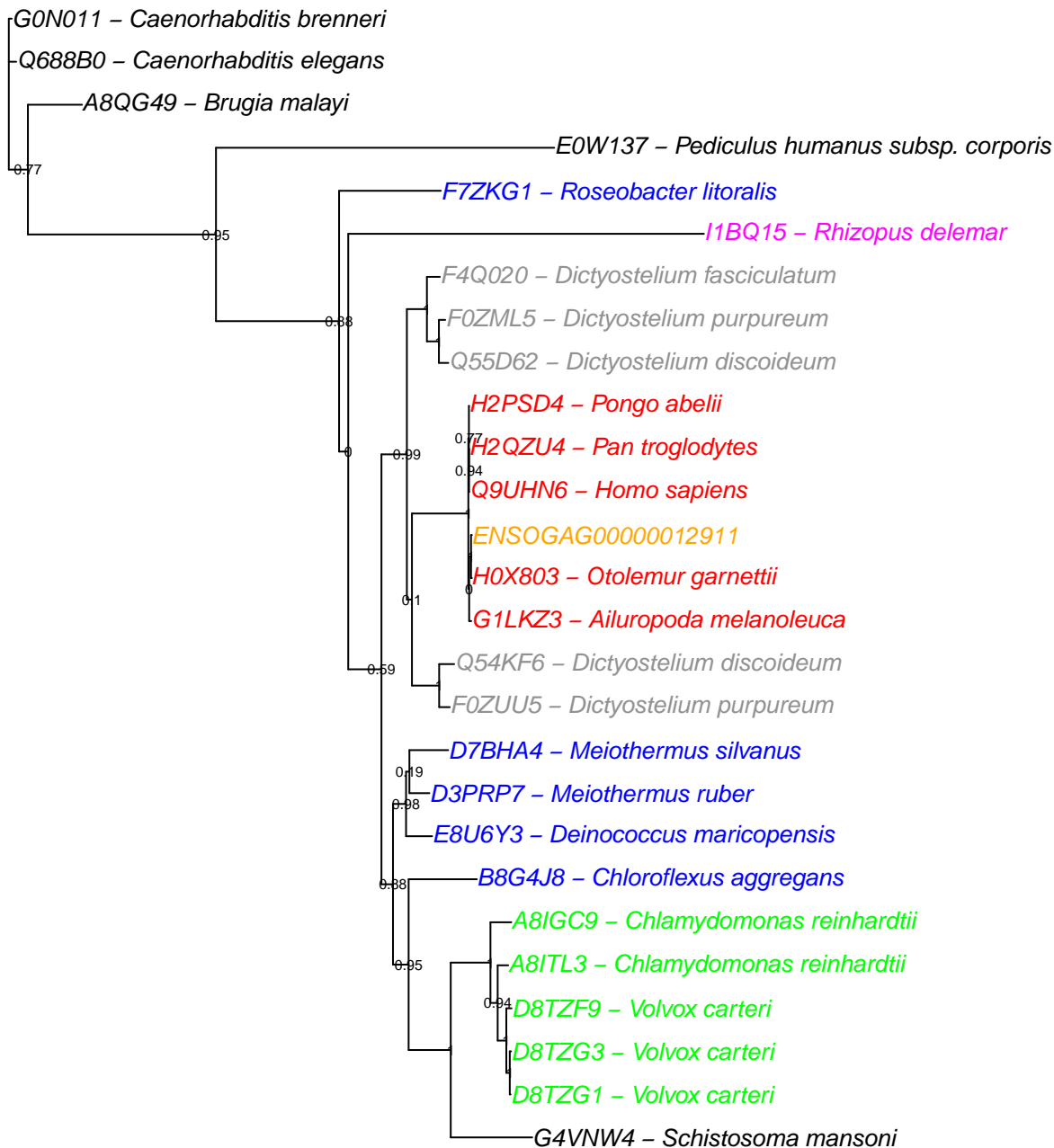




C4R336 – *Komagataella pastoris*

F2QQP4 – *Komagataella pastoris*





ENSOGAG00000012795

H0X7R1 – *Otolemur garnettii*

F6X6V3 – *Callithrix jacchus*

G7PM41 – *Macaca fascicularis*

F7H0X8 – *Macaca mulatta*

G1S4D3 – *Nomascus leucogenys*

D3B158 – *Polysphondylium pallidum*

F4NW88 – *Batrachochytrium dendrobatidis*

Q6C7S1 – *Yarrowia lipolytica*

D5GD16 – *Tuber melanosporum*

F0ZC87 – *Dictyostelium purpureum*

B6GYZ4 – *Penicillium chrysogenum*

F9X957 – *Mycosphaerella graminicola*

I1NFU5 – *Glycine max*

B9SKT4 – *Ricinus communis*

C5XE71 – *Sorghum bicolor*

Q9ARU4 – *Oryza sativa subsp. japonica*

I1HBI2 – *Brachypodium distachyon*

E9CE03 – *Capsaspora owczarzaki*

H3FCJ8 – *Pristionchus pacificus*

H9J087 – *Bombyx mori*

B5DLT3 – *Drosophila pseudoobscura pseudoobscura*

E9HAC5 – *Daphnia pulex*

E9GAJ7 – *Daphnia pulex*

F2UPM1 – *Salpingoeca rosetta*

F2USZ4 – *Salpingoeca rosetta*

F2USZ4 – *Salpingoeca rosetta*

Q7XA72 – *Arabidopsis thaliana*

D7LQS4 – *Arabidopsis lyrata subsp. lyrata*

D8TMA3 – *Volvox carteri*

G9NXP8 – *Hypocrea atroviridis*

C0NGP7 – *Ajellomyces capsulatus*

B6Q3D6 – *Penicillium marneffe*

E9CDD1 – *Capsaspora owczarzaki*

D3B158 – *Polysphondylium pallidum*

F0ZHI7 – *Dictyostelium purpureum*

F0ZC87 – *Dictyostelium purpureum*

D3BL73 – *Polysphondylium pallidum*

ENSOGAG00000012791

H0X7Q8 – *Otolemur garnettii*

F6WK95 – *Callithrix jacchus*

G3RRC4 – *Gorilla gorilla gorilla*

G3QEB9 – *Gorilla gorilla gorilla*

Q9H222 – *Homo sapiens*

E9HF45 – *Daphnia pulex*

B4JYA7 – *Drosophila grimshawi*

B4NI47 – *Drosophila willistoni*

B3LX06 – *Drosophila ananassae*

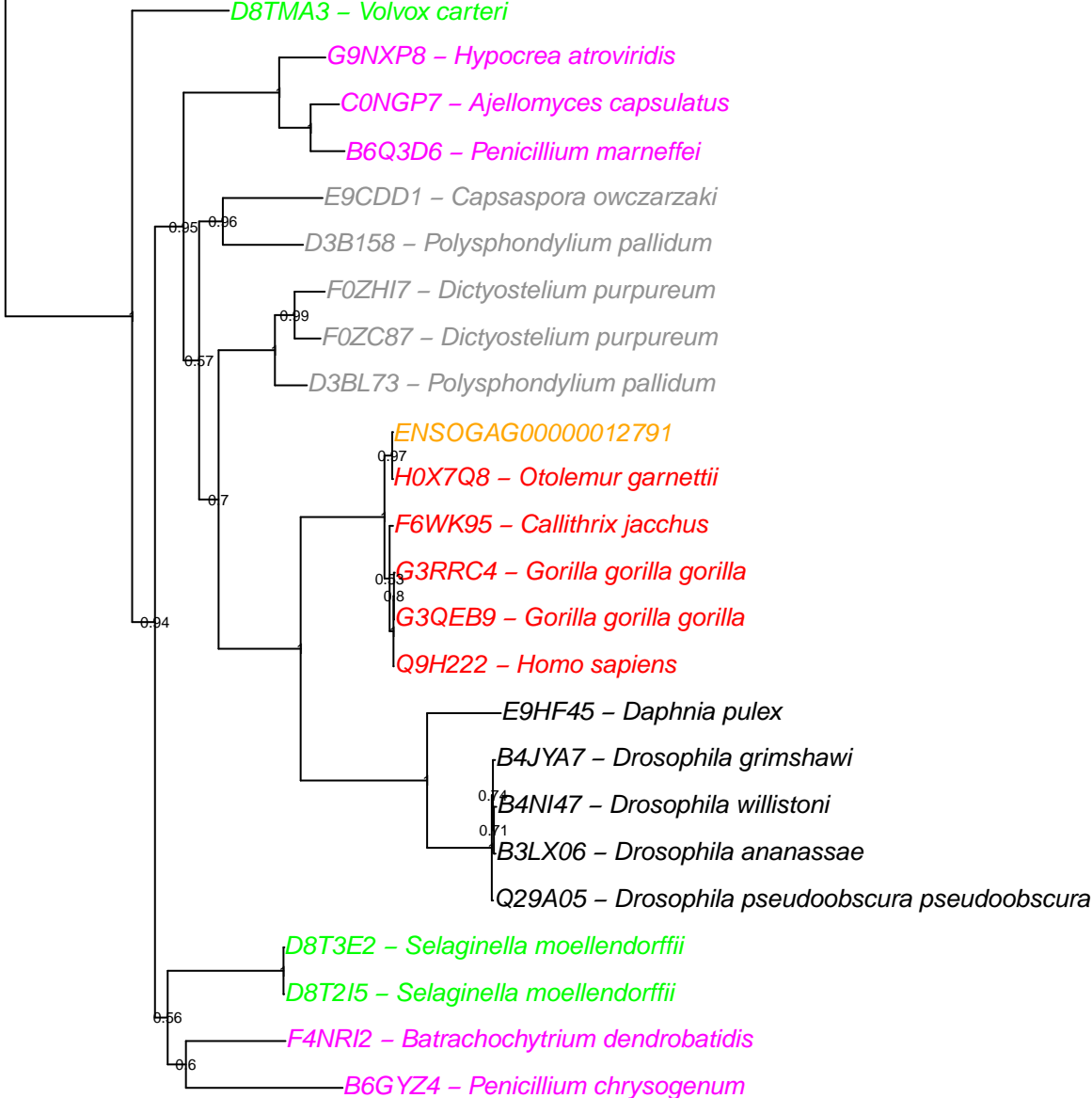
Q29A05 – *Drosophila pseudoobscura pseudoobscura*

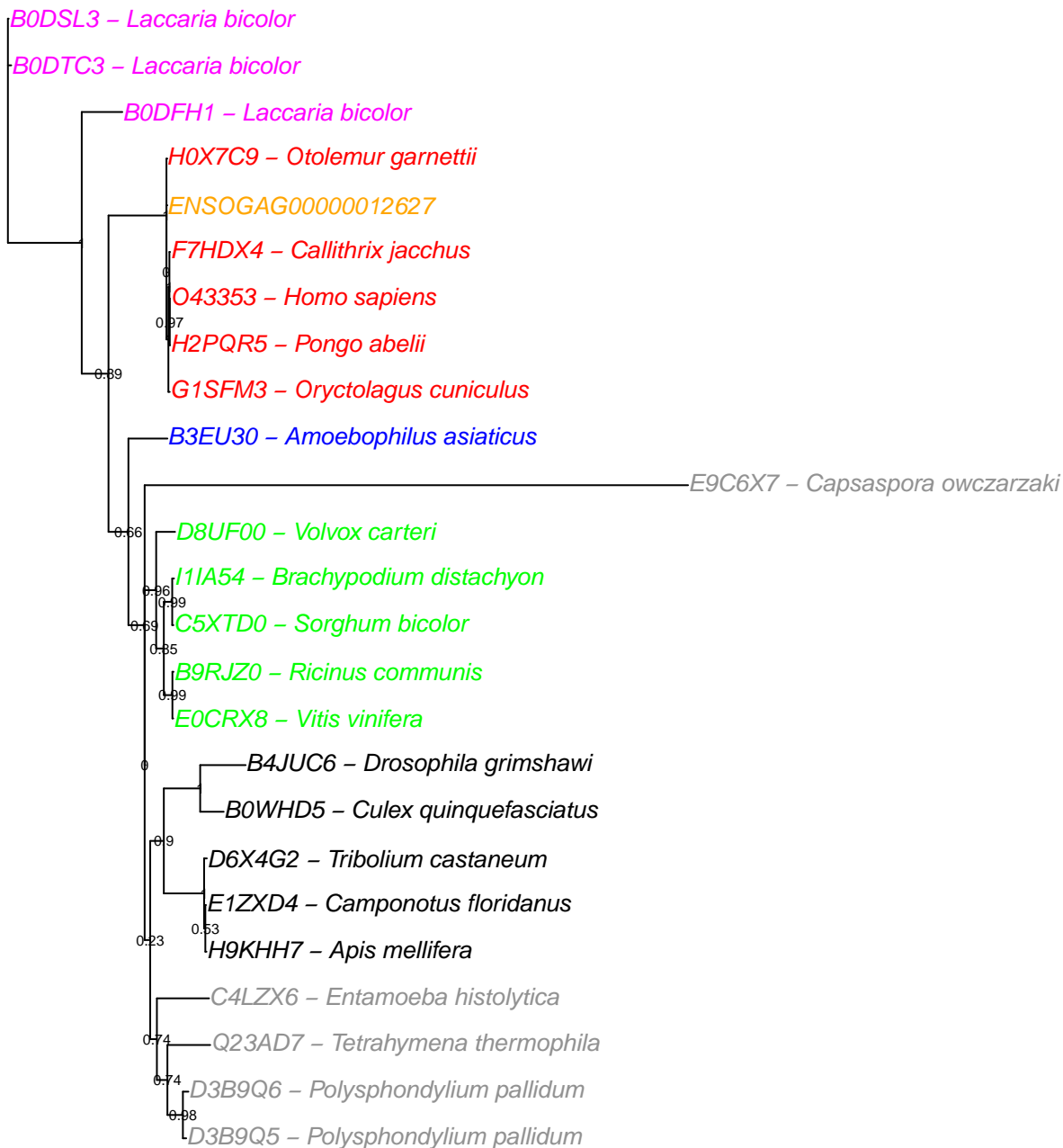
D8T3E2 – *Selaginella moellendorffii*

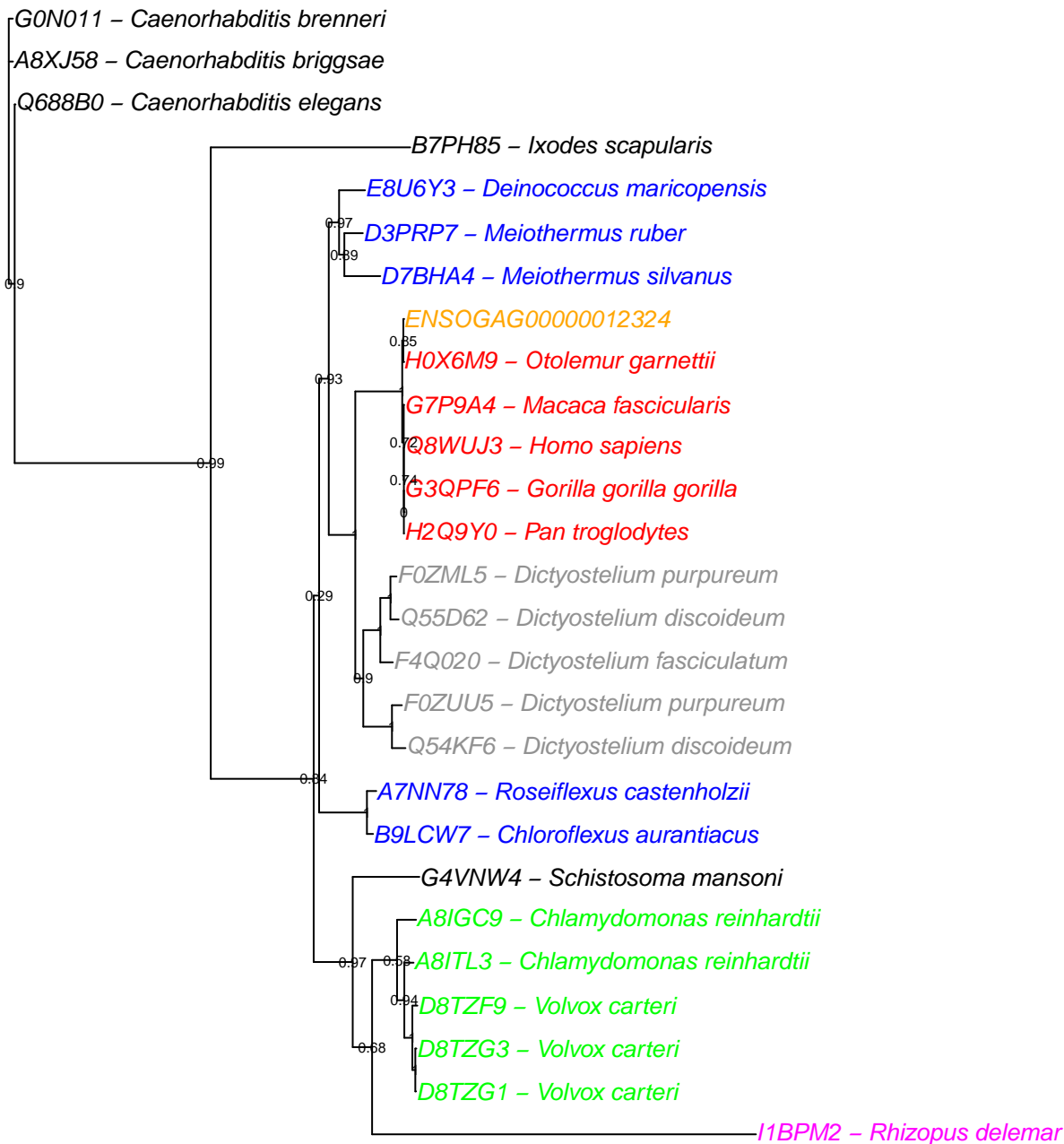
D8T2I5 – *Selaginella moellendorffii*

F4NRI2 – *Batrachochytrium dendrobatidis*

B6GYZ4 – *Penicillium chrysogenum*







E9G6Z0 – *Daphnia pulex*

-E3NT17 – *Caenorhabditis remanei*

-G6CYK7 – *Danaus plexippus*

—E0VIQ7 – *Pediculus humanus subsp. corporis*

-F4PQY1 – *Dictyostelium fasciculatum*

D3BE74 – *Polysphondylium pallidum*

F1A3A3 – Dictyostelium purpureum

Q551W4 – *Dictyostelium discoideum*

—Q8SSN6 – *Dictyostelium discoideum*

ENSOGAG00000012254

H0X6I0 – *Otolemur garnettii*

G7Q0M7 – *Macaca fascicularis*

G1RP81 – *Nomascus leucogenys*

0.84 Q08AH3 – *Homo sapiens*

H2RAB8 – Pan troglodytes

-H6CBI8 – *Exophiala dermatitidis*

—F9XEE2 – *Mycosphaerella graminicola*

C1H2I0 – *Paracoccidioides lutzii*

C1GB26 – *Paracoccidioides brasiliensis*

-C5PFZ2 – *Coccidioides posadasii*

-B8GK70 – *Methanosphaerula palustris*

—E1RKJ4 – *Methanoplanus petrolearius*

—A3CUY4 – *Methanoculleus marisnigri*

9 Q2FLQ3 – *Methanospirillum hungatei* JF-1

A3CUN2 – *Methanoculleus marisnigri*

- *B8FFM3 – Desulfatibacillum alkenivorans*

B0TAL5 – Heliobacterium modesticaldum

6CJJ0 – *Desulfotomaculum kuznetsovii*

F6B5W2 – Desulfotomaculum carboxydivorans

-Q3AEK4 – *Carboxydotherrnus hydrogenoformans*

A2RH17 – *Streptococcus pyogenes* serotype M5

Q5X9A9 – *Streptococcus pyogenes* serotype M6

E4SPX6 – *Streptococcus thermophilus*

Q03MS9 – *Streptococcus thermophilus*

ENSOGAG00000011778

H0X5H7 – *Otolemur garnettii*

G7PCR1 – *Macaca fascicularis*

G1QZB2 – *Nomascus leucogenys*

H2QWN3 – *Pan troglodytes*

F7H1Z7 – *Callithrix jacchus*

I1C447 – *Rhizopus delemar*

F9FZM0 – *Fusarium oxysporum*

B8PCC4 – *Postia placenta*

B8PKM3 – *Postia placenta*

A9KK06 – *Clostridium phytofermentans*

F4G0D4 – *Metallosphaera cuprina*

A4YDN3 – *Metallosphaera sedula*

Q4JCD1 – *Sulfolobus acidocaldarius*

E4NTD4 – *Halogeometricum borinquense*

D3SVK8 – *Natrialba magadii*

D8LPB5 – *Ectocarpus siliculosus*

B5YNX7 – *Thalassiosira pseudonana*

B8C4Q2 – *Thalassiosira pseudonana*

B0EFN1 – *Entamoeba dispar*

A8PV21 – *Brugia malayi*

H3FIF0 – *Pristionchus pacificus*

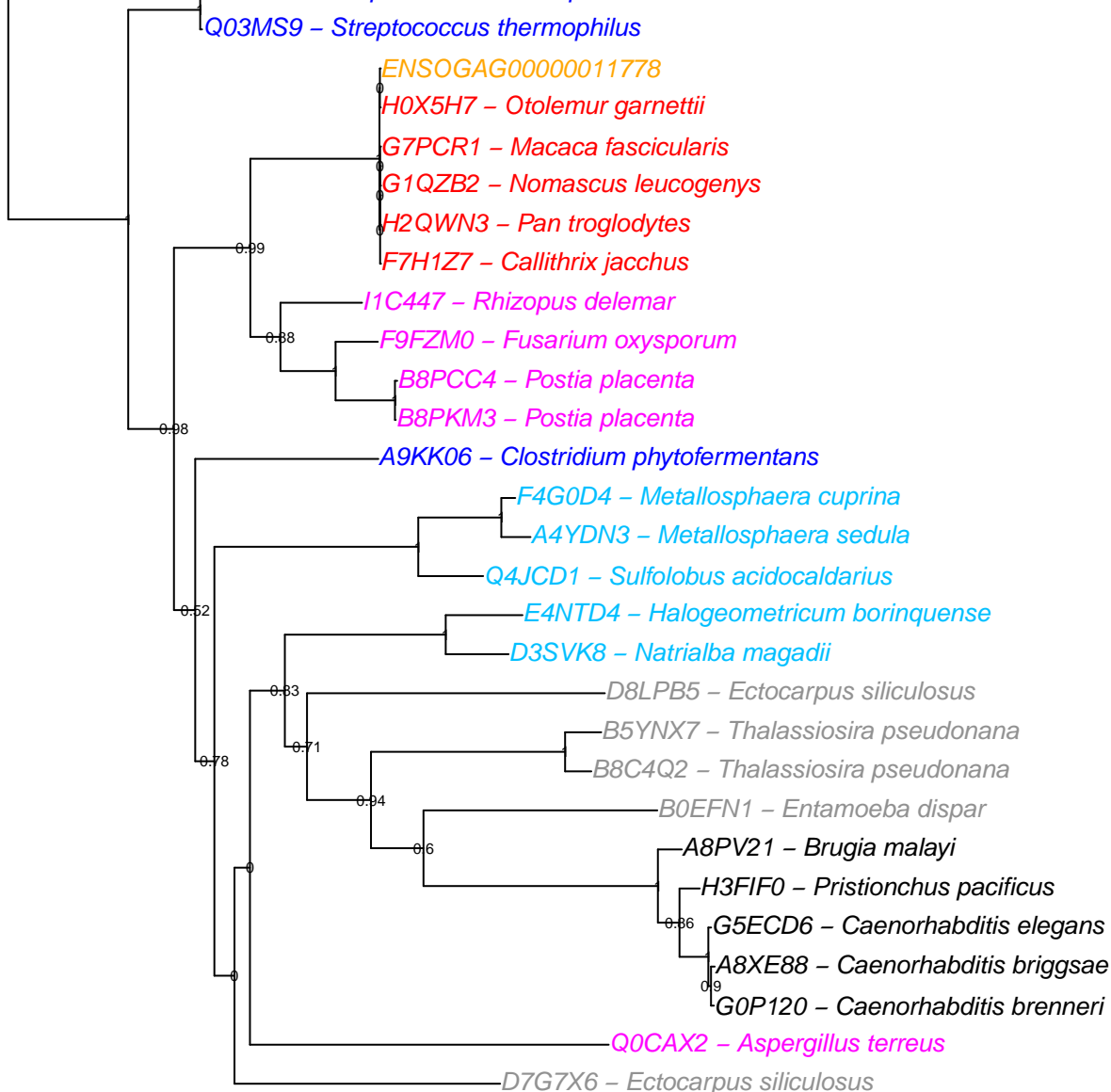
G5ECD6 – *Caenorhabditis elegans*

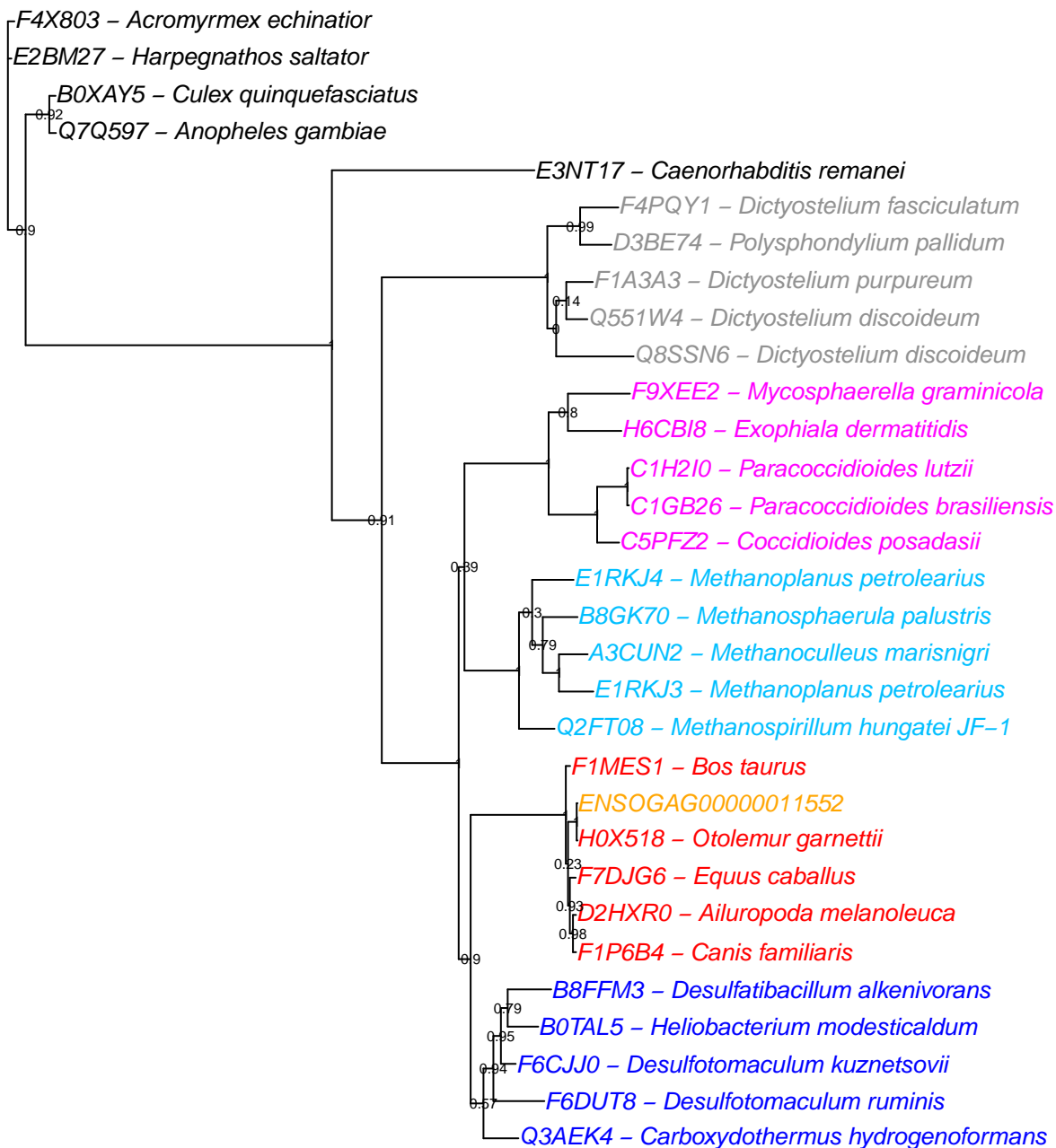
A8XE88 – *Caenorhabditis briggsae*

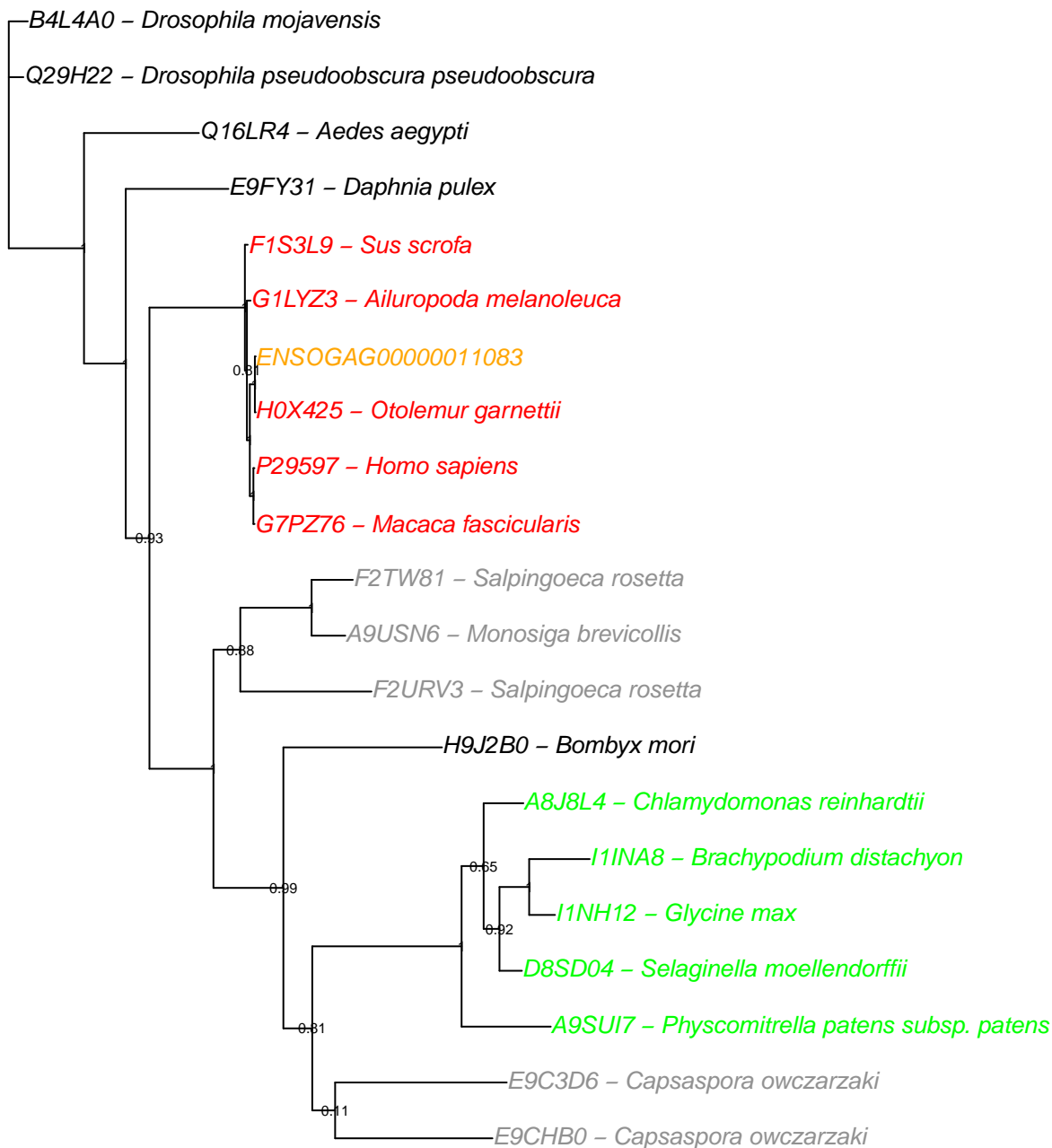
G0P120 – *Caenorhabditis brenneri*

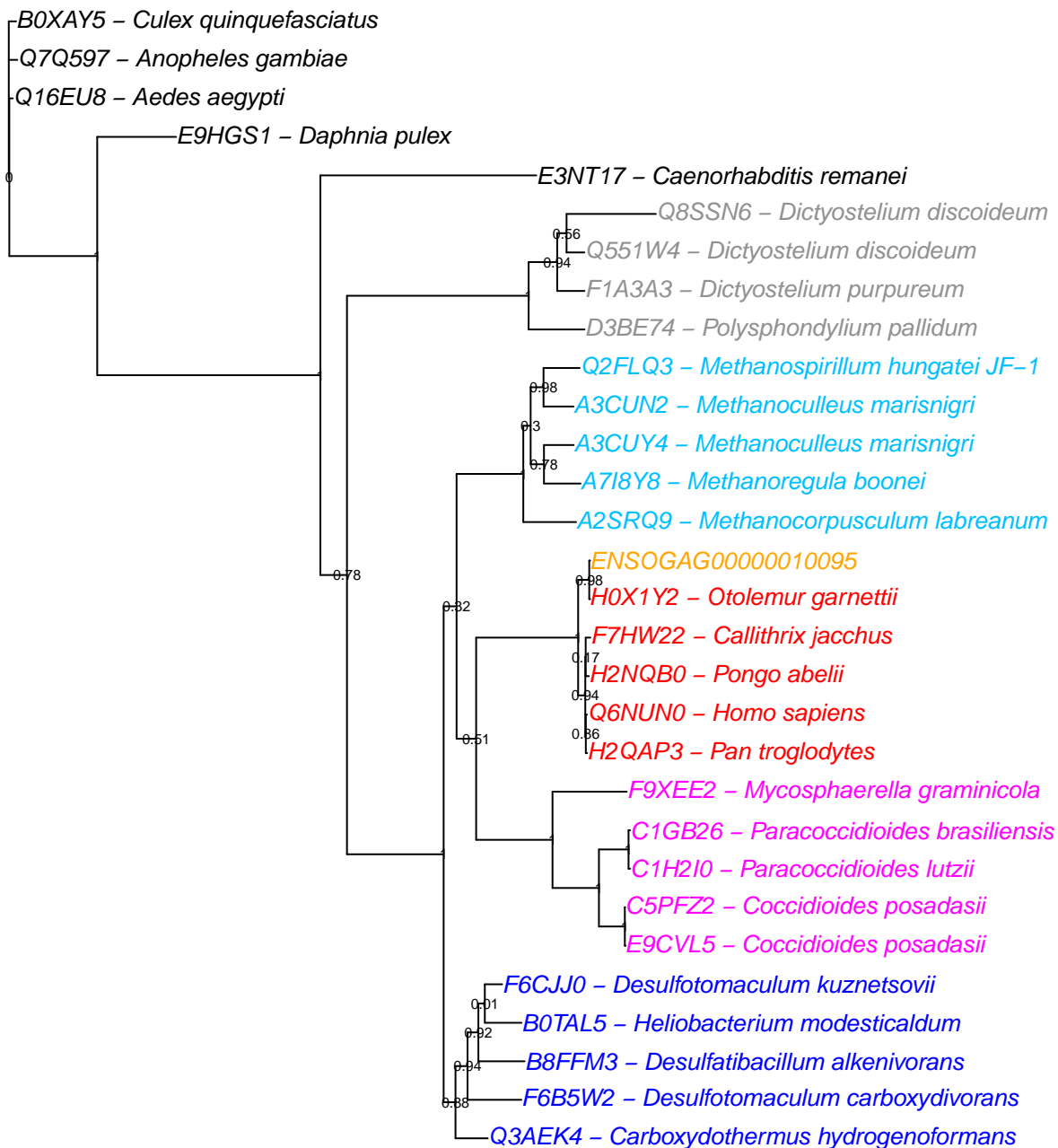
Q0CAX2 – *Aspergillus terreus*

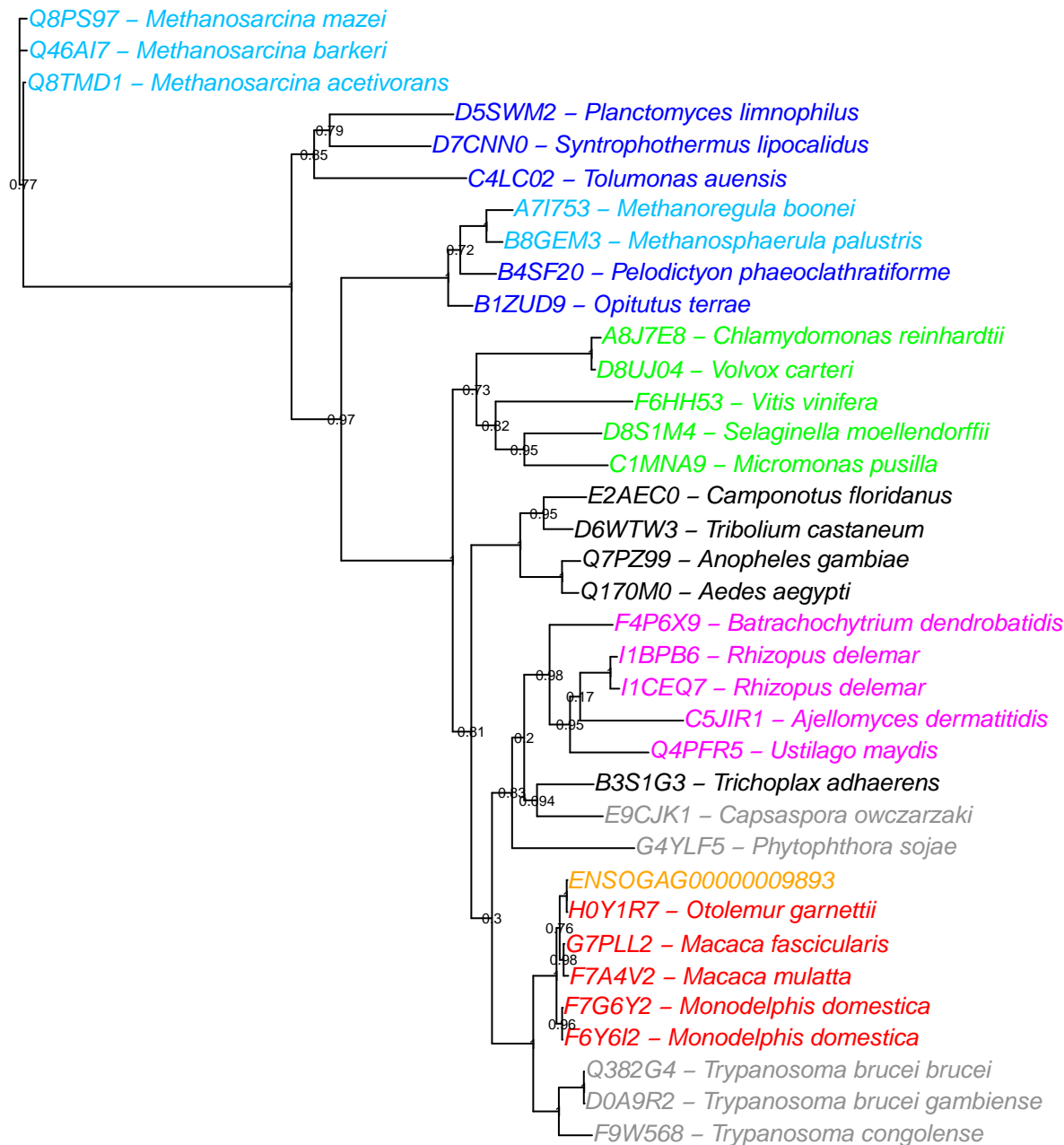
D7G7X6 – *Ectocarpus siliculosus*

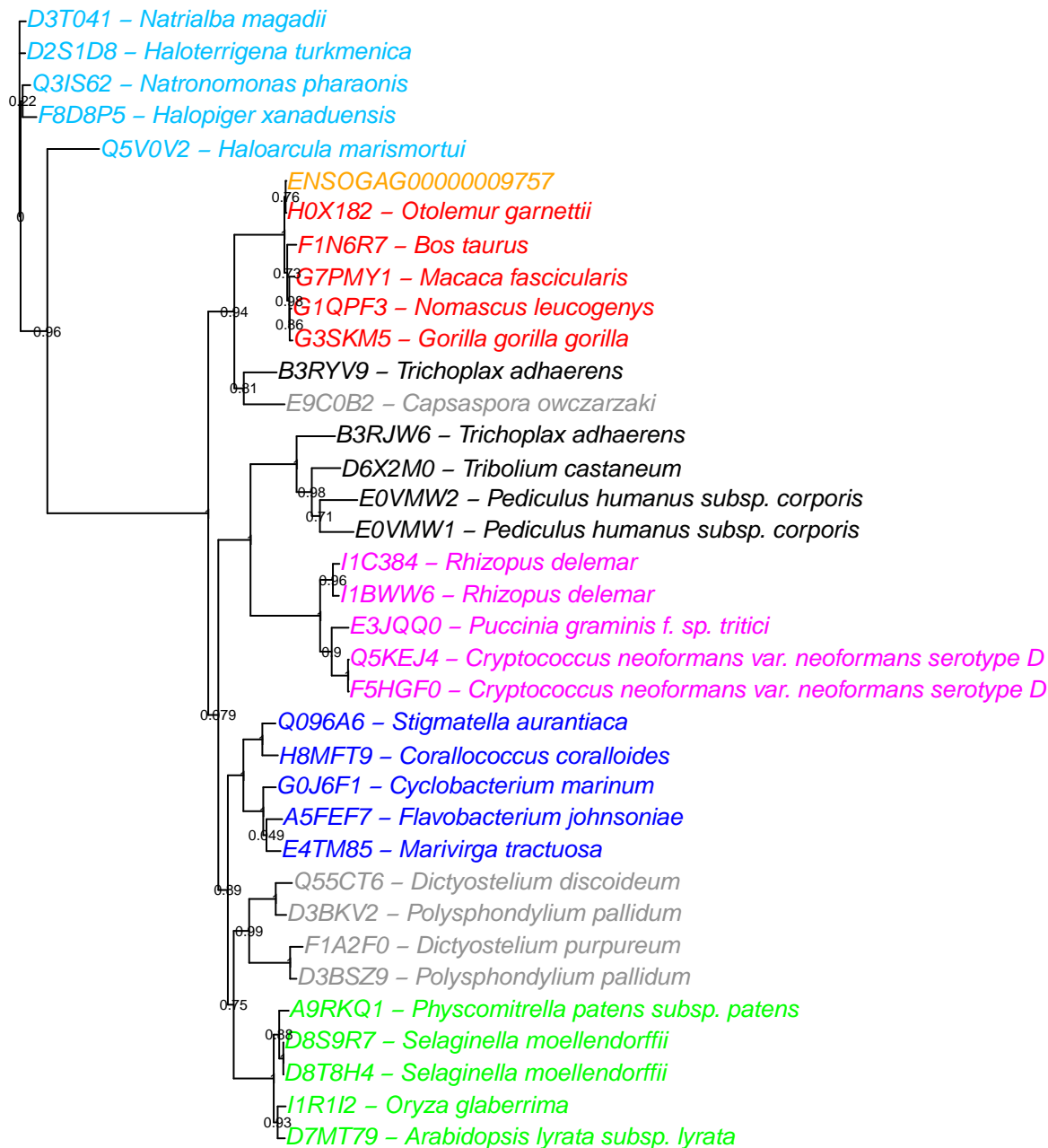


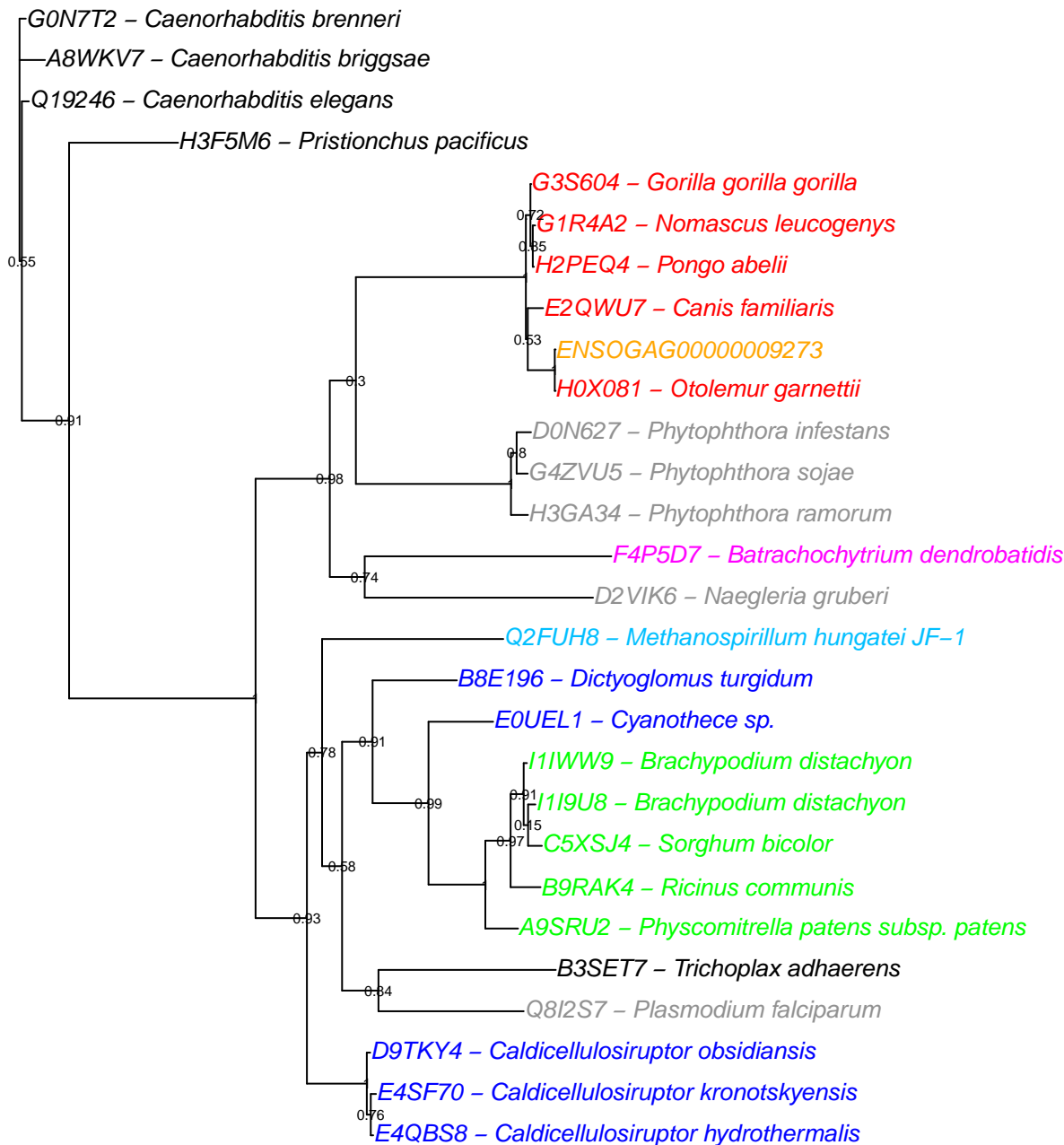


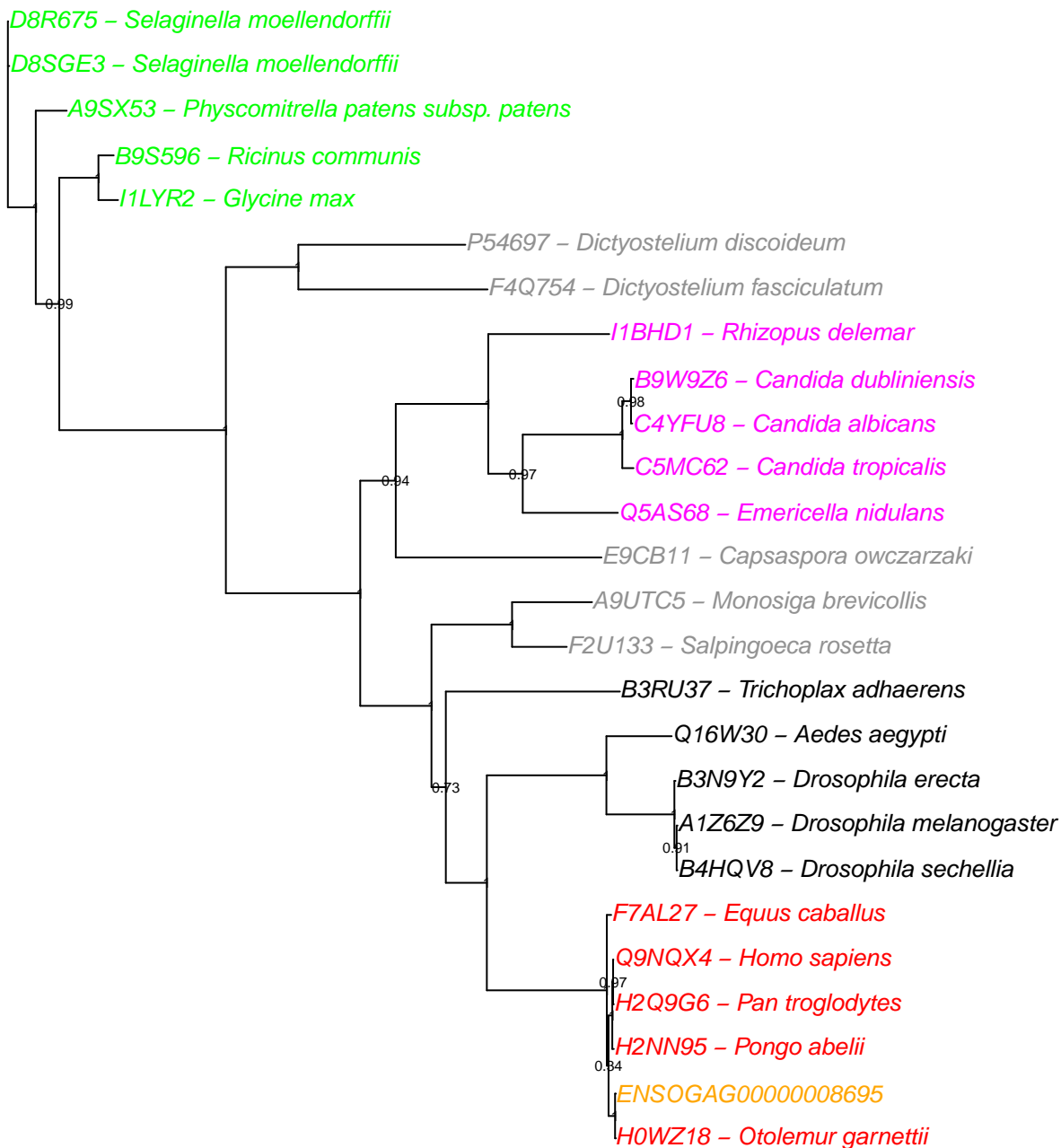












E1TIK2 – *Burkholderia* sp.

B2T943 – *Burkholderia phytofirmans*

Q46P27 – *Cupriavidus pinatubonensis*

Q7W424 – *Bordetella parapertussis*

Q5LVA2 – *Ruegeria pomeroyi*

E6ZPZ4 – *Sporisorium reilianum*

Q4P5X9 – *Ustilago maydis*

C0NZ33 – *Ajellomyces capsulatus*

C1G018 – *Paracoccidioides brasiliensis*

A1CUI6 – *Aspergillus clavatus*

D8J5M9 – *Halalkalicoccus jeotgali*

D3STT8 – *Natrialba magadii*

D2RQH7 – *Haloterrigena turkmenica*

D4GP88 – *Haloferax volcanii*

D8J5N0 – *Halalkalicoccus jeotgali*

F0XZB7 – *Aureococcus anophagefferens*

F6PQA7 – *Equus caballus*

ENSOGAG00000008325

H0WY82 – *Otolemur garnettii*

Q6UWY0 – *Homo sapiens*

G3QSM2 – *Gorilla gorilla gorilla*

F7GPX9 – *Callithrix jacchus*

F0YQG0 – *Aureococcus anophagefferens*

F0YQ66 – *Aureococcus anophagefferens*

A9V439 – *Monosiga brevicollis*

A9VDQ3 – *Monosiga brevicollis*

H9JTU0 – *Bombyx mori*

G6CHL1 – *Danaus plexippus*

B4GCV2 – *Drosophila persimilis*

B5E066 – *Drosophila pseudoobscura pseudoobscura*

B4MIX0 – *Drosophila willistoni*

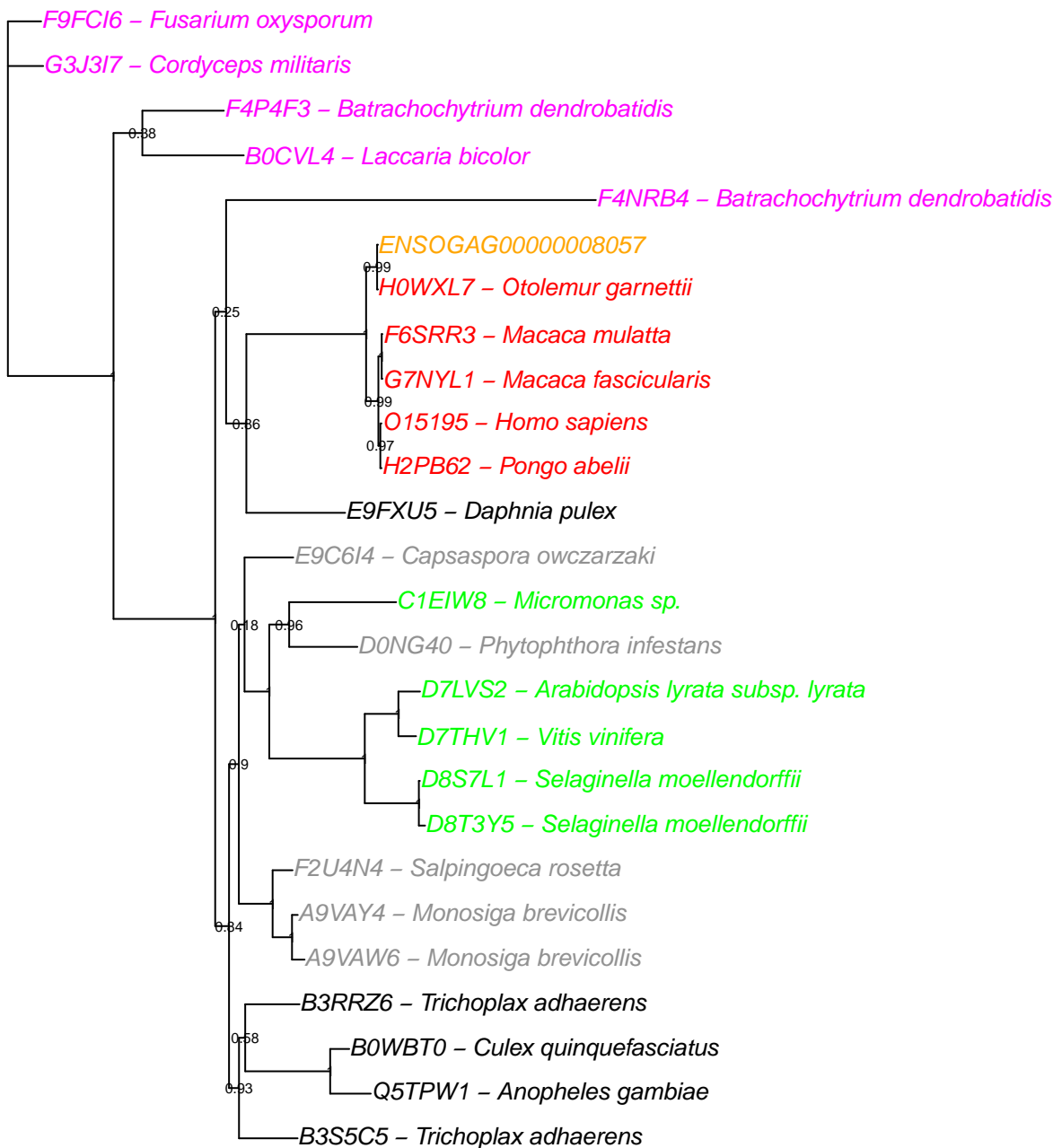
D8TJI2 – *Volvox carteri*

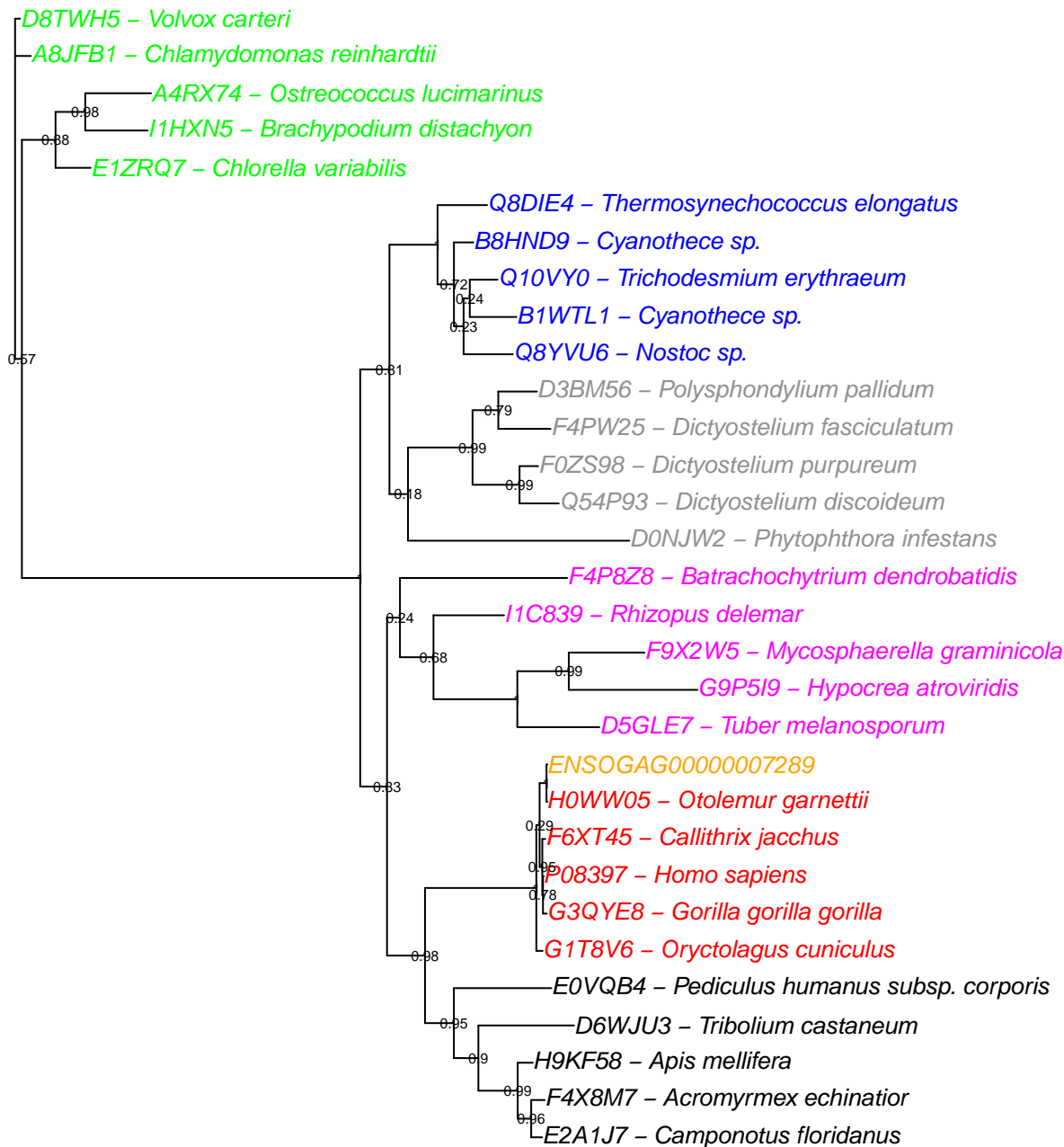
D8TSH9 – *Volvox carteri*

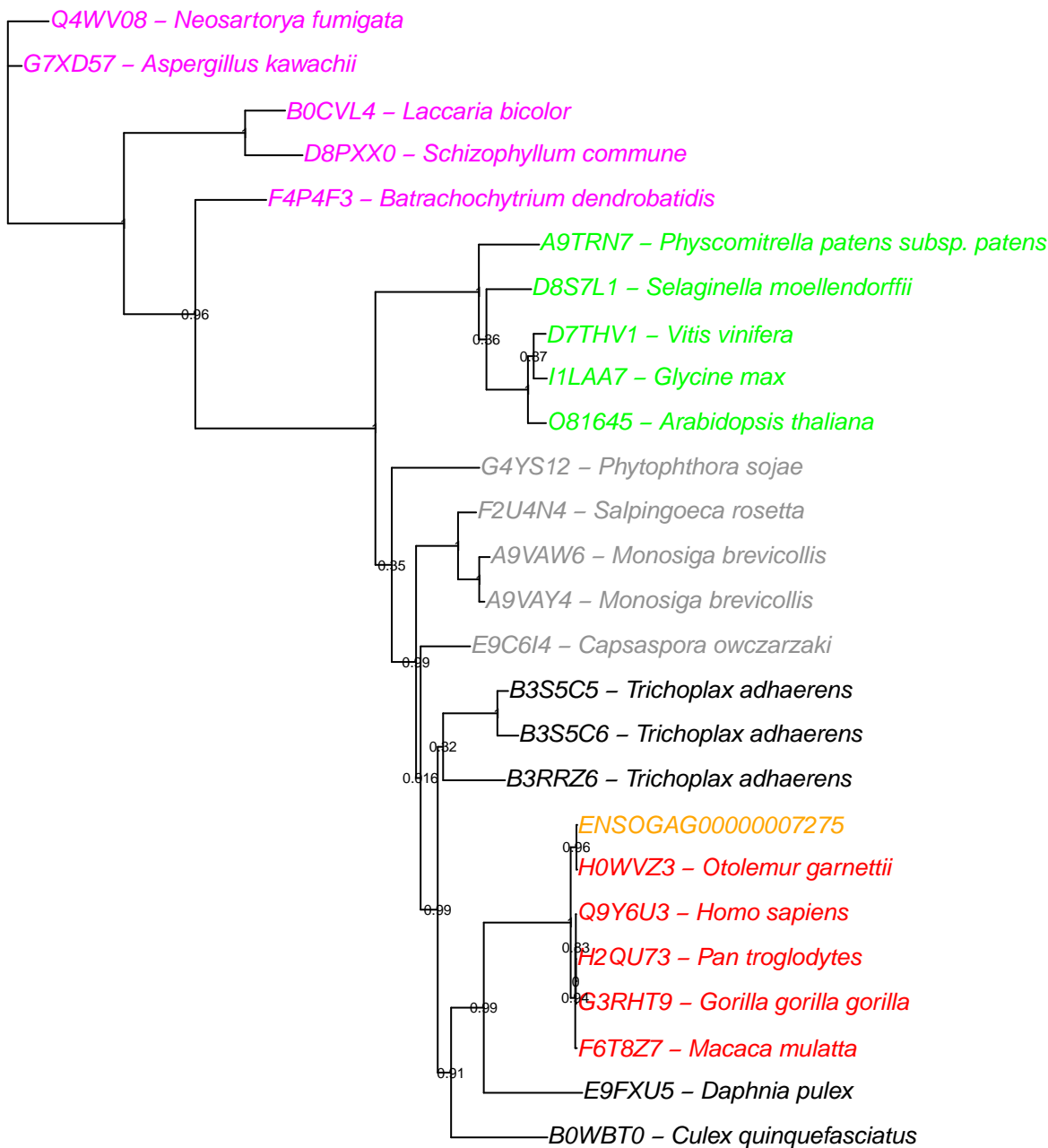
A8ISJ6 – *Chlamydomonas reinhardtii*

Q9ATG5 – *Chlamydomonas reinhardtii*

D8TXL4 – *Volvox carteri*







F7UK63 – Synechocystis sp.

-E0U7S8 – *Cyanothece* sp.

G1QUG1 – *Nomascus leucogenys*

H2QNF2 – *Pan troglodytes*

0.93 G3QY08 – *Gorilla gorilla gorilla*

ENSOGAG00000007095

HOWVLO – *Otolemur garnettii*

G7NXY0 – *Macaca fascicularis*

B4PA45 – Drosophila yakuba

B4HQ97 – *Drosophila sechellia*

B3NJR0 – *Drosophila erecta*

Q28ZN9 – *Drosophila pseudoobscura pseudoobscura*

B4GH04 – *Drosophila persimilis*

-G7WKC5 – *Methanosaeta harundinacea*

-D2VBP8 – *Naegleria gruberi*

-D2VC27 – *Naegleria gruberi*

-D2VWR8 – *Naegleria gruberi*

-F2IIT1 – *Fluviicola taffensis*

– *B0D0L7* – *Laccaria bicolor*

-A8N6Y7 – *Coprinopsis cinerea*

-D8QC52 – *Schizophyllum commune*

-G1XKA8 – *Arthrobotrys oligospora*

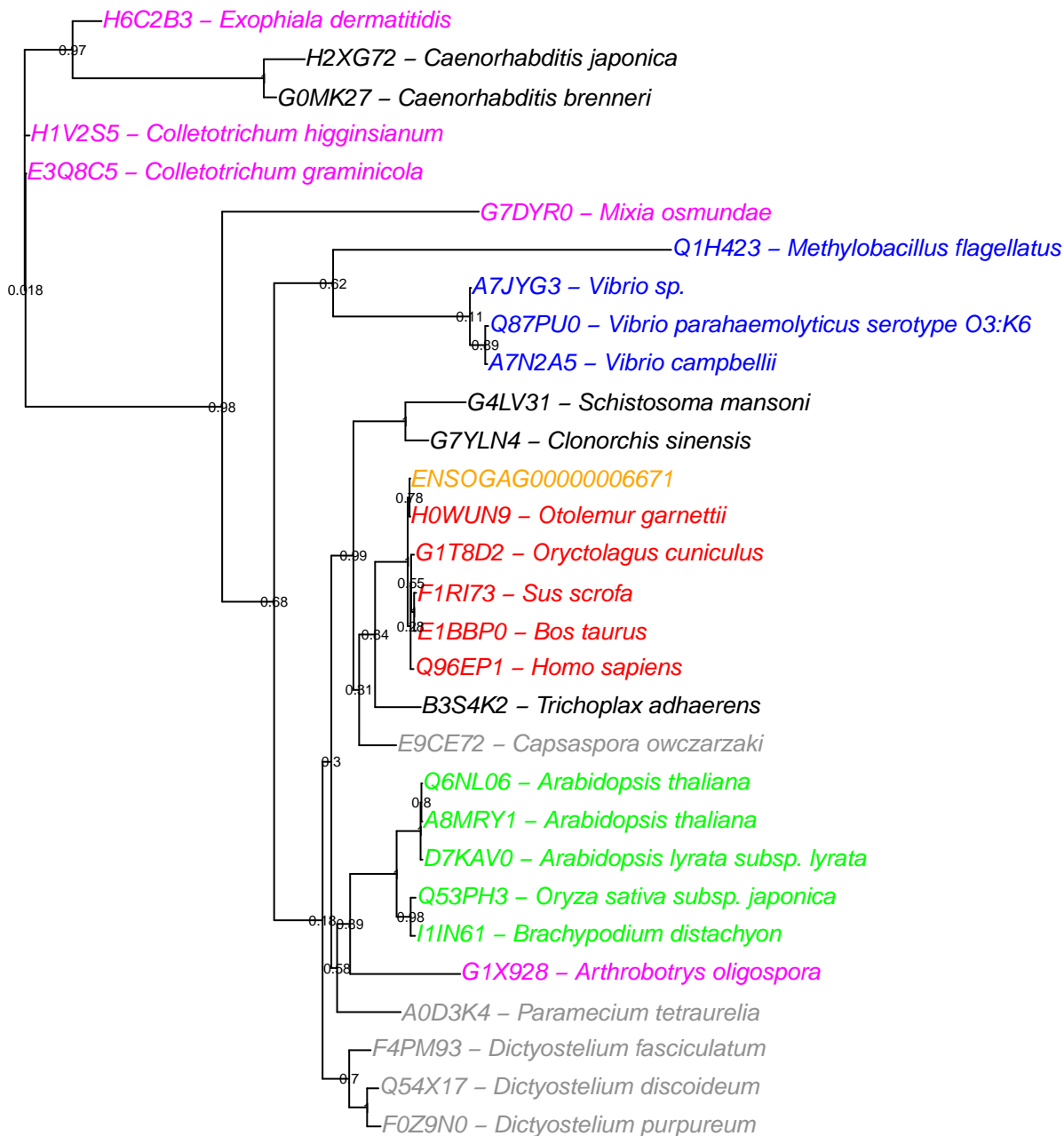
-D5GJR6 – *Tuber melanosporum*

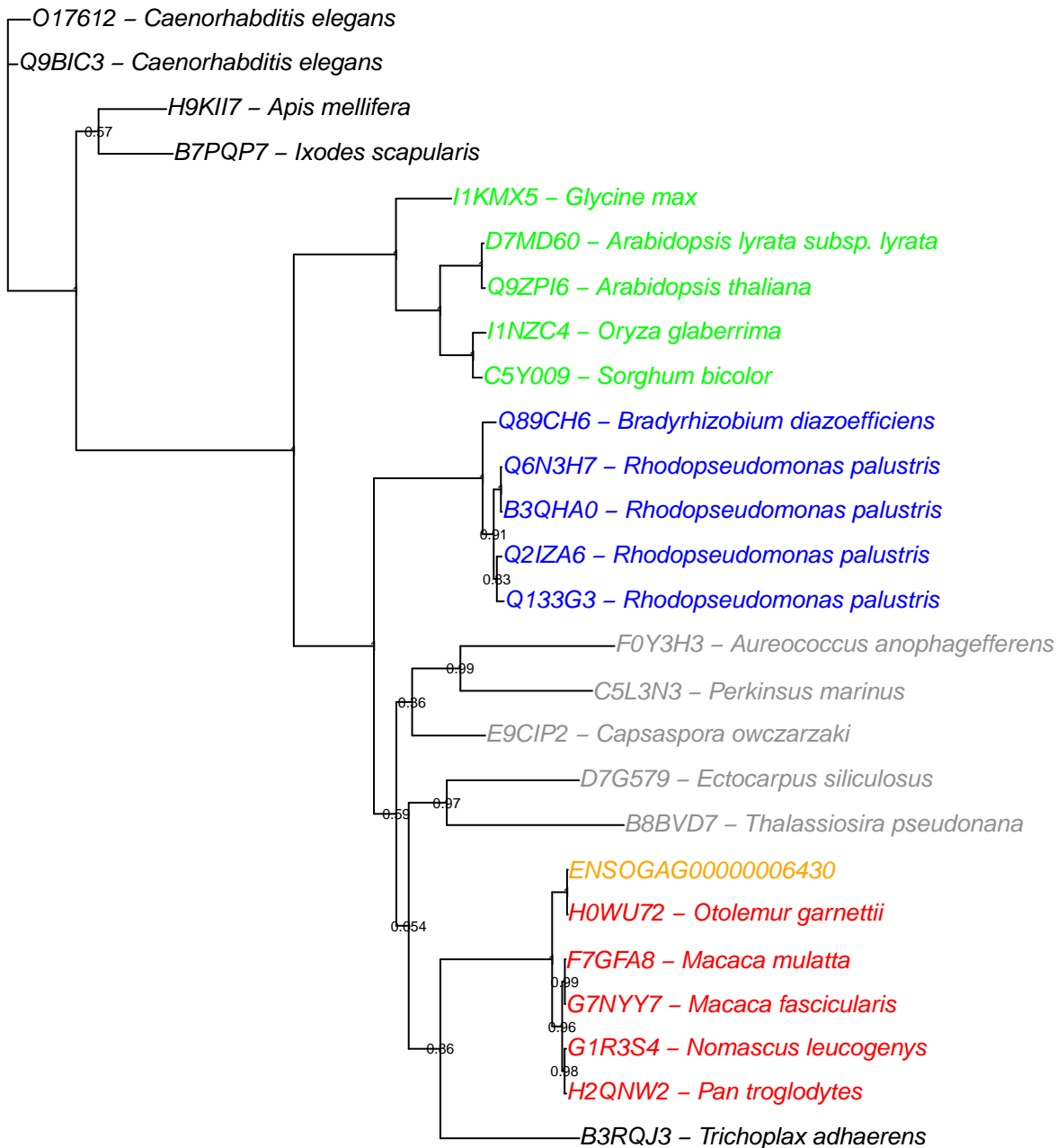
-F0Y127 – *Aureococcus anophagefferens*

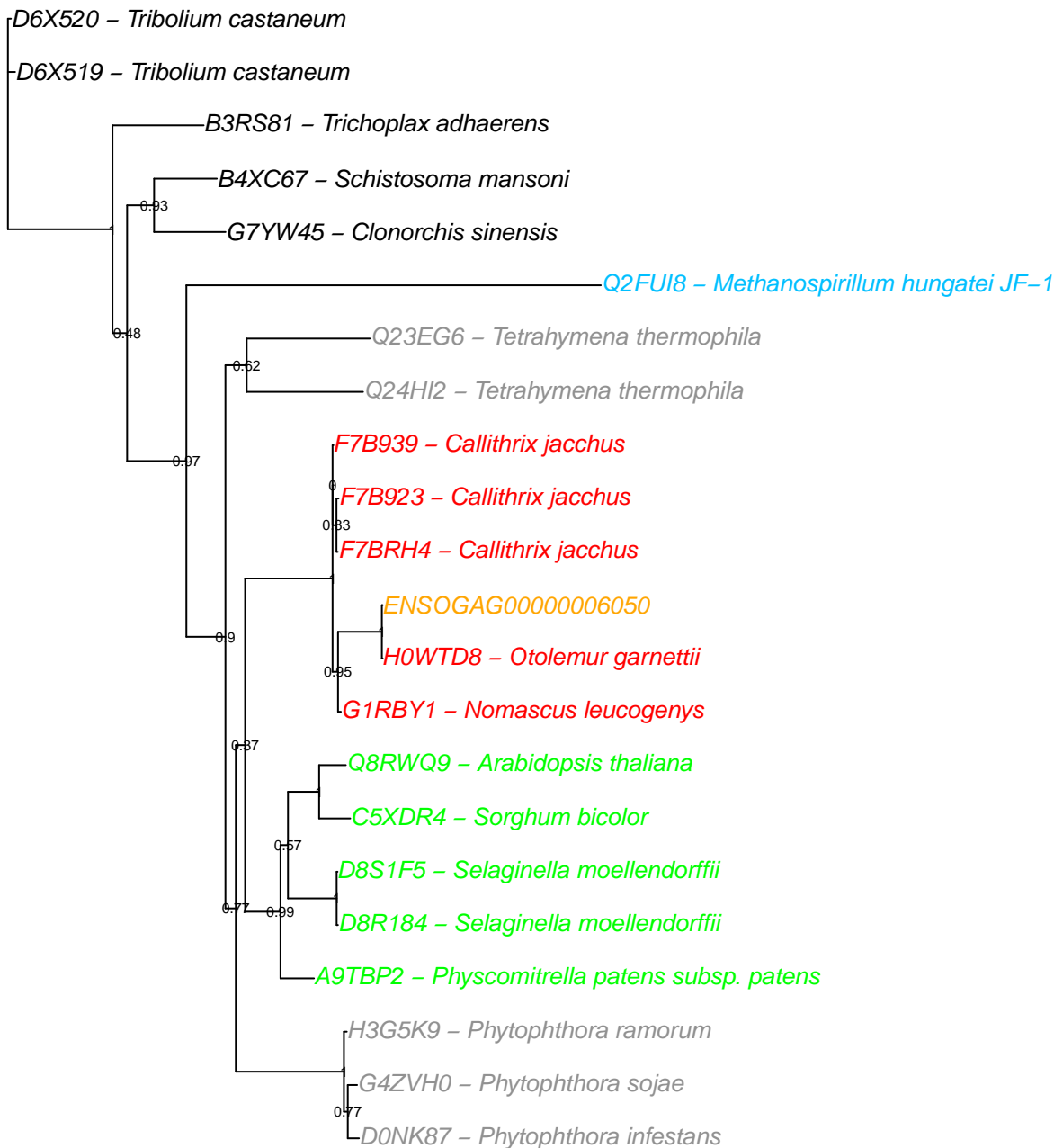
-A5FH24 – *Flavobacterium johnsoniae*

-A8BLL1 – *Giardia intestinalis*

-D8TTE1 – *Volvox carteri*







ENSOGAG00000005493

H0WS66 – *Otolemur garnettii*

H2QW33 – *Pan troglodytes*

0.99
P00750 – *Homo sapiens*

F6TUX3 – *Callithrix jacchus*

F6UNX7 – *Equus caballus*

0.83

E9HKD1 – *Daphnia pulex*

E2BDT9 – *Harpegnathos saltator*

0.91

H9KC43 – *Apis mellifera*

0.92

F4X2V2 – *Acromyrmex echinator*

G6D301 – *Danaus plexippus*

Q5BAR4 – *Emericella nidulans*

0.83

F2R7X7 – *Streptomyces venezuelae*

0.92

O69997 – *Streptomyces coelicolor*

0.98

E8W536 – *Streptomyces pratensis*

B8C5T8 – *Thalassiosira pseudonana*

0.29

E1ZM81 – *Chlorella variabilis*

0.9

H0ESH2 – *Glarea lozoyensis*

0.92

G0R816 – *Hypocrea jecorina*

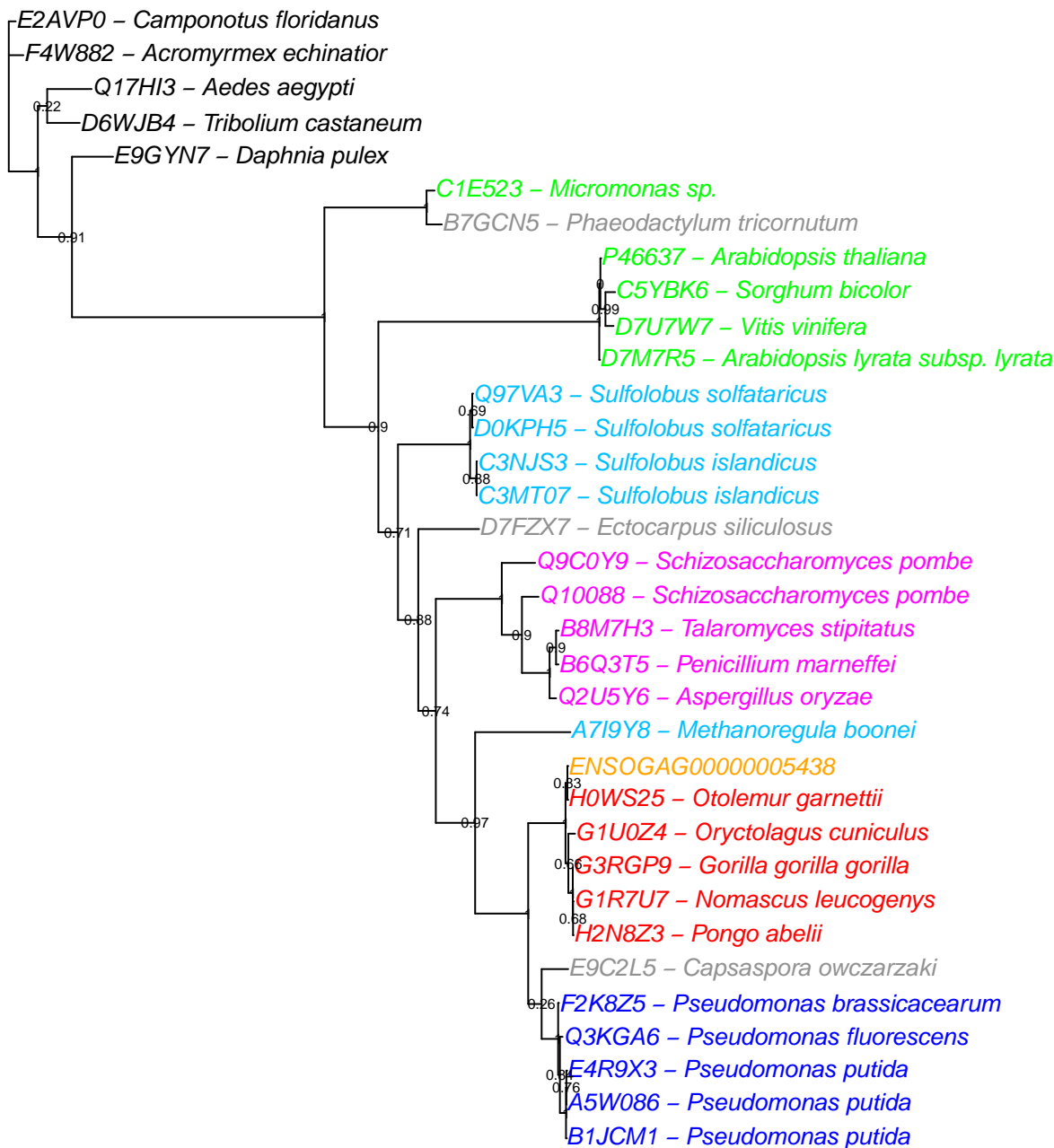
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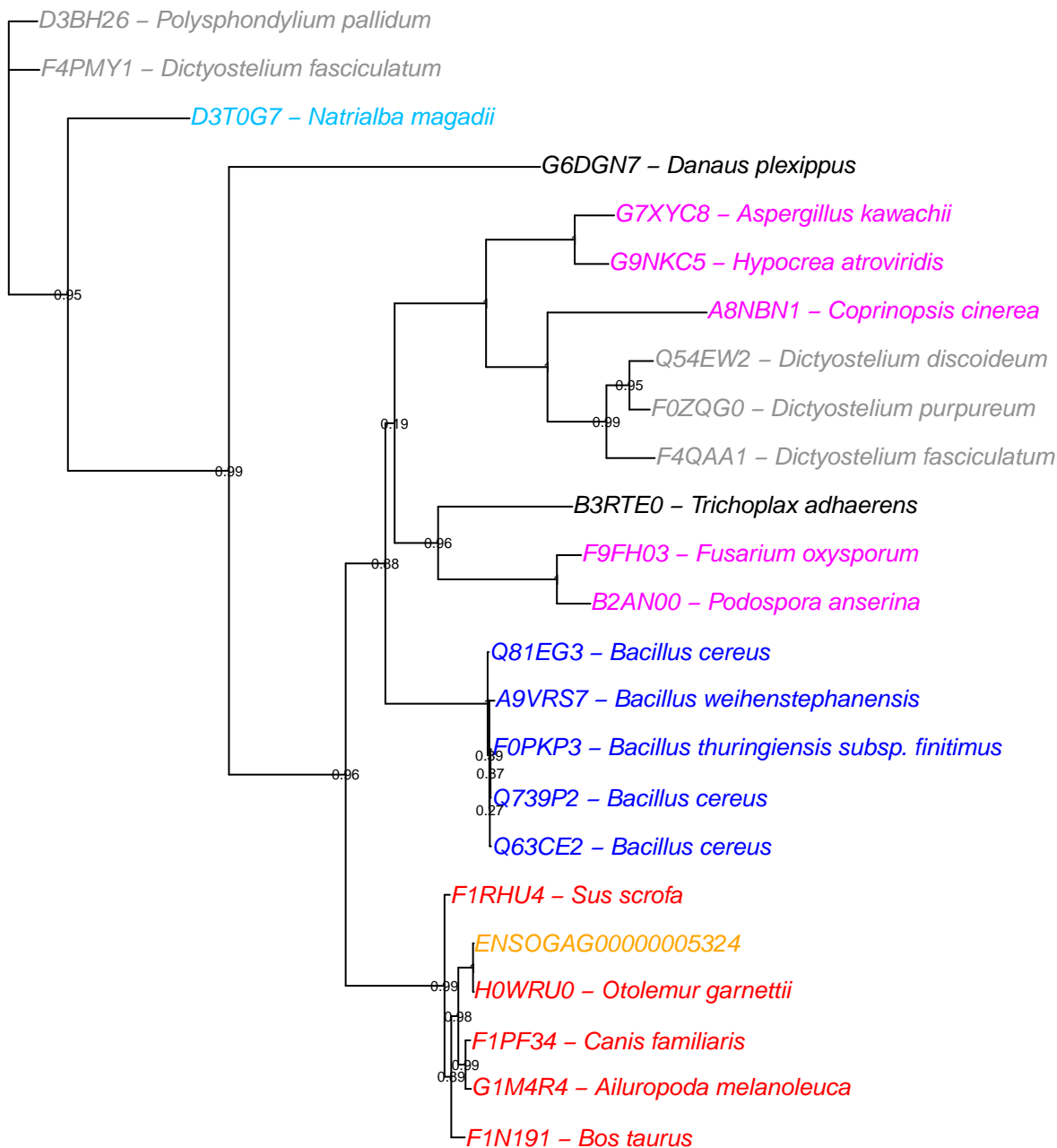
I1S303 – *Gibberella zeae*

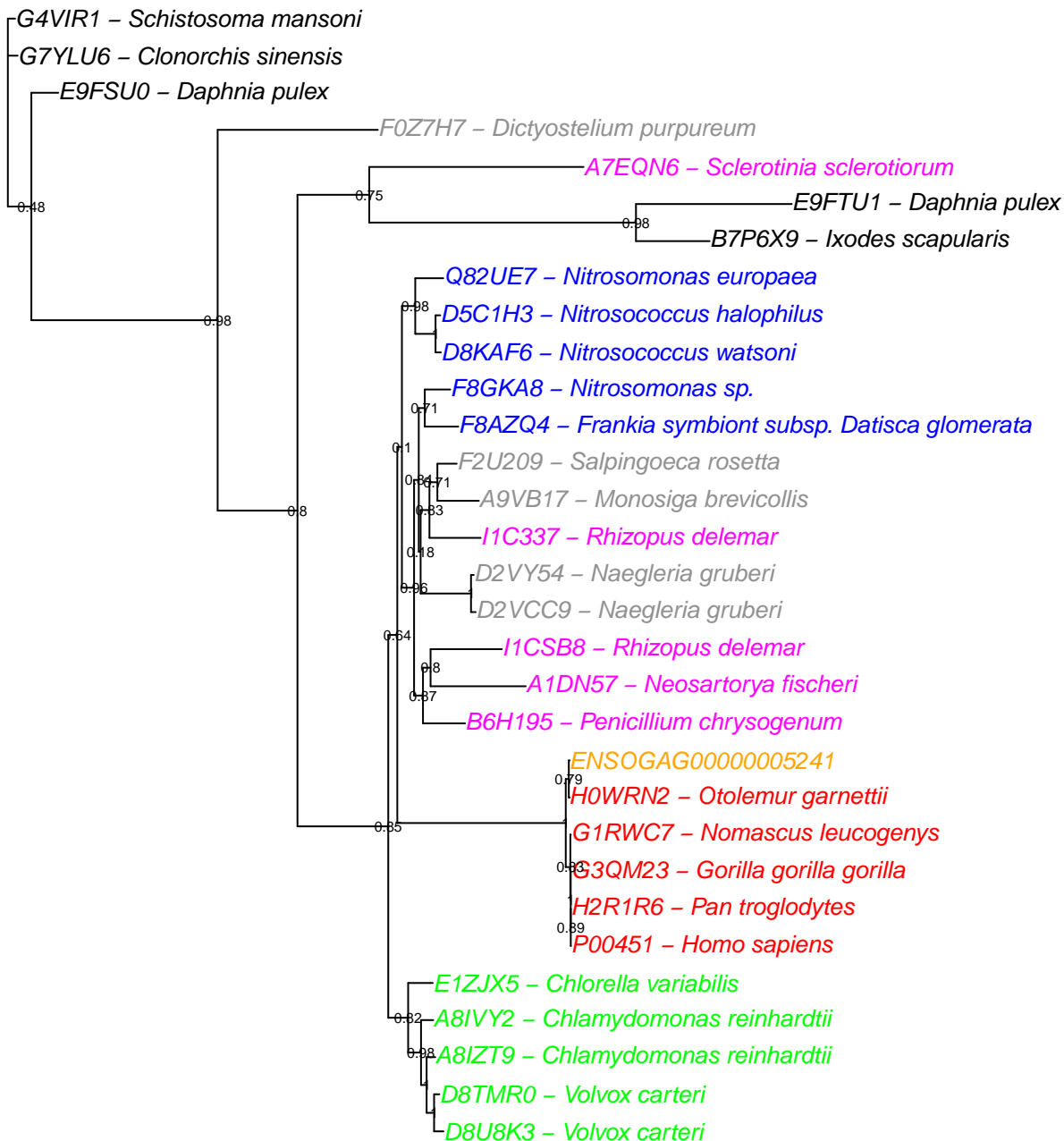
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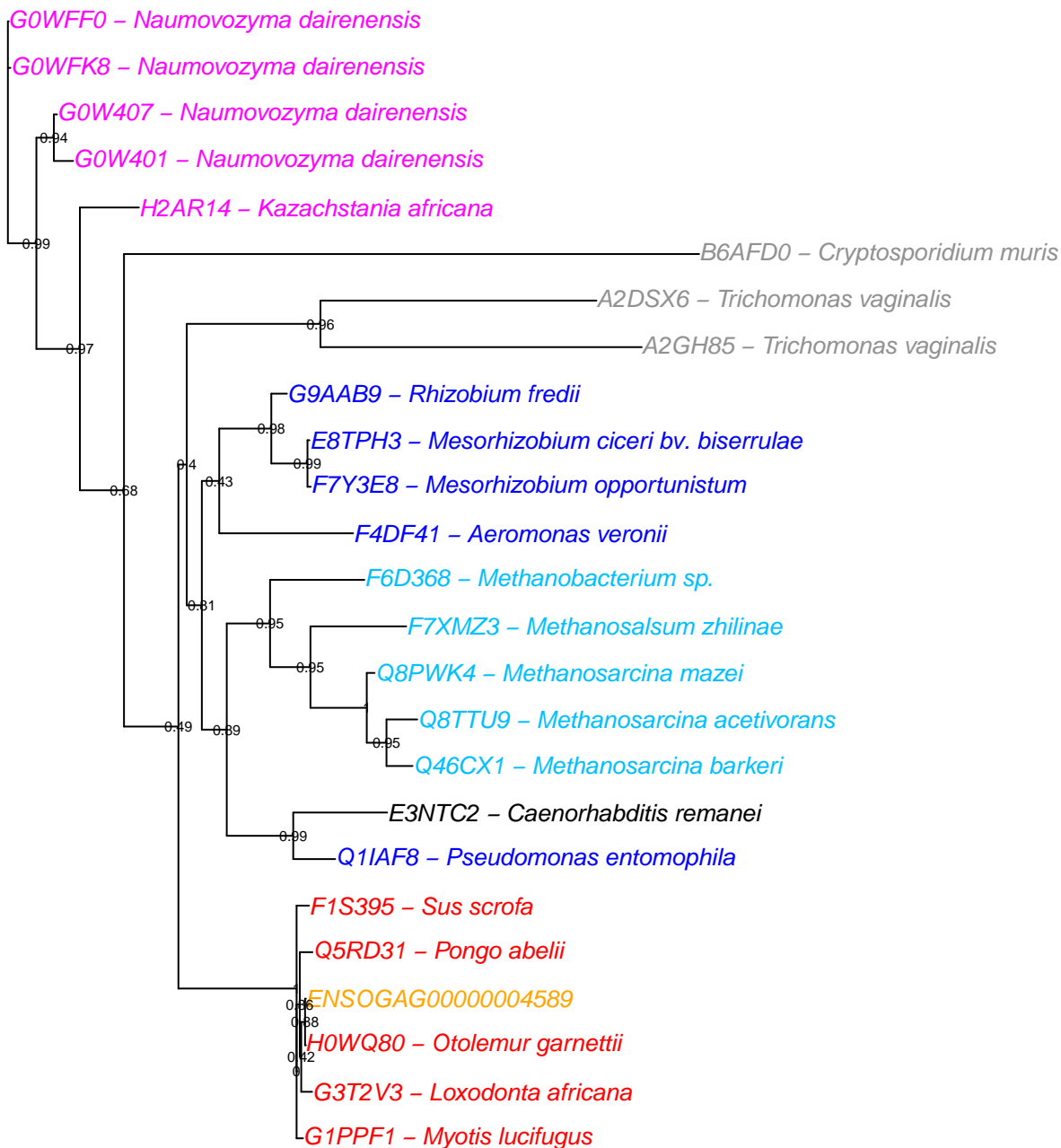
A9AV87 – *Herpetosiphon aurantiacus*

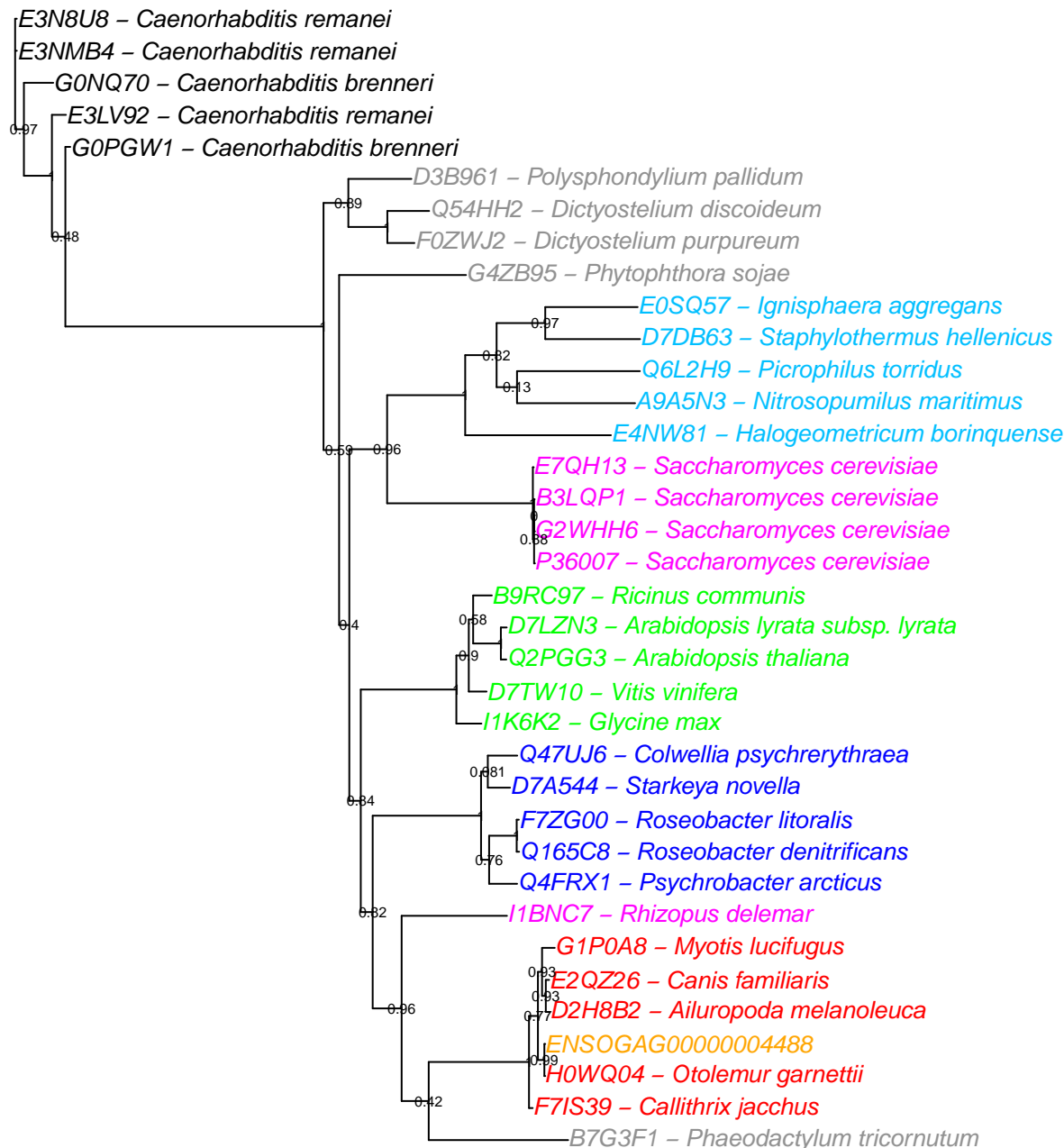
Q6MJY6 – *Bdellovibrio bacteriovorus*











C4QYR3 – *Komagataella pastoris*

F2QPX5 – *Komagataella pastoris*

G0WH31 – *Naumovozya dairenensis*

C5DRX5 – *Zygosaccharomyces rouxii*

Q09828 – *Schizosaccharomyces pombe*

ENSOGAG00000004381

H0WPS4 – *Otolemur garnettii*

Q5RDP4 – *Pongo abelii*

H2PAZ0 – *Pongo abelii*

Q15031 – *Homo sapiens*

H2QMF8 – *Pan troglodytes*

B7QLY2 – *Ixodes scapularis*

D6WEL0 – *Tribolium castaneum*

B4HUB2 – *Drosophila sechellia*

H9KND4 – *Apis mellifera*

G6CMB4 – *Danaus plexippus*

D2V798 – *Naegleria gruberi*

F2U1U7 – *Salpingoeca rosetta*

D2RRR0 – *Haloterrigena turkmenica*

D8J3T9 – *Halalkalicoccus jeotgali*

B9LSC4 – *Halorubrum lacusprofundi*

F8DAJ4 – *Halopiger xanaduensis*

C7P0P8 – *Halomicrobium mukohataei*

Q8DH61 – *Thermosynechococcus elongatus*

B8HM05 – *Cyanothece* sp.

F7UMW3 – *Synechocystis* sp.

P73274 – *Synechocystis* sp.

B0JTS8 – *Microcystis aeruginosa*

D3BE62 – *Polysphondylium pallidum*

F4PG72 – *Dictyostelium fasciculatum*

E9C6M0 – *Capsaspora owczarzaki*

C5M1Q2 – *Perkinsus marinus*

C5LL96 – *Perkinsus marinus*

