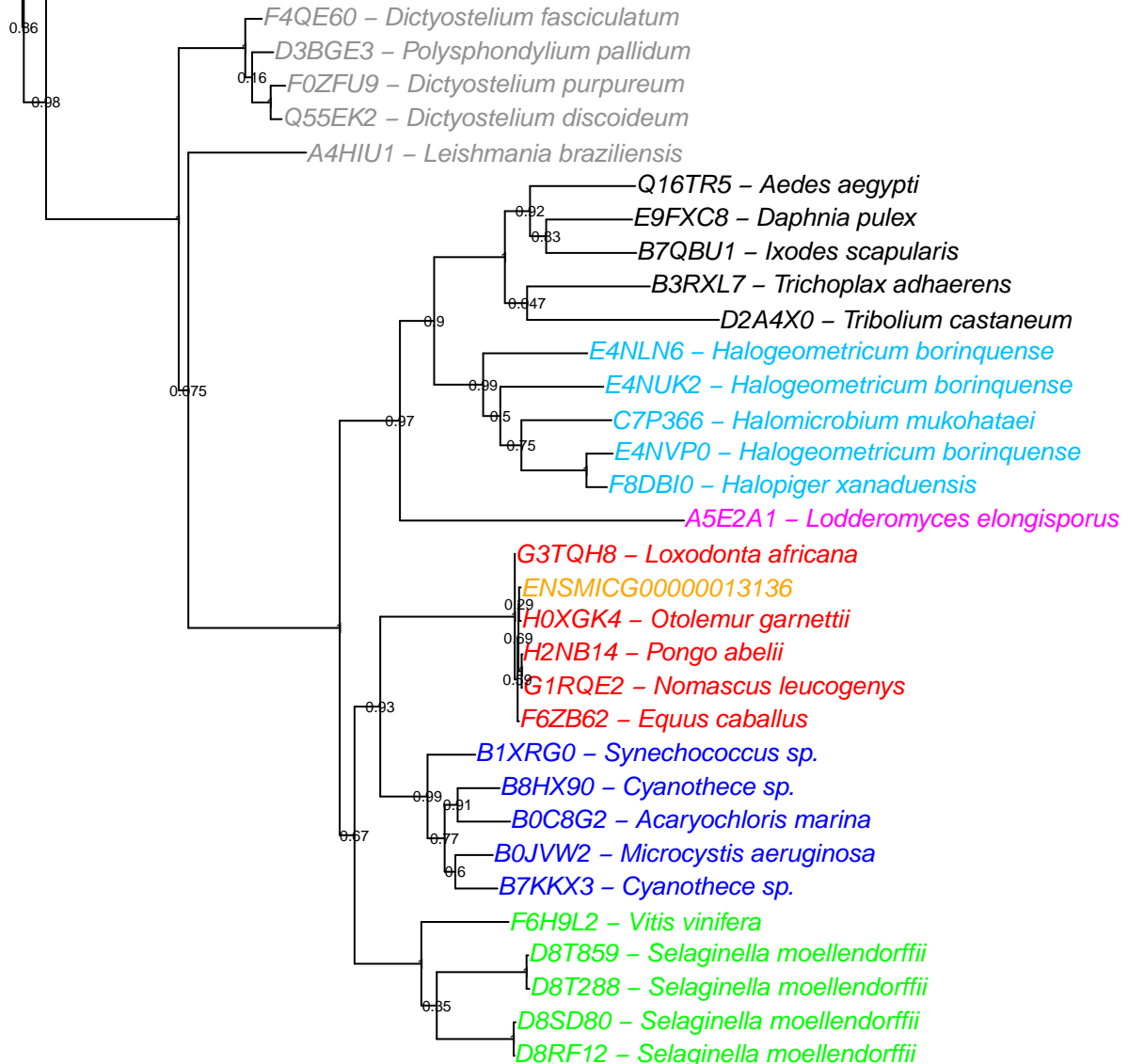


-A7EWX3 – *Sclerotinia sclerotiorum*



11LID2 – Glycine max

-Q16FL4 - *Aedes aegypti*

B4KP38 – Drosophila mojavensis

7QMM2 – *Ixodes scapularis*

└G6CS25 – *Danaus plexippus*

—H9J781 – *Bombyx mori*

└ G8BL00 – *Candida parapsilosis*

99 A5E6I3 – *Lodderomyces elongisporus*

—C4XWY0 – *Clavispora lusitaniae*

– Q6CE40 – *Yarrowia lipolytica*

—G1XEP9 – *Arthrobotrys oligospora*

Q10Y31 – *Trichodesmium erythraeum*

—B2IUT6 – *Nostoc punctiforme*

Q8Z0H2 – *Nostoc* sp.

0.95 *E0UBI6 – Cyanothece sp.*

B7KCV2 – Cyanothece sp.

Q46A62 – *Methanosarcina barkeri*

0.19 Q8TNI4 – *Methanosarcina acetivorans*

Q466H0 – *Methanosarcina barkeri*

Q469S7 – *Methanosarcina barkeri*

F0ZBL5 – *Dictyostelium purpureum*

0.94 F4PKM0 – Dictyostelium fasciculatum

0.9 0.81 F1A482 – *Dictyostelium purpureum*

Q55E58 – Dictyostelium discoideum

—D3BJD3 – *Polysphondylium pallidum*

0.98 G3T2Q8 – *Loxodonta africana*

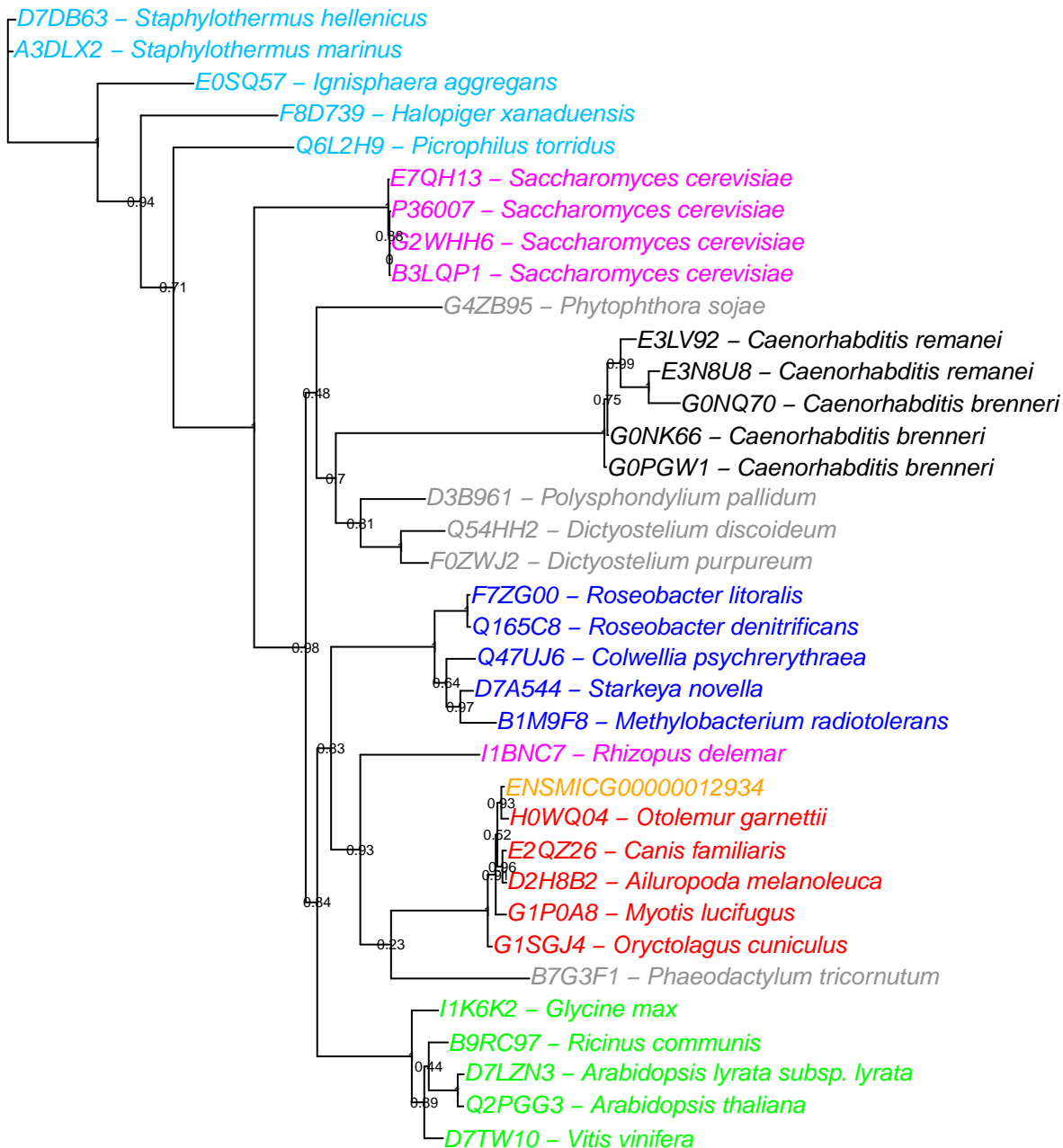
0.54 F7CPG7 – *Callithrix jacchus*

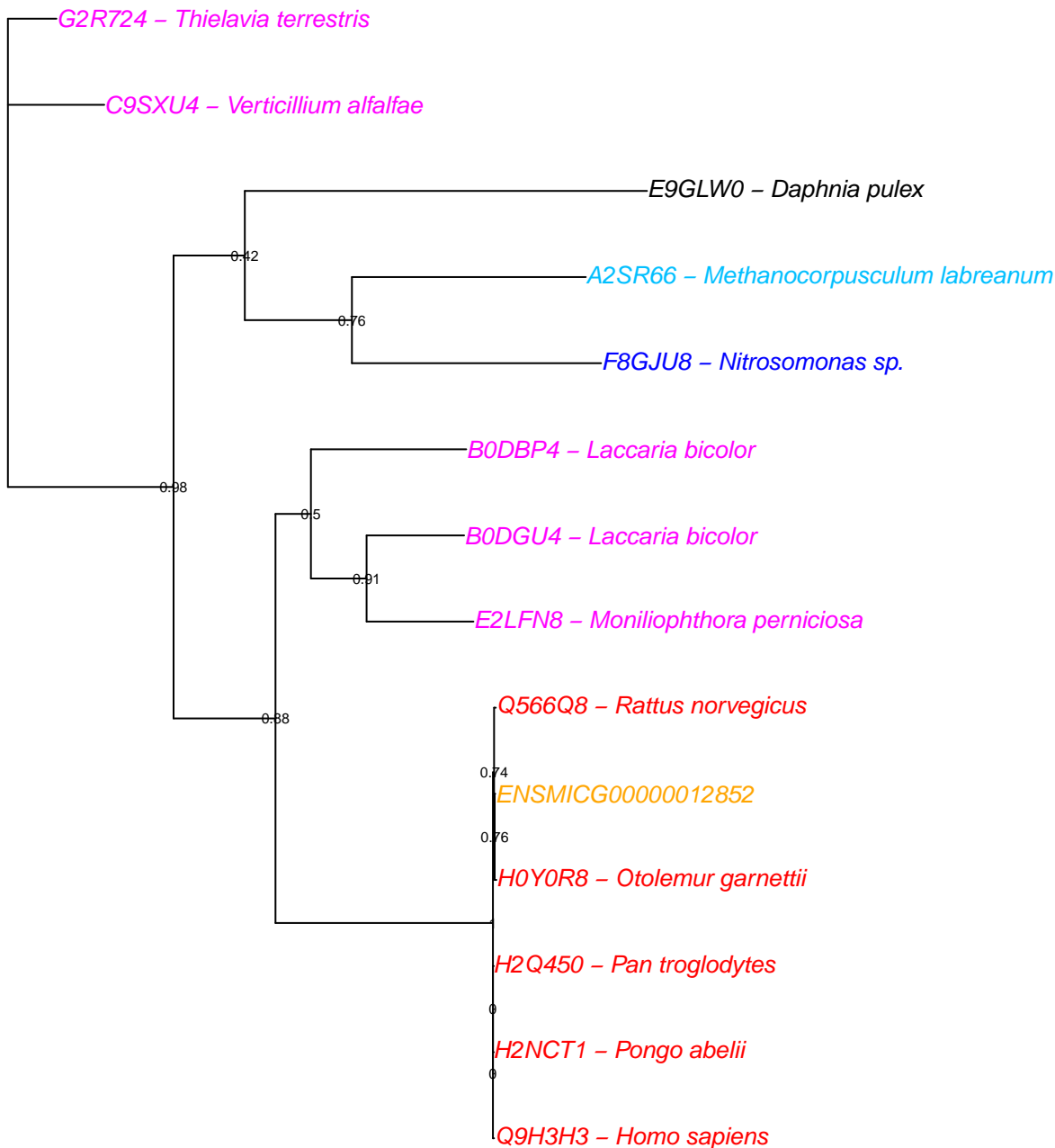
0.9 *F6VEH3 – Macaca mulatta*

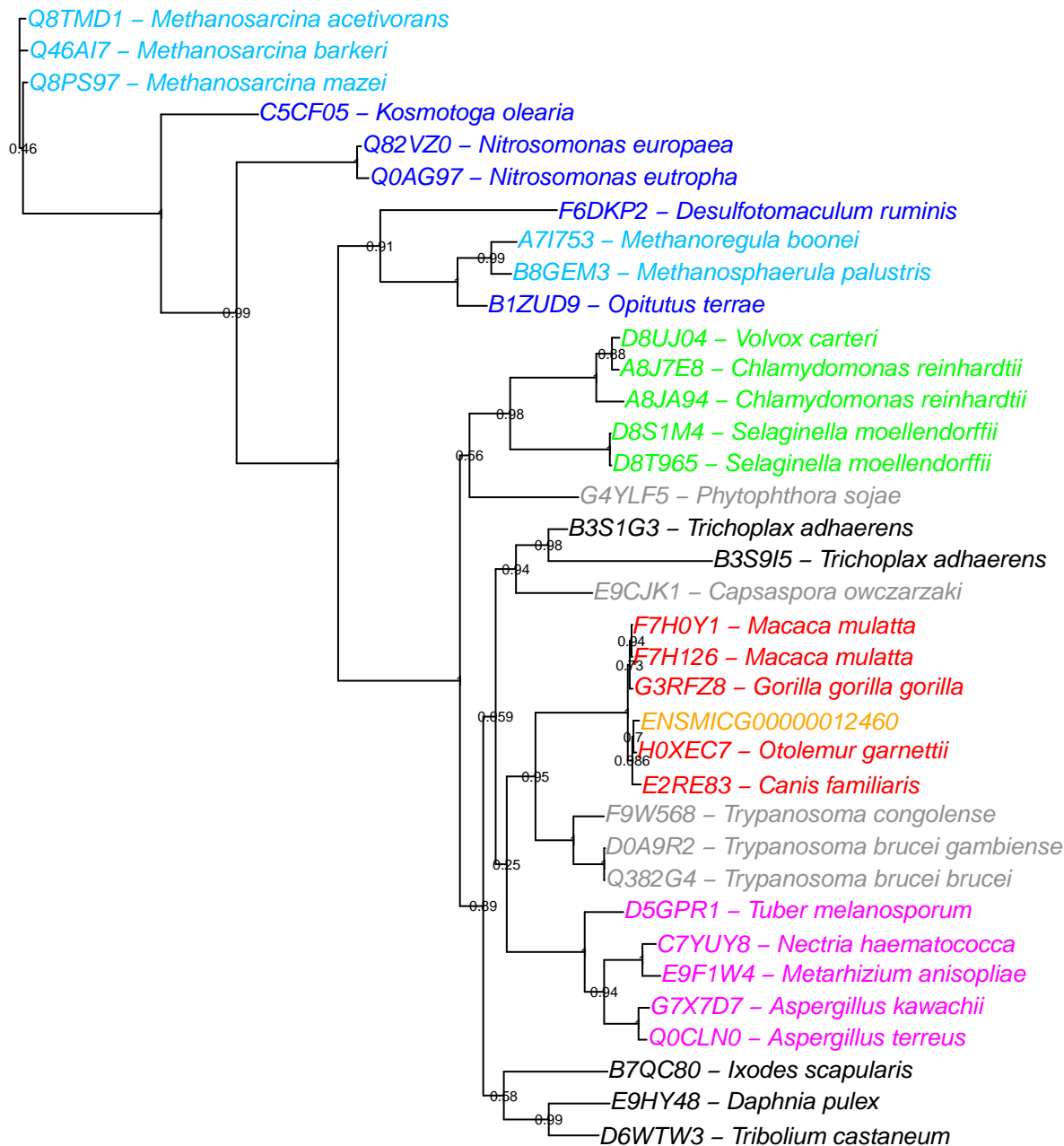
Q3V1N1 – *Mus musculus*

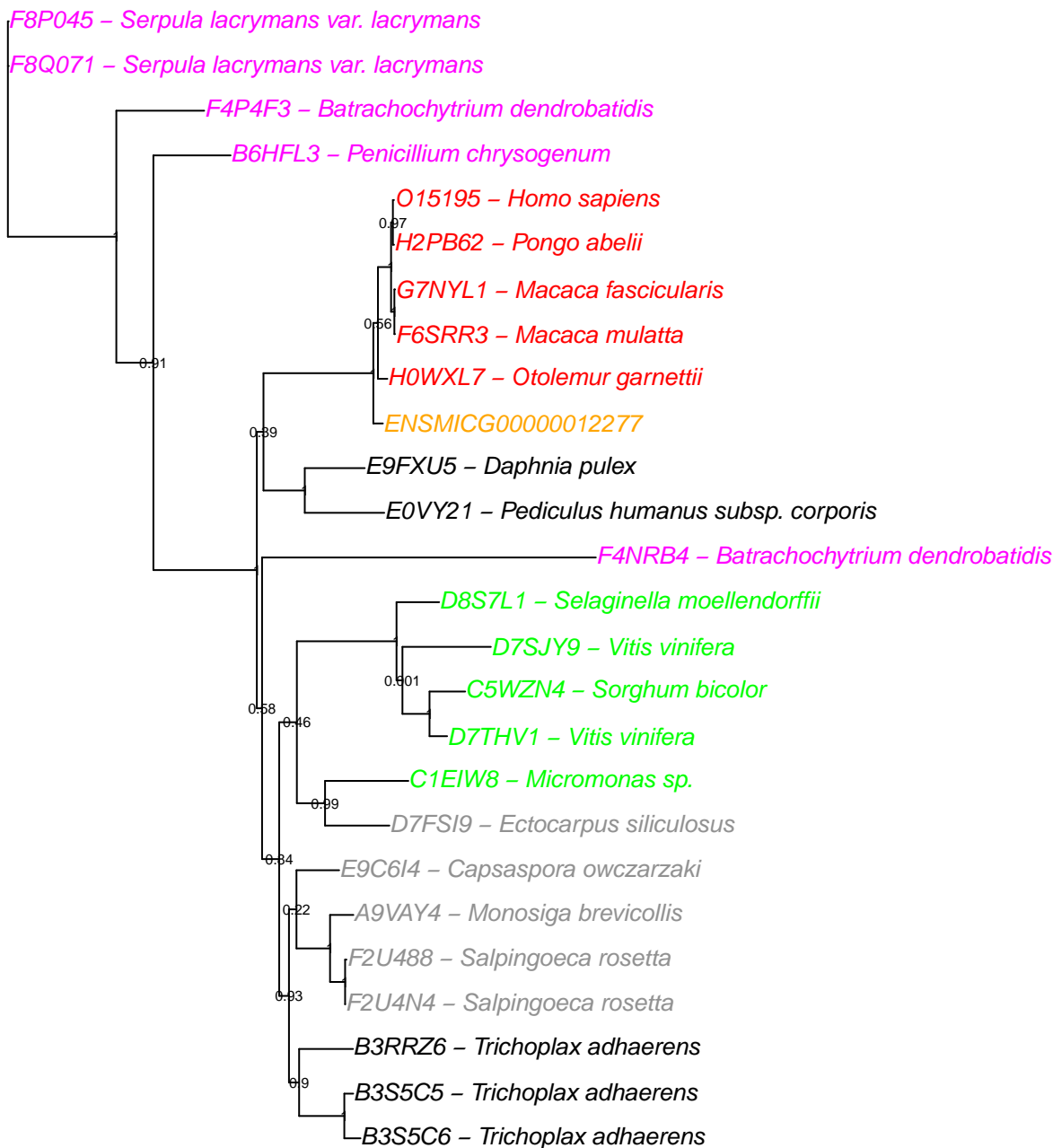
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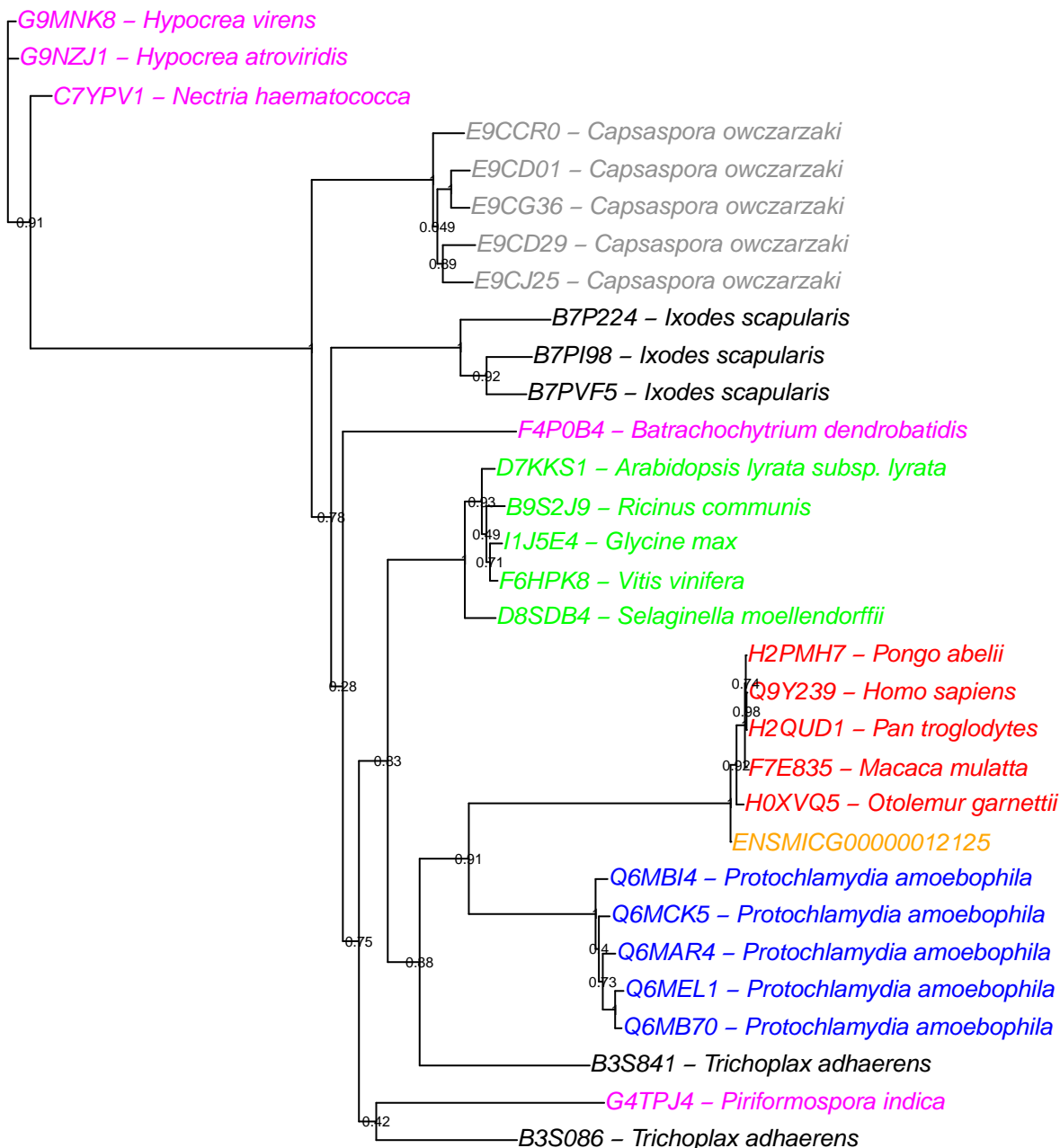
H0XIL4 – *Otolemur garnettii*











G0WFF0 – *Naumovozyma dairenensis*

G0WFK8 – *Naumovozyma dairenensis*

G0W407 – *Naumovozyma dairenensis*

G0W401 – *Naumovozyma dairenensis*

D2VBX1 – *Naegleria gruberi*

H2AR14 – *Kazachstania africana*

F4DF41 – *Aeromonas veronii*

G9AAB9 – *Rhizobium fredii*

E8TPH3 – *Mesorhizobium ciceri* bv. *biserrulae*

F7Y3E8 – *Mesorhizobium opportunistum*

F6D368 – *Methanobacterium* sp.

Q8TTU9 – *Methanosarcina acetivorans*

Q8PWK4 – *Methanosarcina mazei*

F7XMZ3 – *Methanosalsum zhilinae*

D7E6C3 – *Methanohalobium evestigatum*

E3NTC2 – *Caenorhabditis remanei*

Q1IAF8 – *Pseudomonas entomophila*

ENSMICG00000012114

D2HMQ1 – *Ailuropoda melanoleuca*

F1S395 – *Sus scrofa*

Q3ZBH2 – *Bos taurus*

G1PPF1 – *Myotis lucifugus*

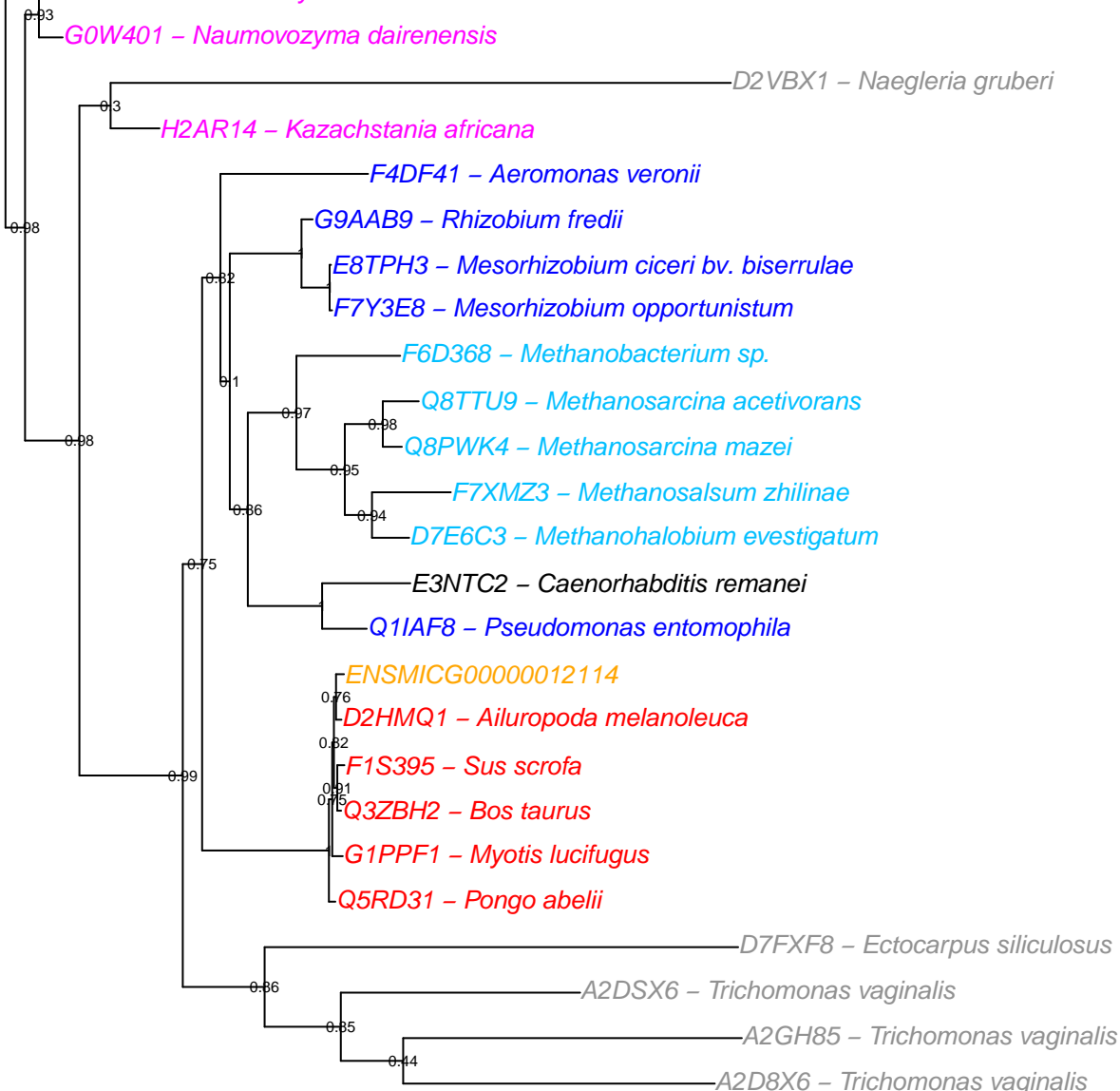
Q5RD31 – *Pongo abelii*

D7FXF8 – *Ectocarpus siliculosus*

A2DSX6 – *Trichomonas vaginalis*

A2GH85 – *Trichomonas vaginalis*

A2D8X6 – *Trichomonas vaginalis*



B0WLP9 – *Culex quinquefasciatus*

Q17FD9 – *Aedes aegypti*

F4W961 – *Acromyrmex echinator*

D6WJ99 – *Tribolium castaneum*

C1E953 – *Micromonas* sp.

B2IUT6 – *Nostoc punctiforme*

Q8F119 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai

G7QHL9 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai

Q72U33 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar copenhageni

Q72U34 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar copenhageni

C1FER3 – *Micromonas* sp.

C1FF90 – *Micromonas* sp.

C1E1G4 – *Micromonas* sp.

C1E711 – *Micromonas* sp.

Q5TWN6 – *Anopheles gambiae*

D7G7F2 – *Ectocarpus siliculosus*

E9CCF2 – *Capsaspora owczarzaki*

E9CF02 – *Capsaspora owczarzaki*

E9CJE9 – *Capsaspora owczarzaki*

E9CIL3 – *Capsaspora owczarzaki*

ENSMICG00000011504

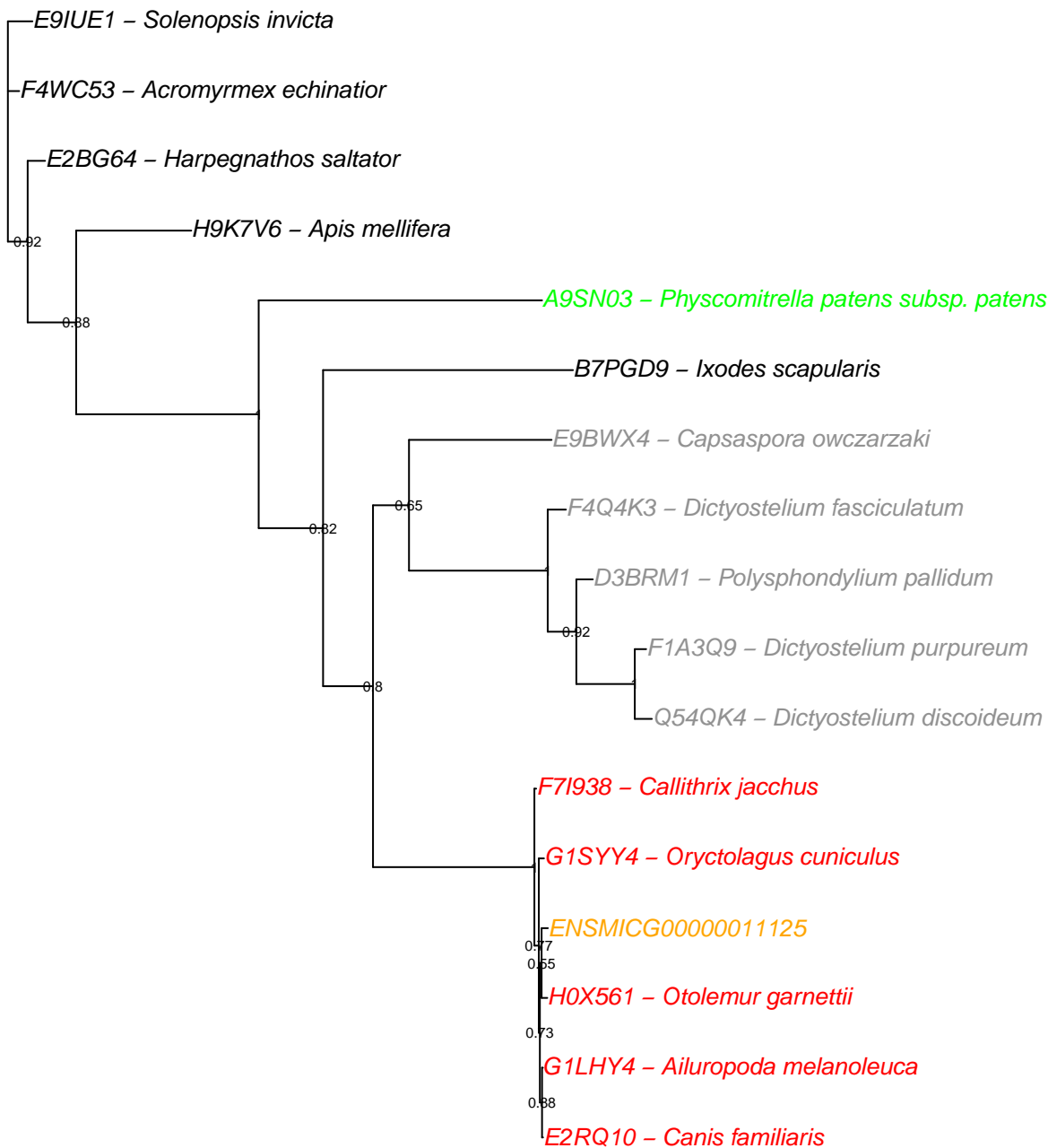
H2PCE2 – *Pongo abelii*

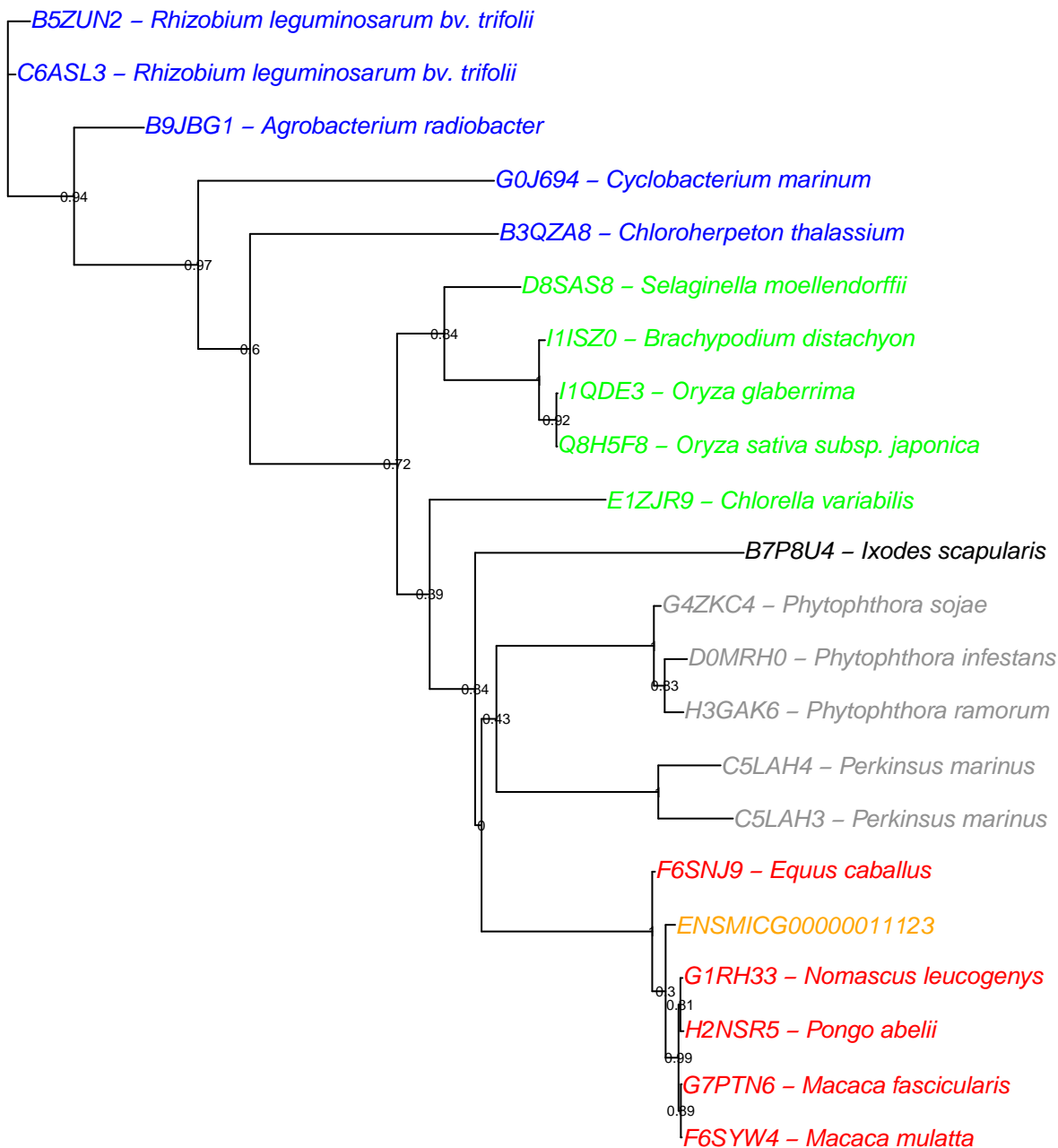
G3QWL2 – *Gorilla gorilla gorilla*

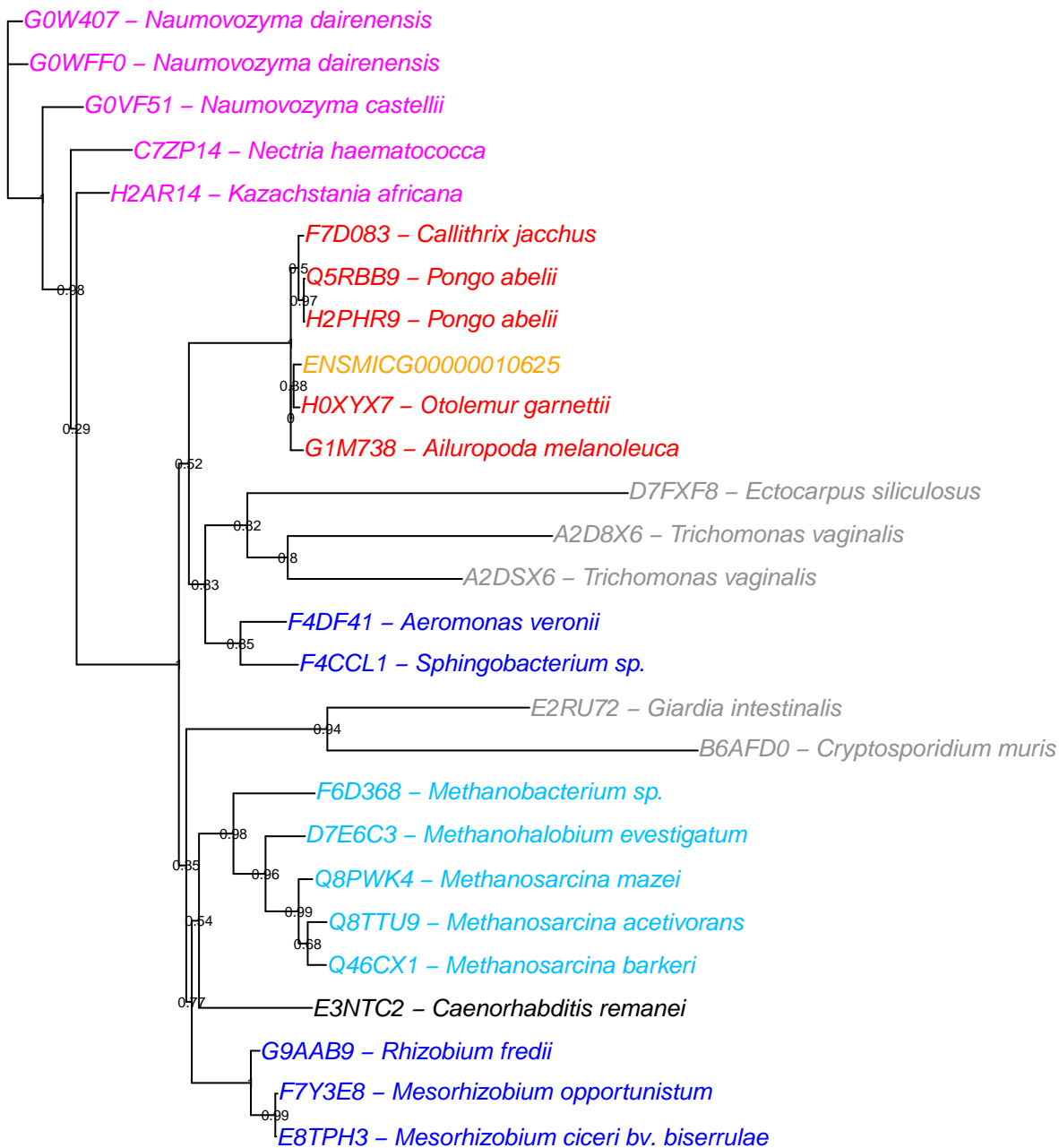
Q8TF66 – *Homo sapiens*

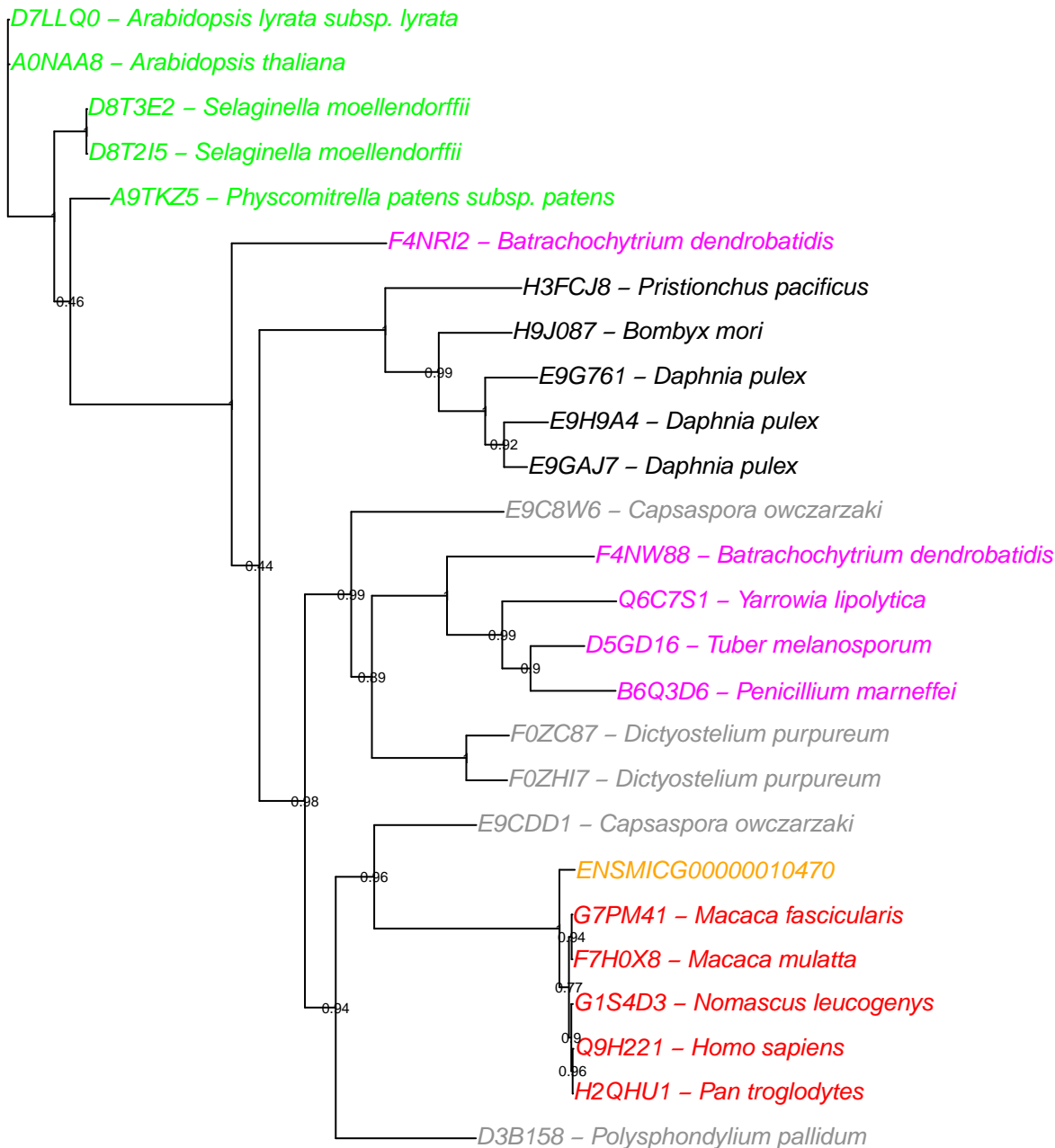
G7NYR2 – *Macaca fascicularis*

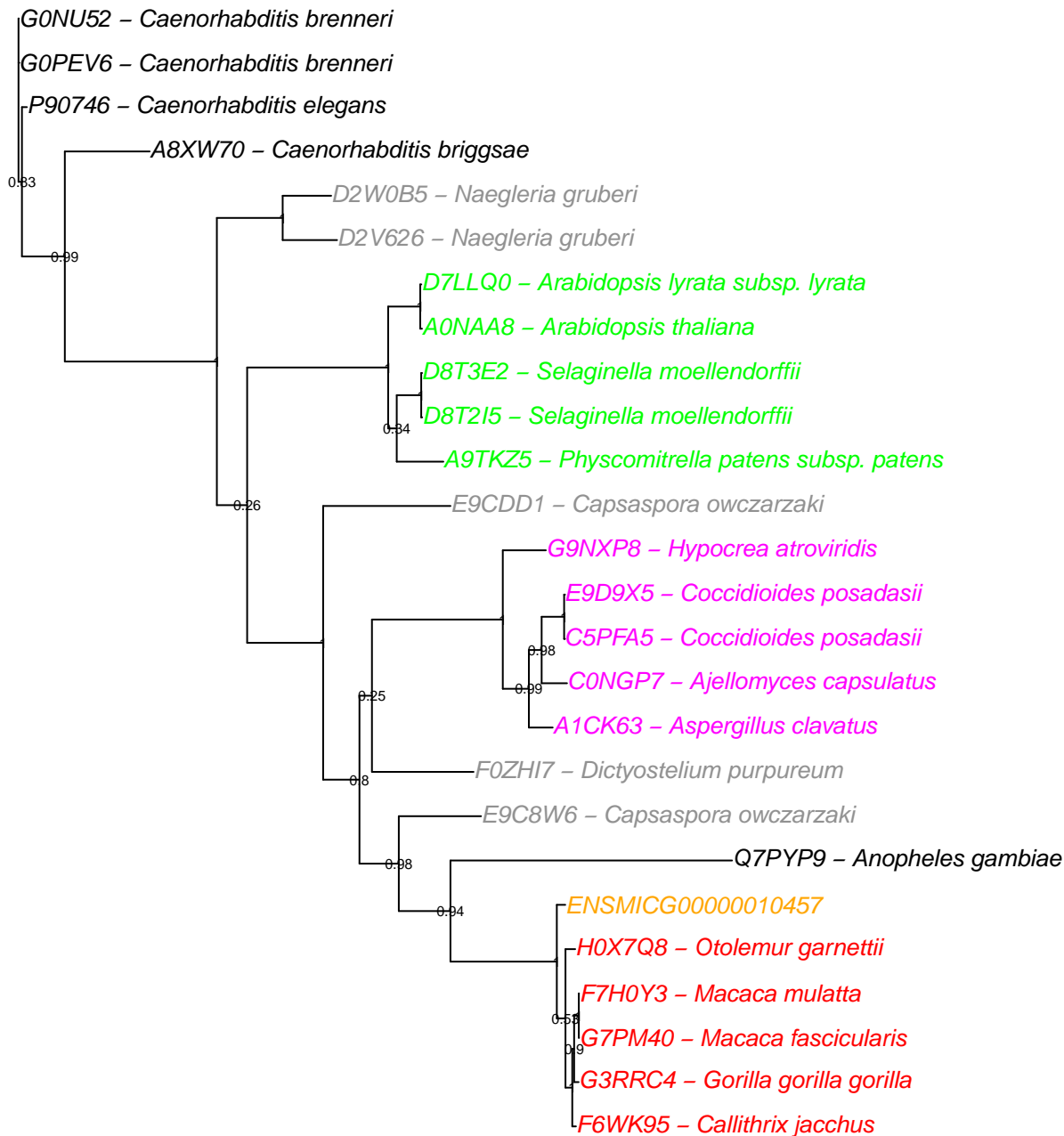
F7FSB9 – *Macaca mulatta*











E4SPX6 – *Streptococcus thermophilus*

Q03MS9 – *Streptococcus thermophilus*

C0MF69 – *Streptococcus equi* subsp. *zooepidemicus*

B4U0D4 – *Streptococcus equi* subsp. *zooepidemicus*

F8IM73 – *Streptococcus equi* subsp. *zooepidemicus*

B2B6A1 – *Podospira anserina*

G1R027 – *Nomascus leucogenys*

G3QN14 – *Gorilla gorilla gorilla*

H2QBE6 – *Pan troglodytes*

Q00219 – *Homo sapiens*

ENSMICG00000009622

E2RPQ1 – *Canis familiaris*

I1C447 – *Rhizopus delemar*

F9FZM0 – *Fusarium oxysporum*

B8PCC4 – *Postia placenta*

B8PKM3 – *Postia placenta*

E4NTD4 – *Halogeometricum borinquense*

D3SVK8 – *Natrialba magadii*

B8BZ32 – *Thalassiosira pseudonana*

B5YNX7 – *Thalassiosira pseudonana*

B8C4Q2 – *Thalassiosira pseudonana*

A8PV21 – *Brugia malayi*

H3FIF0 – *Pristionchus pacificus*

G5ECD6 – *Caenorhabditis elegans*

H2VHT5 – *Caenorhabditis japonica*

G0P120 – *Caenorhabditis brenneri*

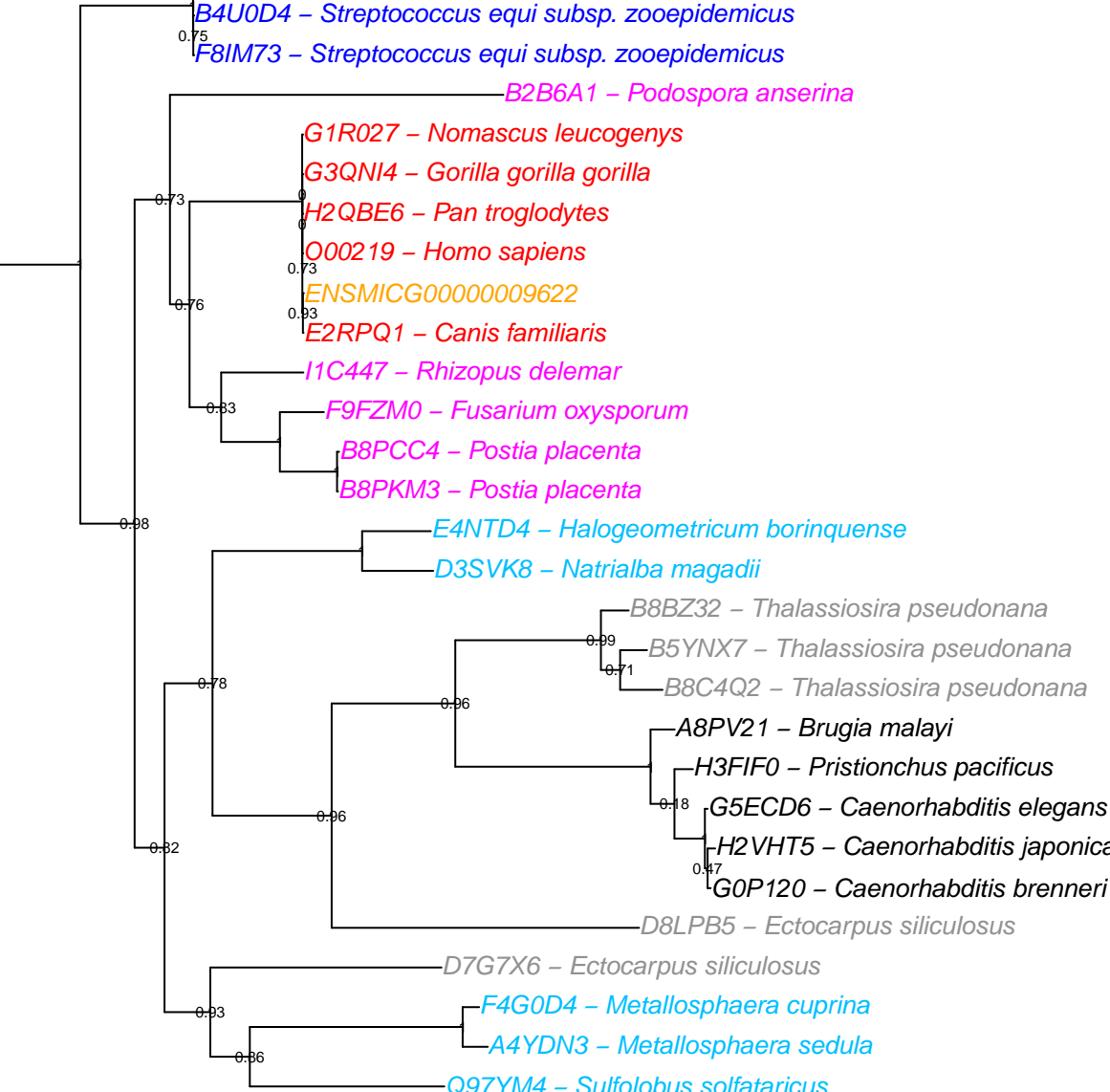
D8LPB5 – *Ectocarpus siliculosus*

D7G7X6 – *Ectocarpus siliculosus*

F4G0D4 – *Metallosphaera cuprina*

A4YDN3 – *Metallosphaera sedula*

Q97YM4 – *Sulfolobus solfataricus*



Q98GI6 – *Rhizobium loti*

F7Y5H0 – *Mesorhizobium opportunistum*

-E3I572 – *Rhodomicrobium vannielii*

-Q1M5E7 – *Rhizobium leguminosarum* bv. *viciae*

ENSMICG00000009222

F7HZZ4 – *Callithrix jacchus*

74 G7PBR4 – *Macaca fascicularis*

G3RMM0 – *Gorilla gorilla gorilla*

G3S9D6 – *Gorilla gorilla gorilla*

P00750 – Homo sapiens

-E9EED8 – *Metarhizium acridum*

– E9F6V3 – *Metarhizium anisopliae*

—G3JPF4 – *Cordyceps militaris*

-B8C7F8 – *Thalassiosira pseudonana*

-E0VW10 – *Pediculus humanus subsp. corporis*

—F4W417 – *Acromyrmex echinator*

Q16QB1 – *Aedes aegypti*

L-B0WFM3 – *Culex quinquefasciatus*

-B3SC39 – *Trichoplax adhaerens*

-F2UAE4 – *Salpingoeca rosetta*

-A9AV87 – *Herpetosiphon aurantiacus*

- Q5BAR4 – *Emericella nidulans*

G9MZZ8 – *Hypocrea virens*

A5UJ06 – *Haemophilus influenzae*

-H8L0D2 – *Frateuria aurantia*

I1P570 – *Oryza glaberrima*

Q6KAJ2 – *Oryza sativa* subsp. *japonica*

—I1IDH8 – *Brachypodium distachyon*

-D8RP46 – *Selaginella moellendorffii*

–A9U4V4 – *Physcomitrella patens* subsp. *patens*

—F4QE91 – *Dictyostelium fasciculatum*

—F1A0C8 – *Dictyostelium purpureum*

Q55F21 – *Dictyostelium discoideum*

– C4JRQ5 – *Uncinocarpus reesii*

—B0CQ48 – *Laccaria bicolor*

– Q4PH18 – *Ustilago maydis*

—F4RE14 – *Melampsora larici-populina*

-G7E7A2 – *Mixia osmundae*

A9UVY5 – *Monosiga brevicollis*

—F2UDS4 – *Salpingoeca rosetta*

–H3E9Y7 – *Pristionchus pacificus*

-E9HGW6 – *Daphnia pulex*

–D6WJR3 – *Tribolium castaneum*

-Q7PM06 – *Anopheles gambiae*

-Q5K6H3 – *Aedes aegypti*

P00507 – *Rattus norvegicus*

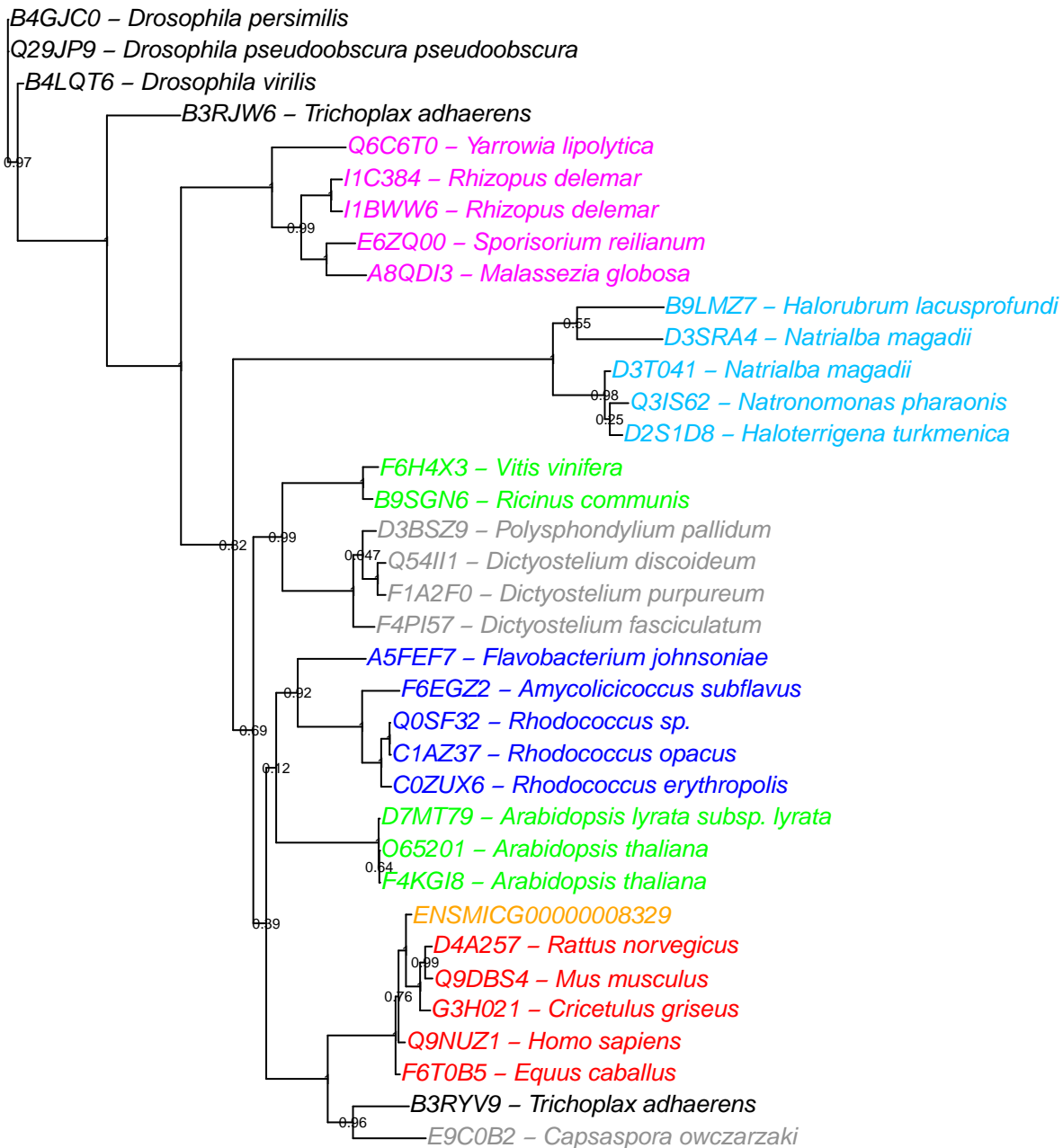
F6UDV1 – Macaca mulatta

P00505 – *Homo sapiens*

H2QB89 – *Pan troglodytes*

ENSMICG00000008954

98 H0WGN7 – *Otolemur garnettii*



E8VQK2 – *Vibrio vulnificus*

Q8DA23 – *Vibrio vulnificus*

Q484F0 – *Colwellia psychrerythraea*

E1ZM81 – *Chlorella variabilis*

H0ESH2 – *Glarea lozoyensis*

E5A5U3 – *Leptosphaeria maculans*

I1S303 – *Gibberella zeae*

E5A535 – *Leptosphaeria maculans*

F5HF54 – *Phaeosphaeria nodorum*

A9AV87 – *Herpetosiphon aurantiacus*

Q2JM42 – *Synechococcus* sp.

B3RY72 – *Trichoplax adhaerens*

B3SC31 – *Trichoplax adhaerens*

H2Q245 – *Pan troglodytes*

E7ET40 – *Homo sapiens*

F7BT48 – *Equus caballus*

H0XH31 – *Otolemur garnettii*

Q8MHY7 – *Oryctolagus cuniculus*

ENSMICG00000008071

E9GCW7 – *Daphnia pulex*

B7PKT9 – *Ixodes scapularis*

E9GC79 – *Daphnia pulex*

B8C7F8 – *Thalassiosira pseudonana*

C1FIY1 – *Micromonas* sp.

0.99

0.97

0.63

0.42

0.52

0.94

0.93

0.94

0.79

0.73

0.76

0.93

0.23

0.94

0.96

0.94

0.8

B9LMS4 – *Halorubrum lacusprofundi*

B9LXA8 – *Halorubrum lacusprofundi*

Q5V4U2 – *Haloarcula marismortui*

D4GP88 – *Haloferax volcanii*

Q17K83 – *Aedes aegypti*

Q7Q6L4 – *Anopheles gambiae*

B3M833 – *Drosophila ananassae*

B4QPI8 – *Drosophila simulans*

B3MGY0 – *Drosophila ananassae*

A8IT92 – *Chlamydomonas reinhardtii*

D8TXL4 – *Volvox carteri*

Q9ATG5 – *Chlamydomonas reinhardtii*

A8ISJ6 – *Chlamydomonas reinhardtii*

D8J5N0 – *Halalkalicoccus jeotgali*

E1ZLZ8 – *Chlorella variabilis*

Q5LVA2 – *Ruegeria pomeroyi*

Q46P27 – *Cupriavidus pinatubonensis*

E1TIK2 – *Burkholderia* sp.

B2T943 – *Burkholderia phytofirmans*

C8X1A5 – *Desulfohalobium retbaense*

Q4P5X9 – *Ustilago maydis*

E4ZJE6 – *Leptosphaeria maculans*

F0XT47 – *Grosmannia clavigera*

Q2HDD5 – *Chaetomium globosum*

G2REM7 – *Thielavia terrestris*

F0XZB7 – *Aureococcus anophagefferens*

ENSMICG00000006706

F6PQA7 – *Equus caballus*

G1PPX8 – *Myotis lucifugus*

F7GPX9 – *Callithrix jacchus*

Q6UWY0 – *Homo sapiens*

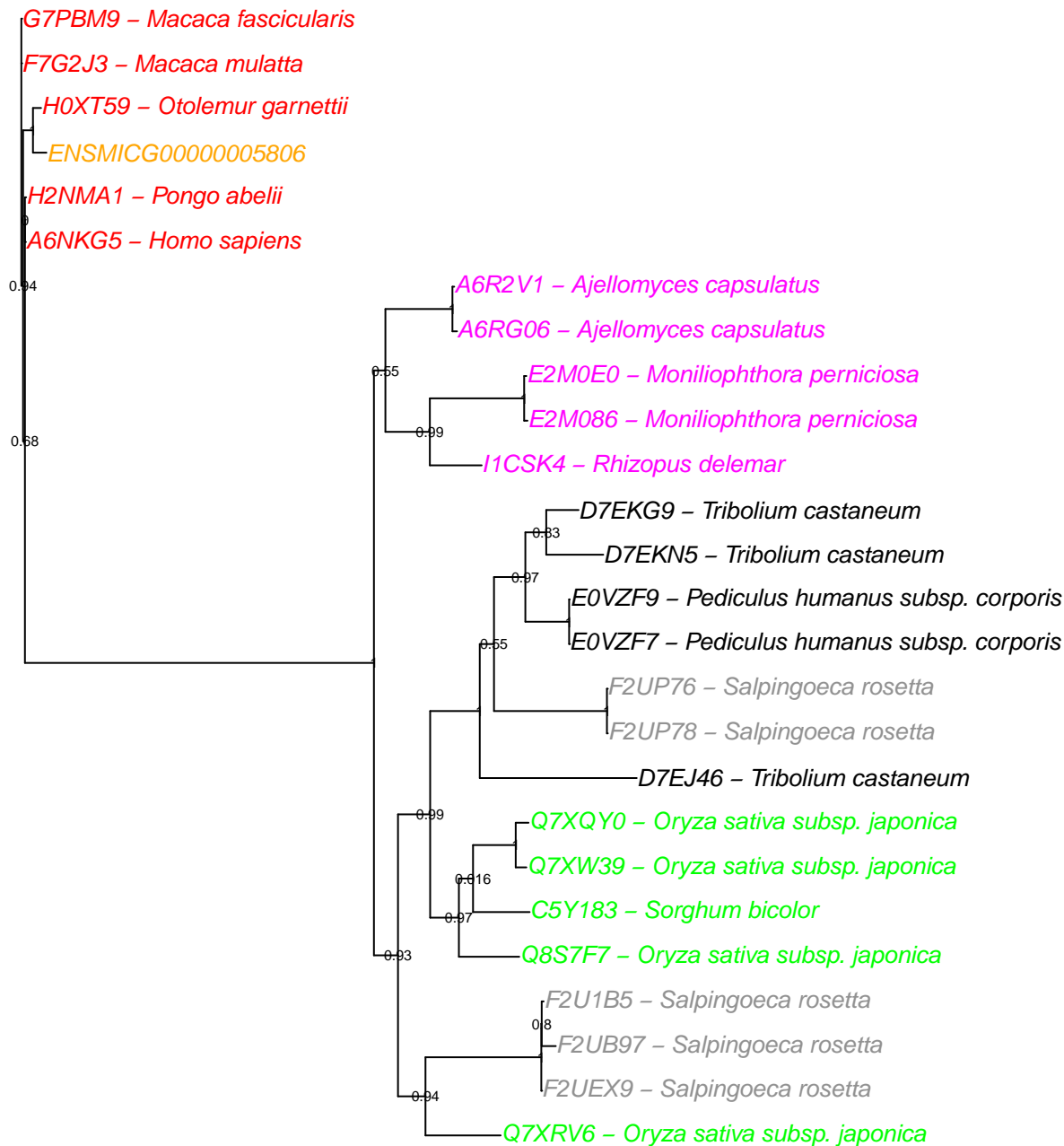
G3QSM2 – *Gorilla gorilla gorilla*

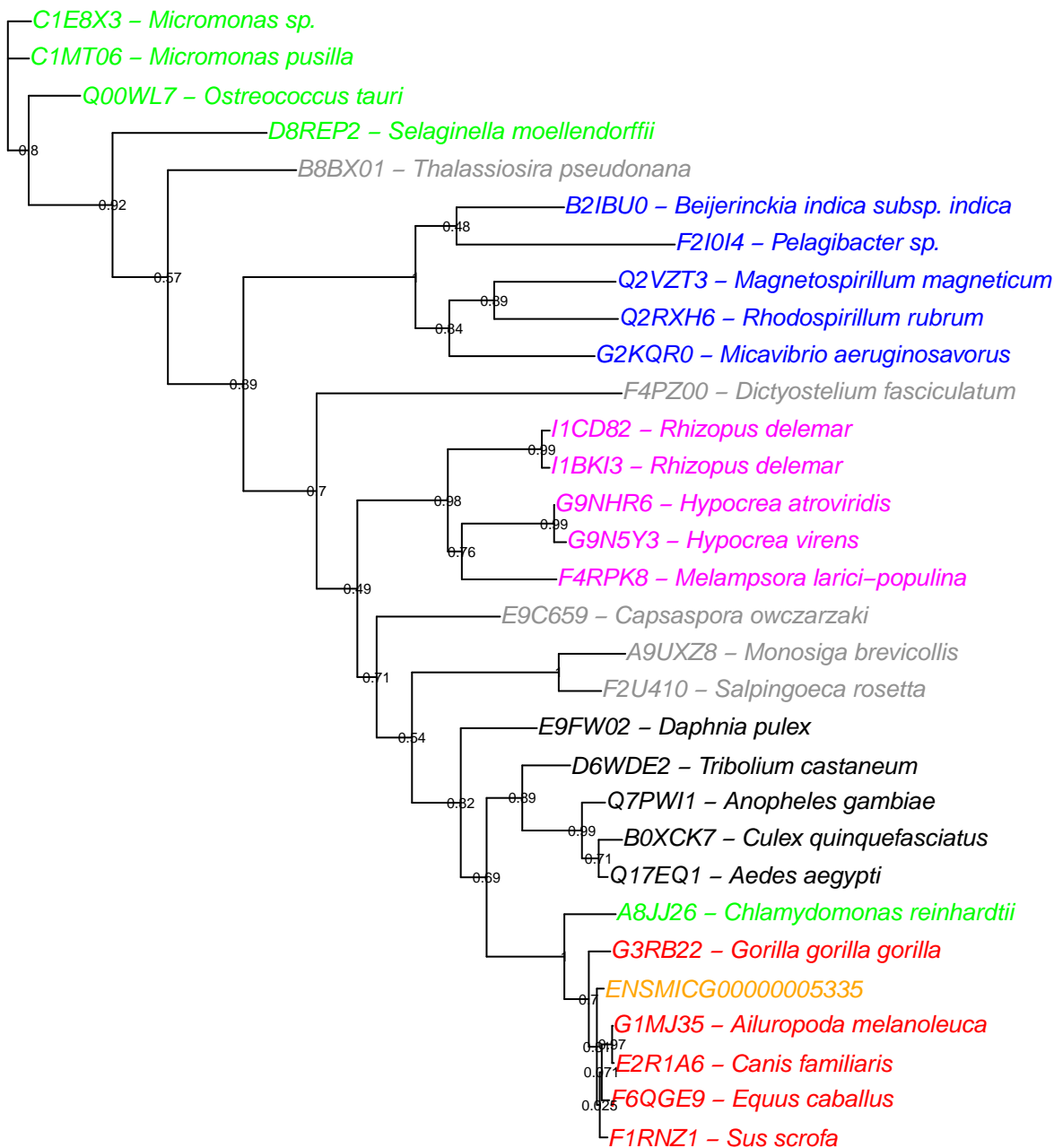
F0YQG0 – *Aureococcus anophagefferens*

F0YQ66 – *Aureococcus anophagefferens*

A9V439 – *Monosiga brevicollis*

A9VDQ3 – *Monosiga brevicollis*





Q16VI7 – *Aedes aegypti*

Q7QHH1 – *Anopheles gambiae*

D6WNE7 – *Tribolium castaneum*

E9IFU3 – *Solenopsis invicta*

G1LZC6 – *Ailuropoda melanoleuca*

Q99PI8 – *Mus musculus*

Q9BZR6 – *Homo sapiens*

G1R140 – *Nomascus leucogenys*

ENSMICG00000005103

H0W8G8 – *Cavia porcellus*

A0PYT8 – *Clostridium novyi*

B3RMC8 – *Trichoplax adhaerens*

Q10Y31 – *Trichodesmium erythraeum*

Q72U33 – *Leptospira interrogans* serogroup *Icterohaemorrhagiae* serovar *copenhageni*

C1FER3 – *Micromonas* sp.

C1DZD8 – *Micromonas* sp.

C1FF90 – *Micromonas* sp.

C1FHV9 – *Micromonas* sp.

C1EBH5 – *Micromonas* sp.

B2IXB5 – *Nostoc punctiforme*

Q8Z0H2 – *Nostoc* sp.

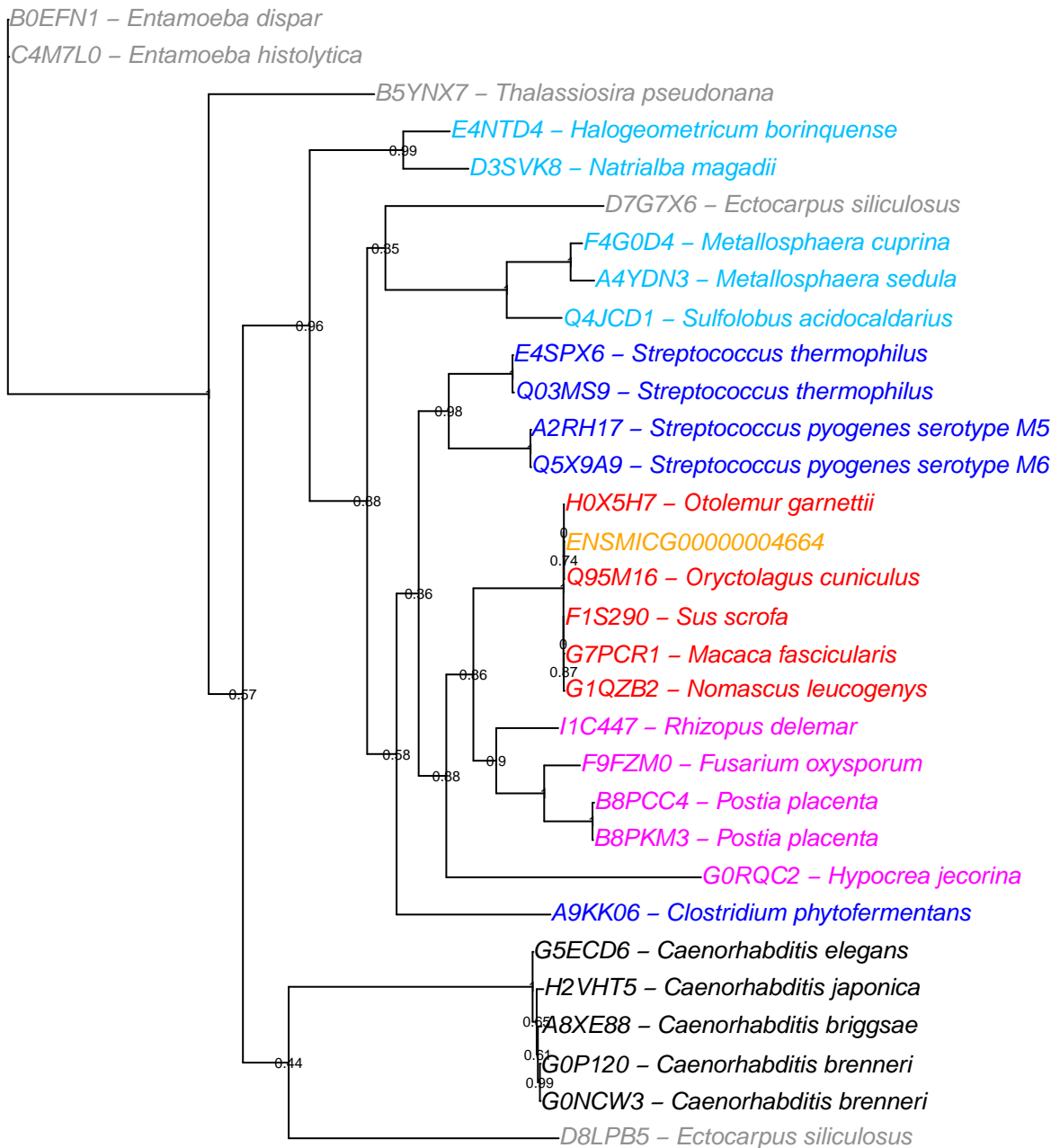
E9C7Y0 – *Capsaspora owczarzaki*

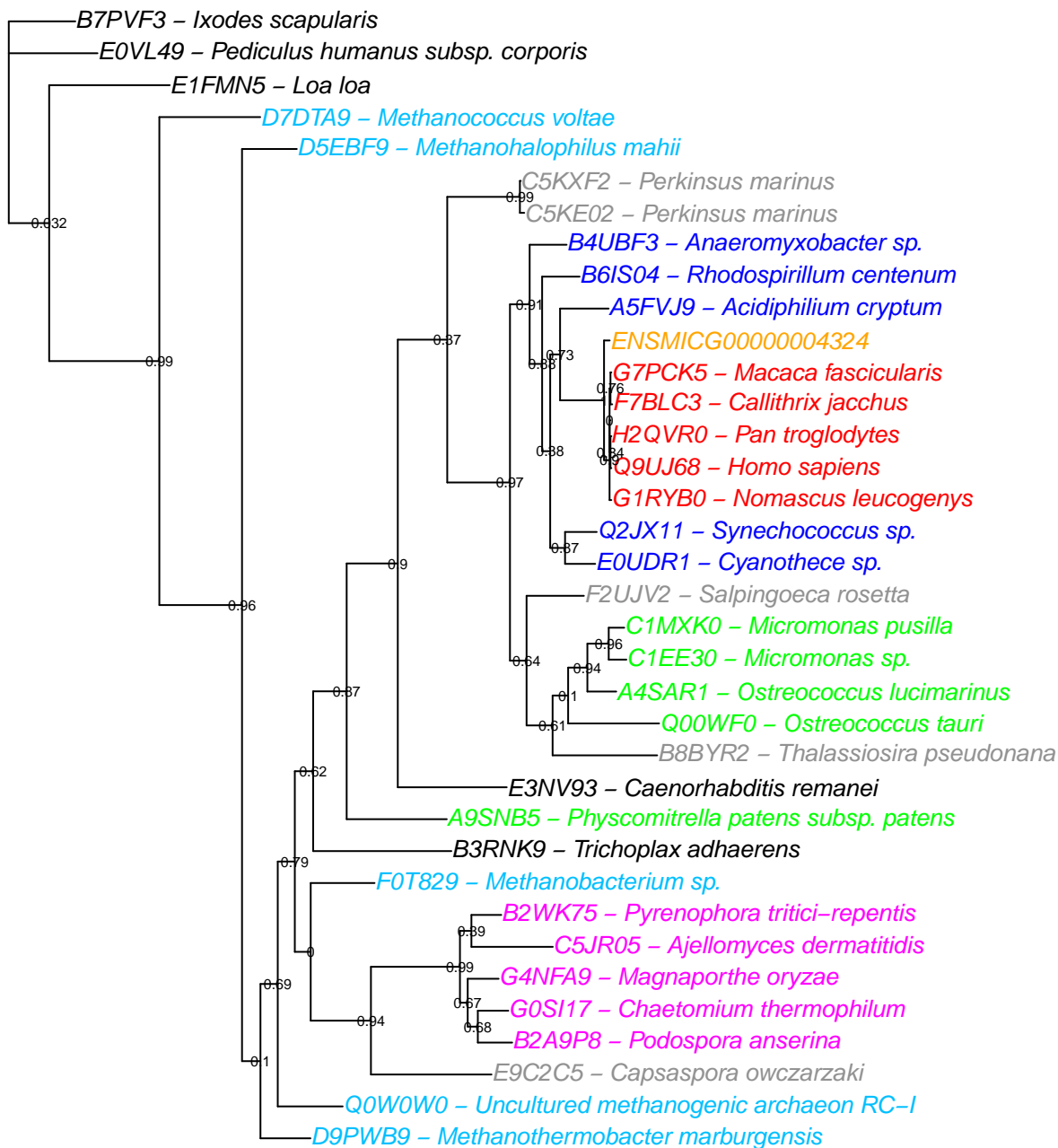
E9CJE9 – *Capsaspora owczarzaki*

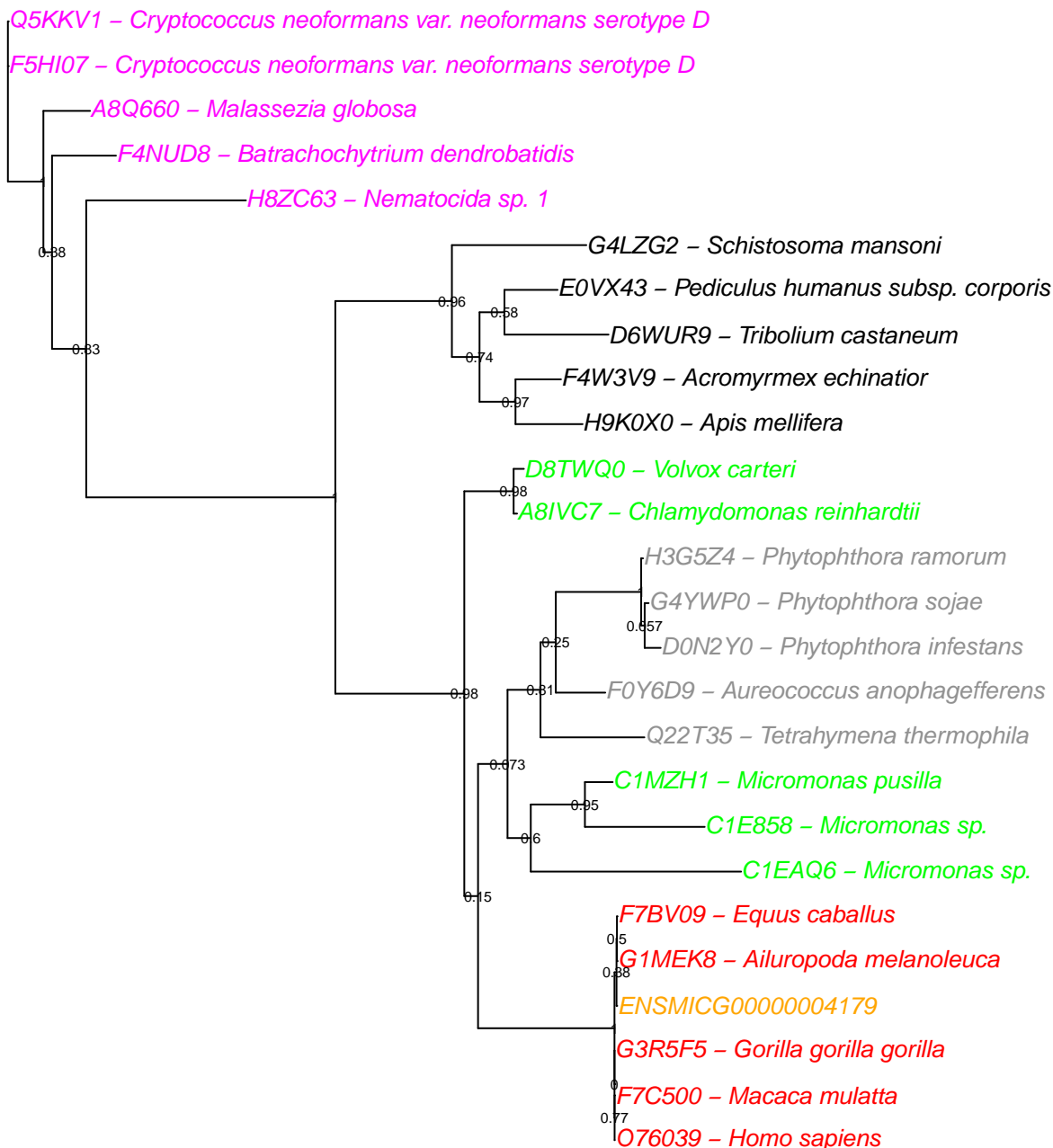
E9CIL4 – *Capsaspora owczarzaki*

E9CIK9 – *Capsaspora owczarzaki*

E9CCF2 – *Capsaspora owczarzaki*

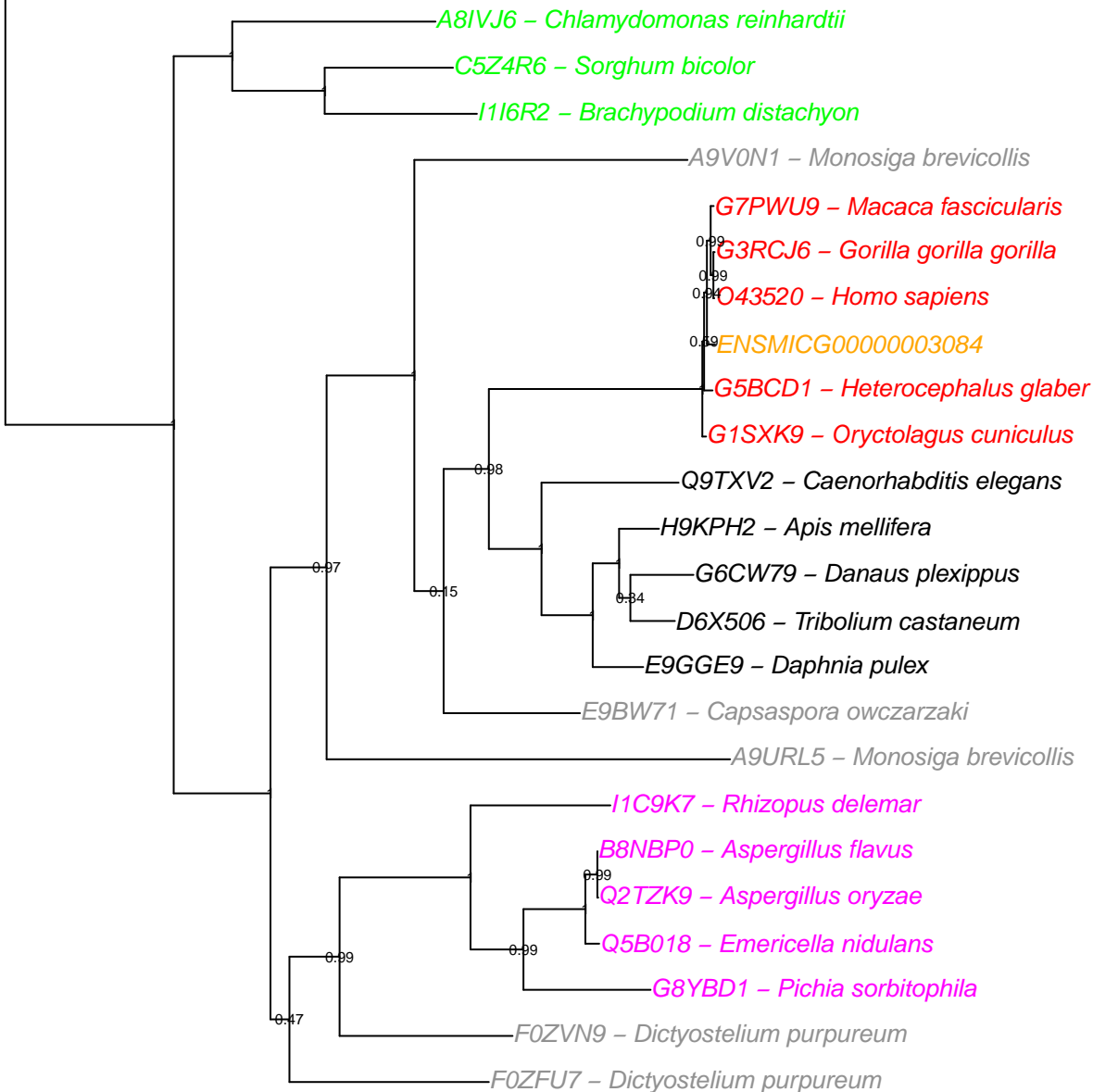


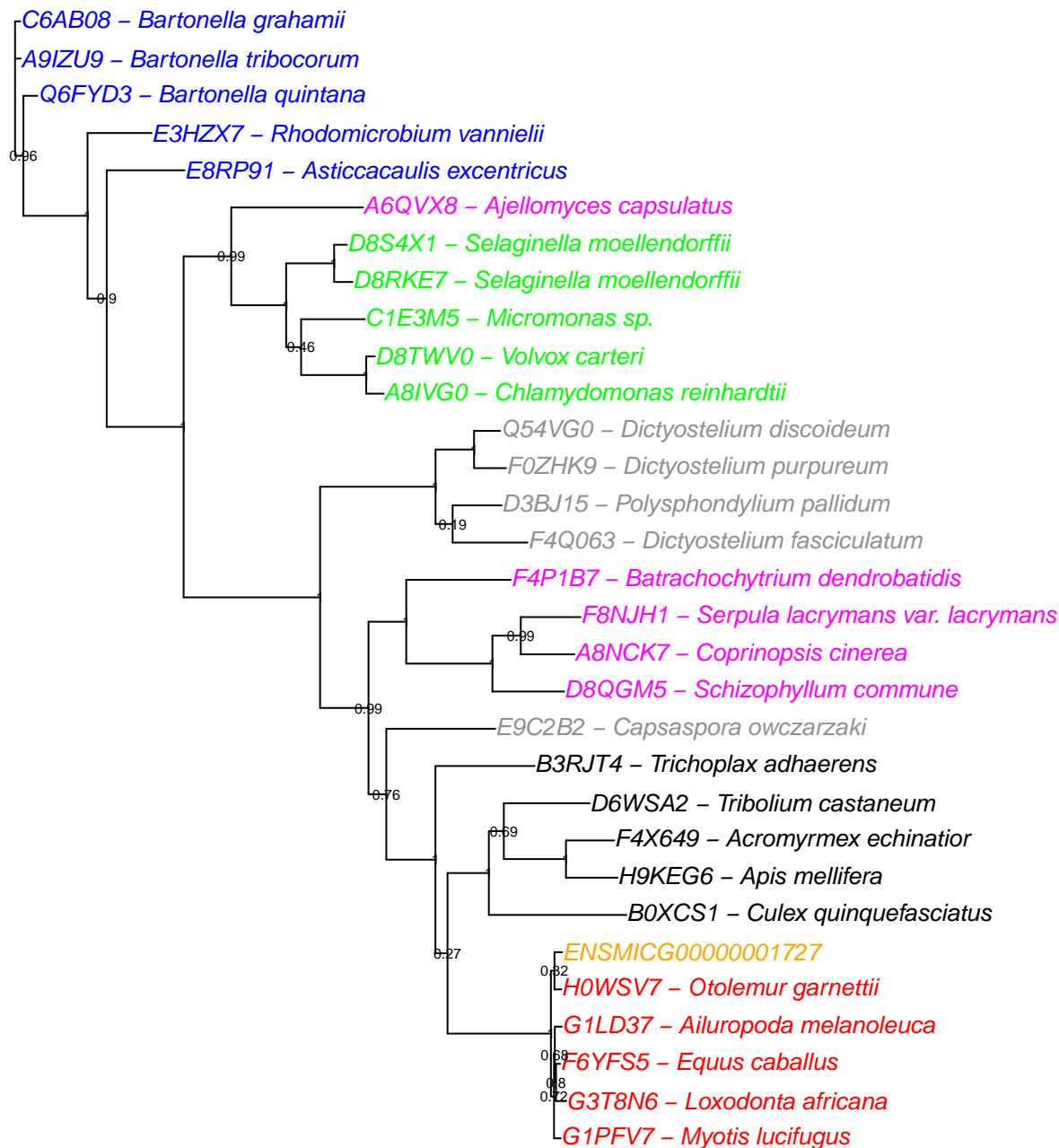




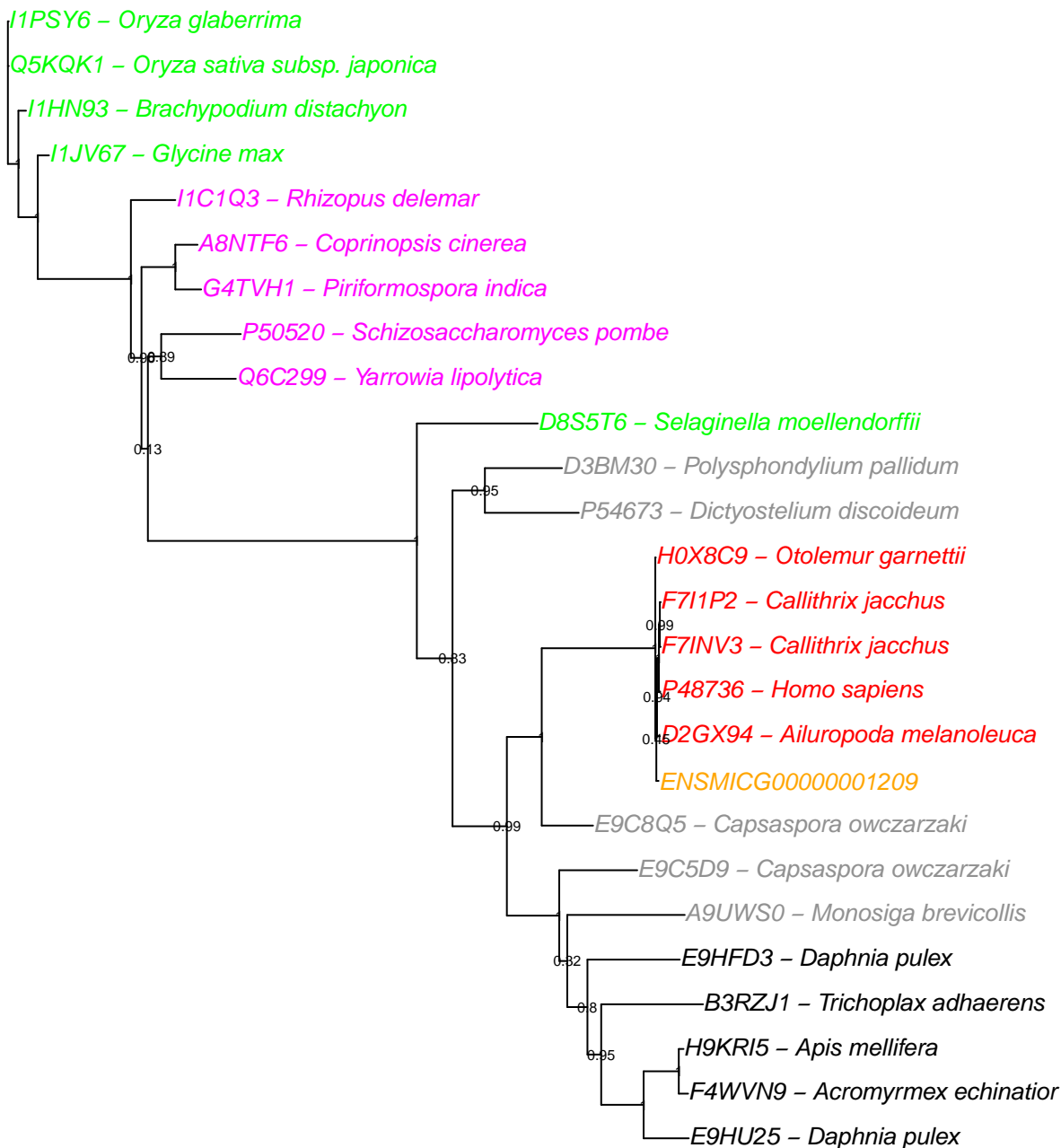
D7KXF8 – *Arabidopsis lyrata* subsp. *lyrata*

Q9XIE6 – *Arabidopsis thaliana*









G0SCD7 – *Chaetomium thermophilum*

D7KL77 – *Arabidopsis lyrata* subsp. *lyrata*

Q9C8P5 – *Arabidopsis thaliana*

F1N2I5 – *Bos taurus*

F6UL42 – *Equus caballus*

D2H9W7 – *Ailuropoda melanoleuca*

G1Q4E3 – *Myotis lucifugus*

H0XGD9 – *Otolemur garnettii*

ENSMICG00000000533

C4YA67 – *Clavispora lusitaniae*

E9DJR5 – *Coccidioides posadasii*

C5NZC7 – *Coccidioides posadasii*

Q0TX53 – *Phaeosphaeria nodorum*

B6QLV4 – *Penicillium marneffeii*

D2VT28 – *Naegleria gruberi*

I1PVF3 – *Oryza glaberrima*

Q688M9 – *Oryza sativa* subsp. *japonica*

Q0DID5 – *Oryza sativa* subsp. *japonica*

H2KRB2 – *Clonorchis sinensis*

A9UUI2 – *Monosiga brevicollis*

F2U1G5 – *Salpingoeca rosetta*

A4HQH7 – *Leishmania braziliensis*

A4ICB3 – *Leishmania infantum*

A3CTZ7 – *Methanoculleus marisnigri*

G7WL46 – *Methanosaeta harundinacea*

Q8PUA9 – *Methanosarcina mazei*

D5VQ64 – *Caulobacter segnis*

B4RD06 – *Phenylobacterium zucineum*

Q6KZY9 – *Picrophilus torridus*

A8M996 – *Caldivirga maquilingensis*

G2LEN1 – *Chloracidobacterium thermophilum*

O67802 – *Aquifex aeolicus*

B4U9S3 – *Hydrogenobaculum* sp.

