

F0K448 – *Clostridium acetobutylicum*

Q97FK1 – *Clostridium acetobutylicum*

0.72
A6VGS8 – *Methanococcus maripaludis*

A9A9X2 – *Methanococcus maripaludis*

P62134 – *Methanococcus maripaludis*

E3GXW0 – *Methanothermus fervidus*

C5YG07 – *Sorghum bicolor*

Q7XN10 – *Oryza sativa subsp. japonica*

0.608

A5DLM2 – *Meyerozyma guilliermondii*

C5DRX7 – *Zygosaccharomyces rouxii*

0.99
G0WAE5 – *Naumovozyma dairenensis*

0.41
Q6FWE0 – *Candida glabrata*

C4Y4J5 – *Clavispora lusitaniae*

C4M610 – *Entamoeba histolytica*

0.9
C0H491 – *Plasmodium falciparum*

Q2NHV1 – *Methanosphaera stadtmanae*

0.72
A2DLG0 – *Trichomonas vaginalis*

0.66
B3PMC3 – *Mycoplasma arthritidis*

0.78
Q7XXP7 – *Oryza sativa subsp. japonica*

0.76
A2DDP2 – *Trichomonas vaginalis*

0.39
A2DDX5 – *Trichomonas vaginalis*

0.79
I1KPI6 – *Glycine max*

0.6
I1NQB0 – *Oryza glaberrima*

0.92
H9KL55 – *Apis mellifera*

E0W1V0 – *Pediculus humanus subsp. corporis*

0.87
B4MWD3 – *Drosophila willistoni*

0.79
D6WR83 – *Tribolium castaneum*

0.56
B7K8Y7 – *Cyanothece sp.*

0.72
B1X1R5 – *Cyanothece sp.*

0.62
G1RKA8 – *Nomascus leucogenys*

H2R9W9 – *Pan troglodytes*

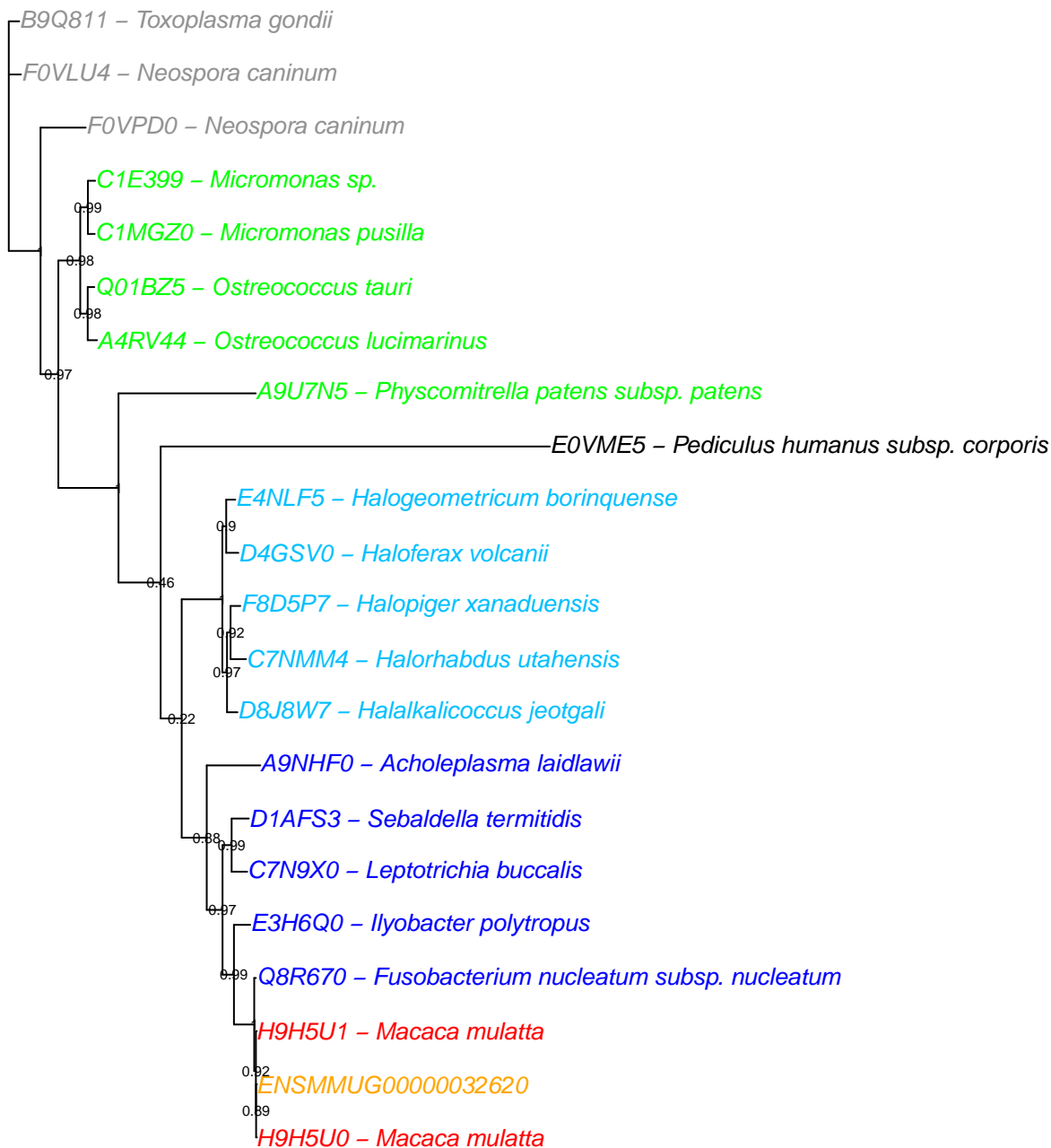
Q8TBZ0 – *Homo sapiens*

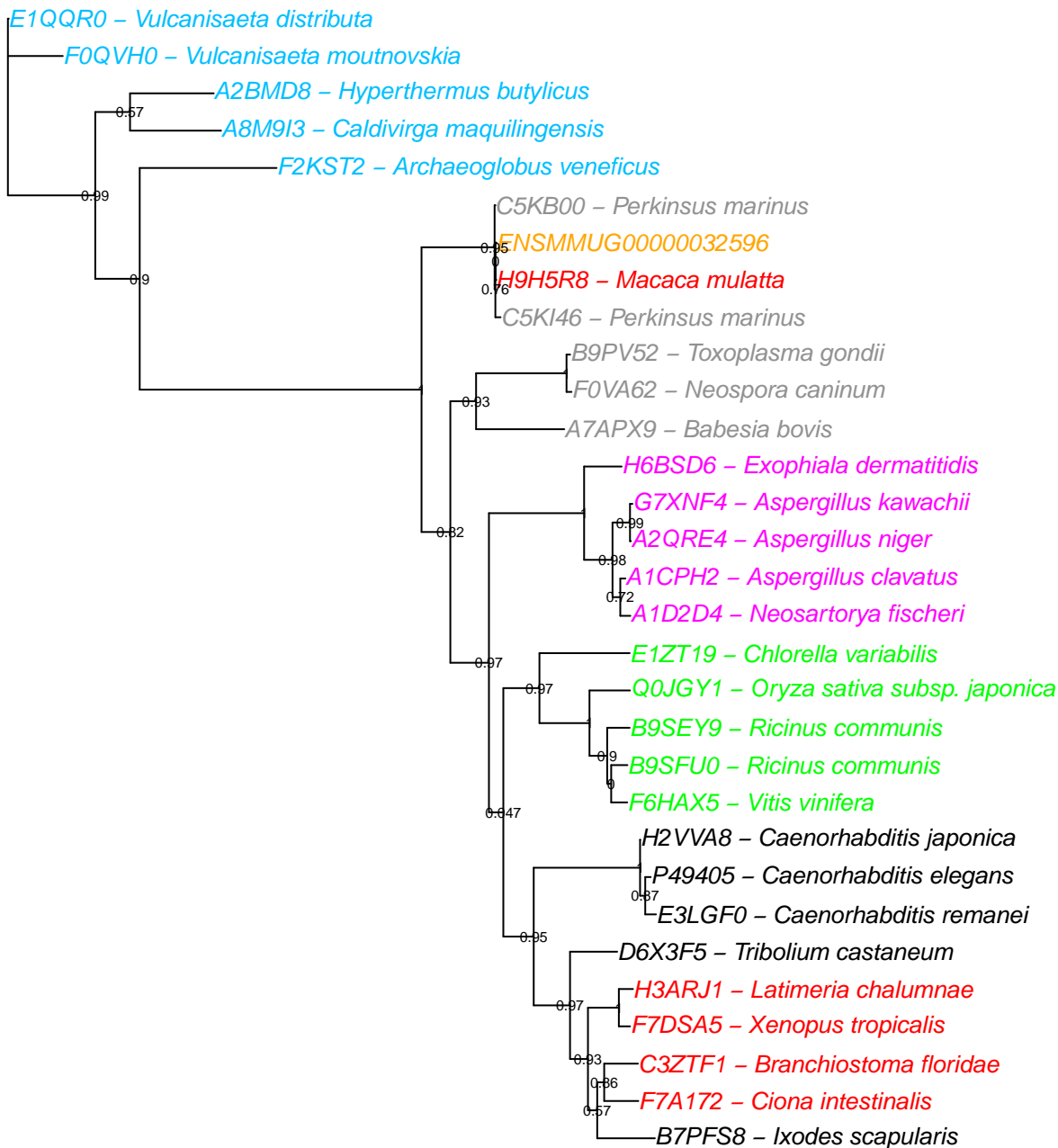
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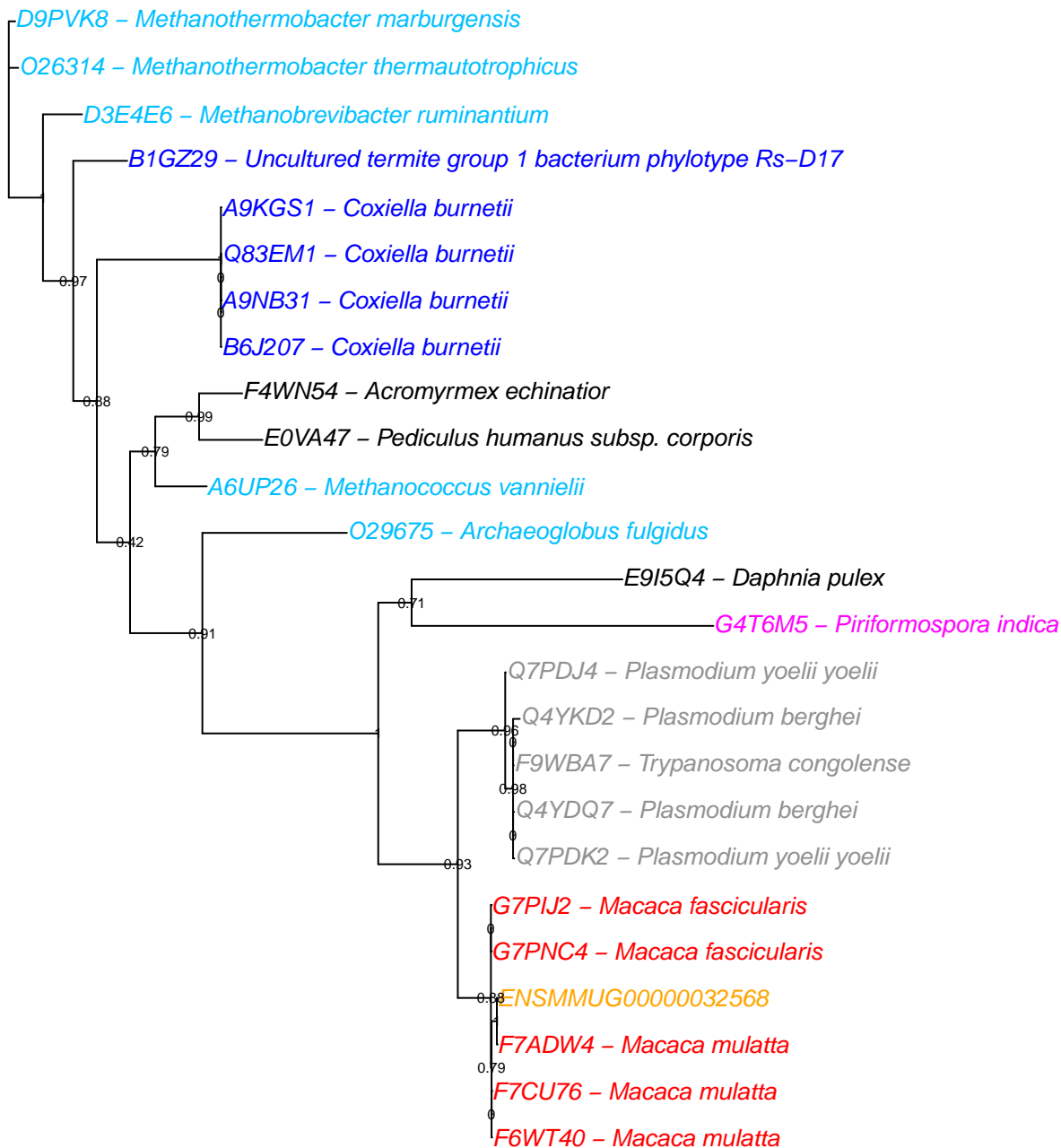
F6YLL7 – *Macaca mulatta*

G7P6P0 – *Macaca fascicularis*

B3MF02 – *Drosophila ananassae*







I1IE74 – *Brachypodium distachyon*

-F4P1Y7 – *Batrachochytrium dendrobatidis*

ENSMMUG00000032466

H9H5M7 – Macaca mulatta

C5KPW1 – *Perkinsus marinus*

F0VMT1 – Neospora caninum

Q3S2E8 – *Toxoplasma gondii*

— B6ADE6 – *Cryptosporidium muris*

Q5CX44 – *Cryptosporidium parvum*

-B3RJW7 - *Trichoplax adhaerens*

-F4PEM7 – *Batrachochytrium dendrobatidis*

A1Q4 – *Camponotus floridanus*

4WNJ7 – *Acromyrmex echinator*

-H3A0Z1 – *Latimeria chalumnae*

-H0Z5H9 – *Taeniopygia guttata*

G1NSLO – *Myotis lucifugus*

E2QTV7 – *Canis familiaris*

-B3RTM5 – *Trichoplax adhaerens*

-H2KVR0 – *Clonorchis sinensis*

– F4P836 – *Batrachochytrium dendrobatidis*

E1WN57 – Bacteroides fragilis

Q64U52 – *Bacteroides fragilis*

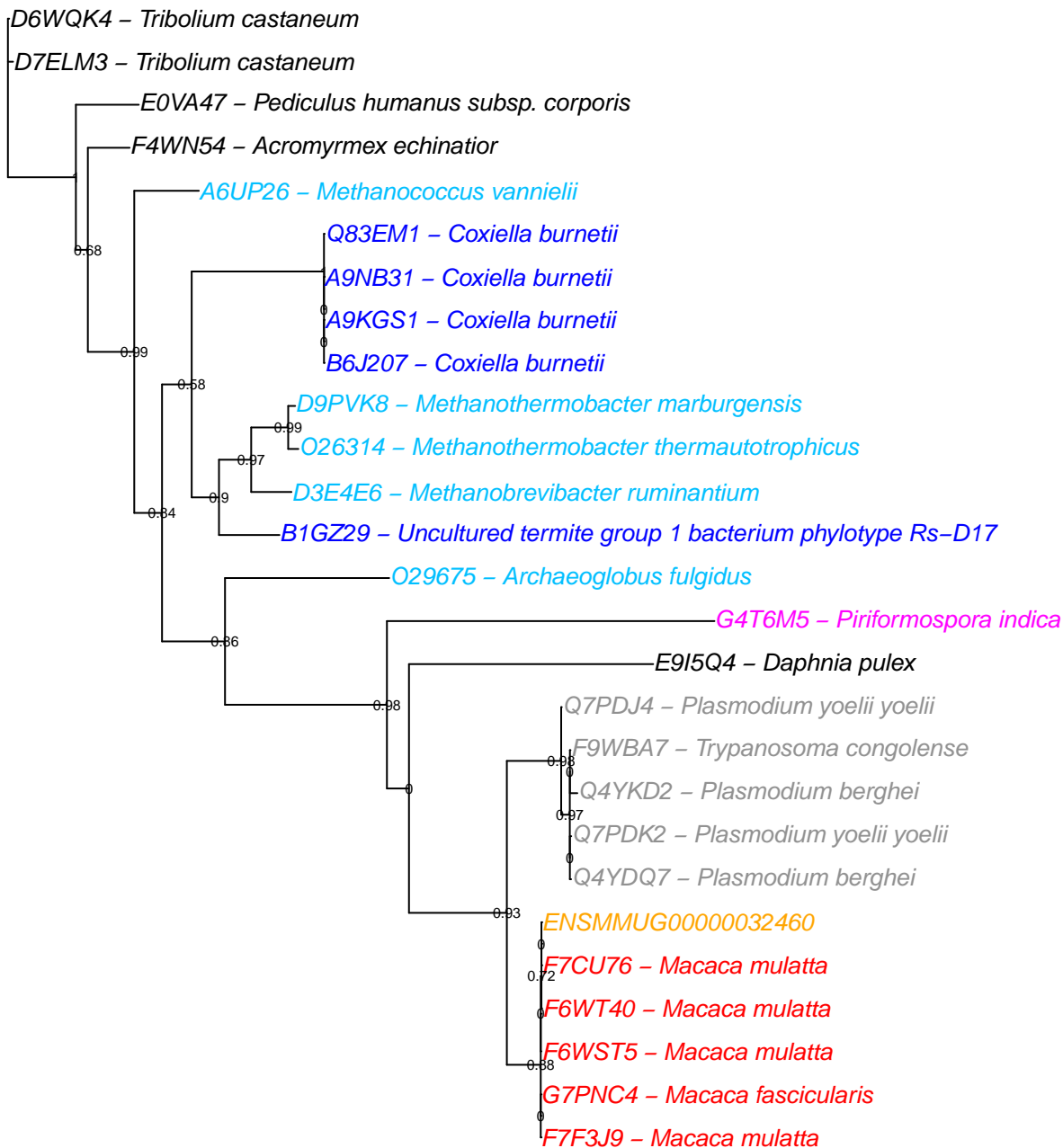
Q5LD38 – *Bacteroides fragilis*

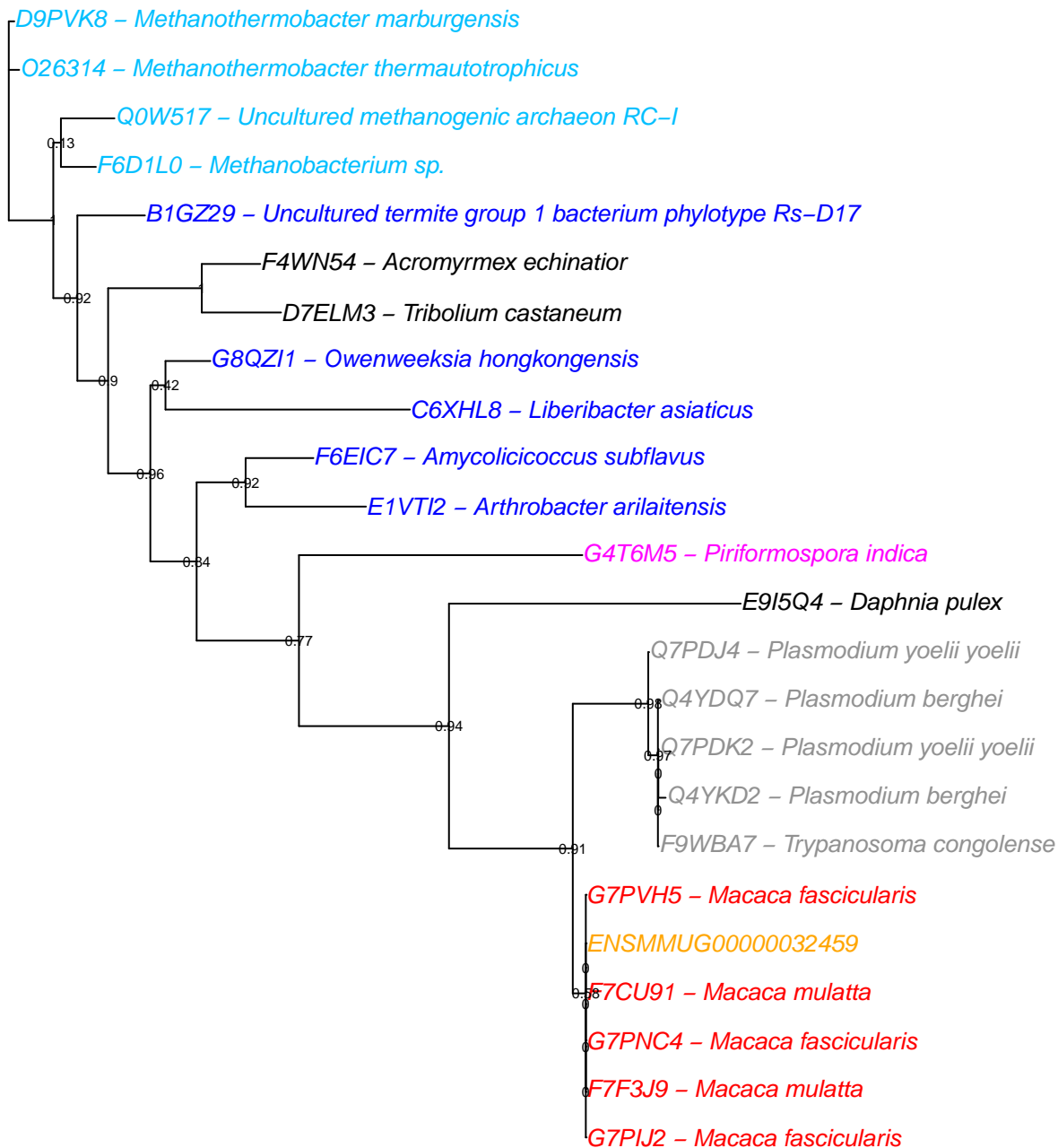
-F0R0H9 – *Bacteroides salanitronis*

F9ZA05 – Odoribacter splanchnicus

-E1ZK15 – *Chlorella variabilis*

-A4S2J4 – *Ostreococcus lucimarinus*





Q5VQJ8 – *Oryza sativa* subsp. *japonica*

Q0JIH6 – *Oryza sativa* subsp. *japonica*

I1NSG2 – *Oryza glaberrima*

C5XMH1 – *Sorghum bicolor*

F4WN54 – *Acromyrmex echinator*

D6WQK4 – *Tribolium castaneum*

F0RHL9 – *Cellulophaga lytica*

E9I5Q4 – *Daphnia pulex*

F6VHV6 – *Macaca mulatta*

ENSMMUG00000032432

F7D695 – *Macaca mulatta*

G7NX91 – *Macaca fascicularis*

H2RGU3 – *Pan troglodytes*

F6PMG0 – *Macaca mulatta*

Q7PDJ4 – *Plasmodium yoelii yoelii*

Q4Y9K5 – *Plasmodium berghei*

F9WBA7 – *Trypanosoma congolense*

Q7PDK2 – *Plasmodium yoelii yoelii*

Q4YDQ7 – *Plasmodium berghei*

F4CFD7 – *Sphingobacterium* sp.

G4T6M5 – *Piriformospora indica*

D9PVK8 – *Methanothermobacter marburgensis*

O26314 – *Methanothermobacter thermautotrophicus*

D3E4E6 – *Methanobrevibacter ruminantium*

F6D1L0 – *Methanobacterium* sp.

B1GZ29 – *Uncultured termite group 1 bacterium phylotype Rs-D17*

Q894D8 – *Clostridium tetani*

C3KVB6 – *Clostridium botulinum*

A6UP26 – *Methanococcus vannielii*

Q83EM1 – *Coxiella burnetii*

Q466R9 – *Methanosarcina barkeri*

E3HBI8 – Ilyobacter polytropus

-A6UP26 – *Methanococcus vannieli*

-E0VA47 – *Pediculus humanus subsp. corporis*

-D6WQK4 – *Tribolium castaneum*

G6DB75 – *Danaus plexippus*

F4WN54 – *Acromyrmex echinator*

-F4PCH2 – *Batrachochytrium dendrobatidis*

I1NSG2 – *Oryza glaberrima*

Q5VQJ8 – *Oryza sativa* subsp. *japonica*

Q0JIH6 – *Oryza sativa* subsp. *japonica*

-C5XMH1 – *Sorghum bicolor*

– G4T6M5 – *Piriformospora indica*

Q7PDJ4 – *Plasmodium yoelii yoelii*

Q4YDQ7 – *Plasmodium berghei*

Q7PDK2 – *Plasmodium yoelii yoelii*

F9WBA7 – *Trypanosoma congolense*

Q4YKD2 – *Plasmodium berghei*

–E9I5Q4 – *Daphnia pulex*

H2RGU3 – Pan troglodytes

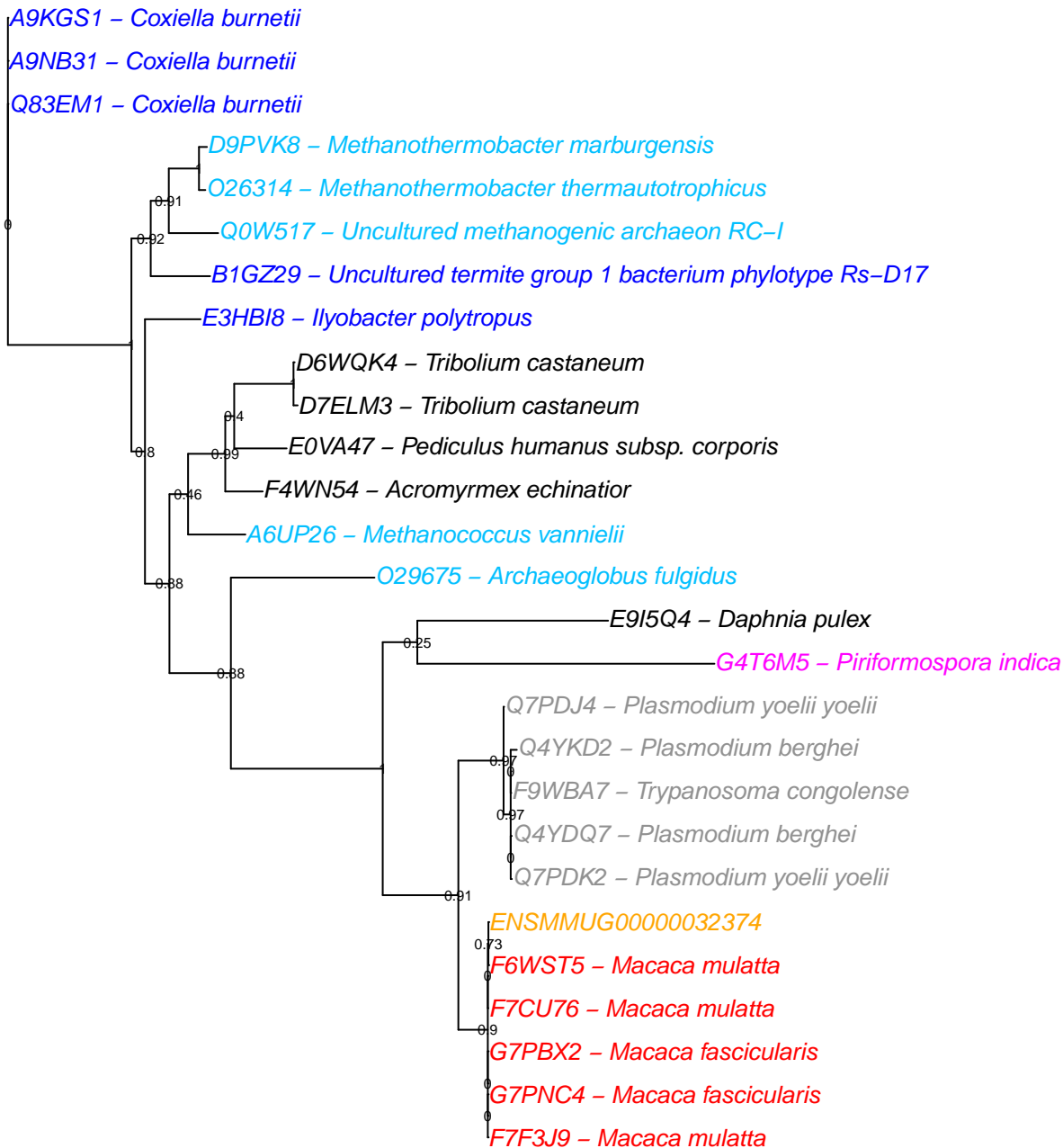
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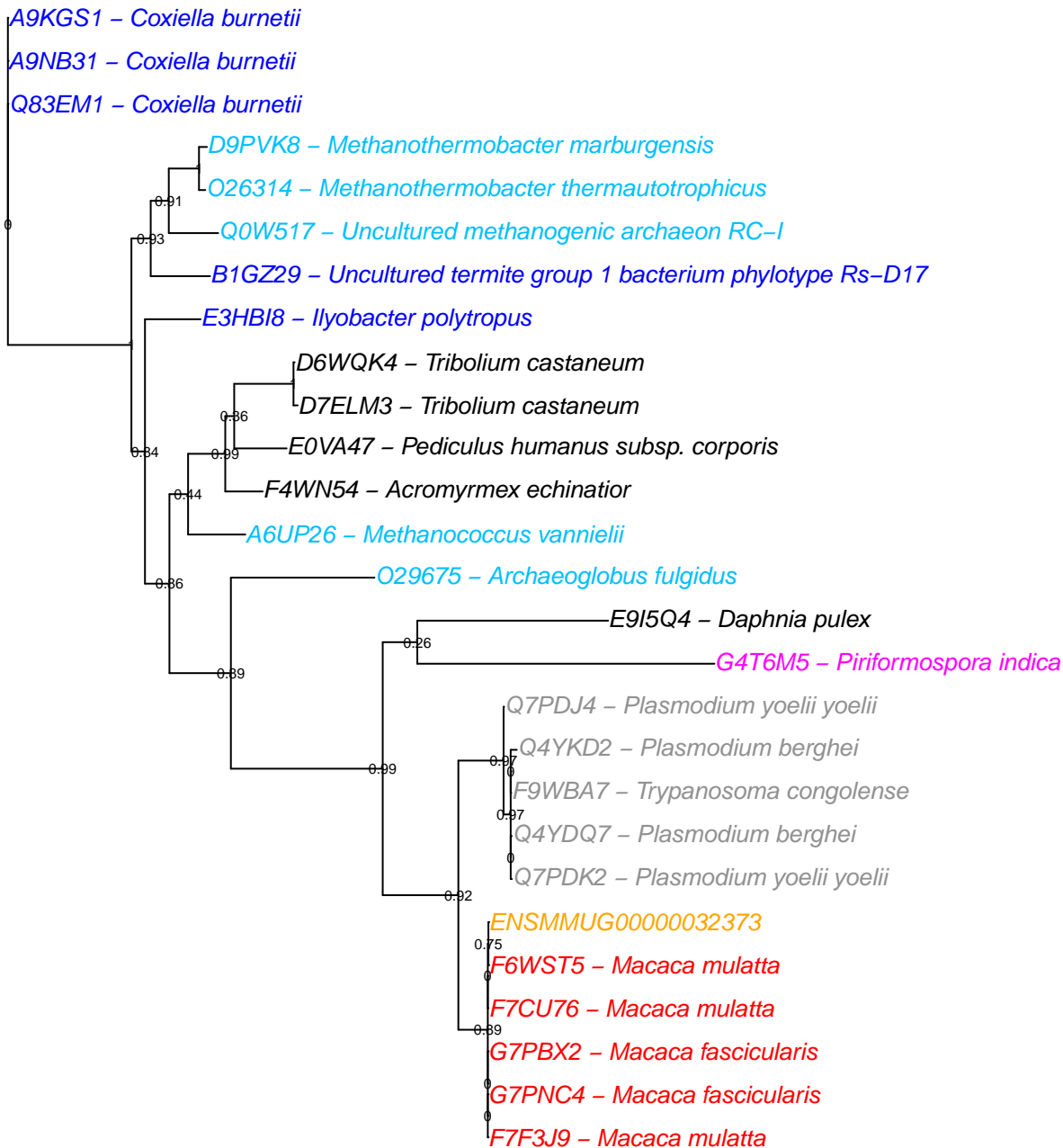
F6V2K1 – Macaca mulatta

12 G8F2K2 – *Macaca fascicularis*

F7FU52 – *Macaca mulatta*

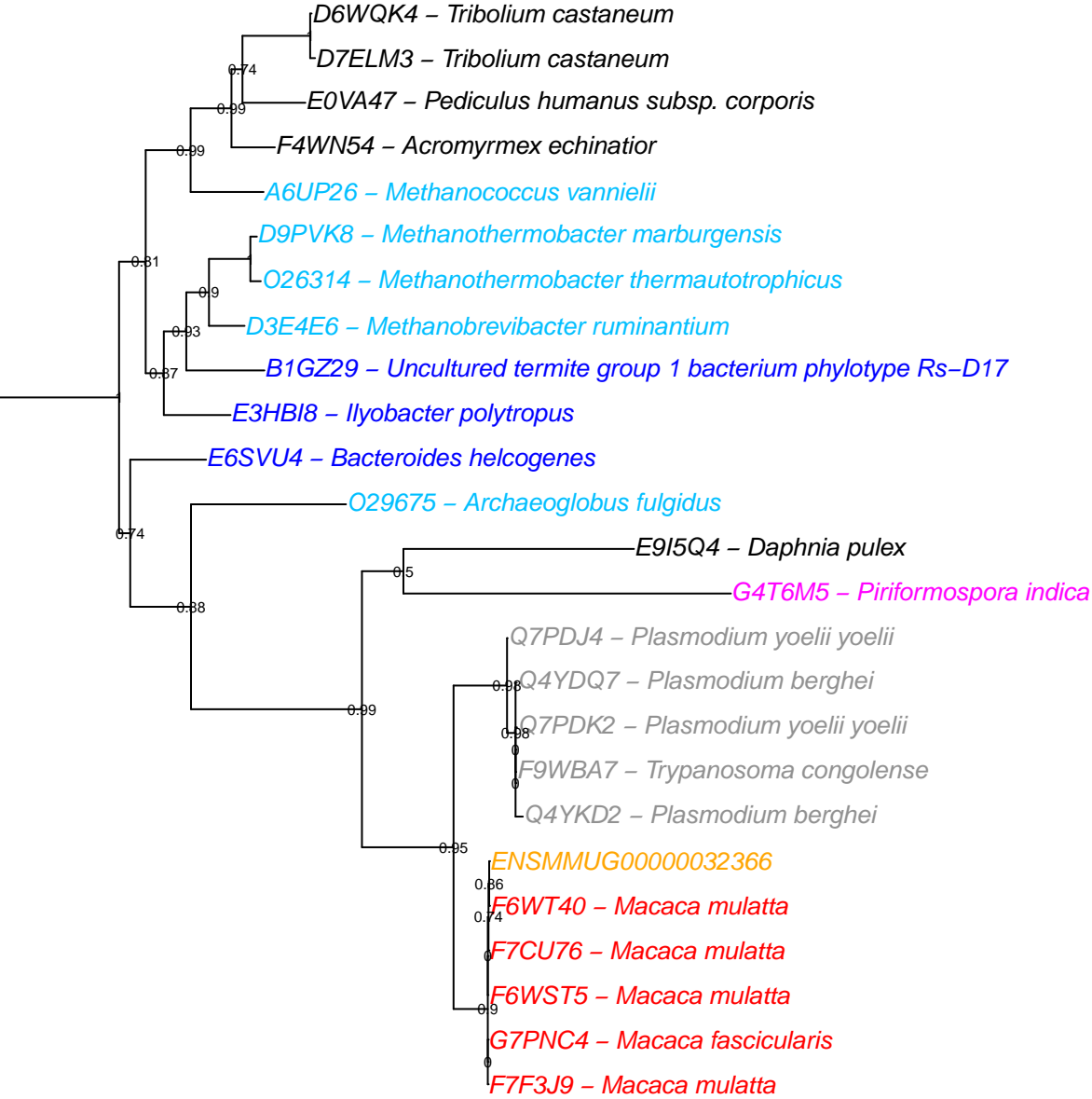
G7NX91 – *Macaca fascicularis*

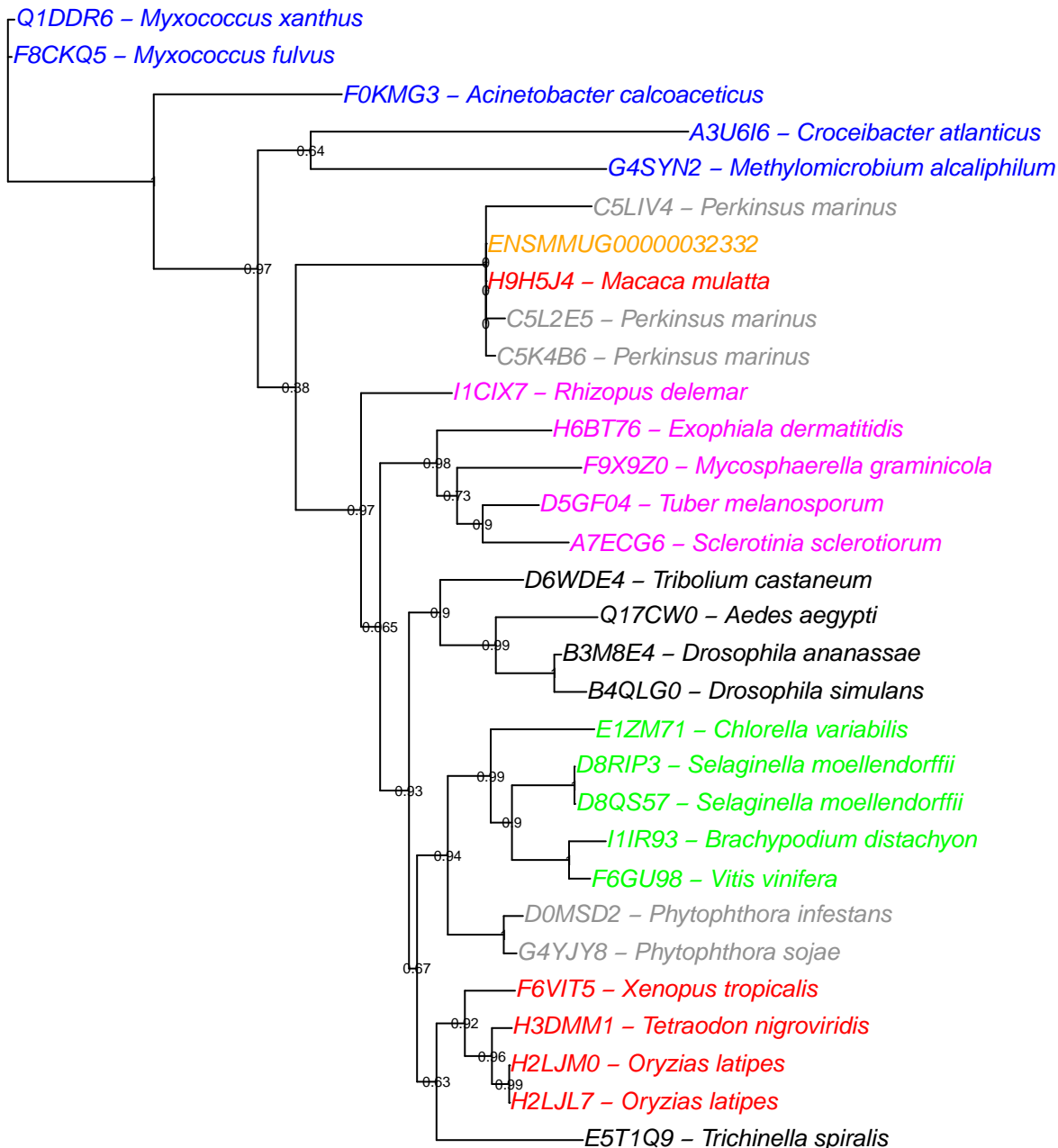


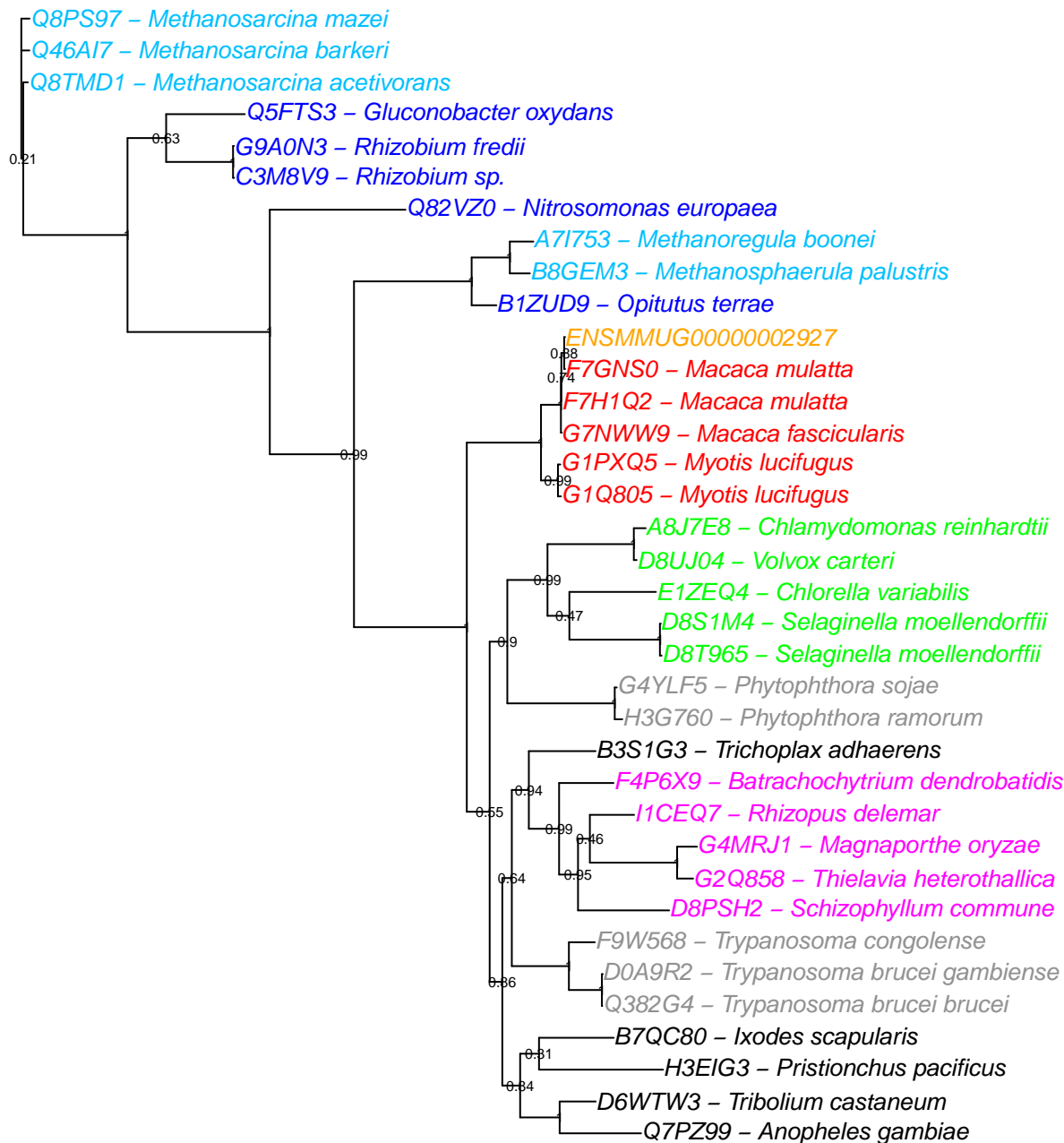


Q83EM1 – *Coxiella burnetii*

A9KGS1 – *Coxiella burnetii*







G7E538 – *Mixia osmundae*

G7E539 – *Mixia osmundae*

F4PCH2 – *Batrachochytrium dendrobatidis*

O29675 – *Archaeoglobus fulgidus*

E9I5Q4 – *Daphnia pulex*

G4T6M5 – *Piriformospora indica*

G7NX91 – *Macaca fascicularis*

G8F2K2 – *Macaca fascicularis*

G7PBX2 – *Macaca fascicularis*

ENSMMUG00000032178

F7FU52 – *Macaca mulatta*

G7P7Y7 – *Macaca fascicularis*

Q7PDJ4 – *Plasmodium yoelii yoelii*

Q7PDK2 – *Plasmodium yoelii yoelii*

F9WBA7 – *Trypanosoma congolense*

Q4YDQ7 – *Plasmodium berghei*

Q4YKD2 – *Plasmodium berghei*

E0VA47 – *Pediculus humanus subsp. corporis*

F4WN54 – *Acromyrmex echinator*

D6WQK4 – *Tribolium castaneum*

G6DB75 – *Danaus plexippus*

C5XMH1 – *Sorghum bicolor*

J1NSG2 – *Oryza glaberrima*

Q5VQJ8 – *Oryza sativa subsp. japonica*

Q0JIH6 – *Oryza sativa subsp. japonica*

C5XMH0 – *Sorghum bicolor*

A6UP26 – *Methanococcus vanniellii*

E3HB18 – *Ilyobacter polytropus*

D9PVK8 – *Methanothermobacter marburgensis*

O26314 – *Methanothermobacter thermautotrophicus*

Q0W517 – *Uncultured methanogenic archaeon RC-I*

C3KVB6 – *Clostridium botulinum*

F4CFD7 – *Sphingobacterium sp.*

Q5LC81 – *Bacteroides fragilis*

E1WPK9 – *Bacteroides fragilis*

D8SE04 – *Selaginella moellendorffii*

D8QXH7 – *Selaginella moellendorffii*

F6H9P9 – *Vitis vinifera*

O23960 – *Glycine max*

D8UF54 – *Volvox carteri*

D9PV36 – *Methanothermobacter marburgensis*

Q12TE9 – *Methanococcoides burtonii*

D7E897 – *Methanohalobium evestigatum*

Q8PVX7 – *Methanosarcina mazei*

Q46C58 – *Methanosarcina barkeri*

F6TWU9 – *Ciona intestinalis*

C3Z4S2 – *Branchiostoma floridae*

Q05920 – *Mus musculus*

G3SMQ9 – *Loxodonta africana*

Q28XA7 – *Drosophila pseudoobscura pseudoobscura*

B4H585 – *Drosophila persimilis*

B4KMG3 – *Drosophila mojavensis*

B4J5U0 – *Drosophila grimshawi*

B4MKA9 – *Drosophila willistoni*

Q48BM5 – *Pseudomonas syringae* pv. *phaseolicola*

Q4K3G7 – *Pseudomonas fluorescens*

Q3K4C8 – *Pseudomonas fluorescens*

F2K751 – *Pseudomonas brassicacearum*

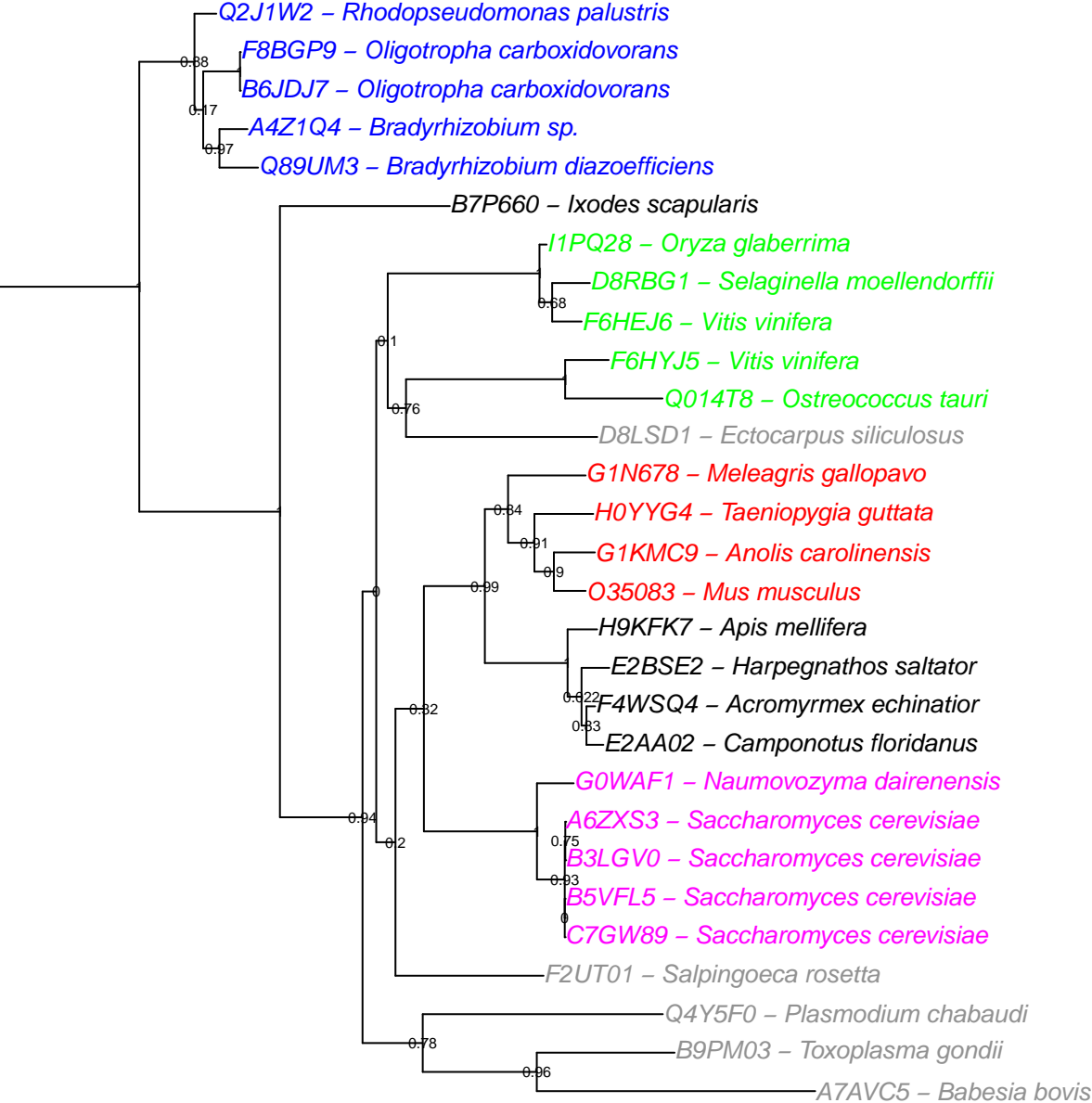
C3K4F7 – *Pseudomonas fluorescens*

ENSMMUG00000032164

H9H5H1 – *Macaca mulatta*

ENSMMUG00000032162

H9H5H0 – *Macaca mulatta*



G7E538 – *Mixia osmundae*

G7E539 – *Mixia osmundae*

F4PCH2 – *Batrachochytrium dendrobatidis*

E0VA47 – *Pediculus humanus* subsp. *corporis*

0.97 F4WN54 – *Acromyrmex echinator*

0.92 D6WQK4 – *Tribolium castaneum*

0.96 G6DB75 – *Danaus plexippus*

I1NSG2 – *Oryza glaberrima*

0.79 Q5VQJ8 – *Oryza sativa* subsp. *japonica*

0.95 Q0JIH6 – *Oryza sativa* subsp. *japonica*

C5XMH0 – *Sorghum bicolor*

I1HSI8 – *Brachypodium distachyon*

0.25 A6UP26 – *Methanococcus vanniellii*

E9I5Q4 – *Daphnia pulex*

0.19 G4T6M5 – *Piriformospora indica*

0.83 G7PBX2 – *Macaca fascicularis*

0.83 G7P7Y7 – *Macaca fascicularis*

0.99 FNSMMUG00000032161

0.99 F7G592 – *Macaca mulatta*

0.99 G8F2K2 – *Macaca fascicularis*

0.99 G7NX91 – *Macaca fascicularis*

Q7PDJ4 – *Plasmodium yoelii* *yoelii*

Q7PDK2 – *Plasmodium yoelii* *yoelii*

0.99 F9WBA7 – *Trypanosoma congolense*

0.99 Q4YDQ7 – *Plasmodium berghei*

Q4YKD2 – *Plasmodium berghei*

0.51 D9PVK8 – *Methanothermobacter marburgensis*

0.94 O26314 – *Methanothermobacter thermautotrophicus*

0.95 D3E4E6 – *Methanobrevibacter ruminantium*

0.42 Q466R9 – *Methanosarcina barkeri*

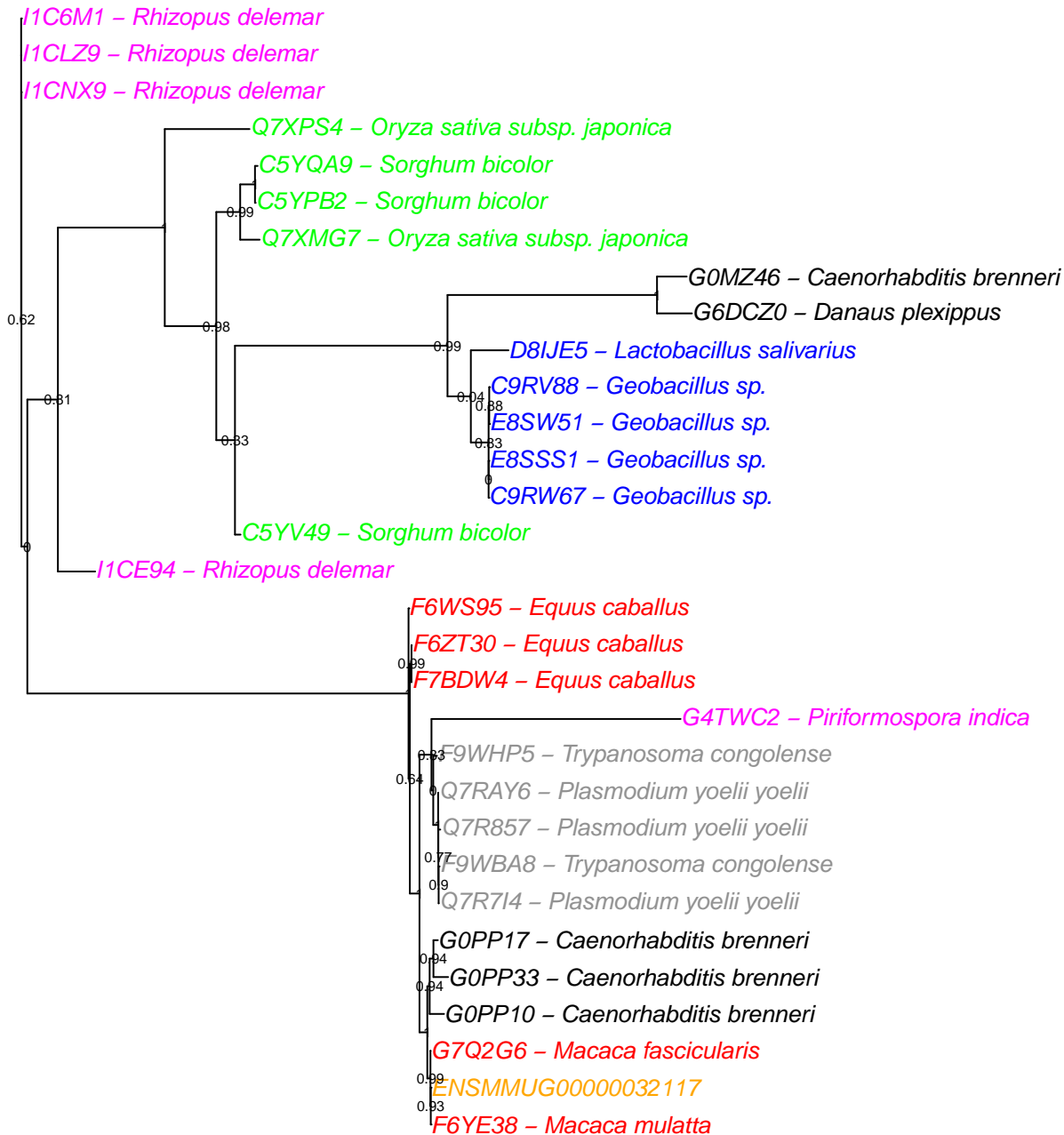
E3HBI8 – *Ilyobacter polytropus*

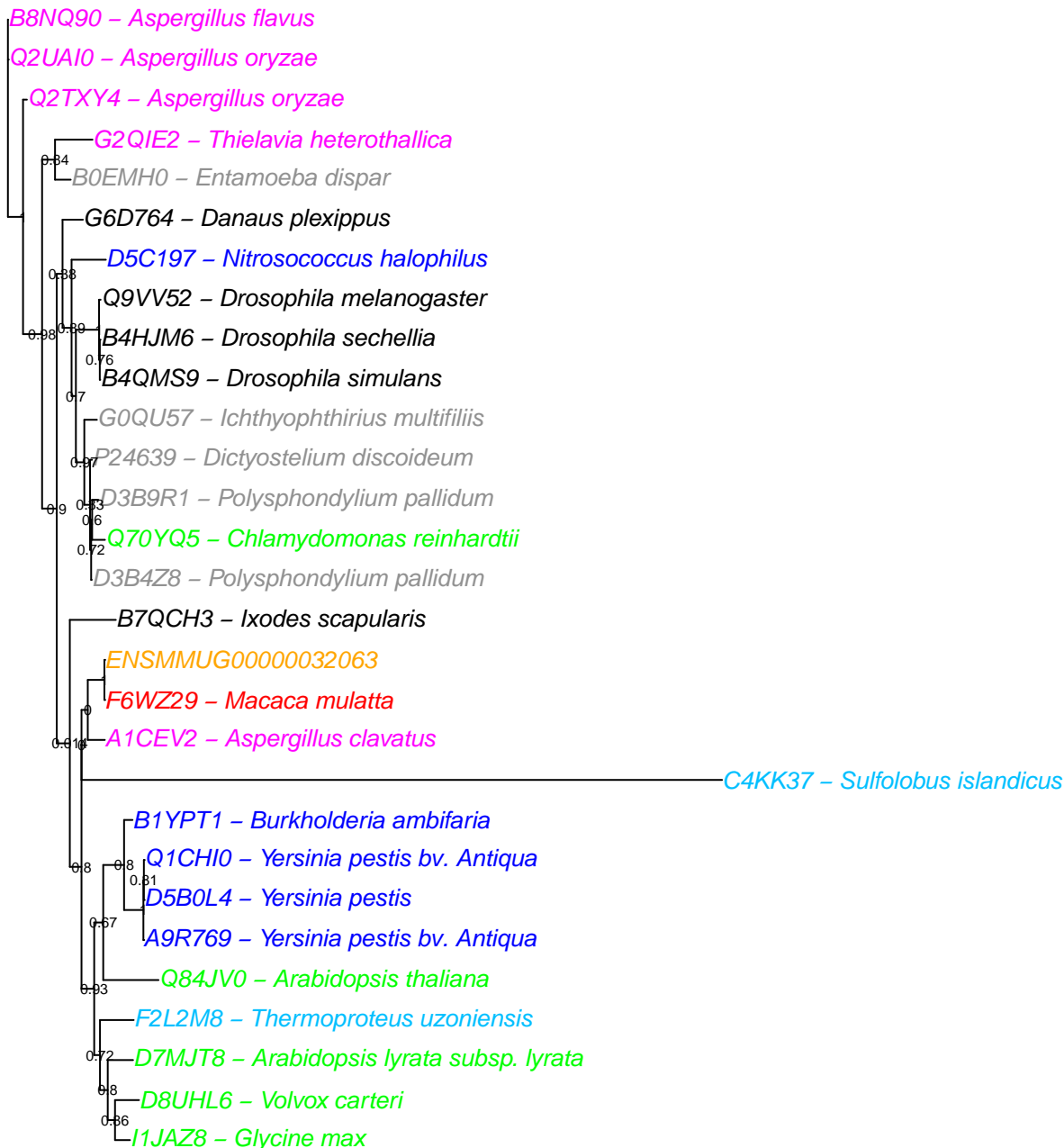
0.51 E1WPK9 – *Bacteroides fragilis*

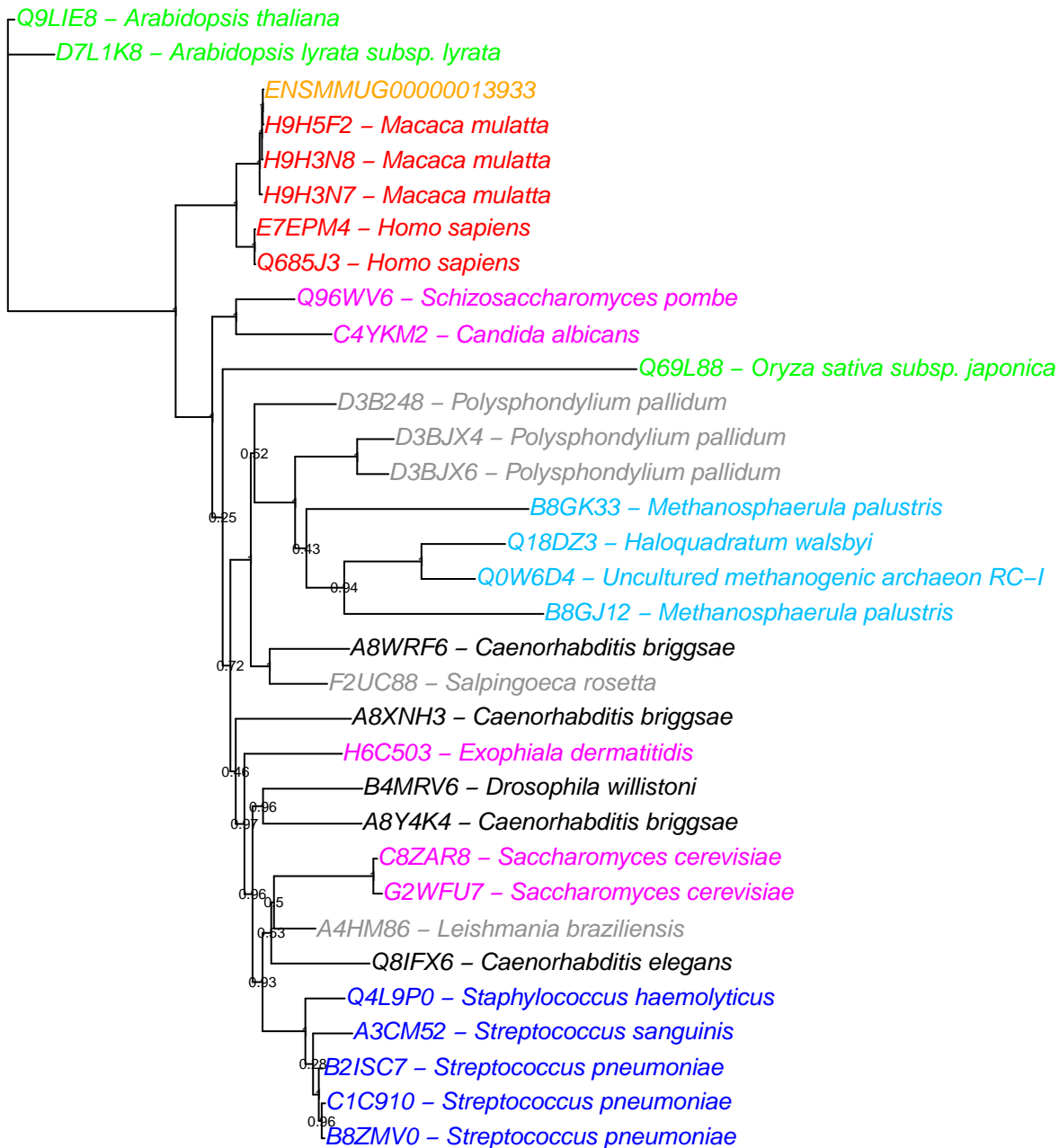
Q5LC81 – *Bacteroides fragilis*

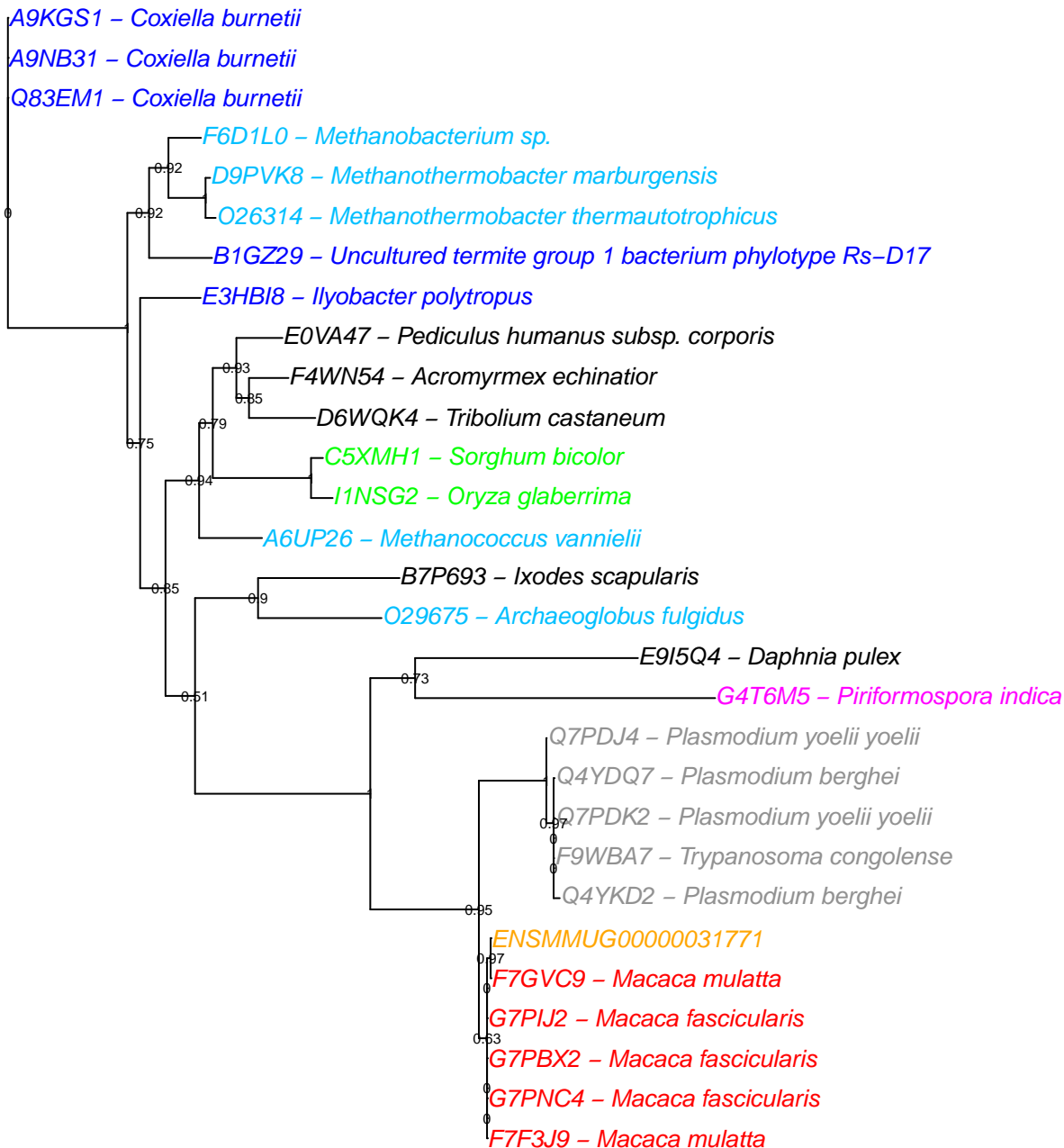
Q64T70 – *Bacteroides fragilis*

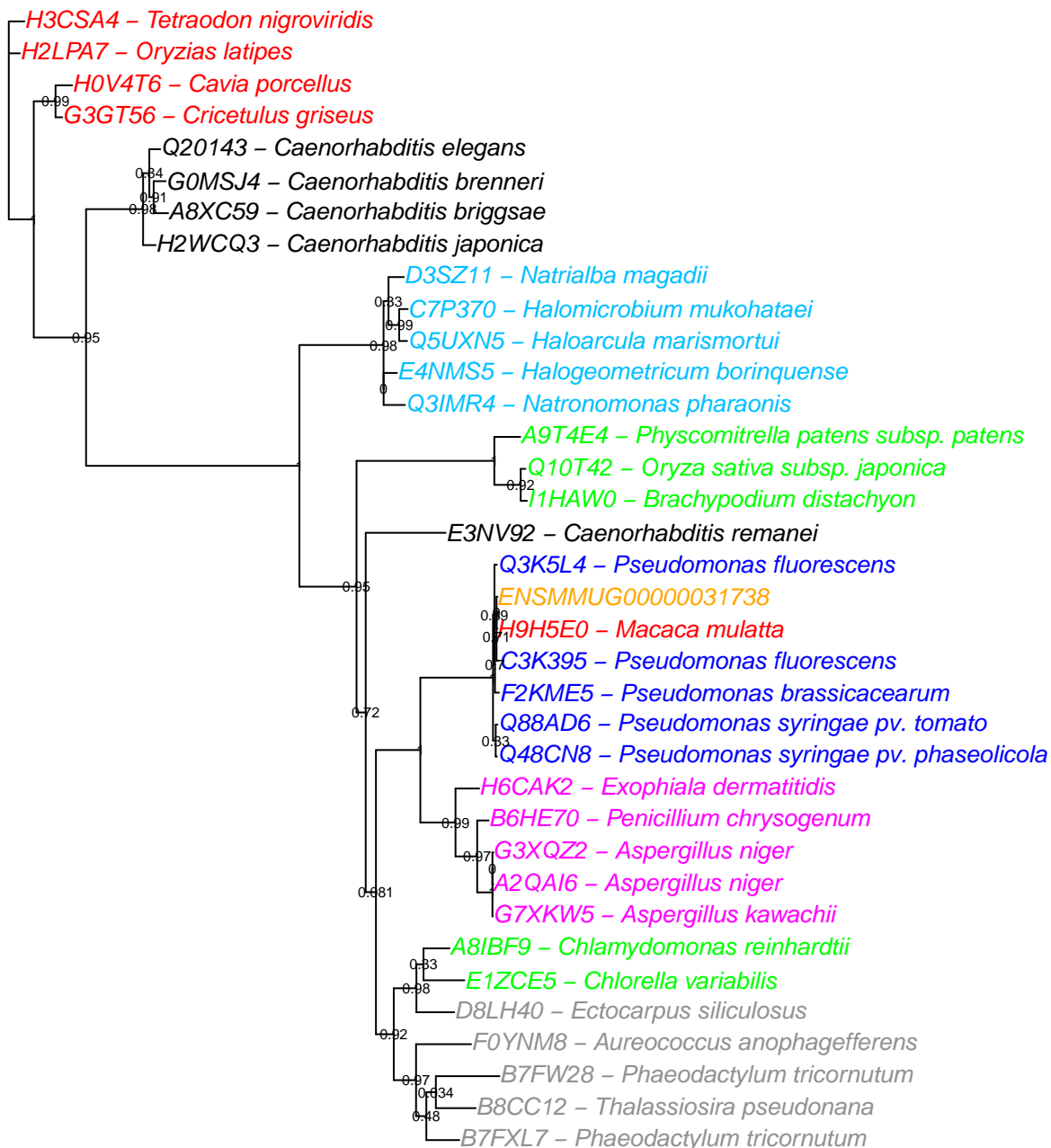
F4CFD7 – *Sphingobacterium* sp.











F6YE38 – *Macaca mulatta*

G7Q2G6 – *Macaca fascicularis*

G0PP17 – *Caenorhabditis brenneri*

G7Q3D4 – *Macaca fascicularis*

F7GPM3 – *Macaca mulatta*

ENSMMUG00000031712

F7CVW4 – *Macaca mulatta*

G0PP10 – *Caenorhabditis brenneri*

G0PP33 – *Caenorhabditis brenneri*

F9WHP5 – *Trypanosoma congolense*

Q7R7I4 – *Plasmodium yoelii yoelii*

F9WBA8 – *Trypanosoma congolense*

Q7R857 – *Plasmodium yoelii yoelii*

Q7RAY6 – *Plasmodium yoelii yoelii*

0.63

0.84

0.97

0.87

0.95

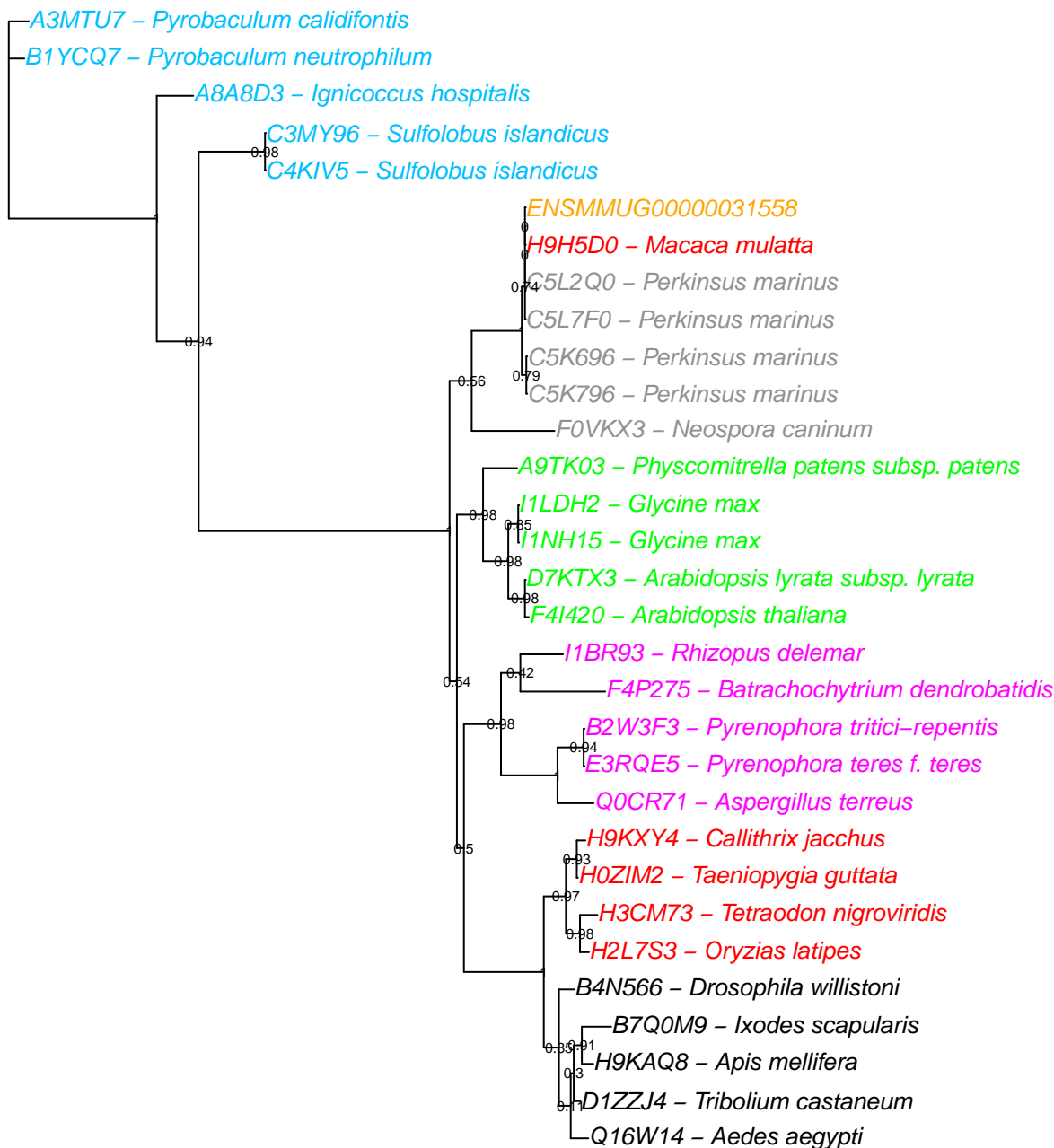
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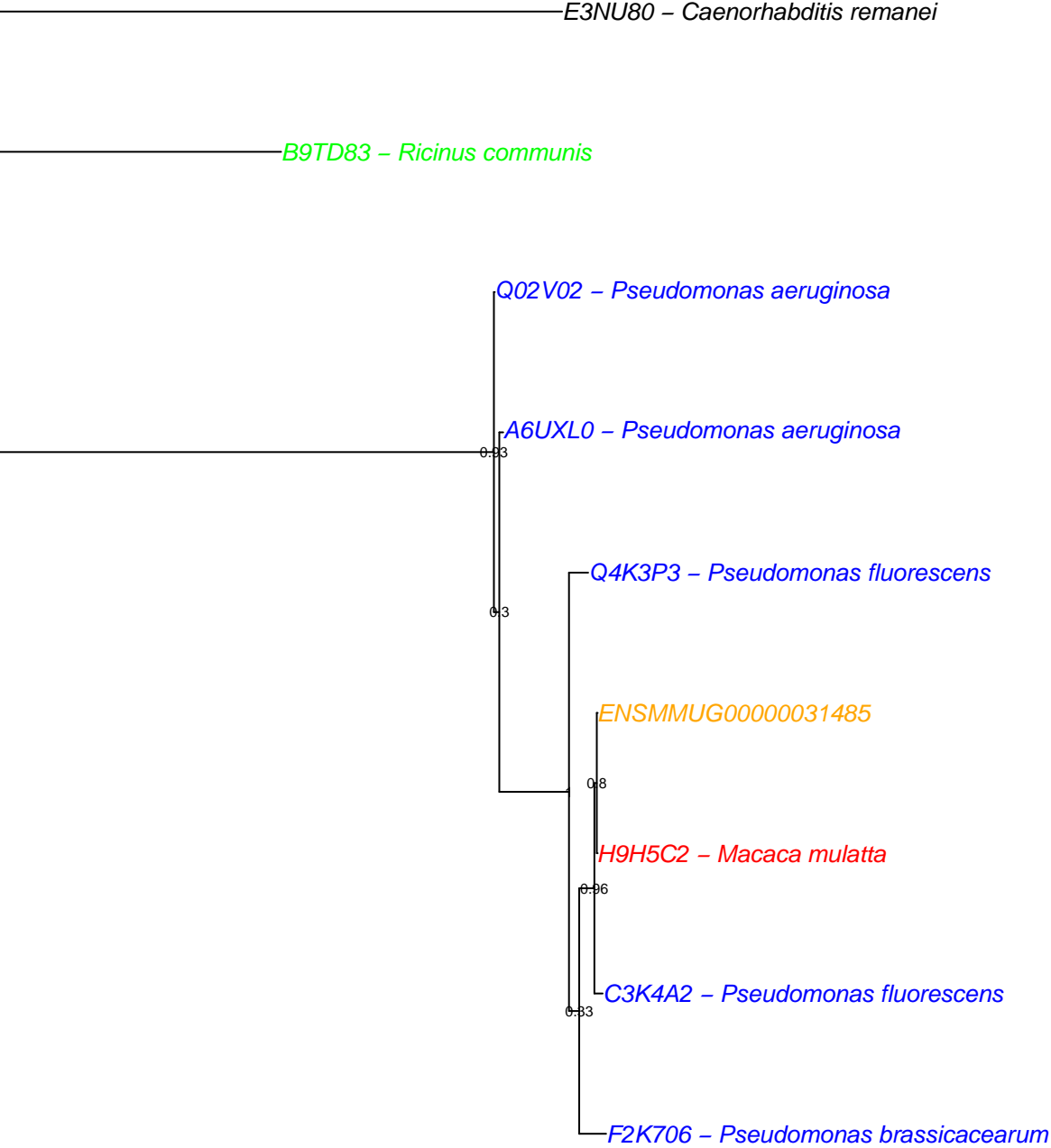
0.77

0.96

0







Q382W2 – *Trypanosoma brucei brucei*

D0A993 – *Trypanosoma brucei gambiense*

Q53PH3 – *Oryza sativa subsp. japonica*

A8MRY1 – *Arabidopsis thaliana*

0.93

Q6NL06 – *Arabidopsis thaliana*

0.93

D7KAV0 – *Arabidopsis lyrata subsp. lyrata*

I1K556 – *Glycine max*

E9CE72 – *Capsaspora owczarzaki*

ENSMMUG00000015468

0.98

F7GD66 – *Macaca mulatta*

F6QA80 – *Macaca mulatta*

F6QF36 – *Equus caballus*

Q96EP1 – *Homo sapiens*

H2NJ81 – *Pongo abelii*

B3S4K2 – *Trichoplax adhaerens*

G4LV31 – *Schistosoma mansoni*

G7YLN4 – *Clonorchis sinensis*

F0Z9N0 – *Dictyostelium purpureum*

Q54X17 – *Dictyostelium discoideum*

B0CVB3 – *Laccaria bicolor*

G7DYR0 – *Mixia osmundae*

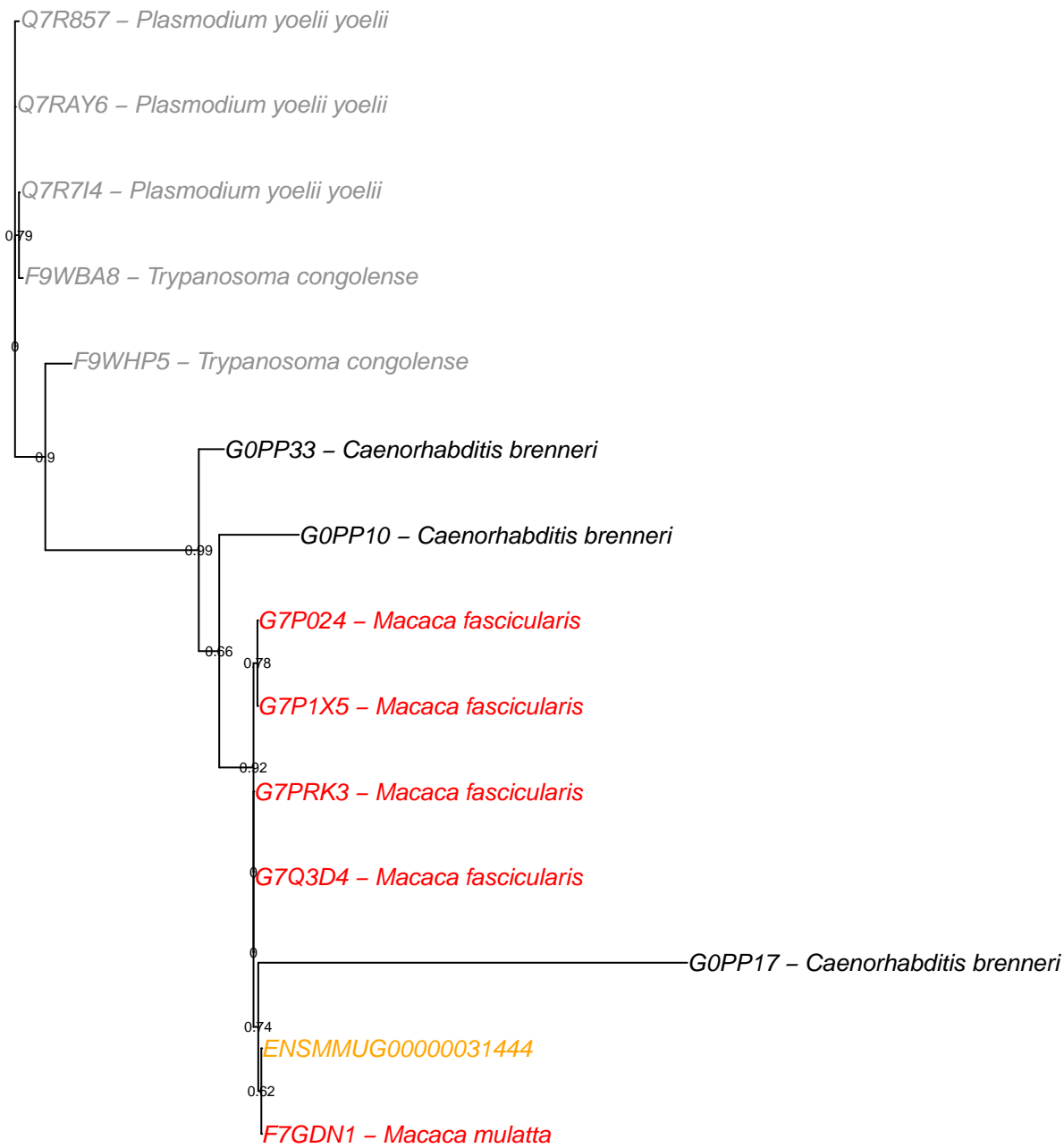
G4TDK8 – *Piriformospora indica*

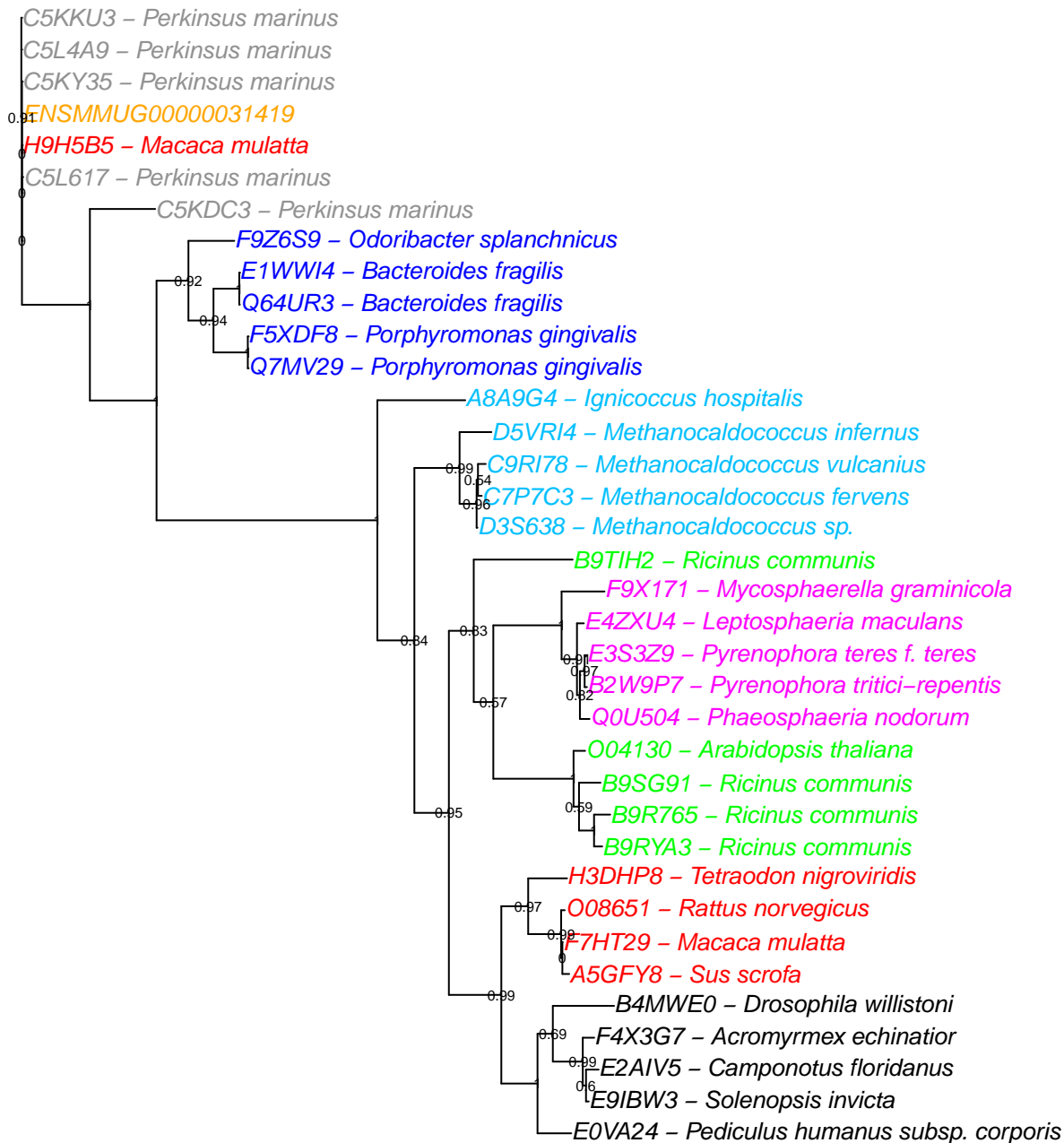
H6C2B3 – *Exophiala dermatitidis*

E3RH96 – *Pyrenophora teres f. teres*

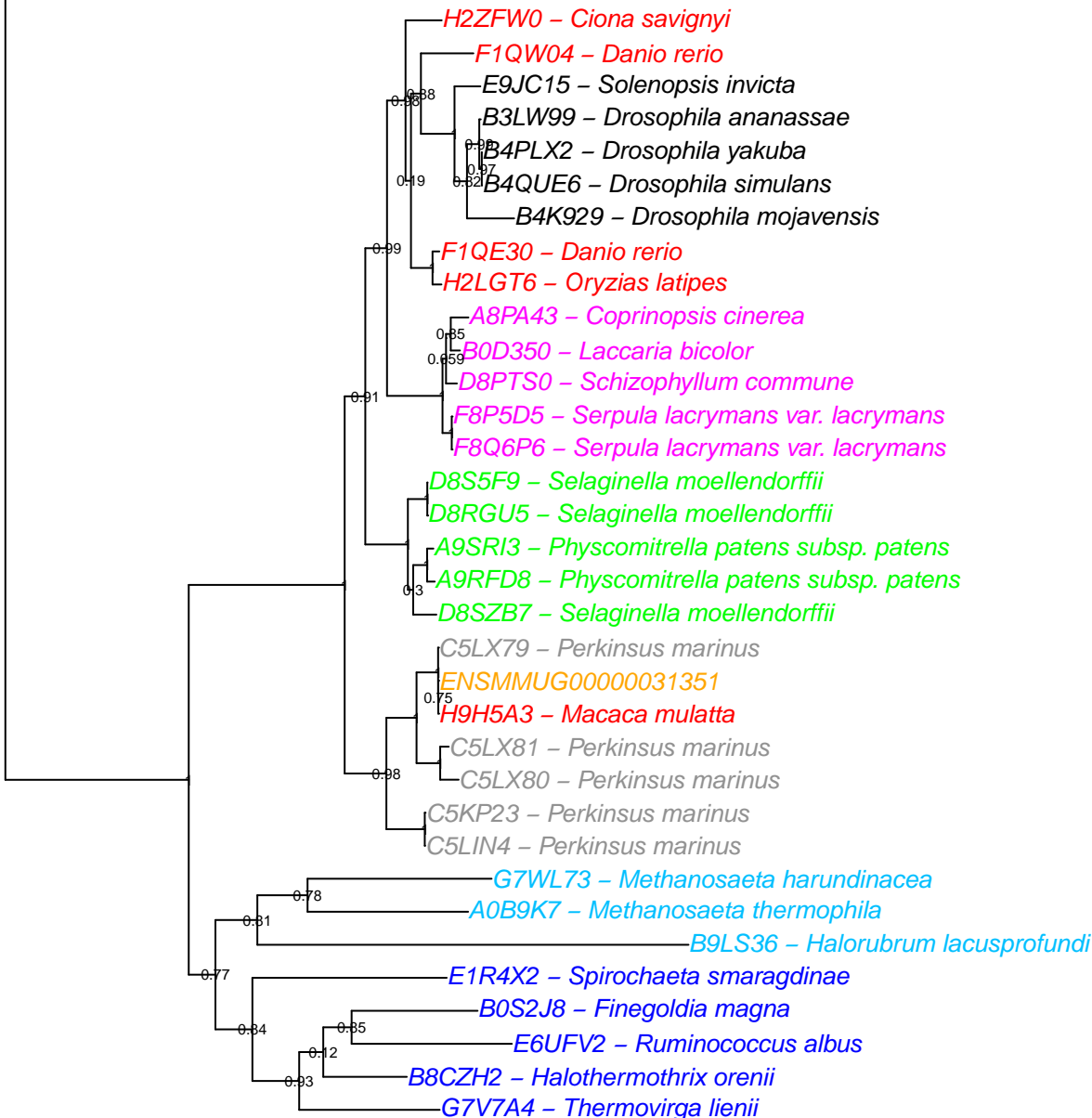
G0MK27 – *Caenorhabditis brenneri*

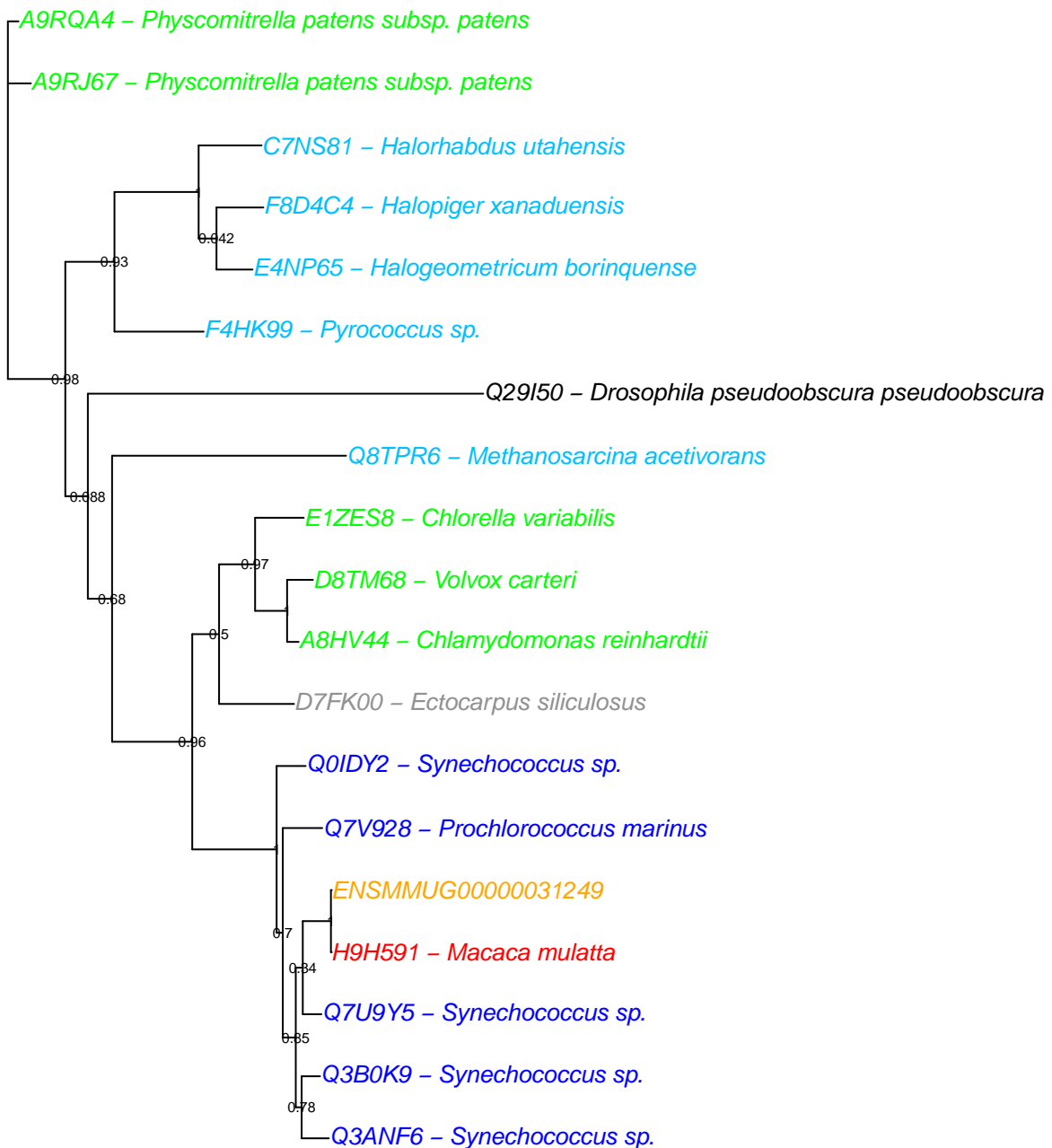
H2XG72 – *Caenorhabditis japonica*

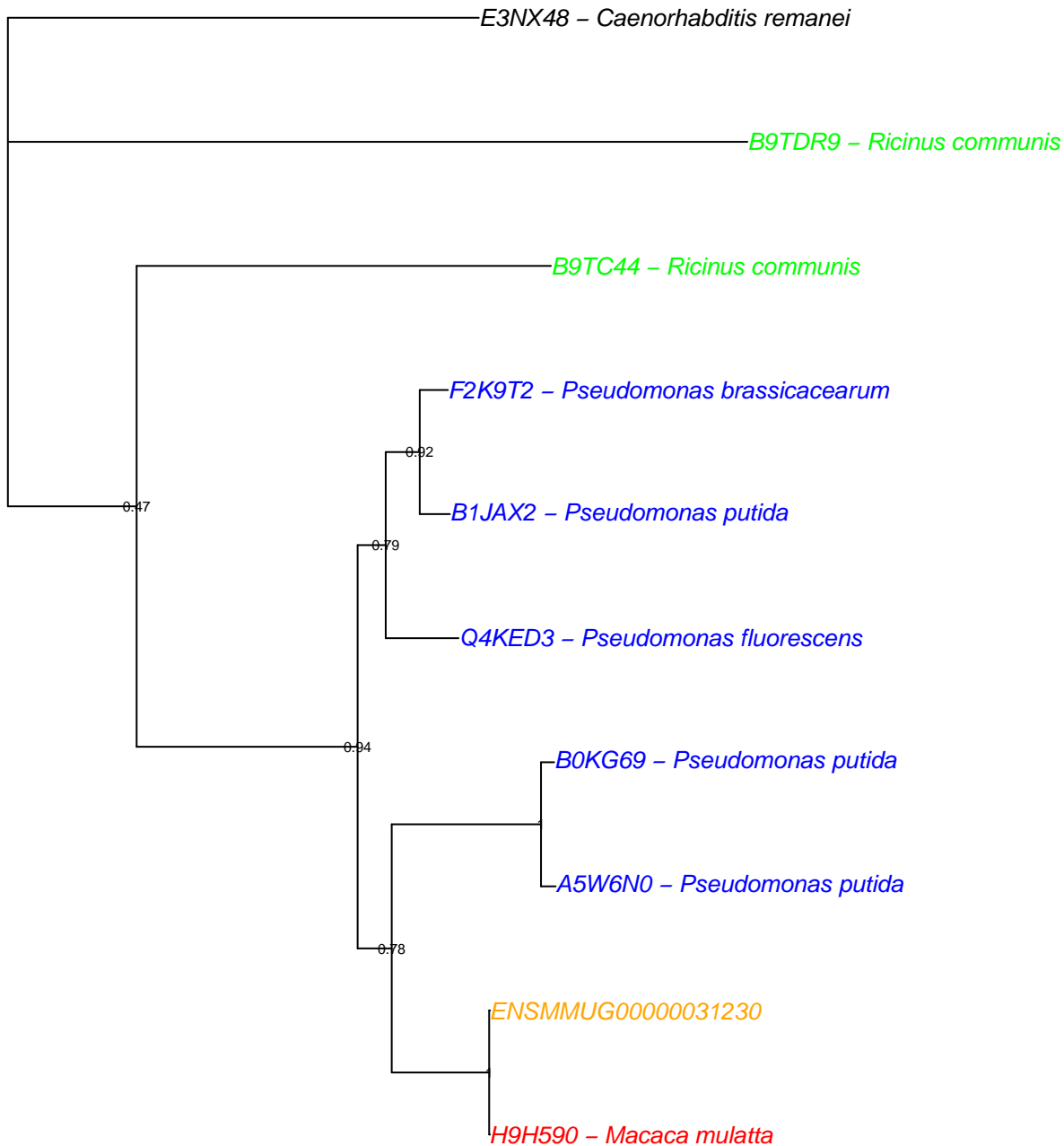




A4YI02 – *Metallosphaera sedula*
F4FZQ0 – *Metallosphaera cuprina*

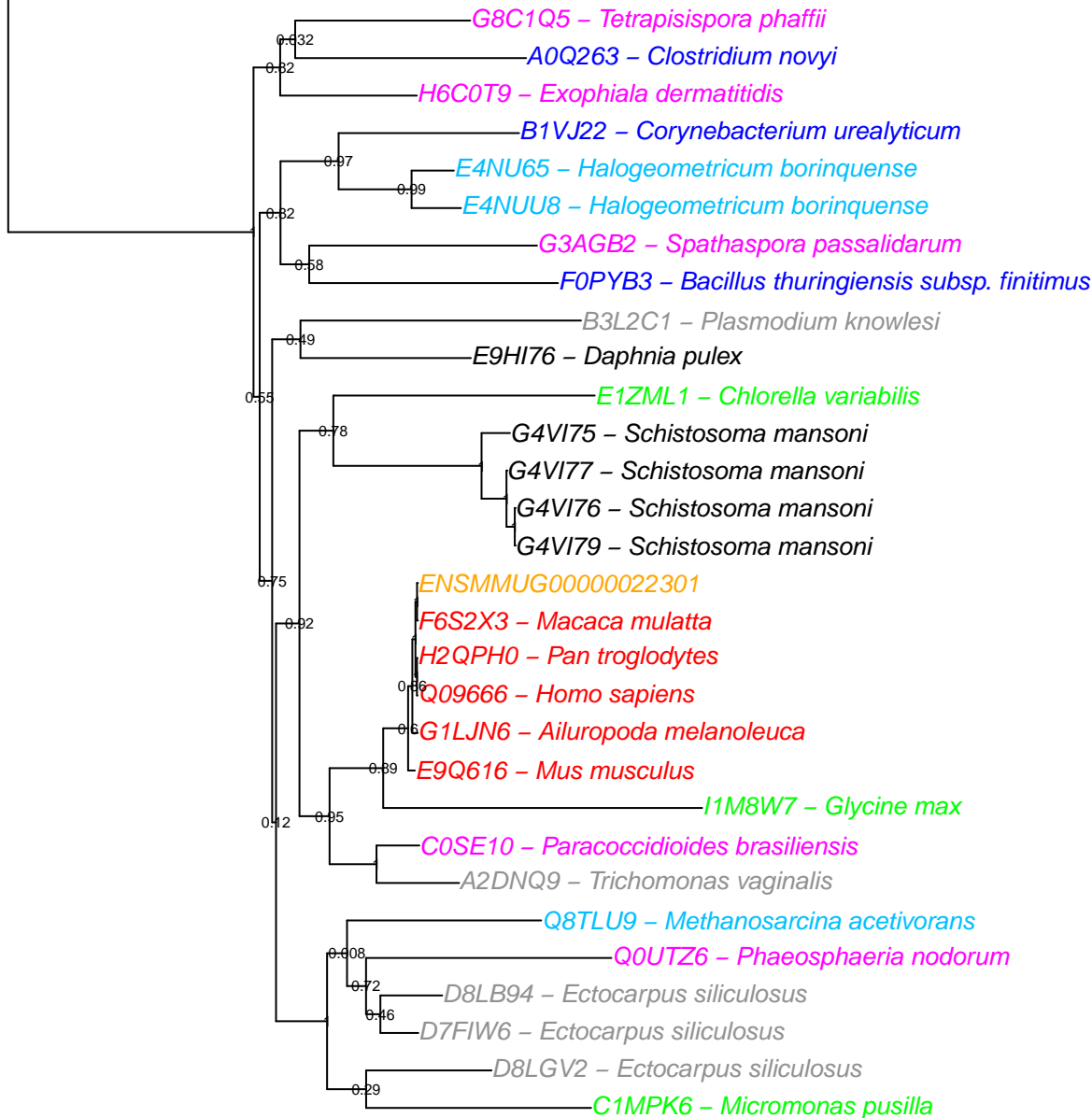






A5VKZ1 – *Lactobacillus reuteri*

B2G8C6 – *Lactobacillus reuteri*



H3FAQ7 – *Pristionchus pacificus*

H3FAR0 – *Pristionchus pacificus*

0.2
E5SZK3 – *Trichinella spiralis*

H2WI53 – *Caenorhabditis japonica*

E1FPL4 – *Loa loa*

0.51

G3RQ98 – *Gorilla gorilla gorilla*

0.93

G3R8H2 – *Gorilla gorilla gorilla*

0.62

P12036 – *Homo sapiens*

F7G5S6 – *Macaca mulatta*

0.51

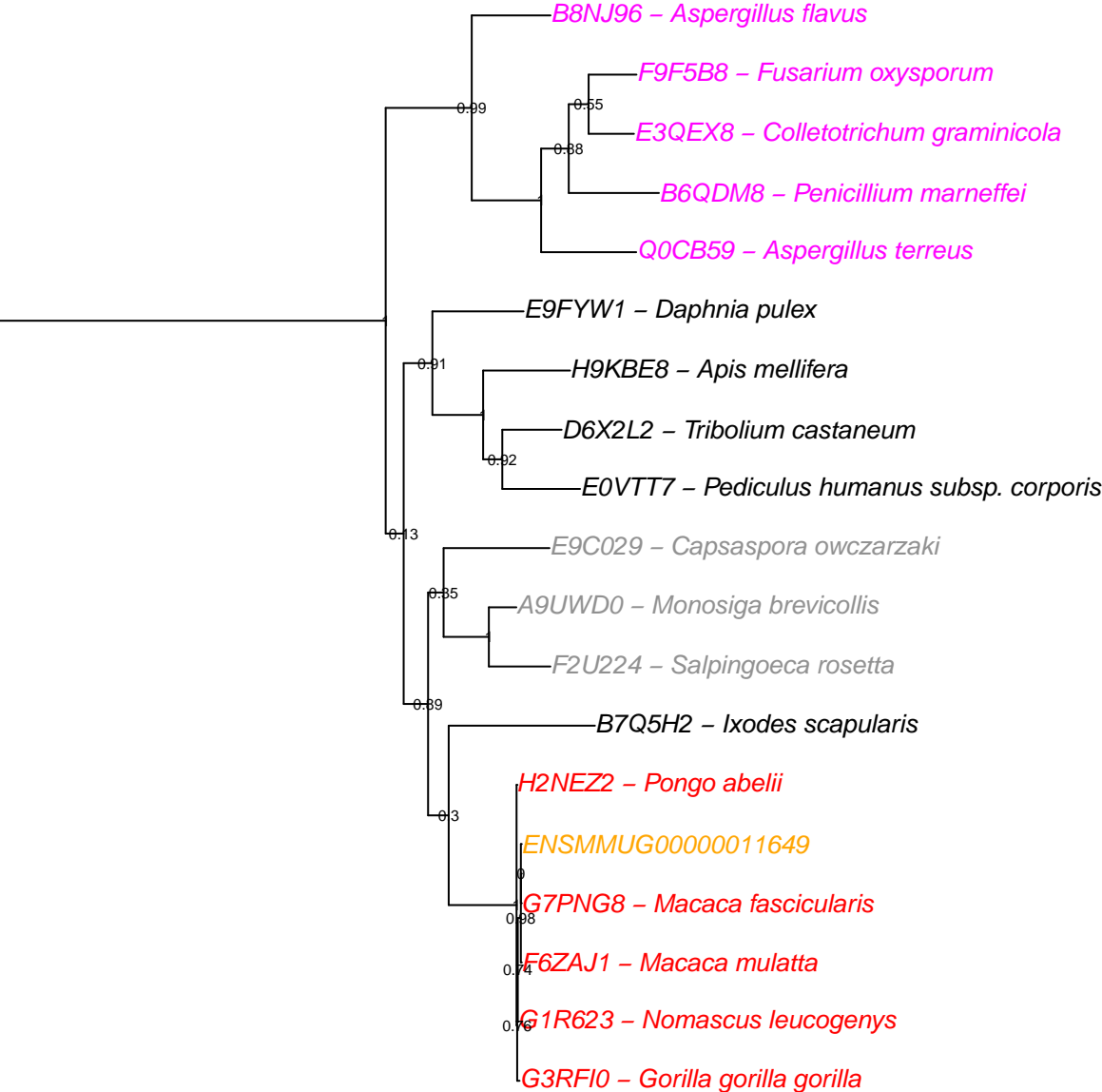
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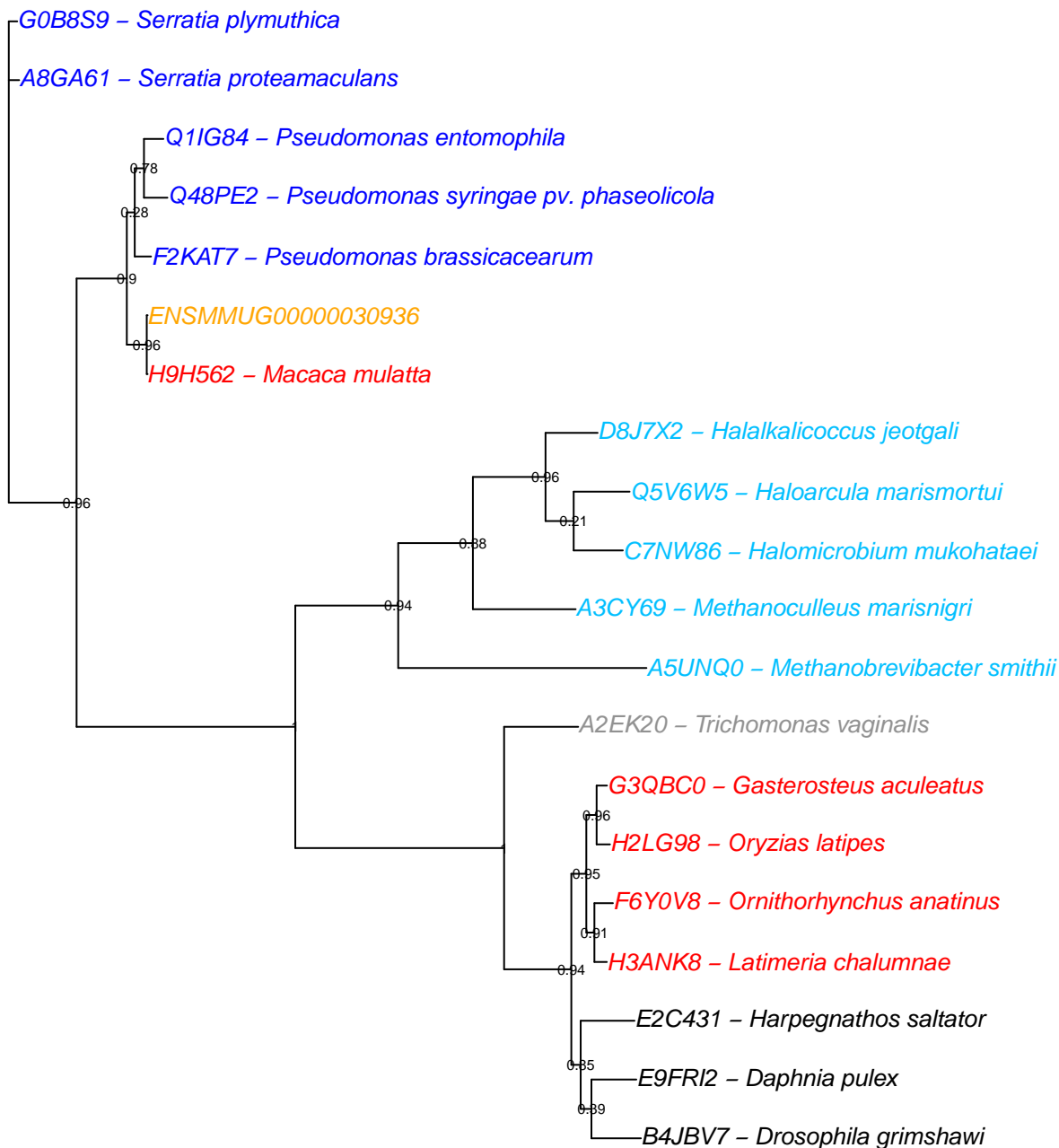
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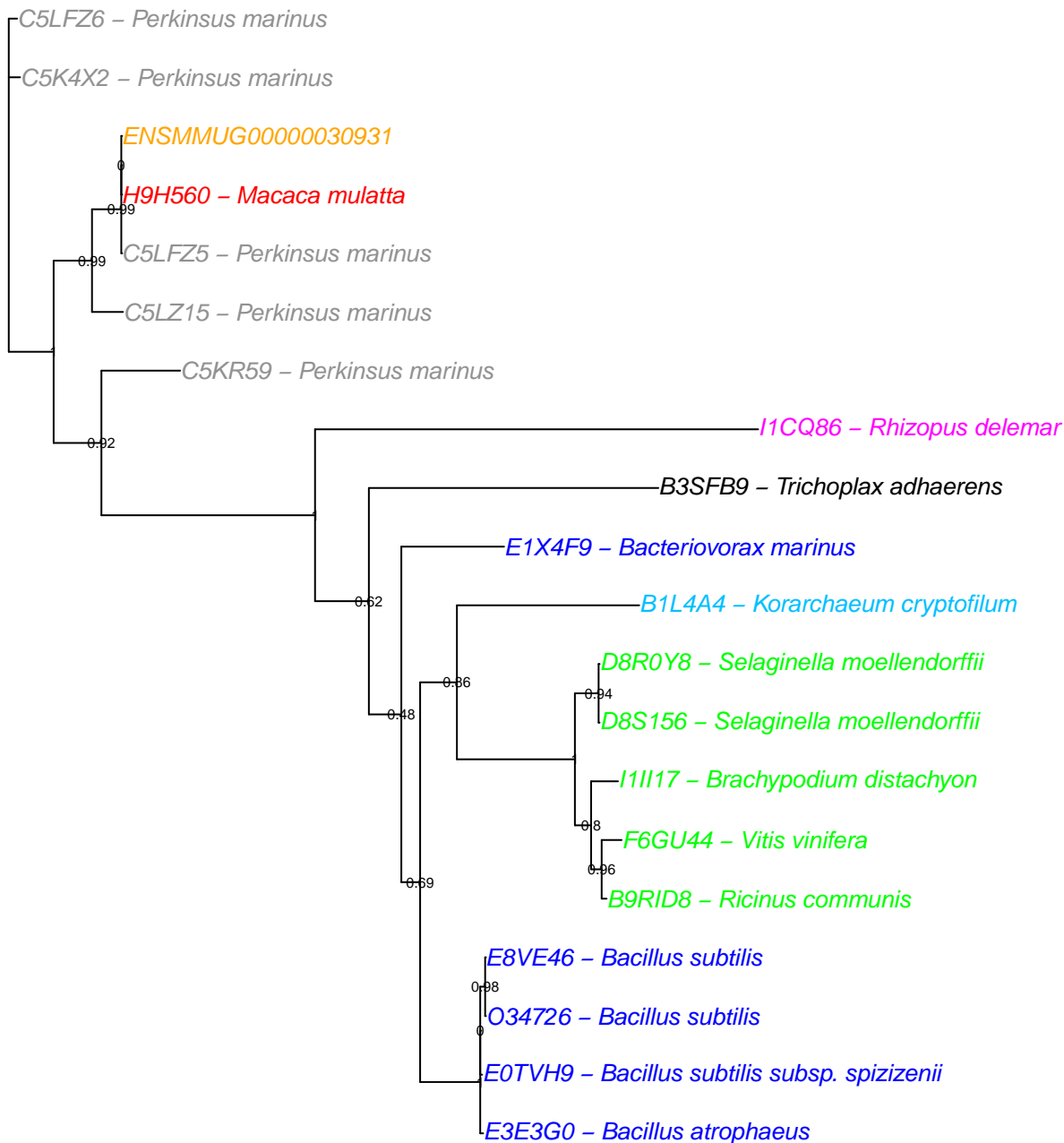
F6T0J7 – *Macaca mulatta*

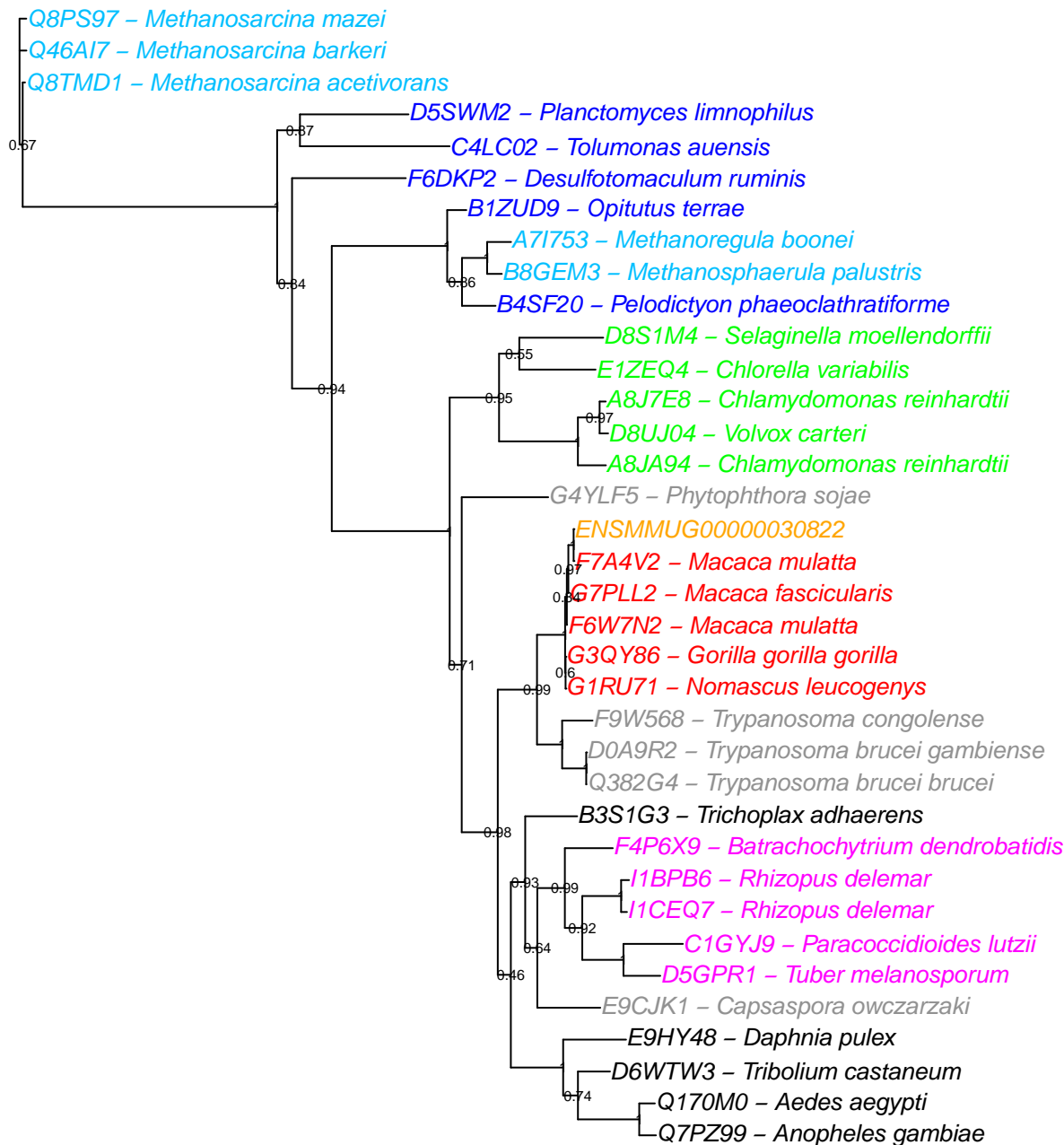
C5M1Q2 – *Perkinsus marinus*

C5LL96 – *Perkinsus marinus*





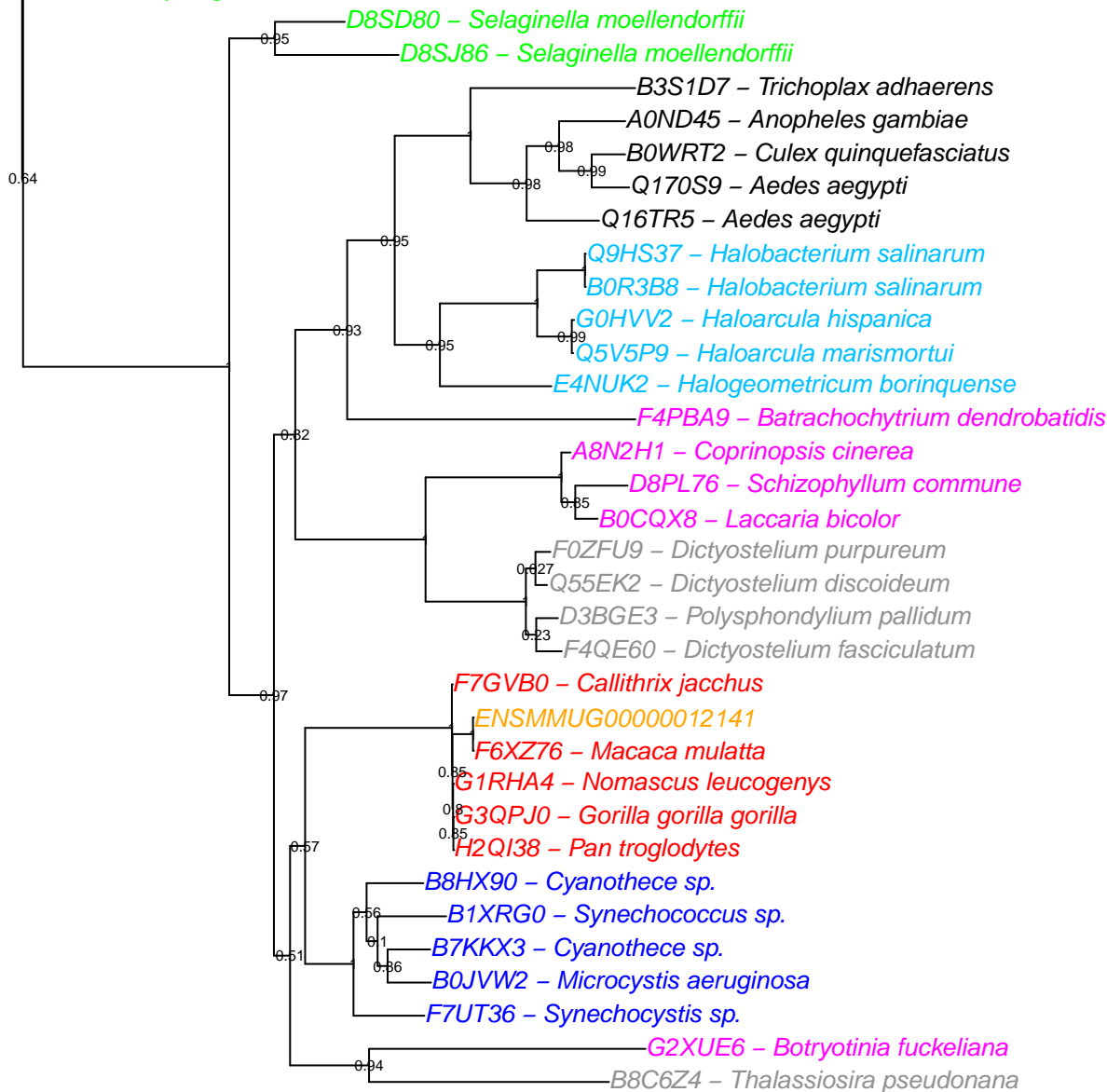




Q10H45 – *Oryza sativa* subsp. *japonica*

Q8GSQ1 – *Oryza sativa* subsp. *japonica*

I1PDA9 – *Oryza glaberrima*

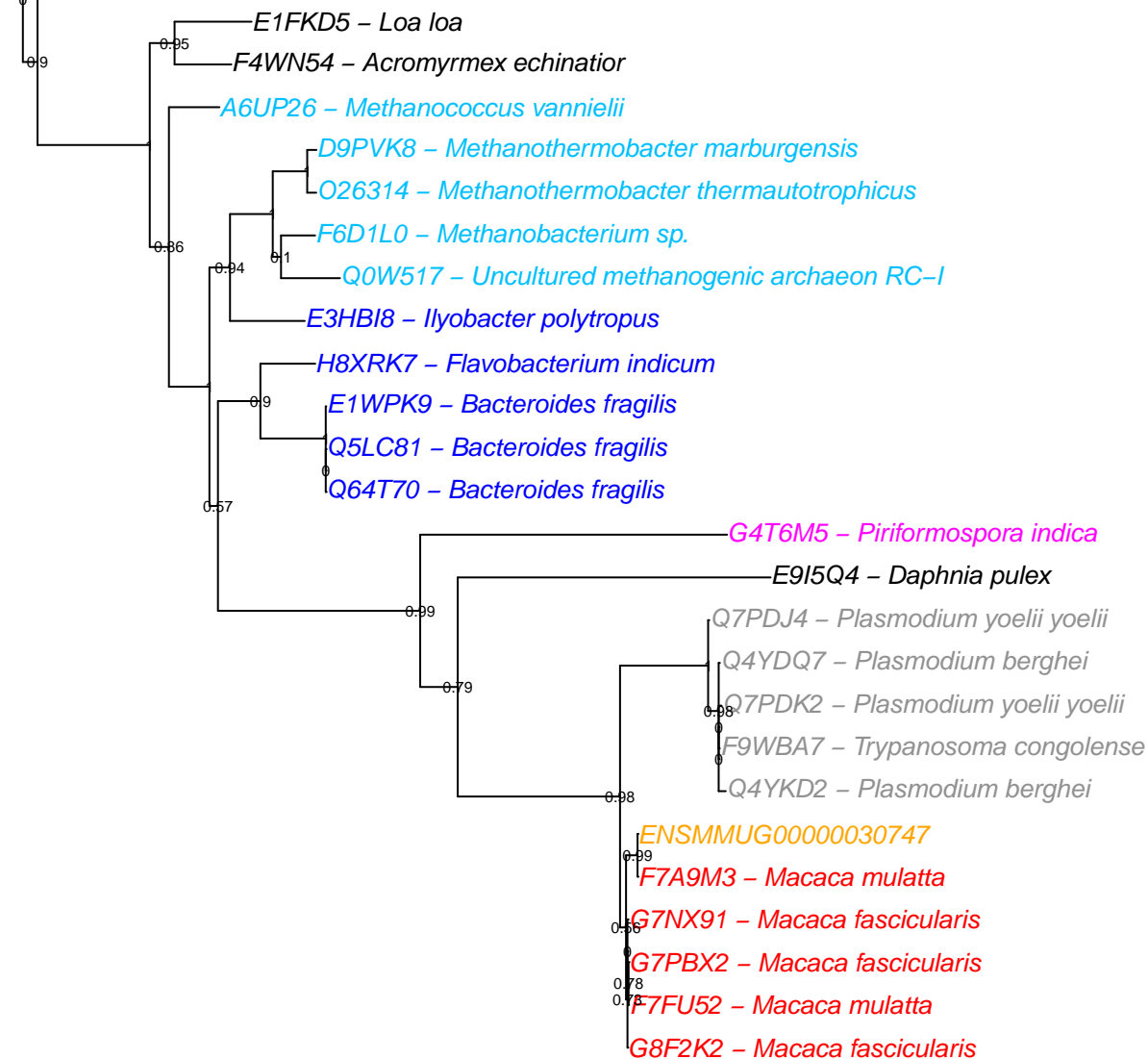


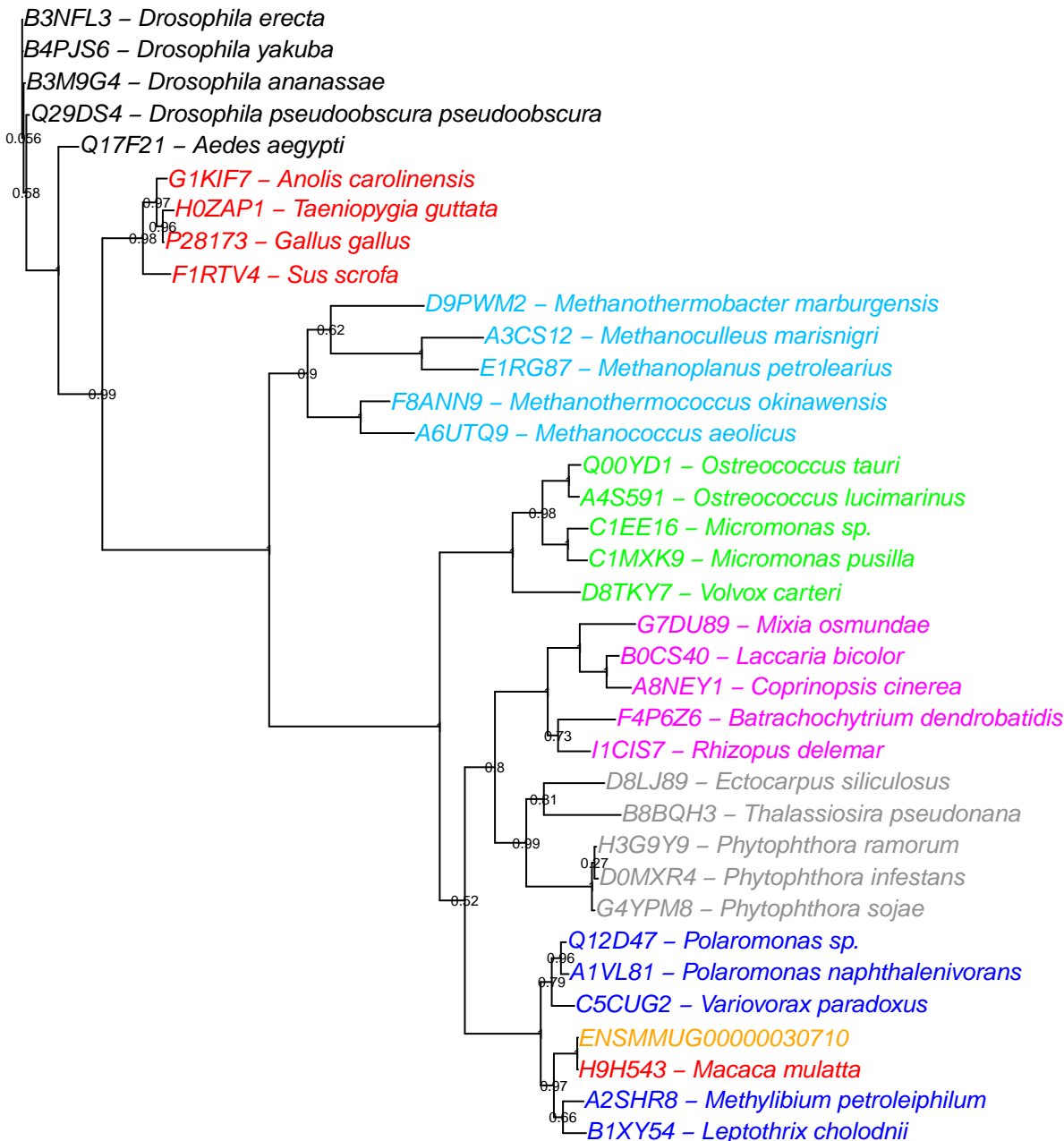
Q5VQJ8 – *Oryza sativa* subsp. *japonica*

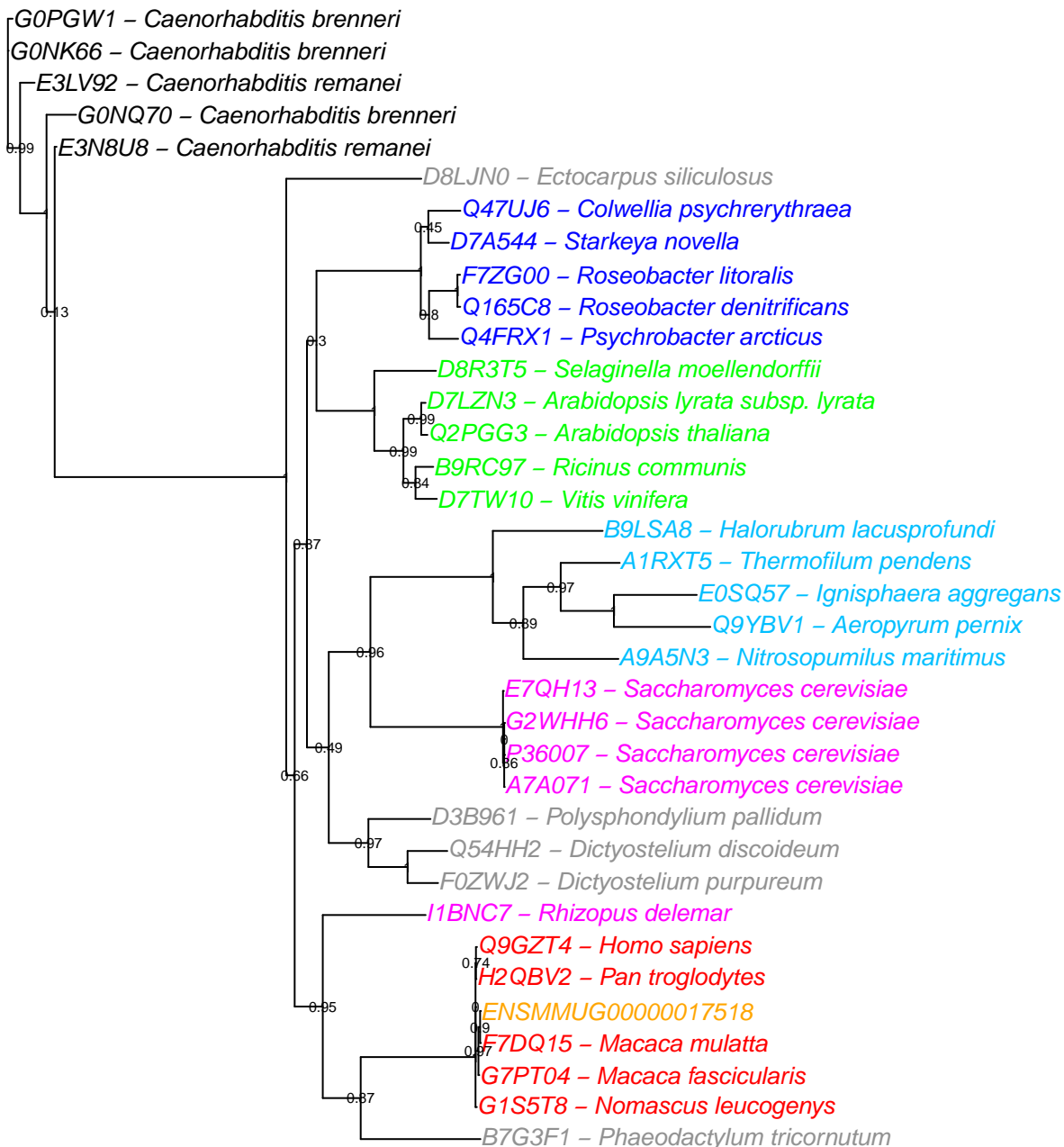
Q0JIH6 – *Oryza sativa* subsp. *japonica*

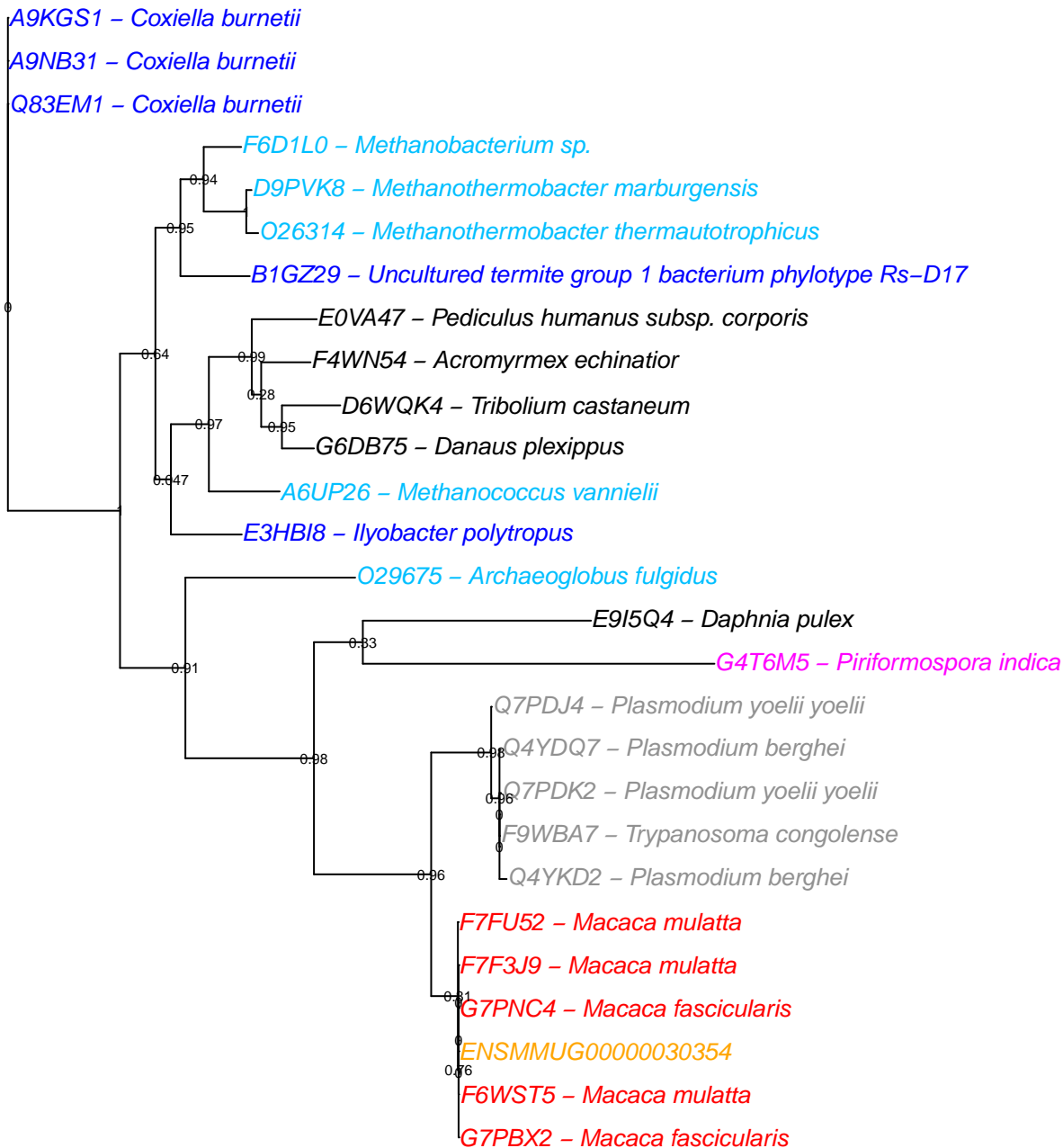
I1NSG2 – *Oryza glaberrima*

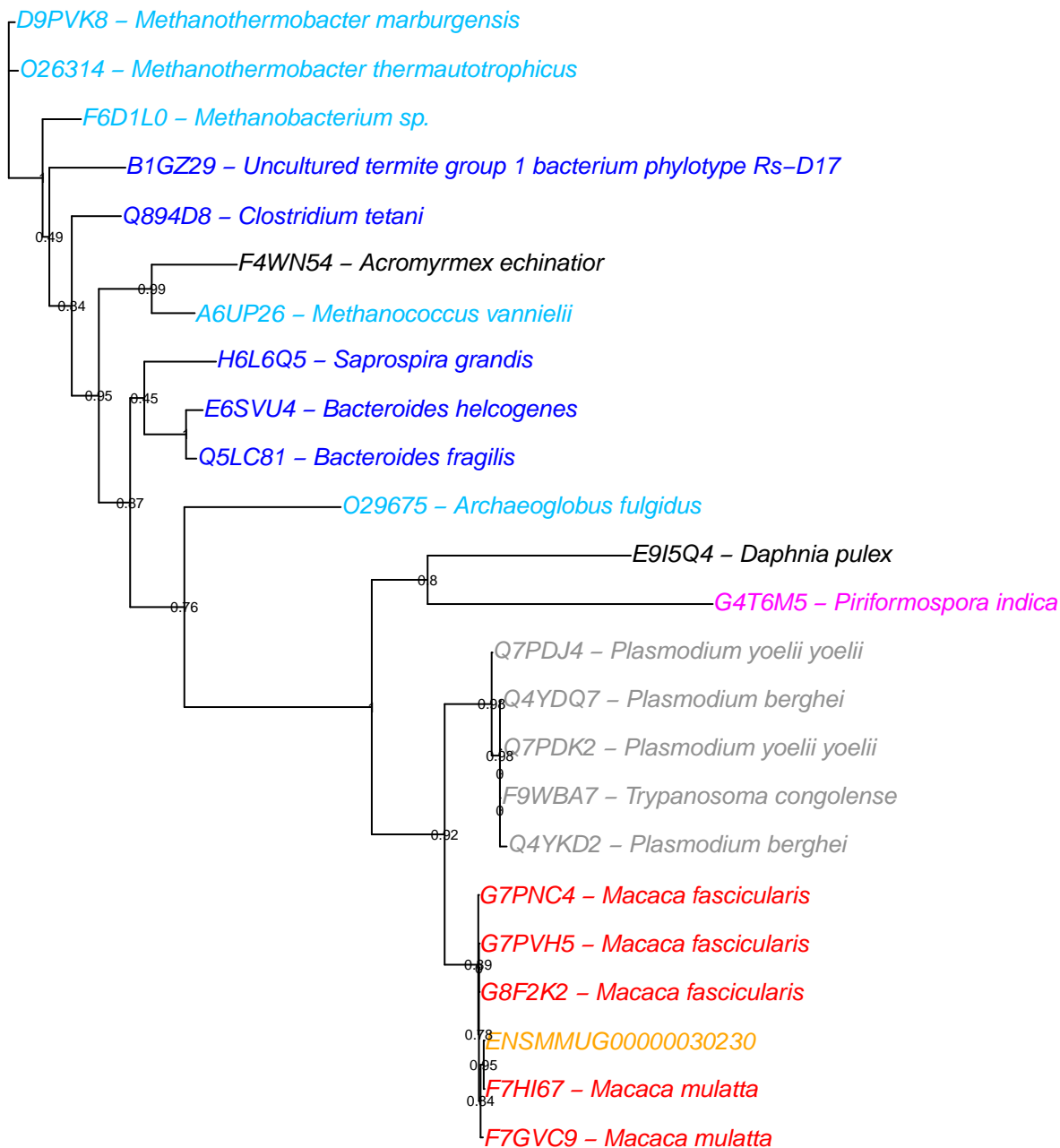
C5XMH1 – *Sorghum bicolor*











A9KGS1 – *Coxiella burnetii*

A9NB31 – *Coxiella burnetii*

B6J207 – *Coxiella burnetii*

Q83EM1 – *Coxiella burnetii*

D3E4E6 – *Methanobrevibacter ruminantium*

D9PVK8 – *Methanothermobacter marburgensis*

Q0W517 – Uncultured methanogenic archaeon RC-I

B1GZ29 – Uncultured termite group 1 bacterium phylotype Rs-D17

E0VA47 – *Pediculus humanus* subsp. corporis

D6WQK4 – *Tribolium castaneum*

H9KHJ1 – *Apis mellifera*

F4WN54 – *Acromyrmex echinator*

C5XMH1 – *Sorghum bicolor*

I1NSG2 – *Oryza glaberrima*

Q5VQJ8 – *Oryza sativa* subsp. japonica

Q0JIH6 – *Oryza sativa* subsp. japonica

P45951 – *Arabidopsis thaliana*

O29675 – *Archaeoglobus fulgidus*

G4T6M5 – *Piriformospora indica*

E9I5Q4 – *Daphnia pulex*

Q7PDJ4 – *Plasmodium yoelii* yoelii

Q4YDQ7 – *Plasmodium berghei*

Q7PDK2 – *Plasmodium yoelii* yoelii

F9WBA7 – *Trypanosoma congolense*

Q4YKD2 – *Plasmodium berghei*

F6WST5 – *Macaca mulatta*

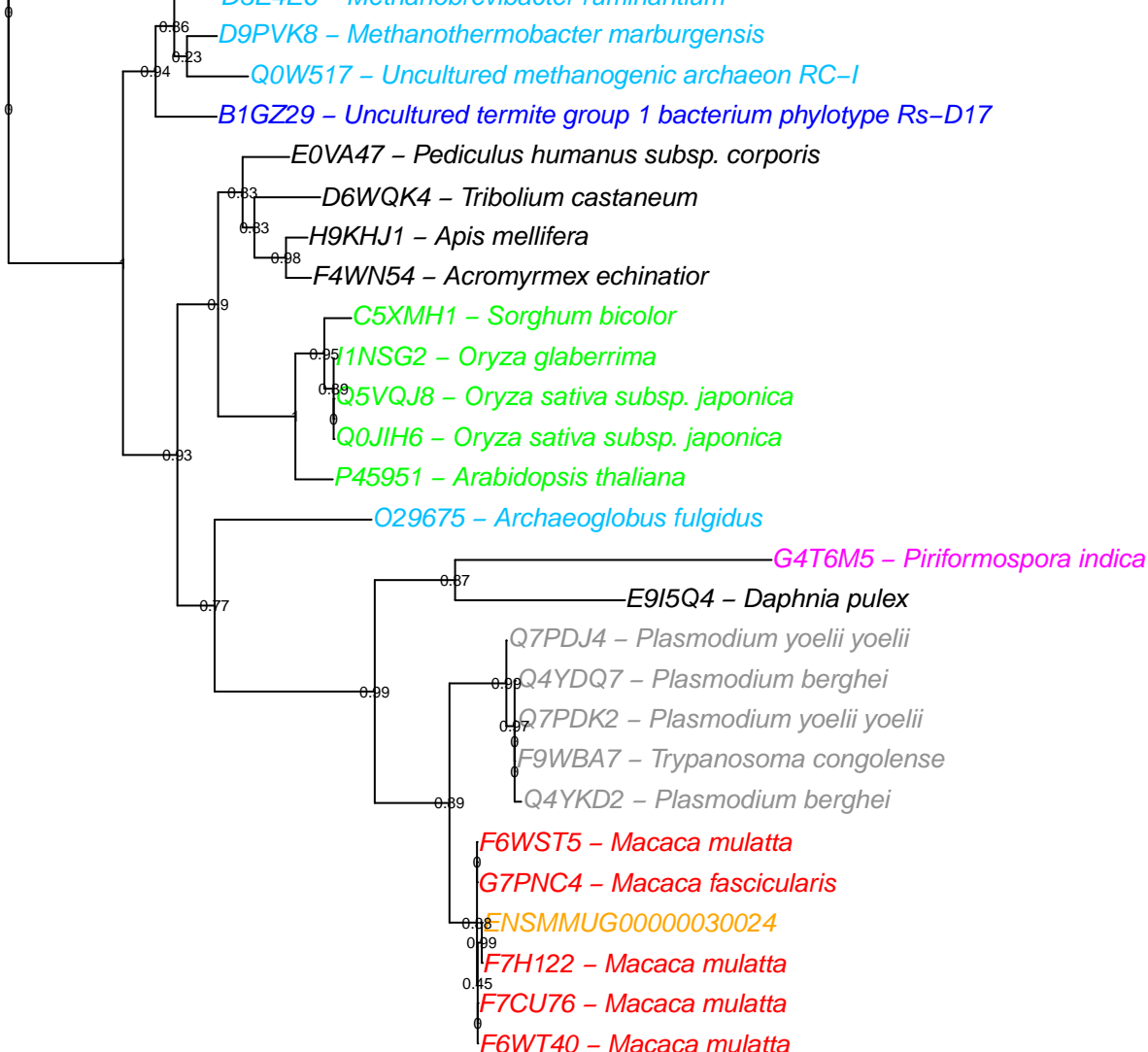
G7PNC4 – *Macaca fascicularis*

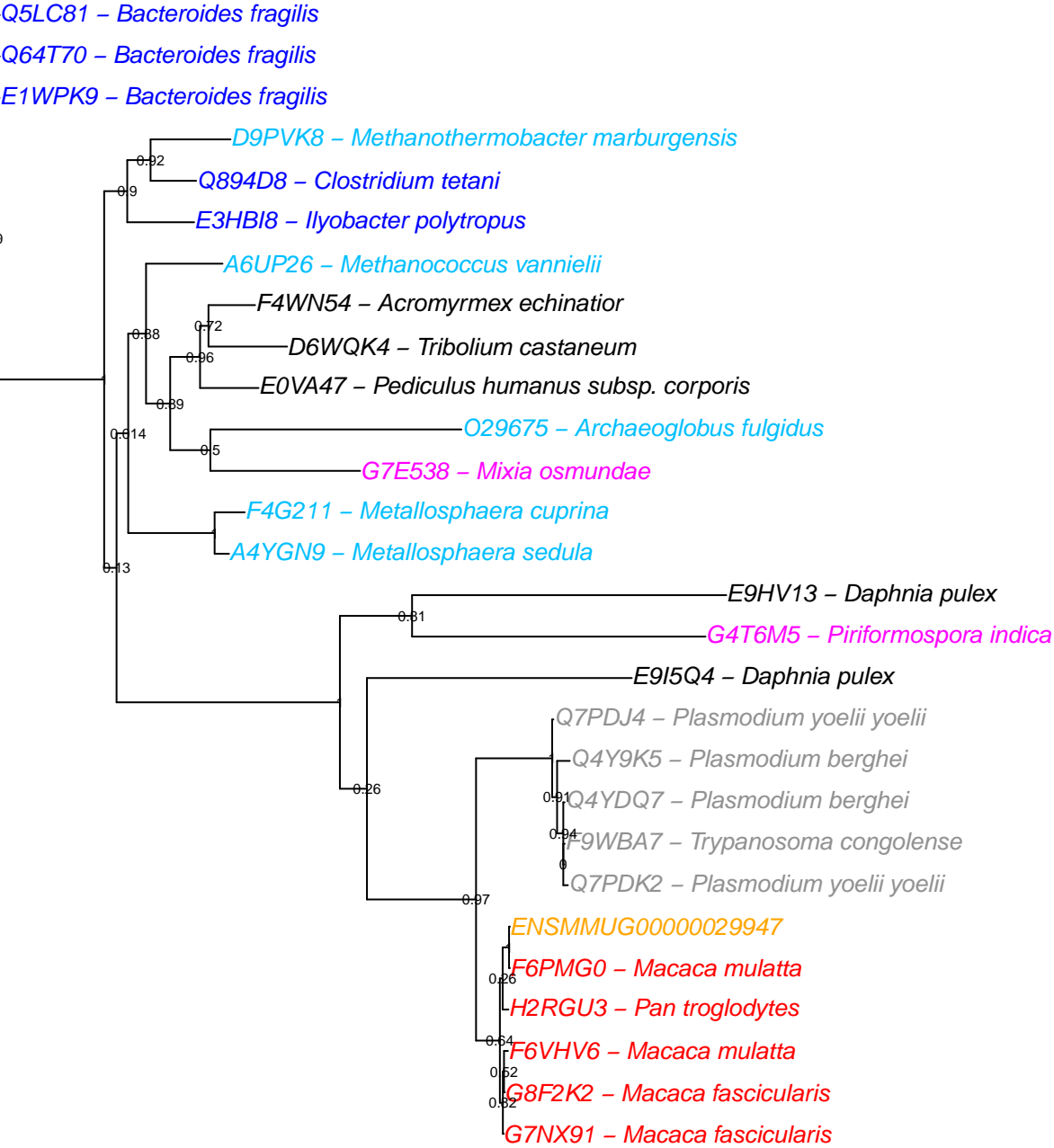
ENSMMUG00000030024

F7H122 – *Macaca mulatta*

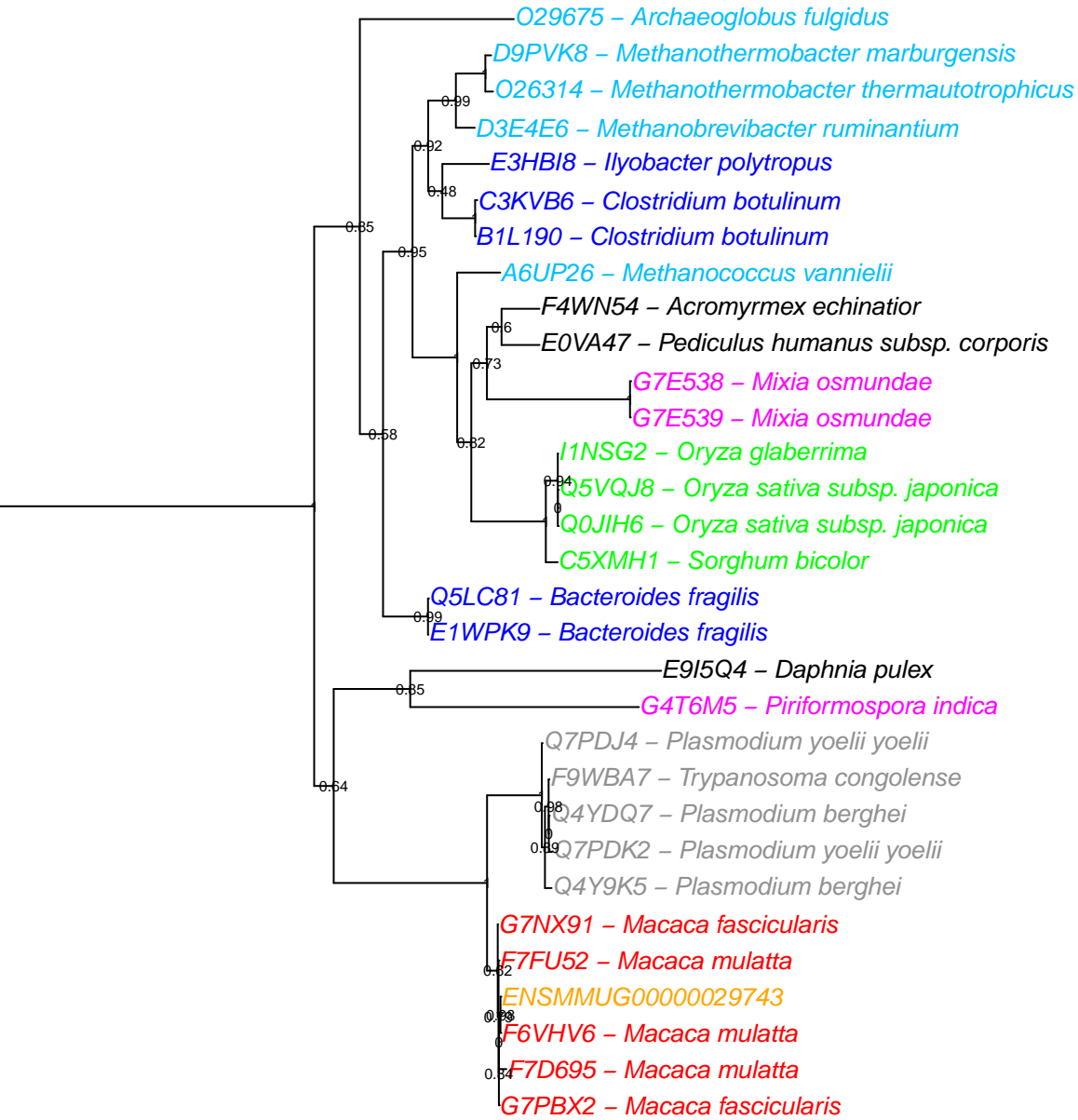
F7CU76 – *Macaca mulatta*

F6WT40 – *Macaca mulatta*





E9I099 – *Daphnia pulex*
E9HKU0 – *Daphnia pulex*

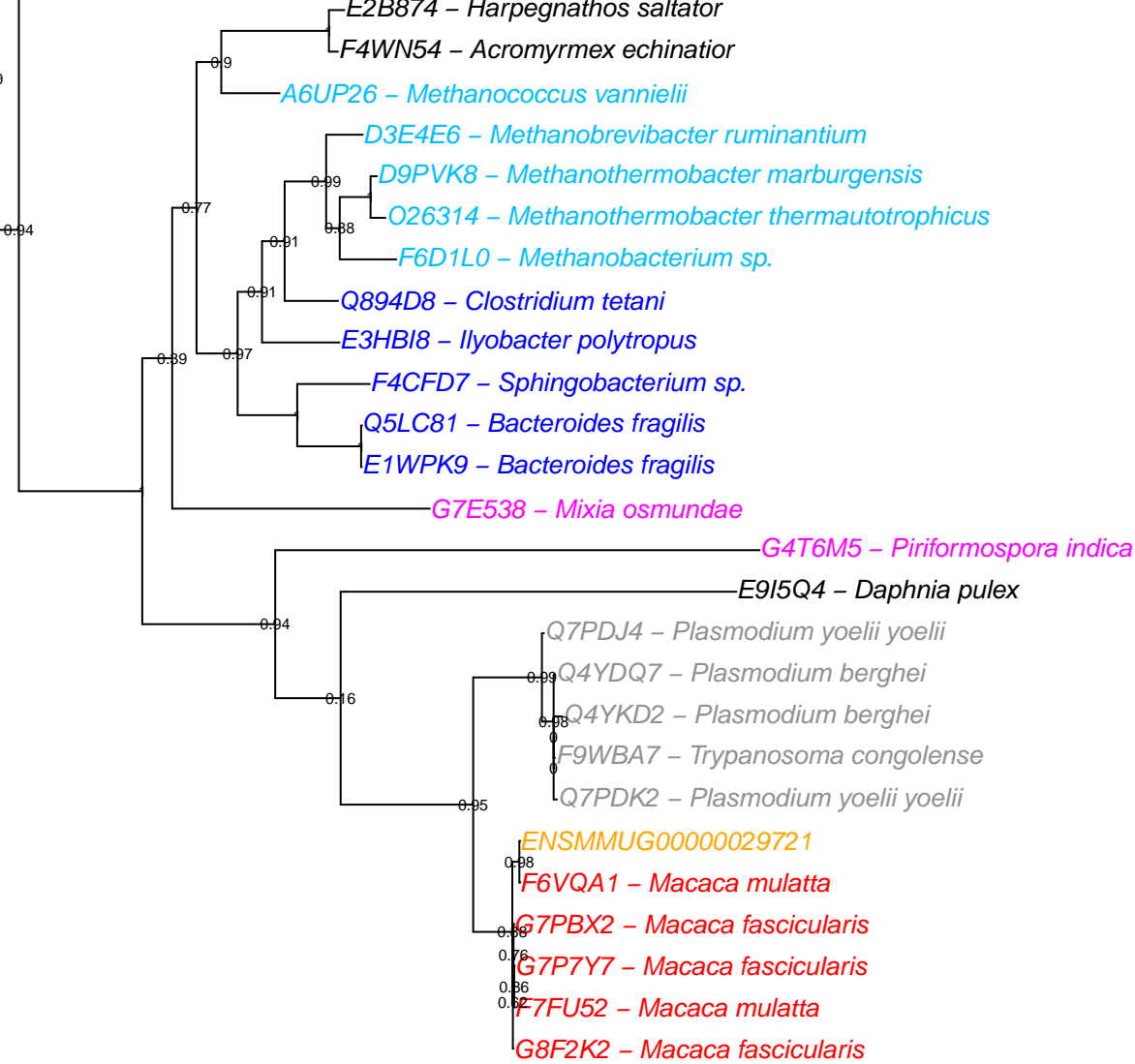


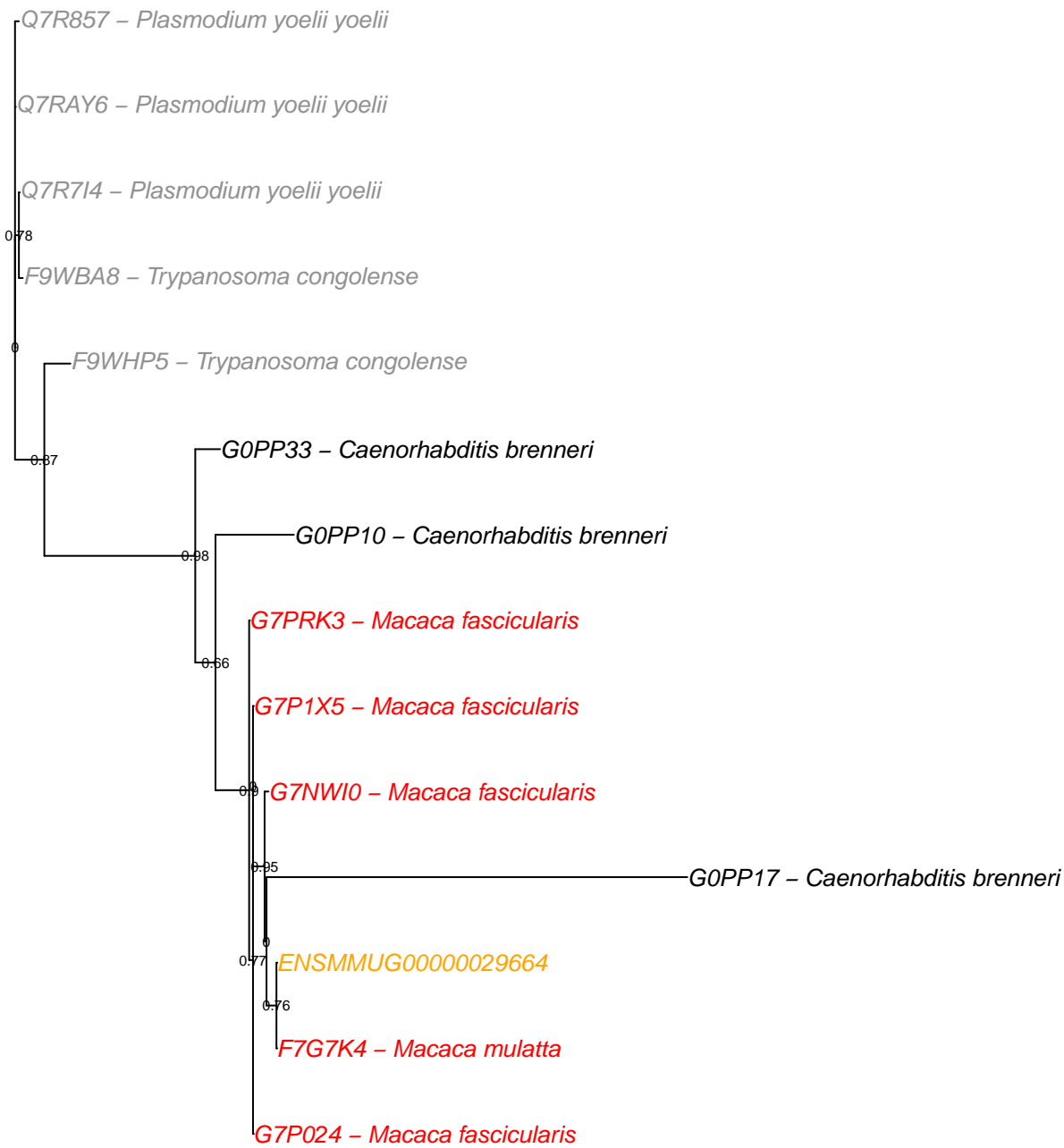
Q5VQJ8 – *Oryza sativa* subsp. *japonica*

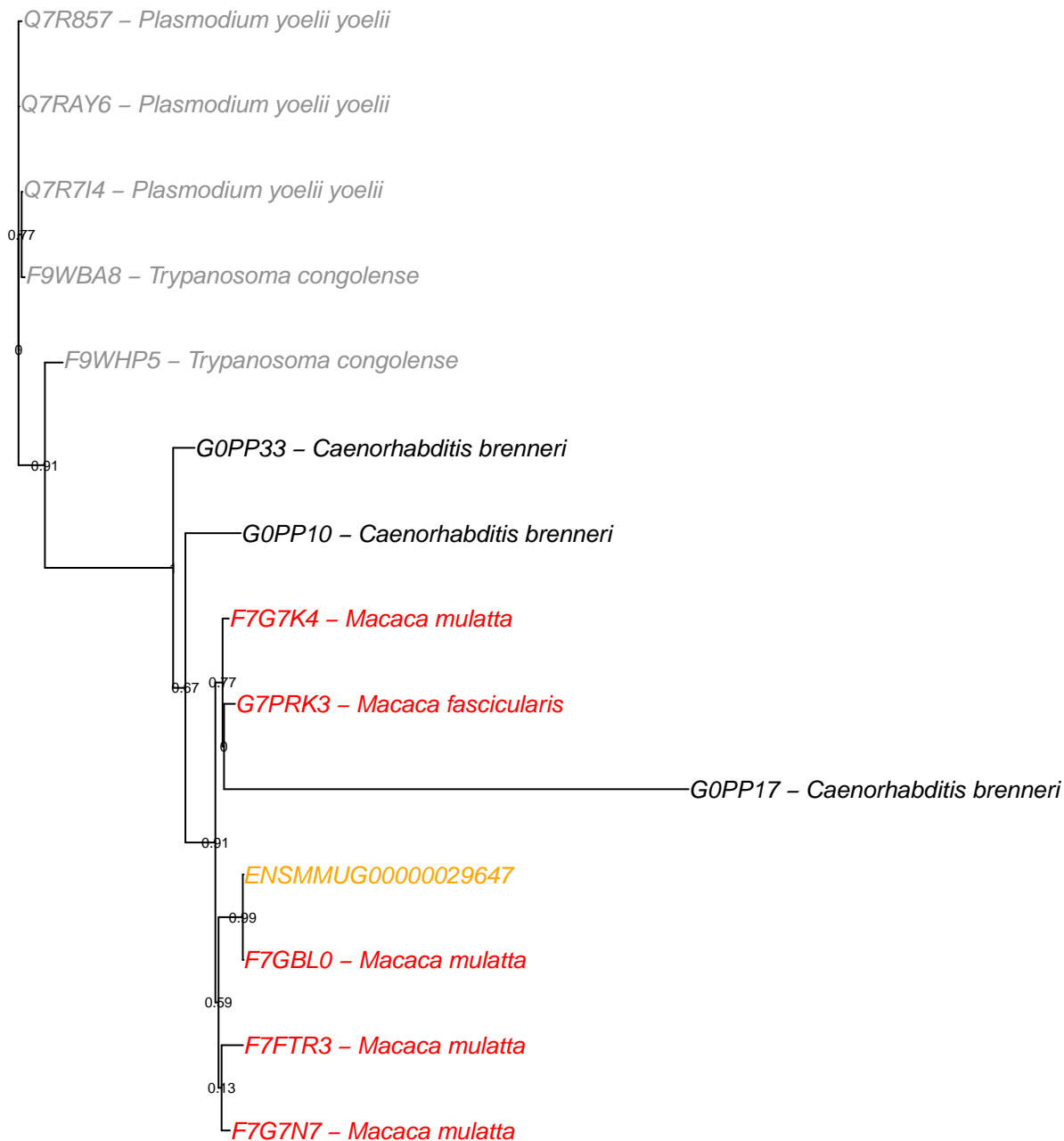
Q0JIH6 – *Oryza sativa* subsp. *japonica*

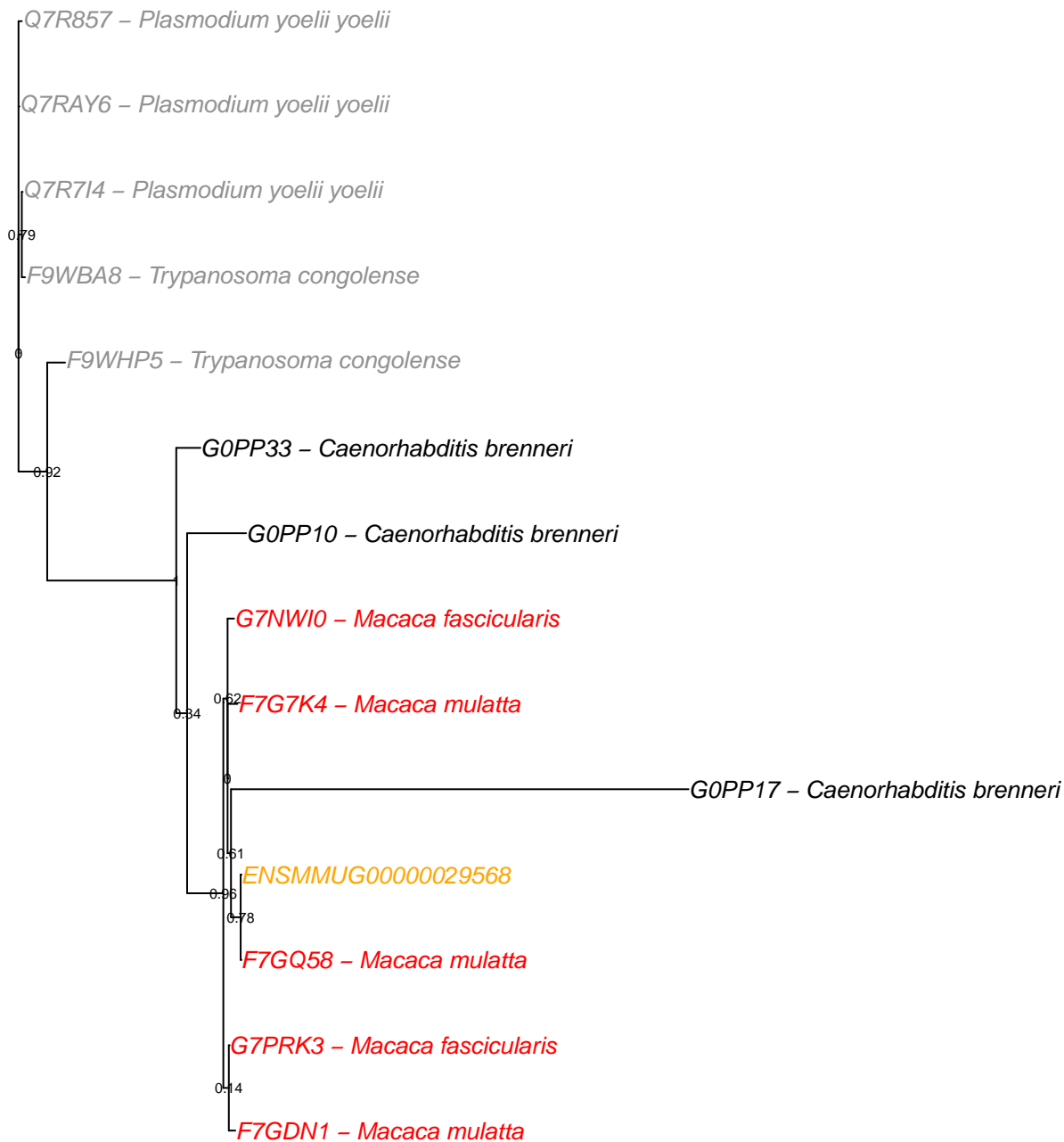
I1NSG2 – *Oryza glaberrima*

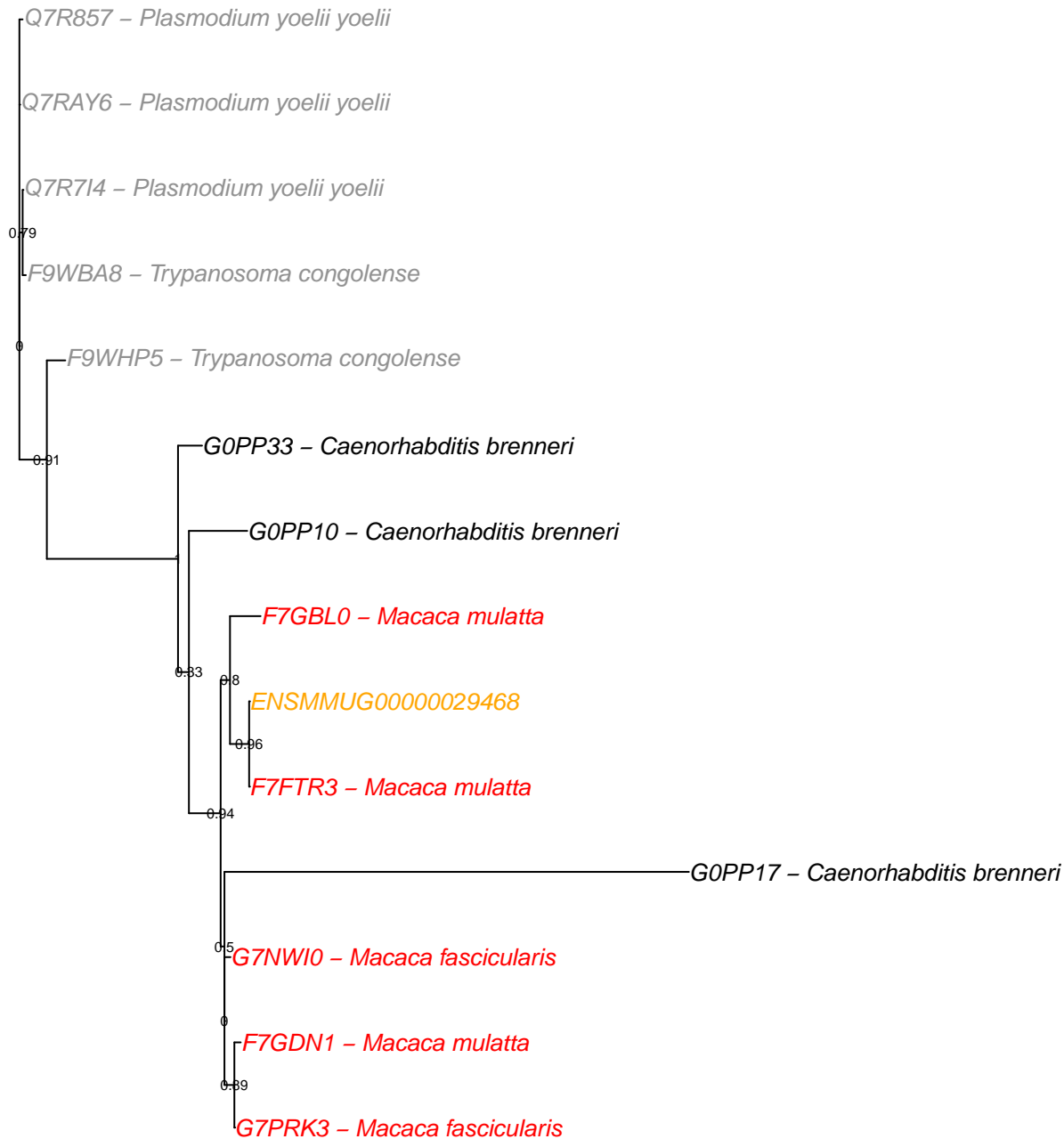
C5XMH1 – *Sorghum bicolor*

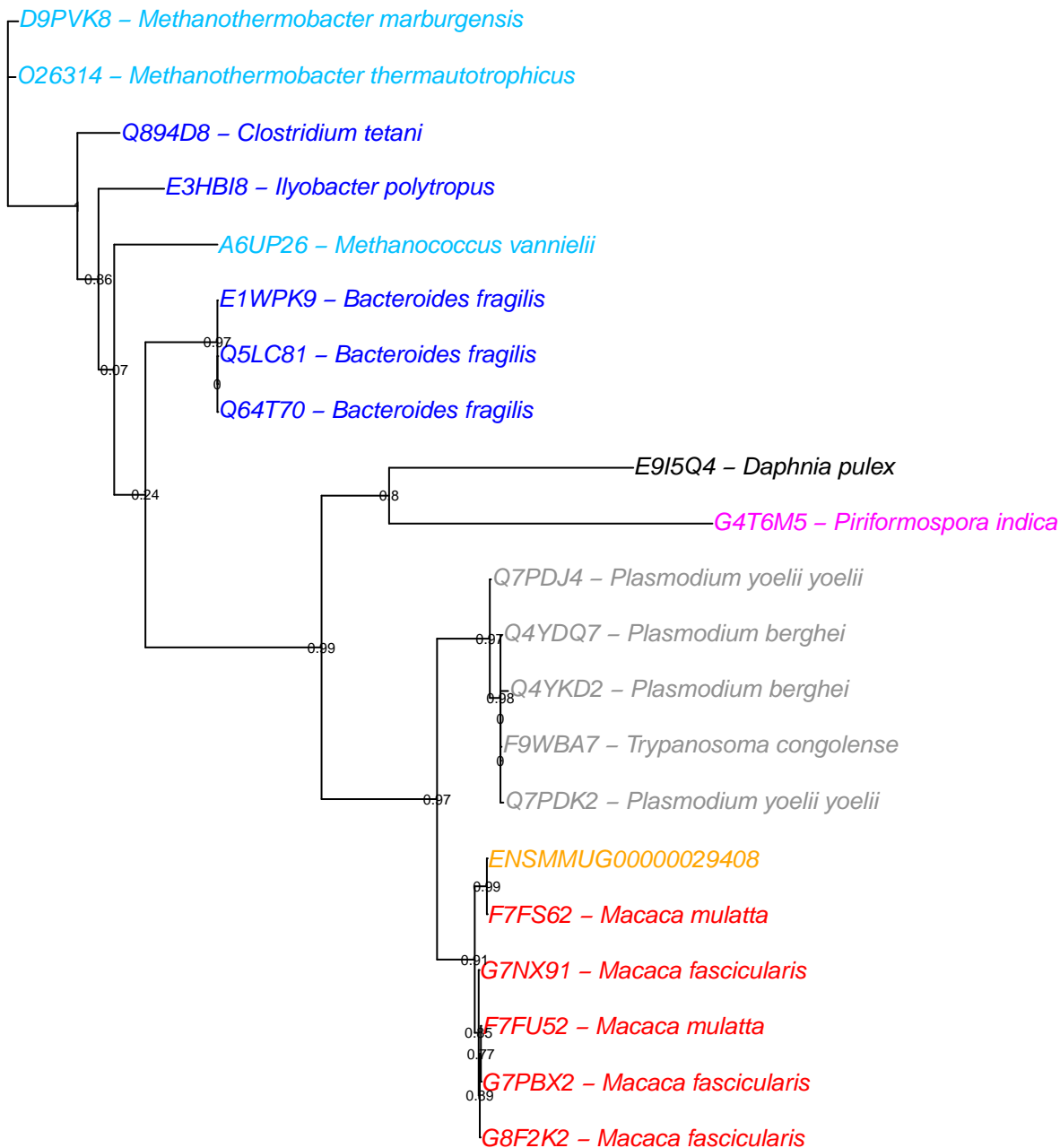


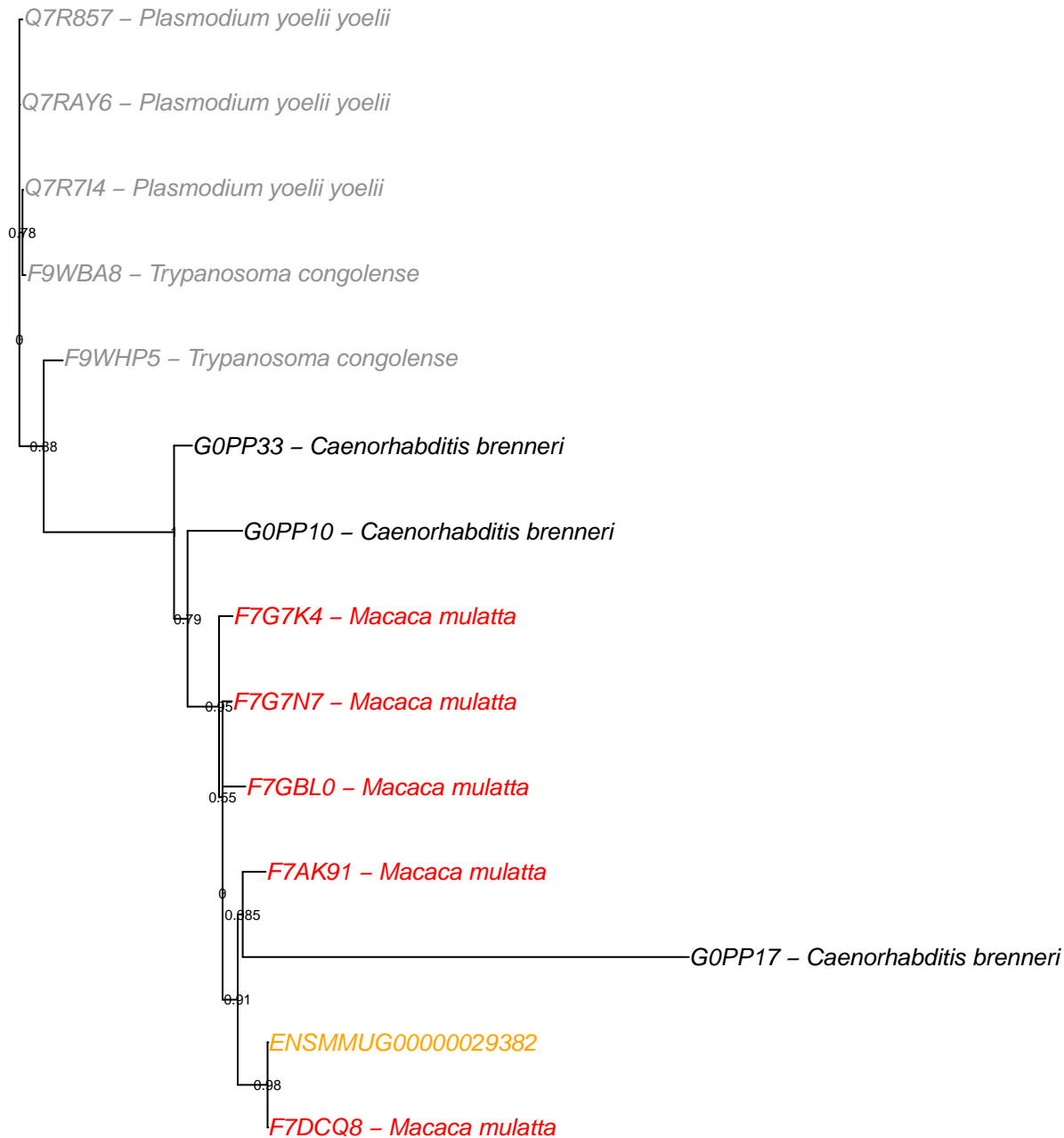






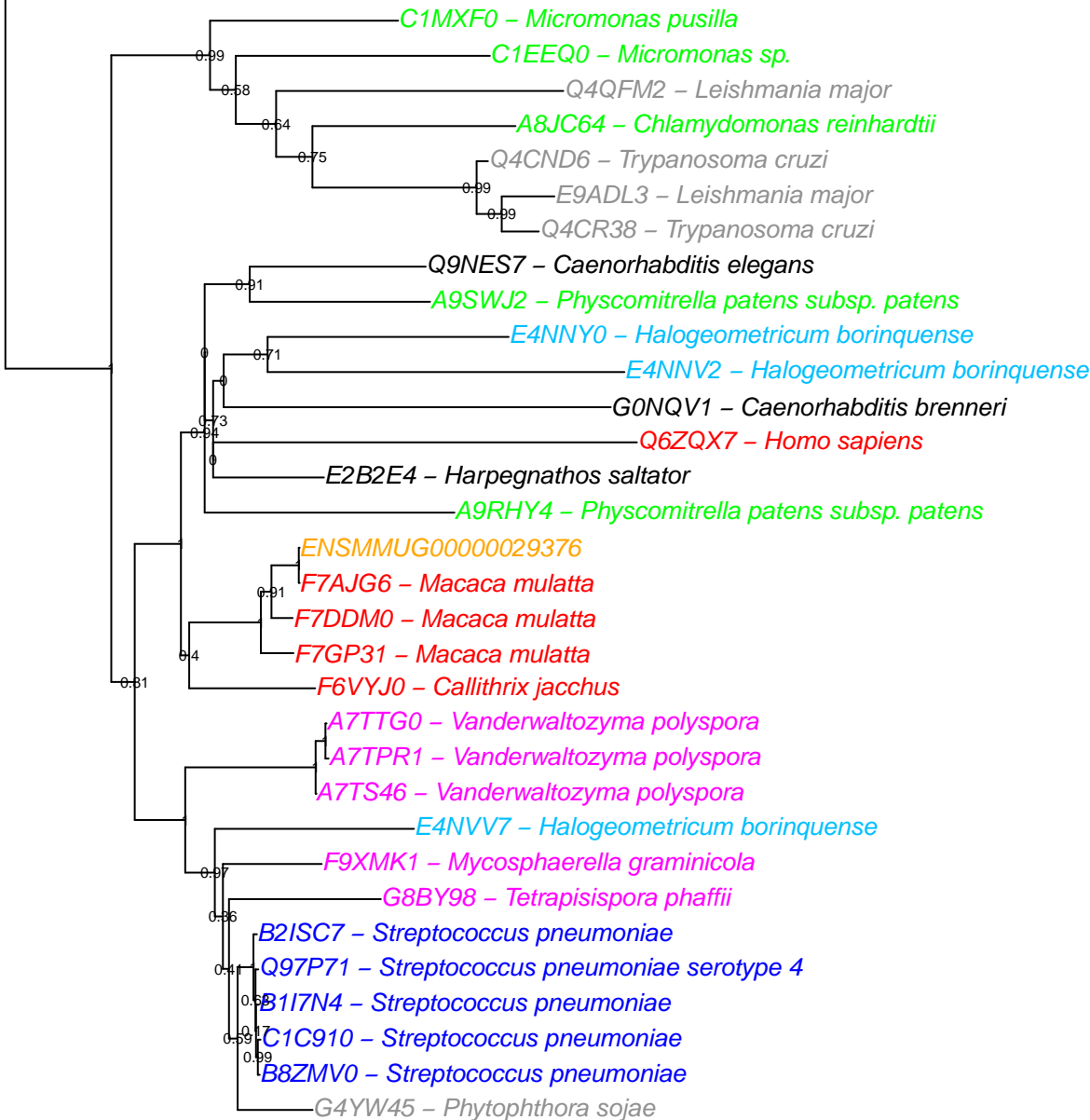


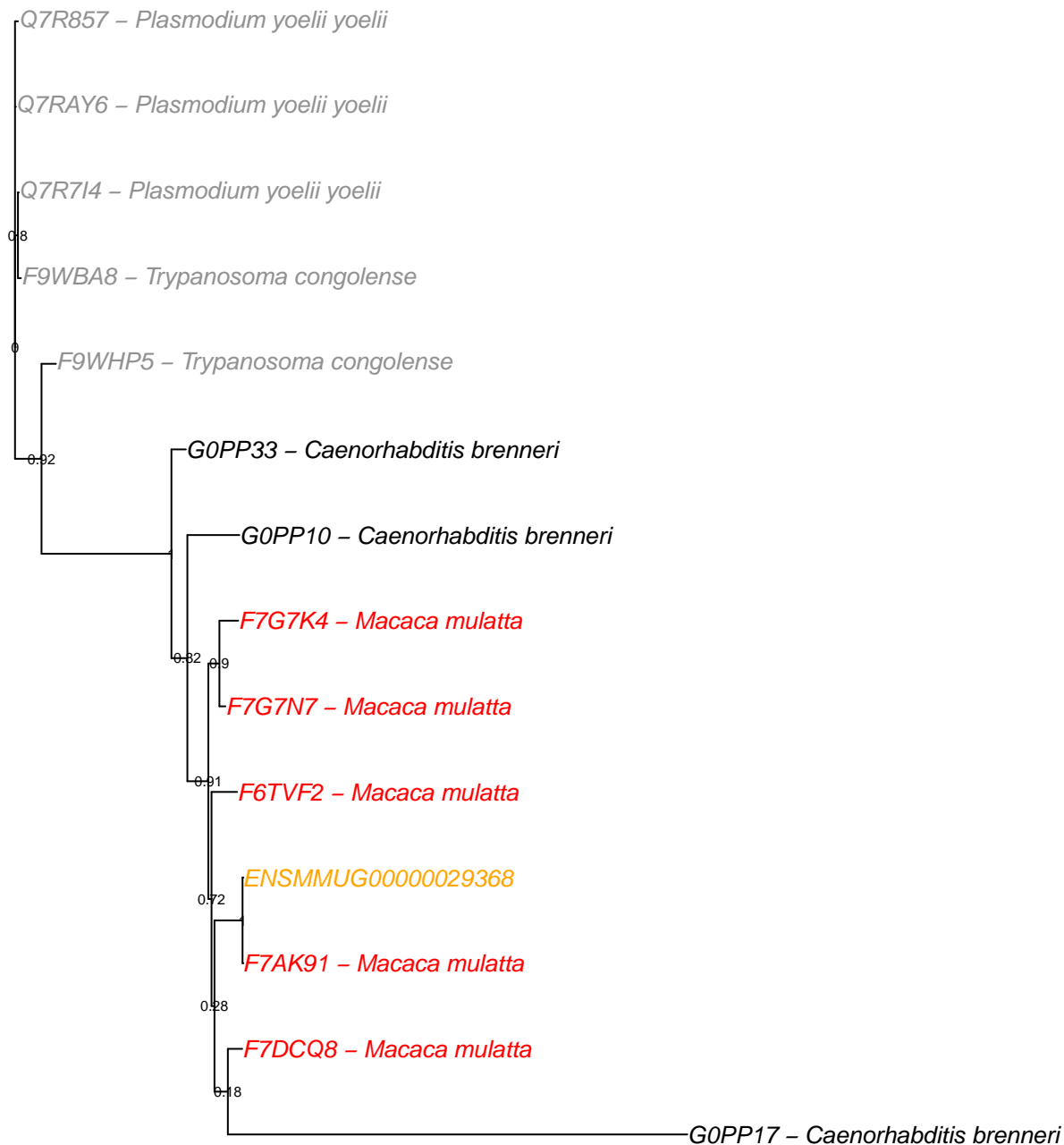


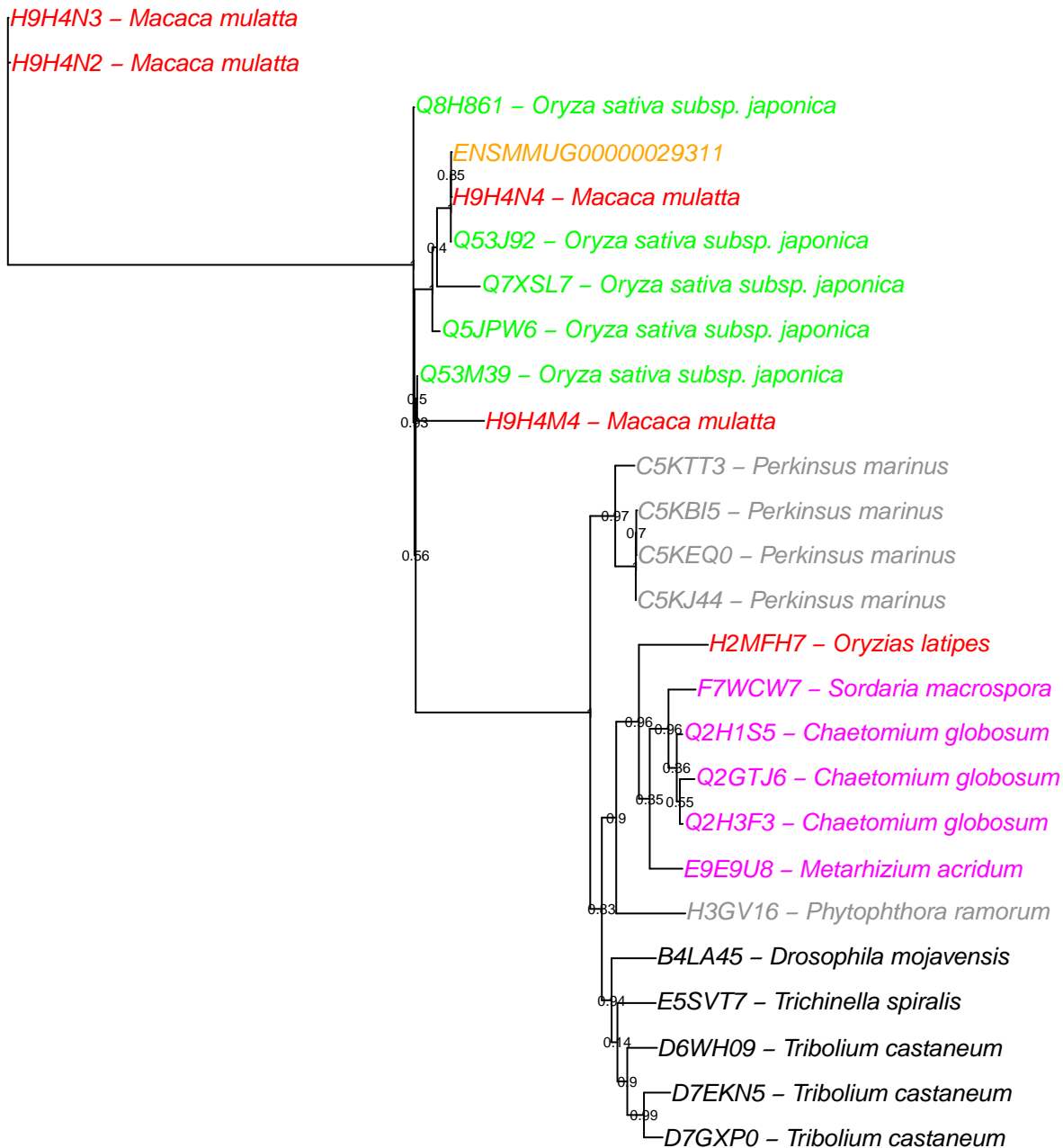


E2BBU0 – *Harpegnathos saltator*

E2BEA0 – *Harpegnathos saltator*







F2PN04 – *Trichophyton equinum*

F2S414 – *Trichophyton tonsurans*

ENSMMUG00000029303

H9H4L9 – *Macaca mulatta*

Q53J78 – *Oryza sativa* subsp. *japonica*

Q7X844 – *Oryza sativa* subsp. *japonica*

Q75K40 – *Oryza sativa* subsp. *japonica*

Q7XVQ7 – *Oryza sativa* subsp. *japonica*

H9H4L6 – *Macaca mulatta*

H9H4L5 – *Macaca mulatta*

H9H4L3 – *Macaca mulatta*

H9H4L7 – *Macaca mulatta*

Q53K94 – *Oryza sativa* subsp. *japonica*

I1CLK8 – *Rhizopus delemar*

F8IN54 – *Streptococcus equi* subsp. *zooepidemicus*

B4U0L4 – *Streptococcus equi* subsp. *zooepidemicus*

C0MGEO – *Streptococcus equi* subsp. *zooepidemicus*

C0MB27 – *Streptococcus equi* subsp. *equi*

C0MB36 – *Streptococcus equi* subsp. *equi*

F0U7I3 – *Ajellomyces capsulatus*

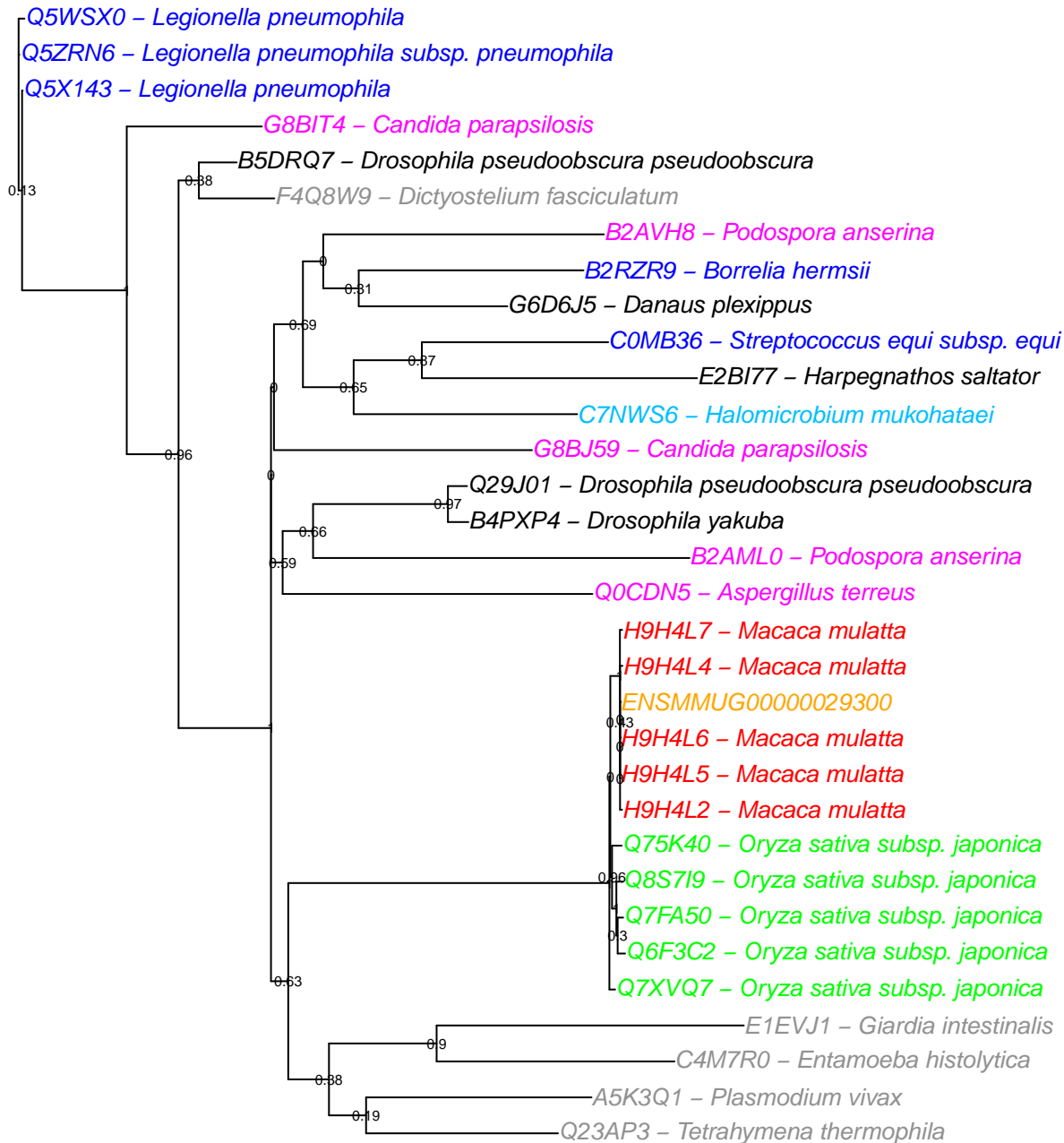
H9KL55 – *Apis mellifera*

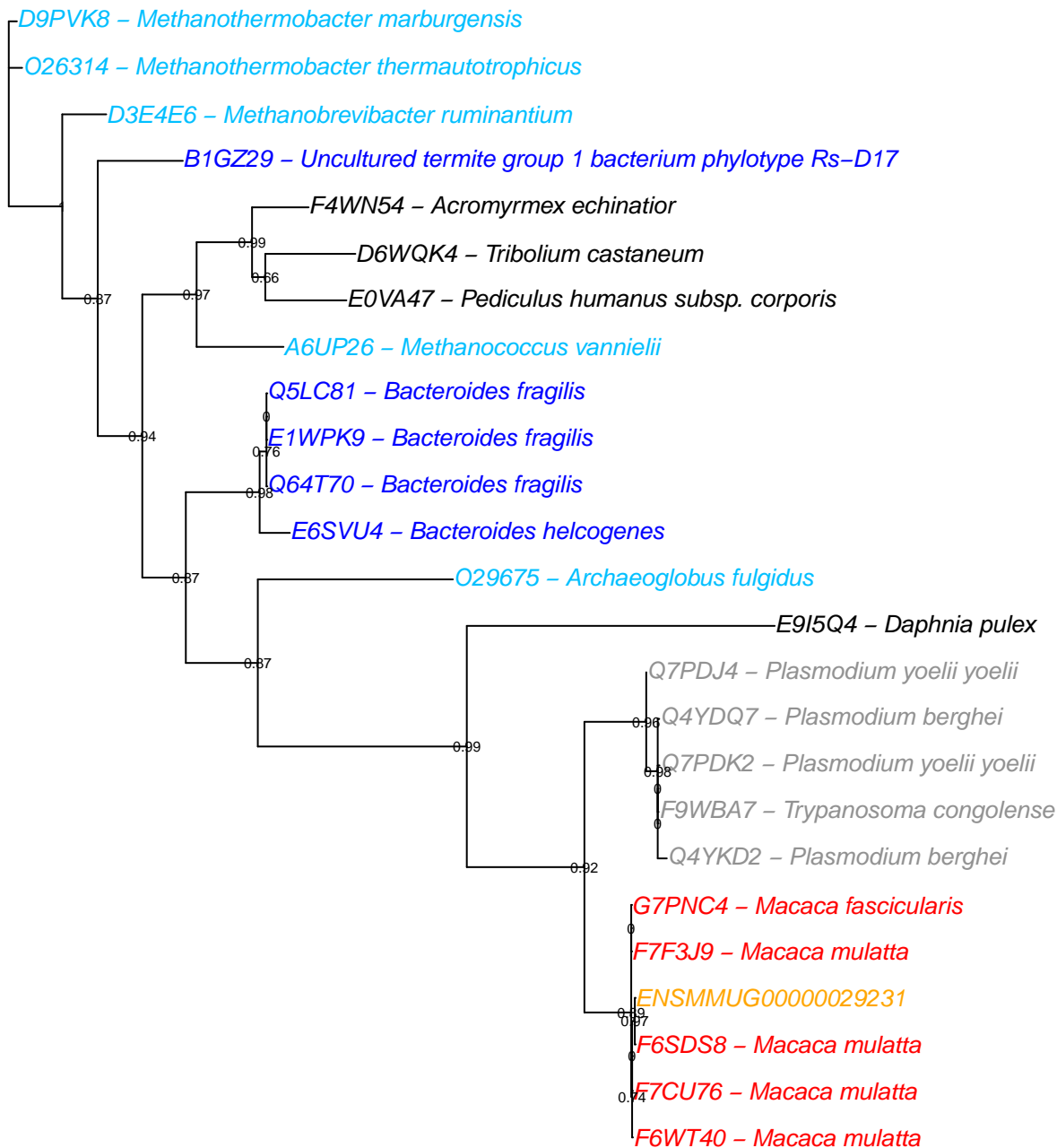
E3QUA1 – *Colletotrichum graminicola*

H2KQQ2 – *Clonorchis sinensis*

Q8TXA4 – *Methanopyrus kandleri*

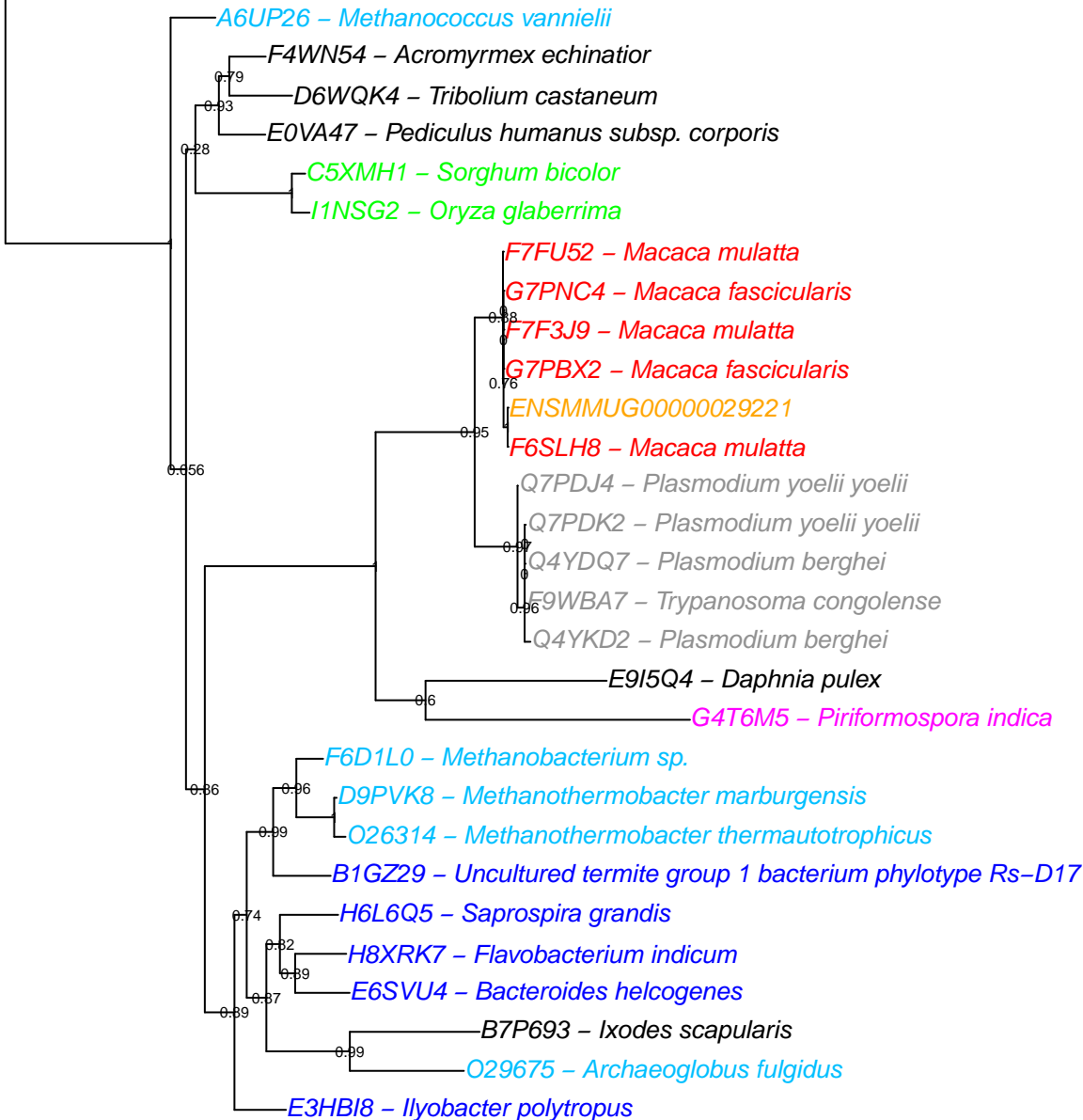
D2V8J7 – *Naegleria gruberi*





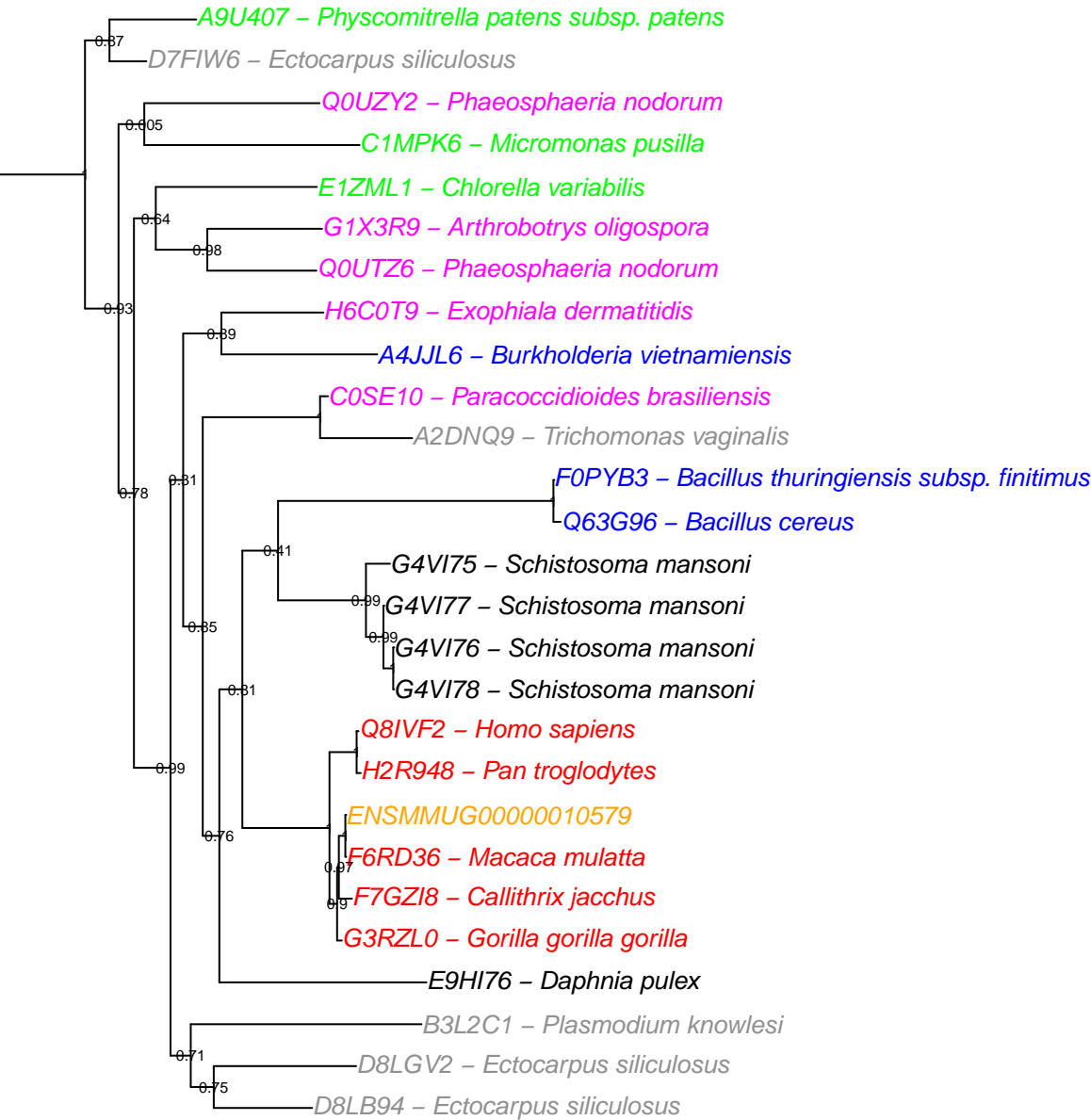
G7E539 – *Mixia osmundae*

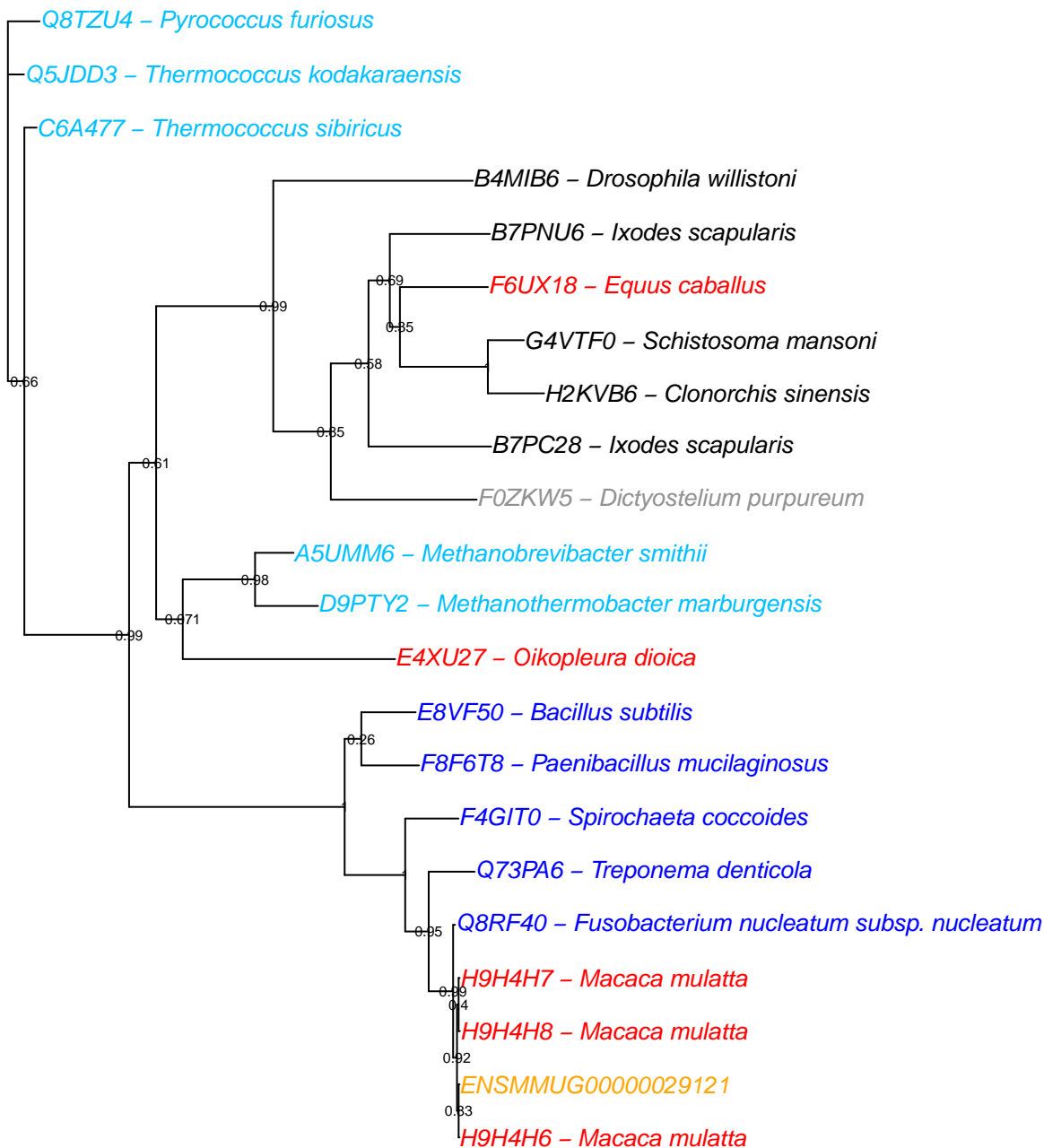
G7E538 – *Mixia osmundae*

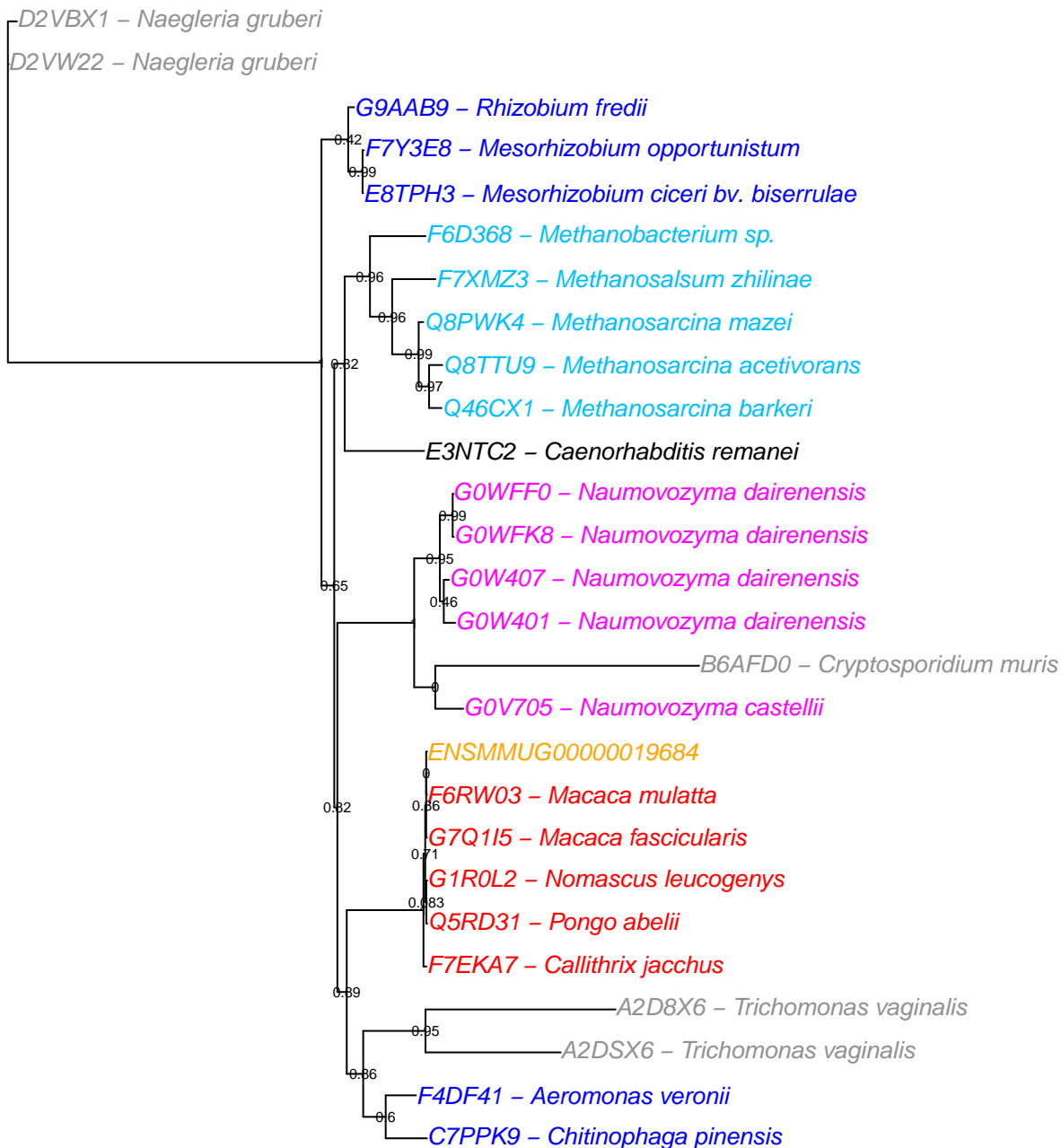


E8UK14 – *Streptococcus suis*

A4VZ88 – *Streptococcus suis*

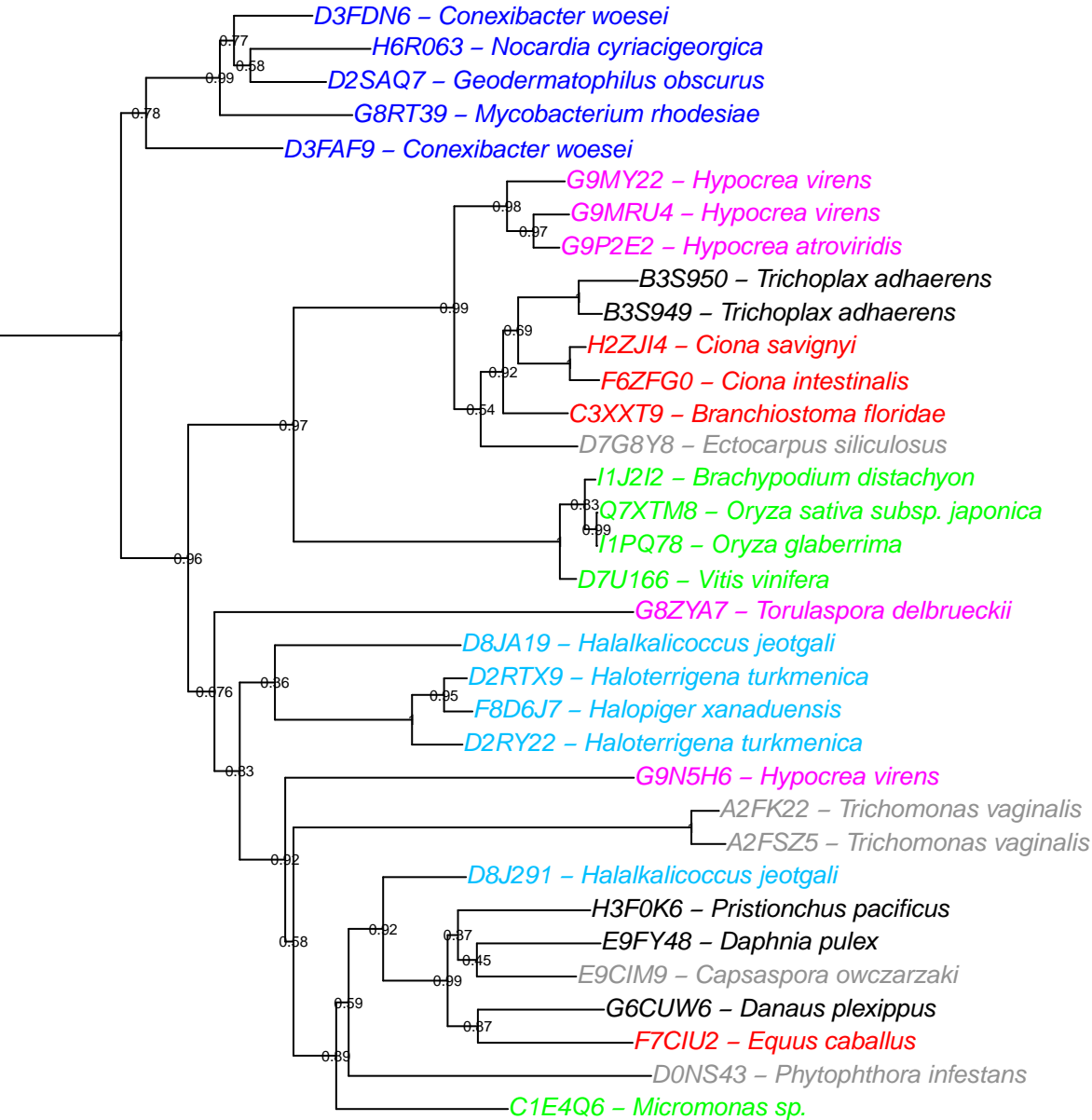


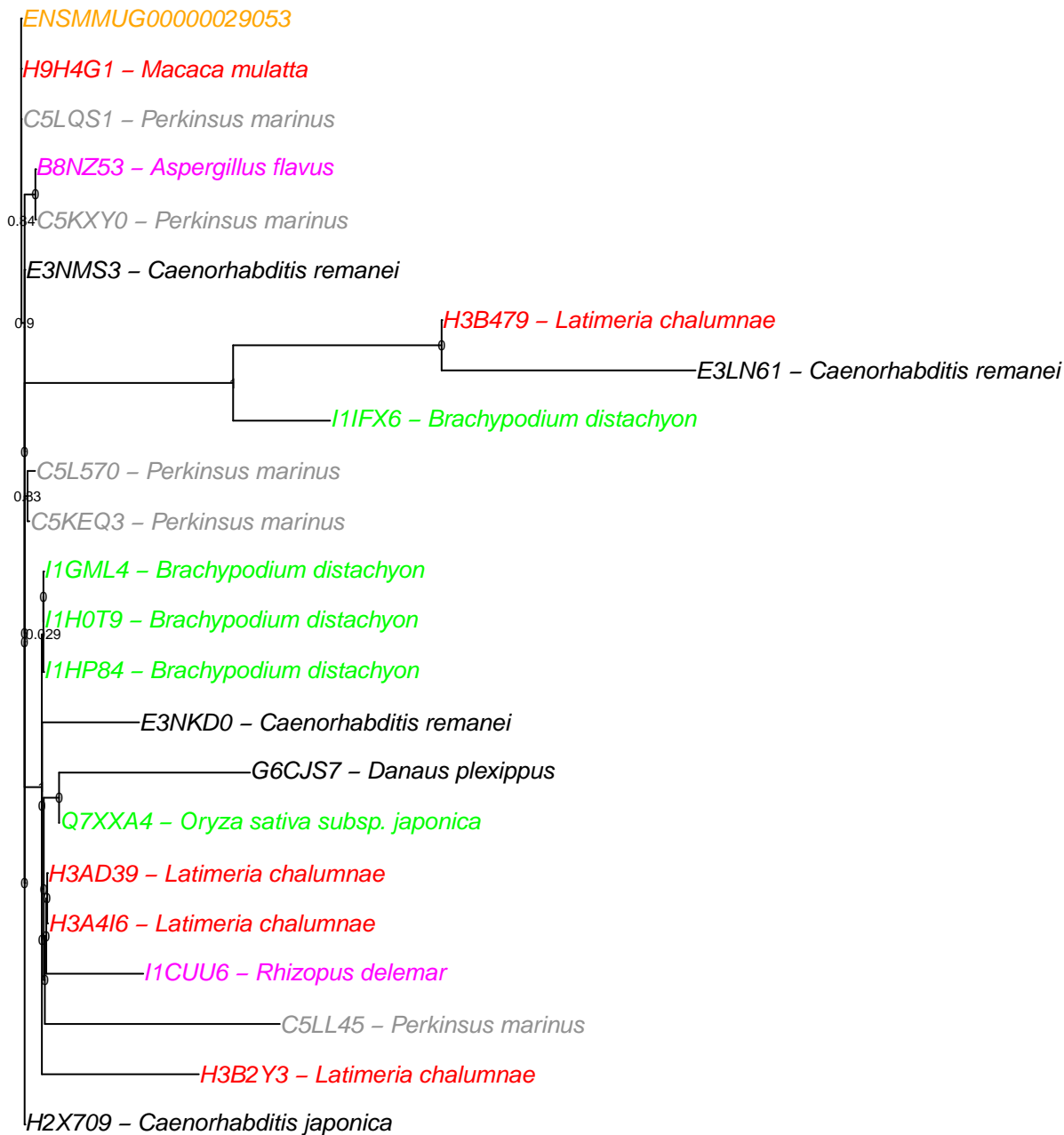


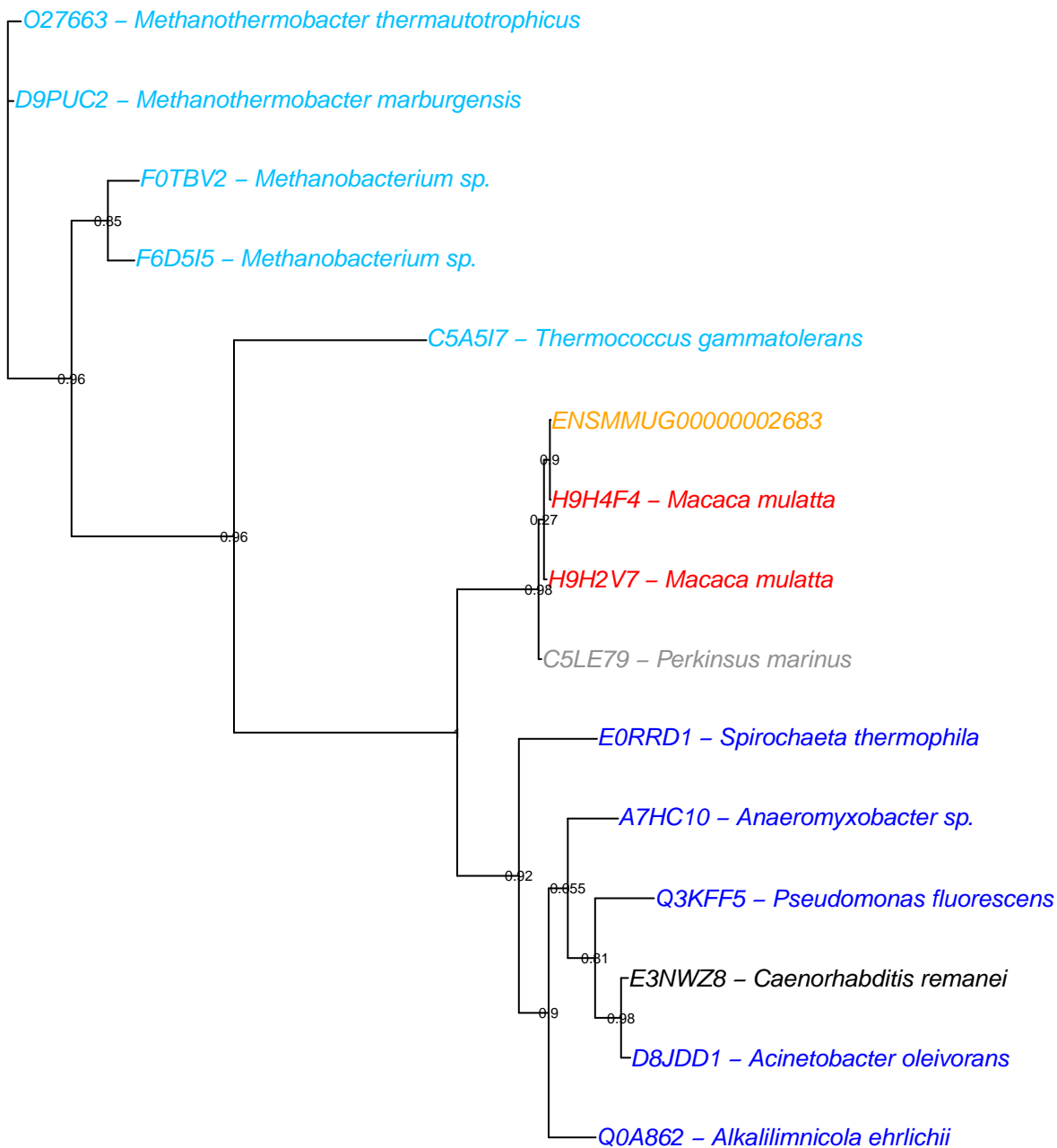


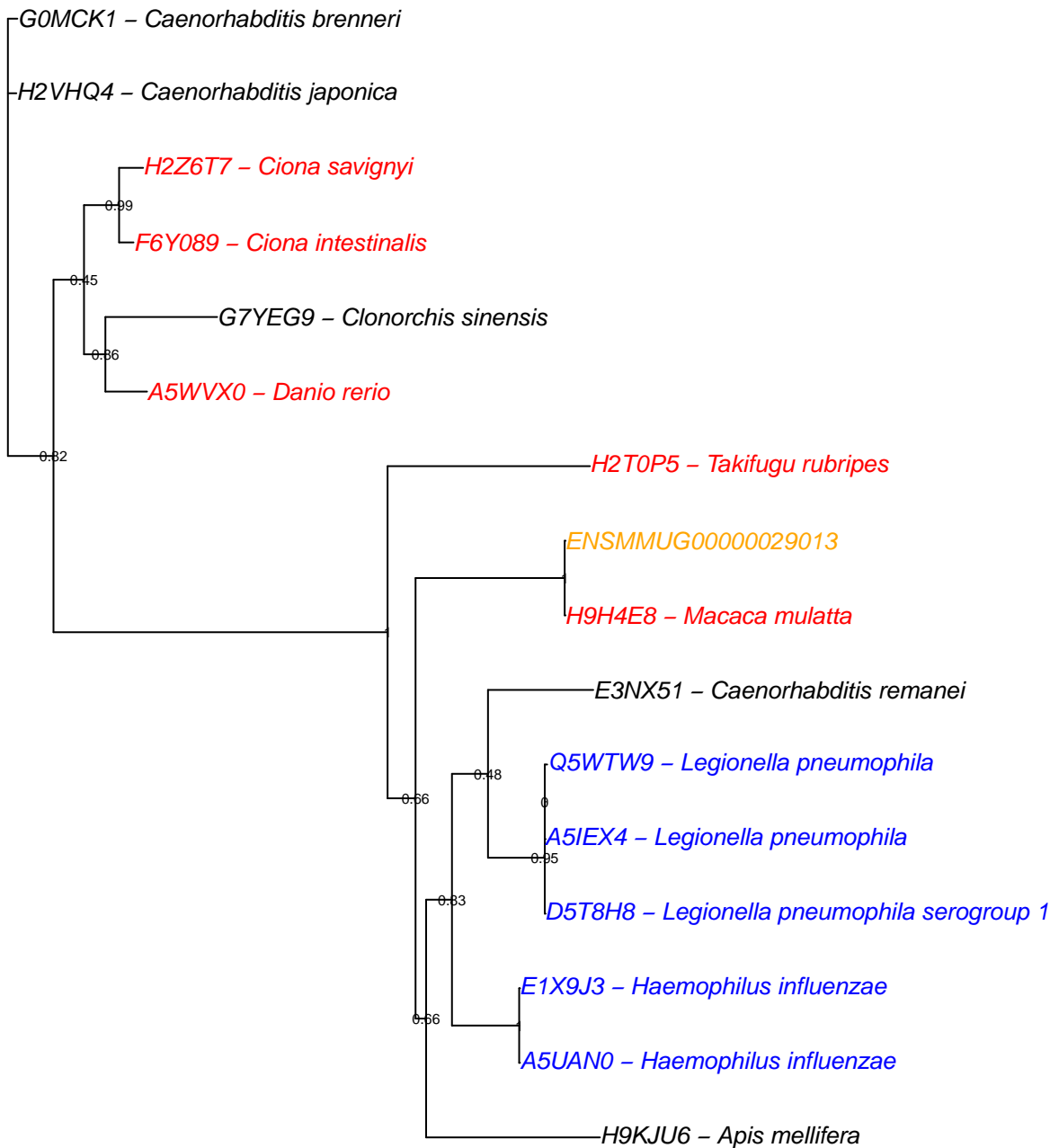
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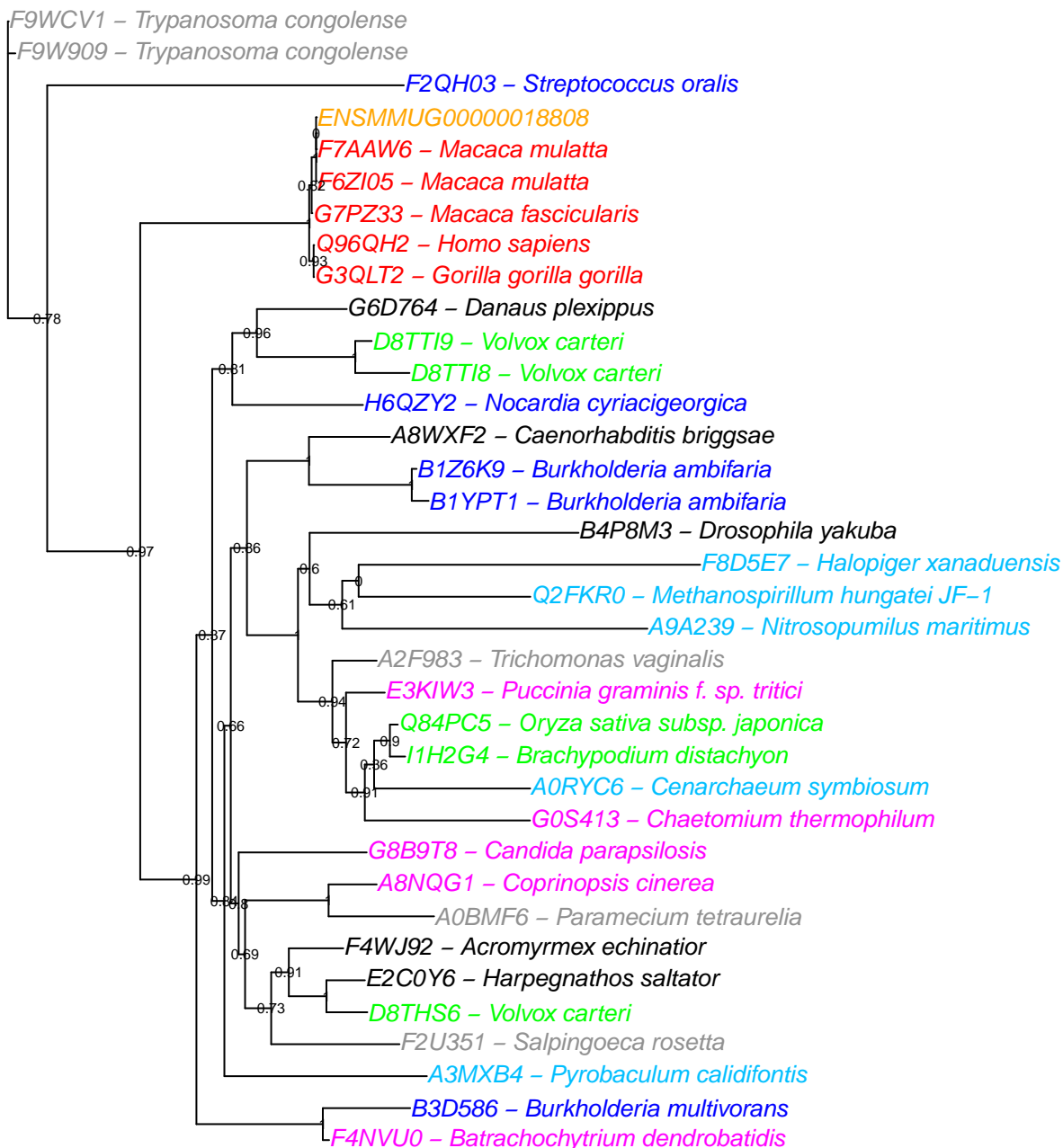
H9H4G4 – *Macaca mulatta*



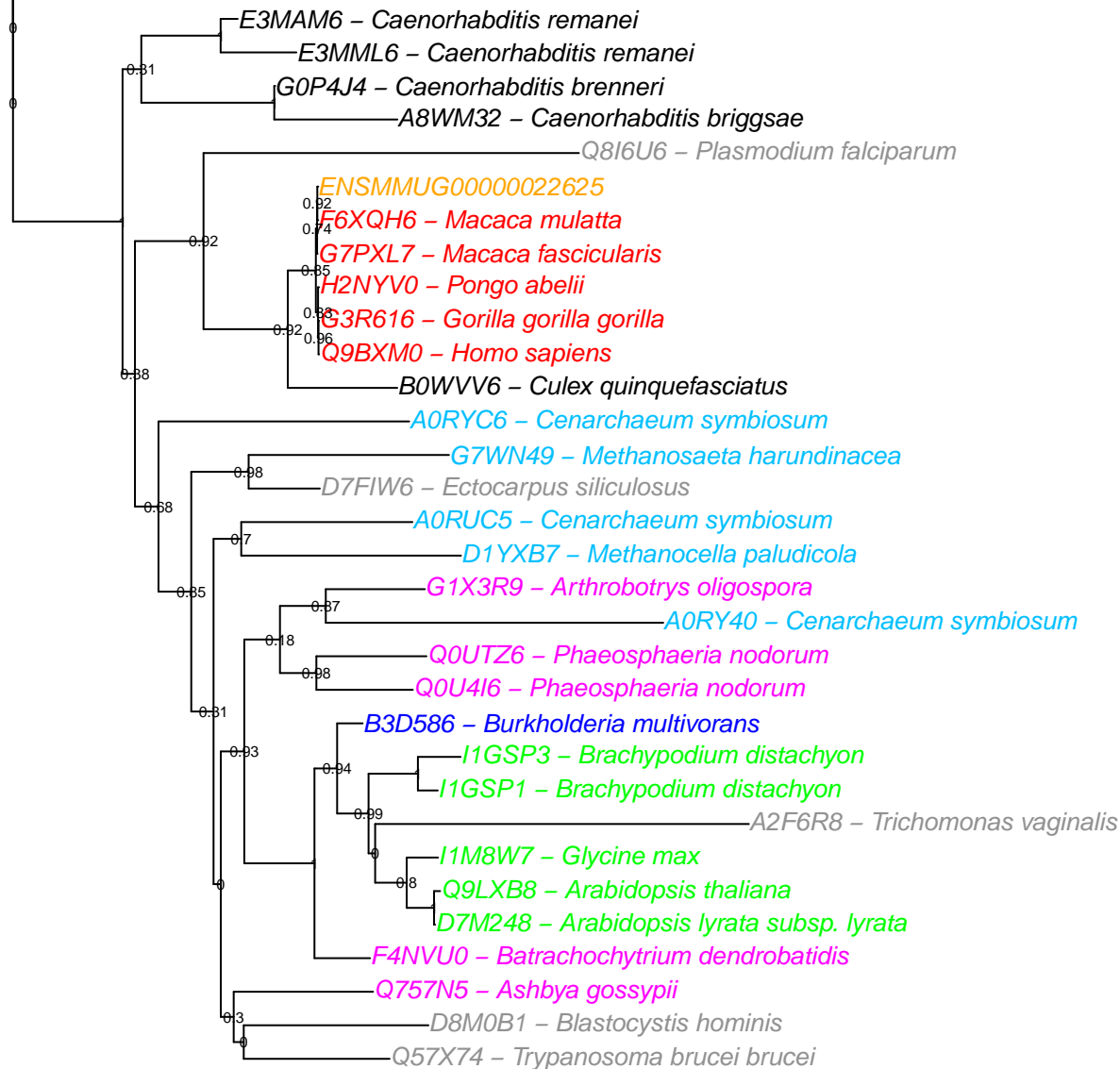


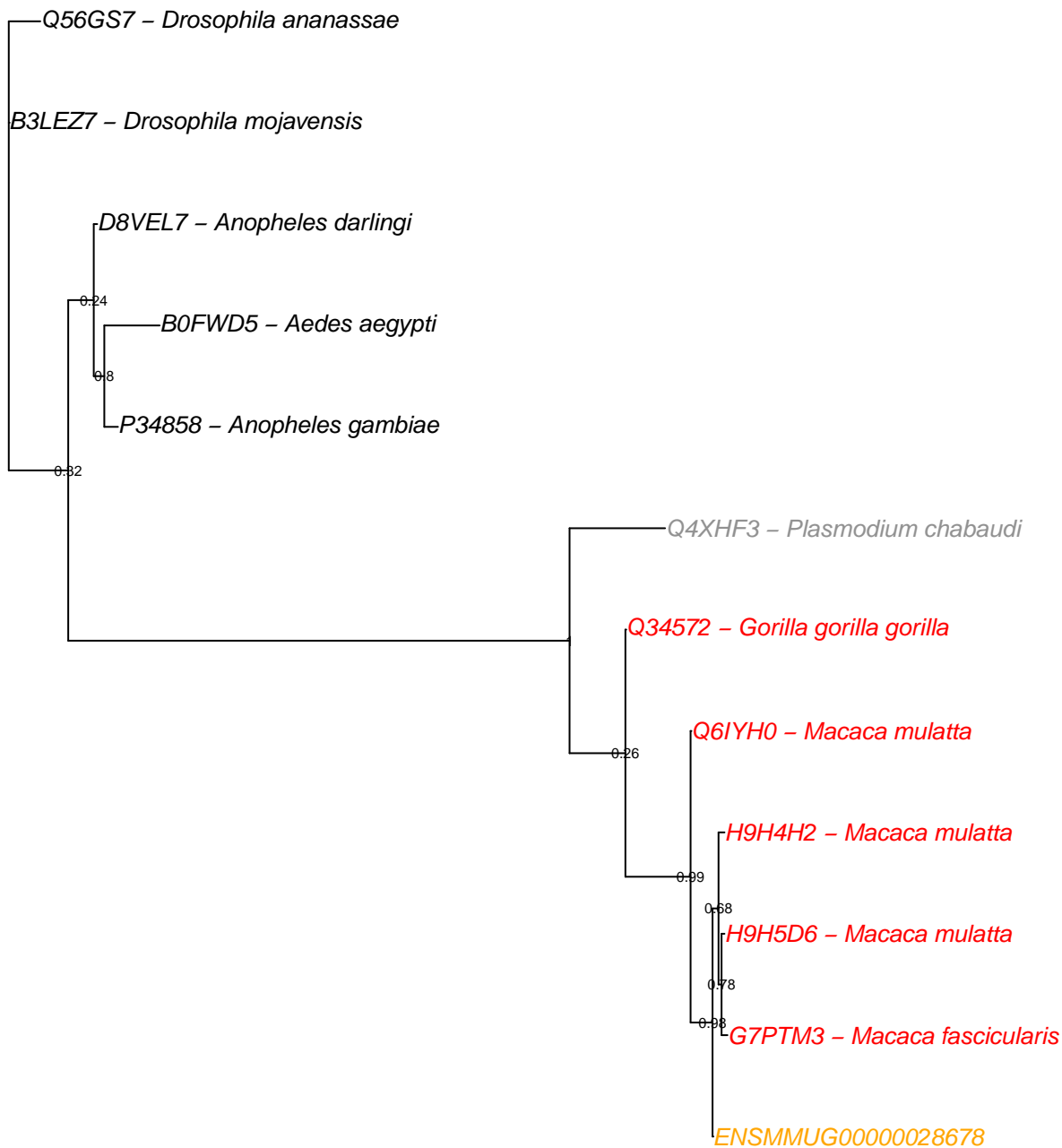






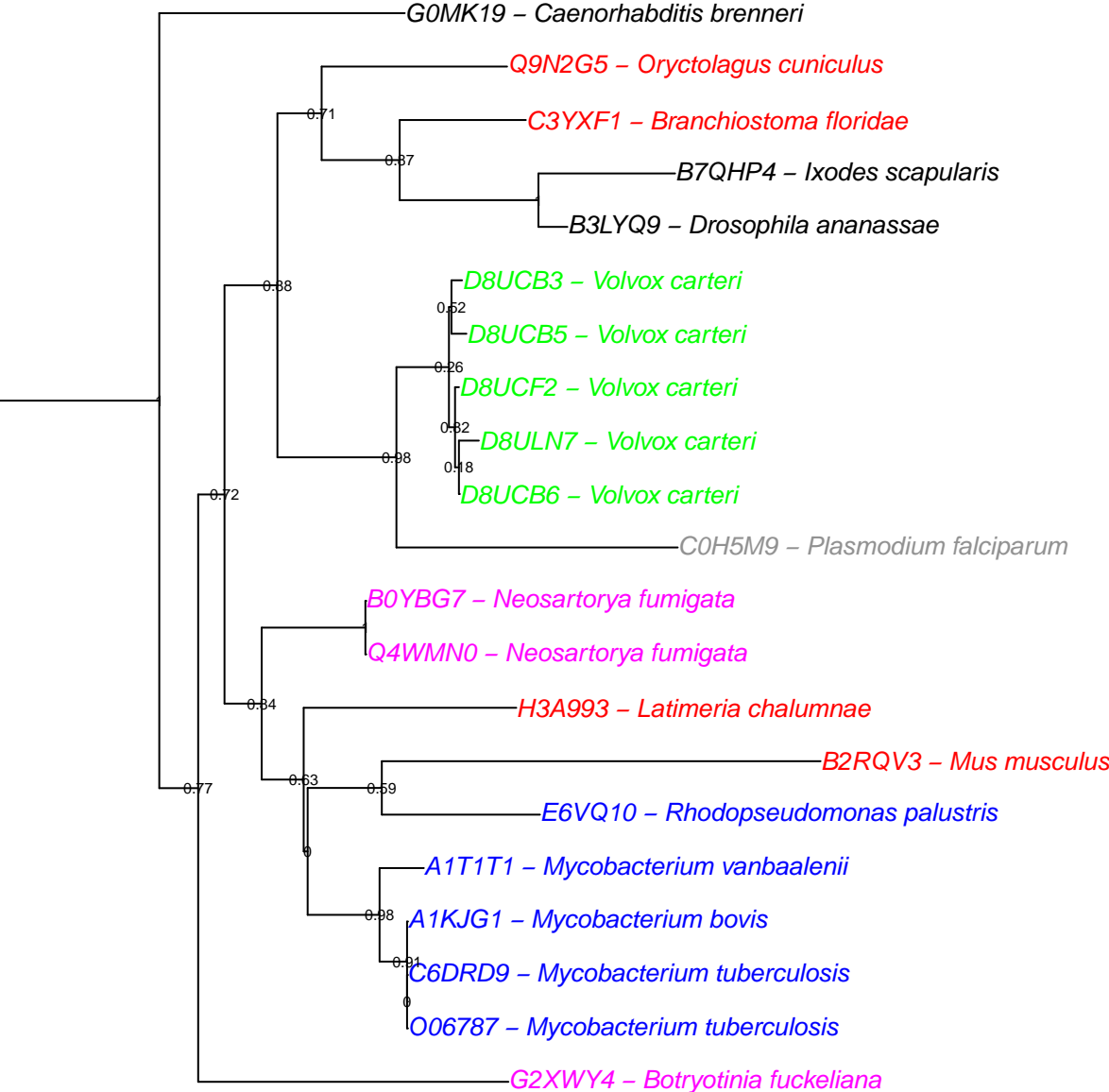
E8UK14 – *Streptococcus suis*
A4VZ88 – *Streptococcus suis*
A4VT03 – *Streptococcus suis*
D5AFV0 – *Streptococcus suis*





ENSMMUG00000023607

F7HD95 – *Macaca mulatta*



ENSMMUG00000023591

F7HFN8 – *Macaca mulatta*

G7P645 – *Macaca fascicularis*

G1S333 – *Nomascus leucogenys*

G1MAW2 – *Ailuropoda melanoleuca*

G1SSA0 – *Oryctolagus cuniculus*

F2UDG6 – *Salpingoeca rosetta*

0.89

Q01B47 – *Ostreococcus tauri*

A4RVW3 – *Ostreococcus lucimarinus*

C1MXA3 – *Micromonas pusilla*

C1EED1 – *Micromonas* sp.

A8HN67 – *Chlamydomonas reinhardtii*

0.98

E9C8T2 – *Capsaspora owczarzaki*

D3BTJ6 – *Polysphondylium pallidum*

0.51

A2EMN4 – *Trichomonas vaginalis*

0.92

I1CCW6 – *Rhizopus delemar*

0.74

C4M7F8 – *Entamoeba histolytica*

0.27

C4R568 – *Komagataella pastoris*

F2QVS4 – *Komagataella pastoris*

C4XY18 – *Clavispora lusitaniae*

0.34

E5SQS0 – *Trichinella spiralis*

E5SRH0 – *Trichinella spiralis*

0.21

C4QDY7 – *Schistosoma mansoni*

C4QDY6 – *Schistosoma mansoni*

0.99

G7Y832 – *Clonorchis sinensis*

G0S XK3 – *Rhodotorula glutinis*

C6Y493 – *Pedobacter heparinus*

F4C1J9 – *Sphingobacterium* sp.

0.93

Q09BZ9 – *Stigmatella aurantiaca*

0.96

D8J3A3 – *Halalkalicoccus jeotgali*

0.98

O67840 – *Aquifex aeolicus*

E6WZP0 – *Nitratifactor salsuginis*

0.92

D5VTI7 – *Methanocaldococcus infernus*

0.22

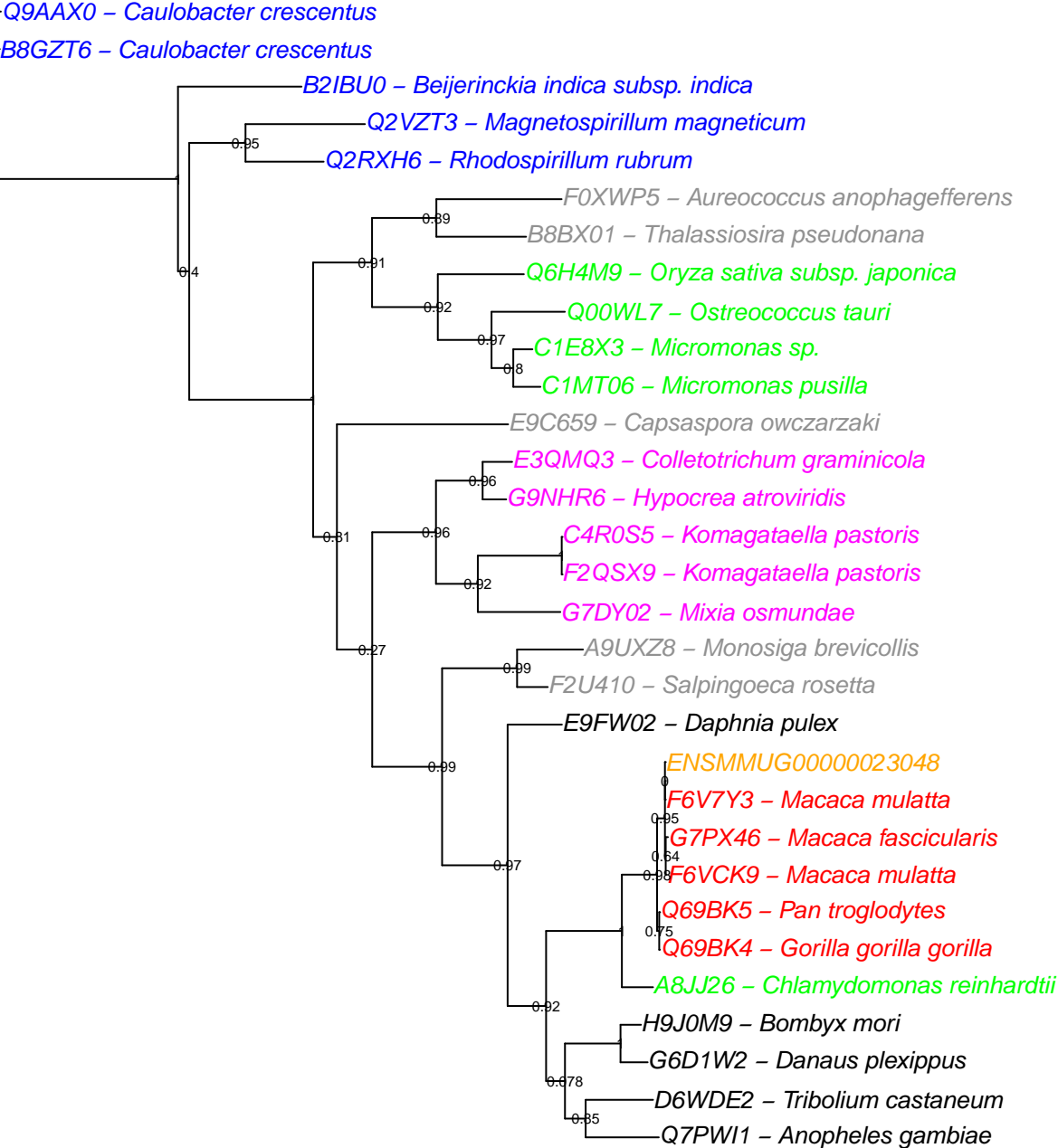
Q6LWX3 – *Methanococcus maripaludis*

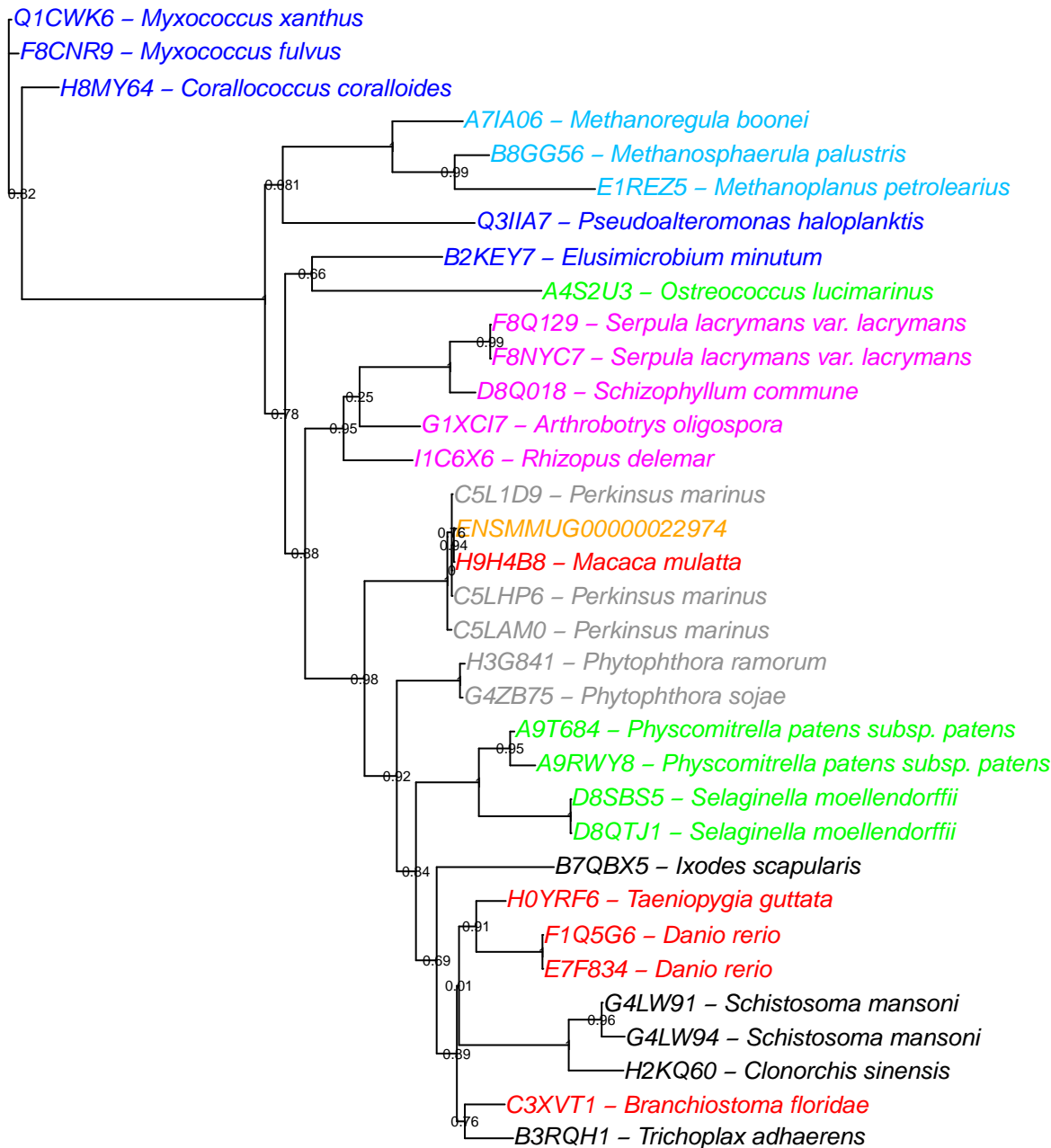
0.94

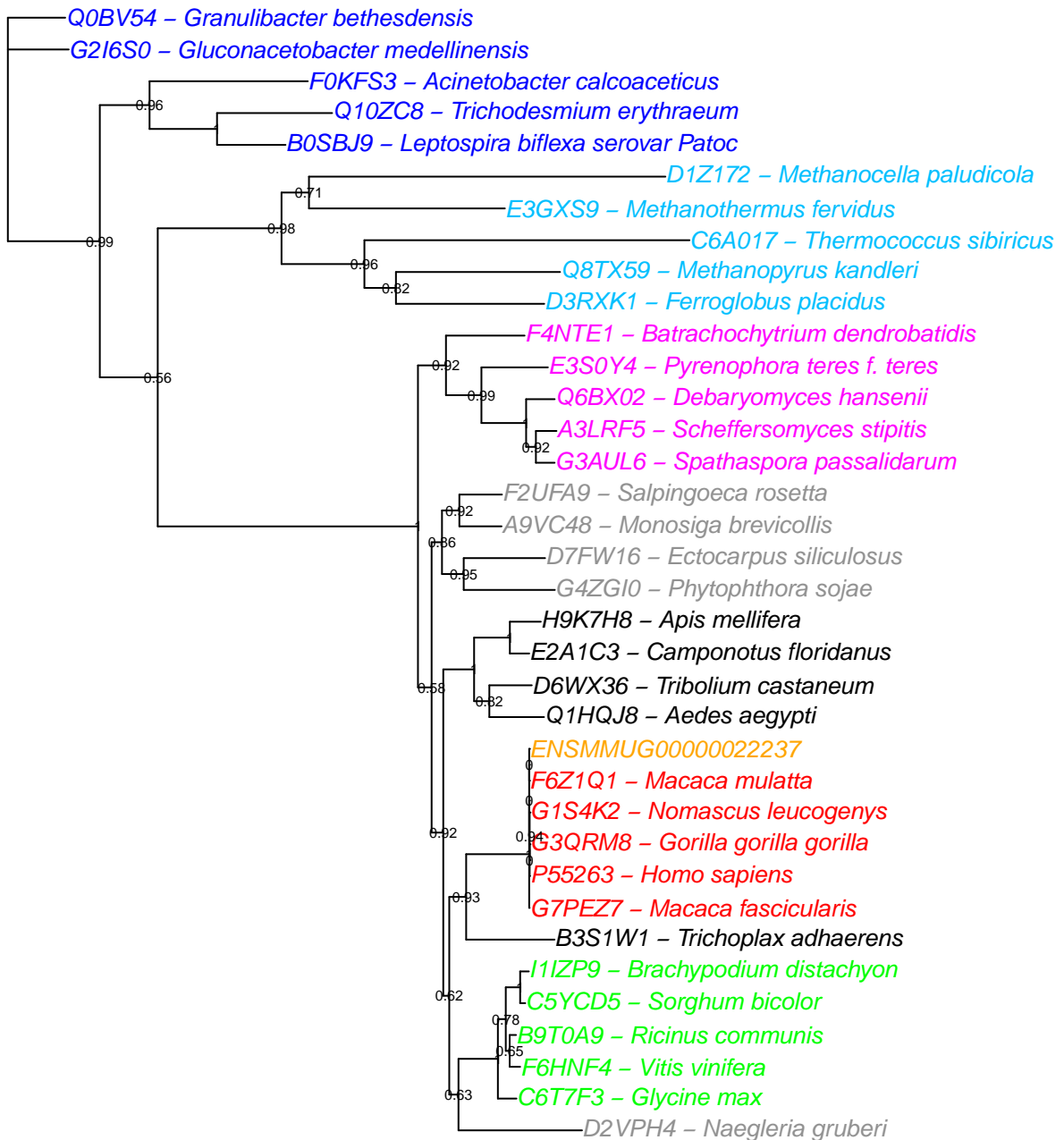
O27671 – *Methanothermobacter thermautotrophicus*

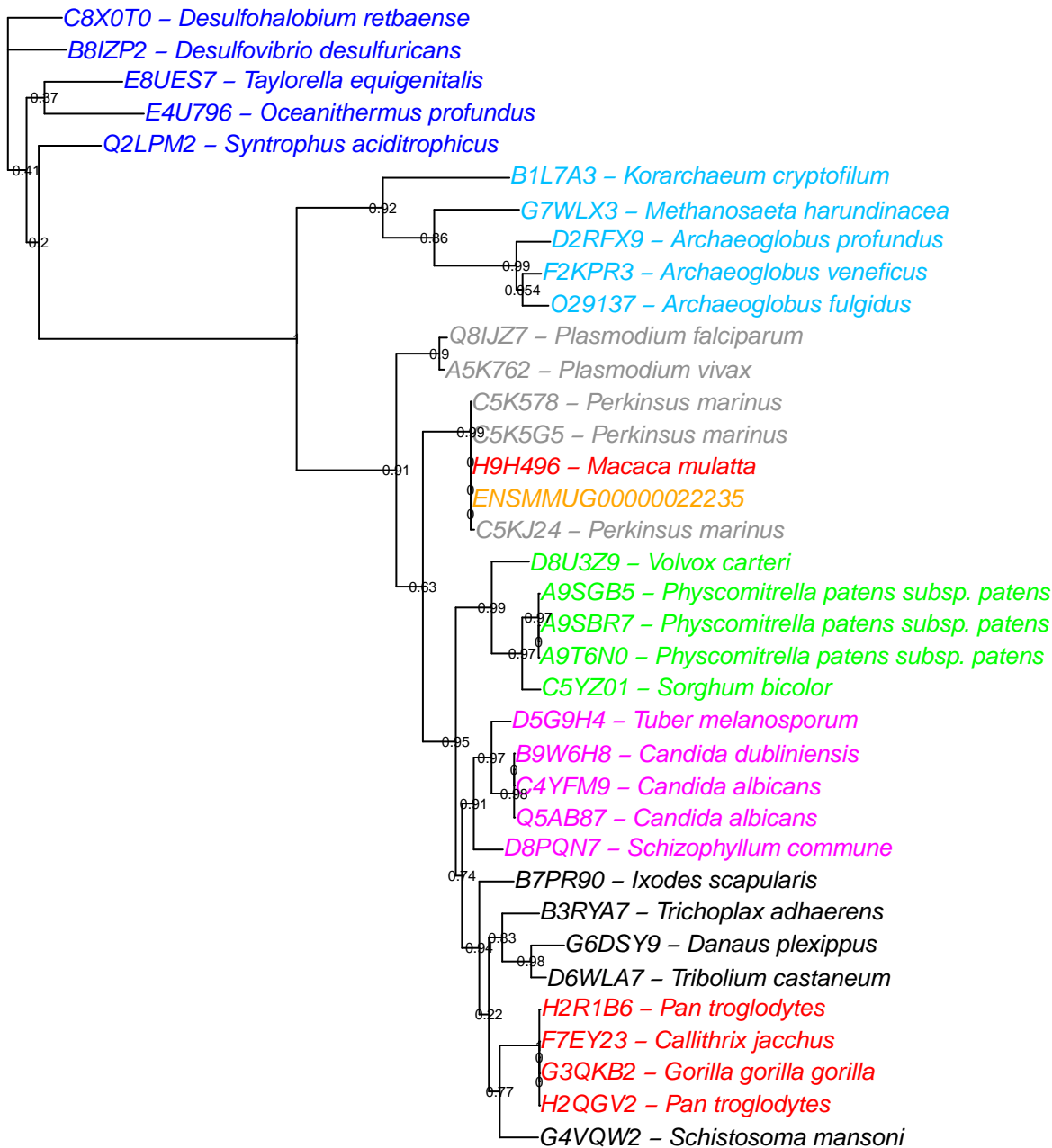
0.99

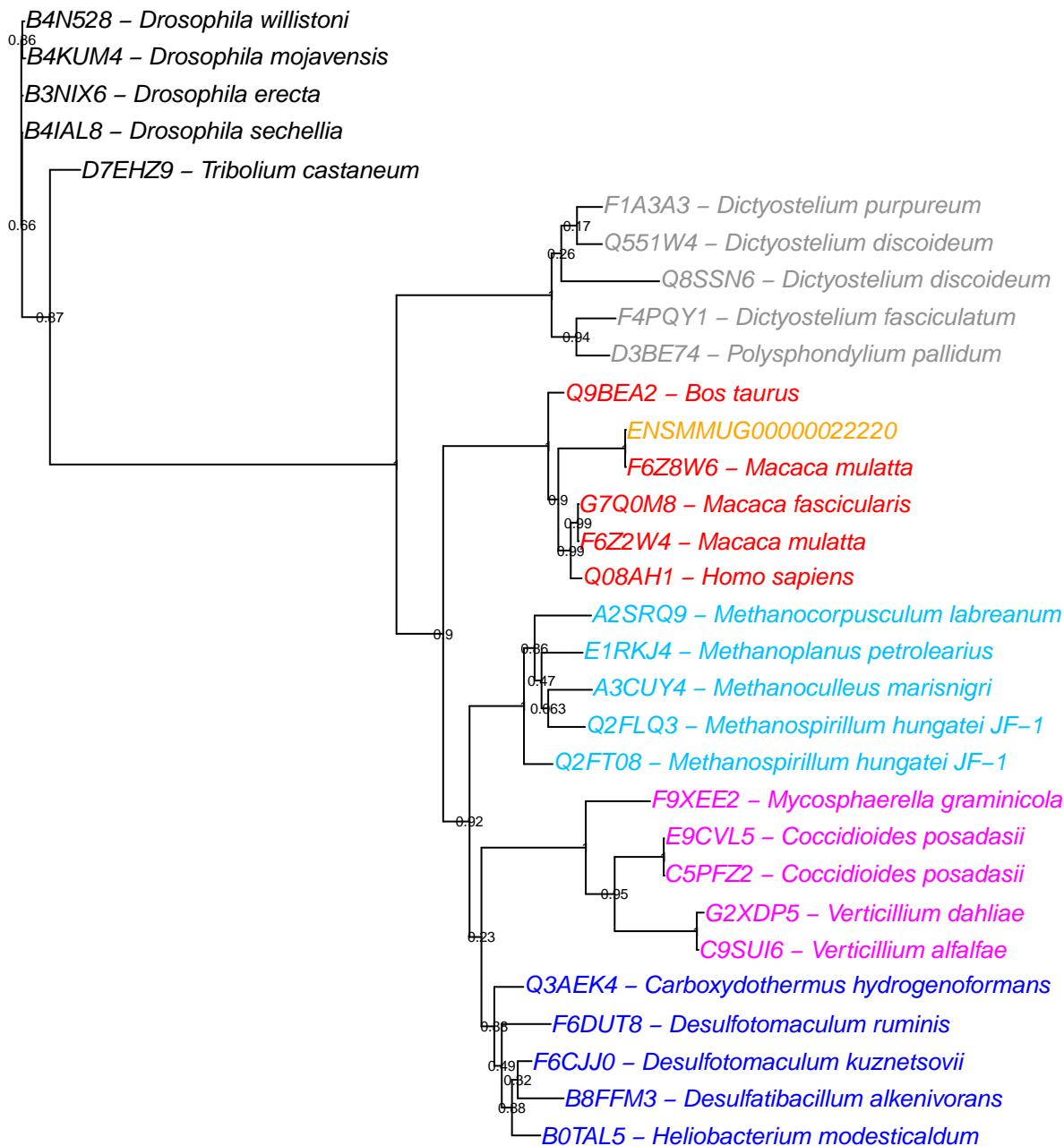
Q8TZ69 – *Methanopyrus kandleri*

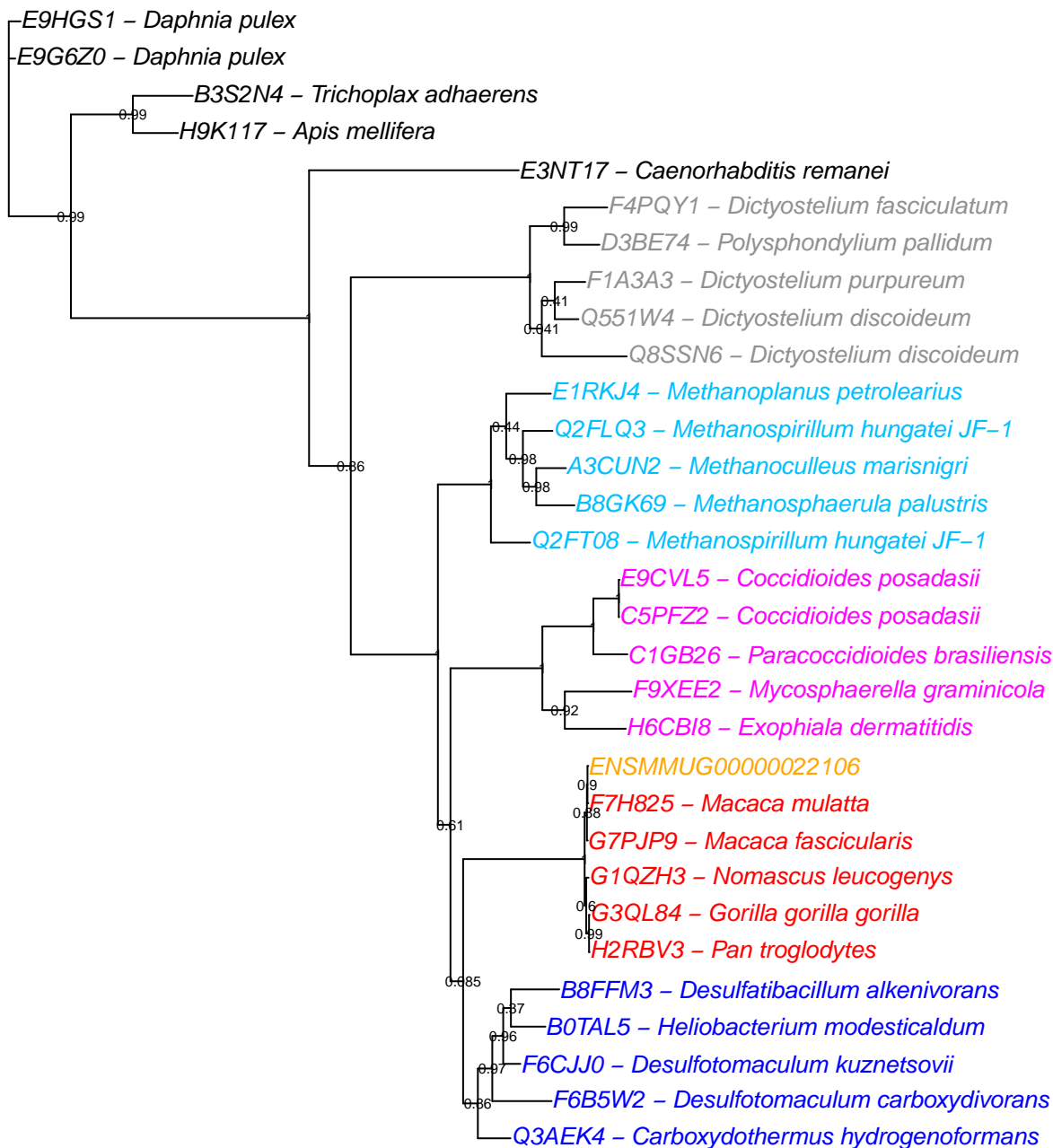


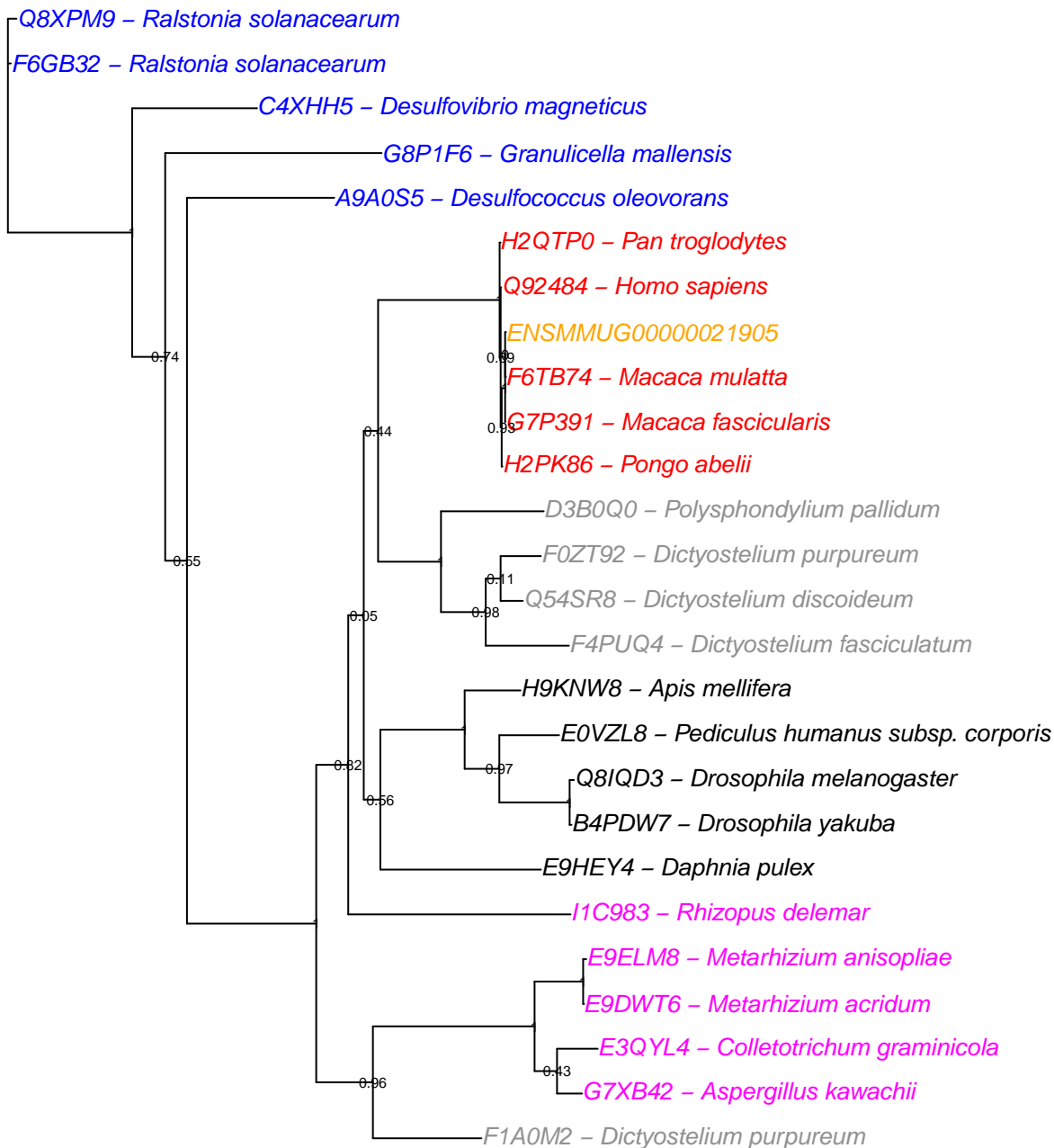






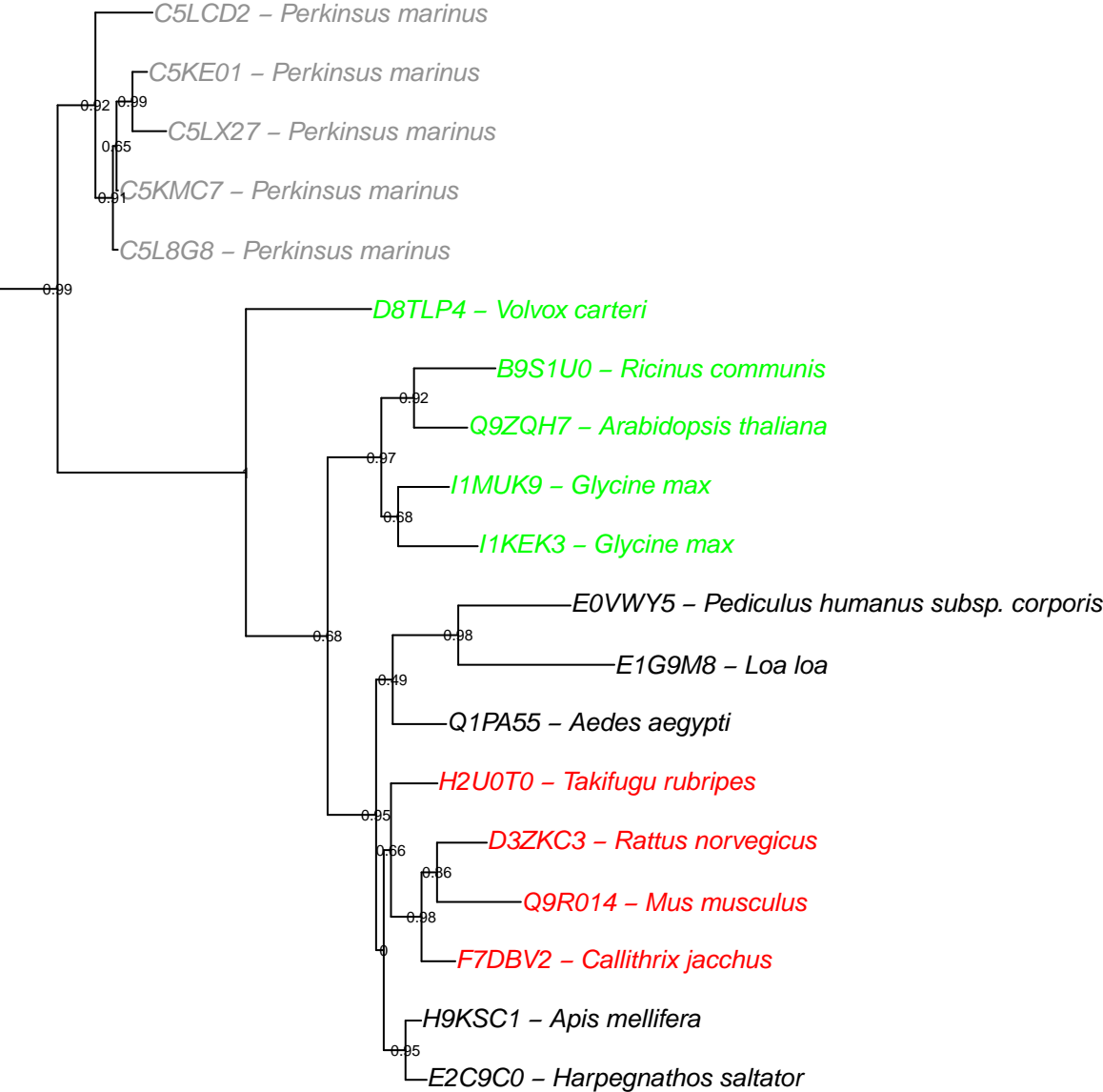


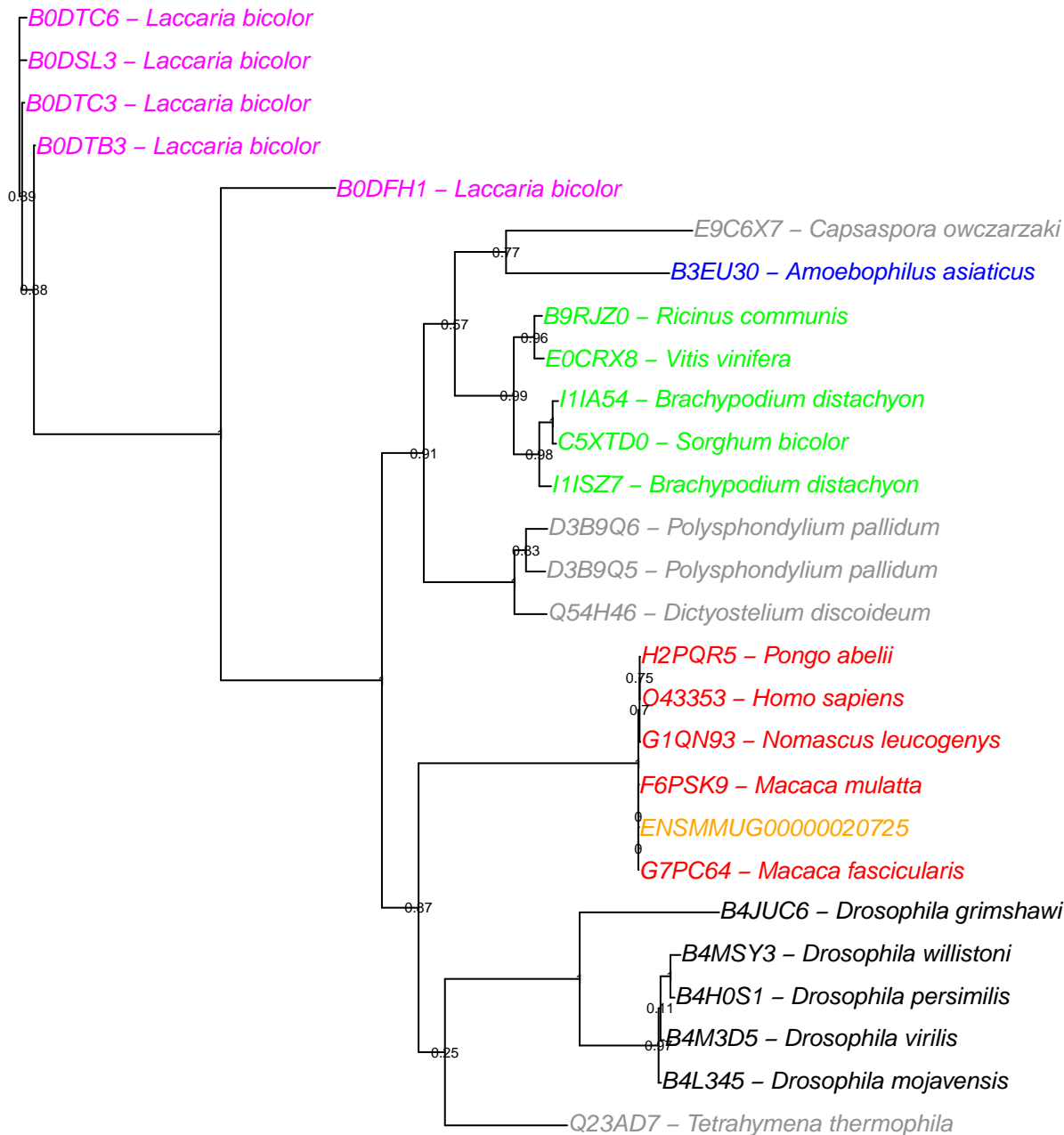


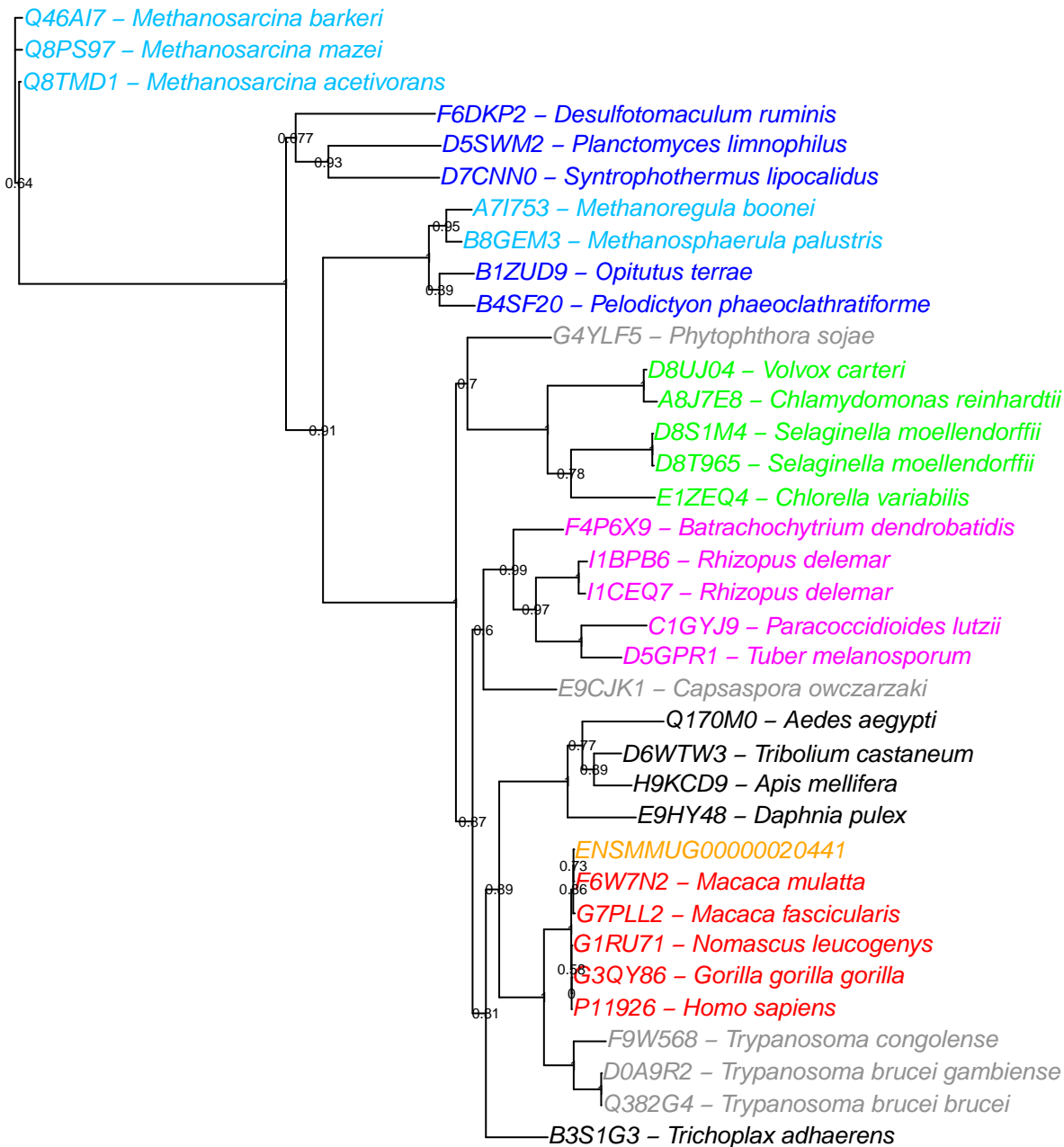


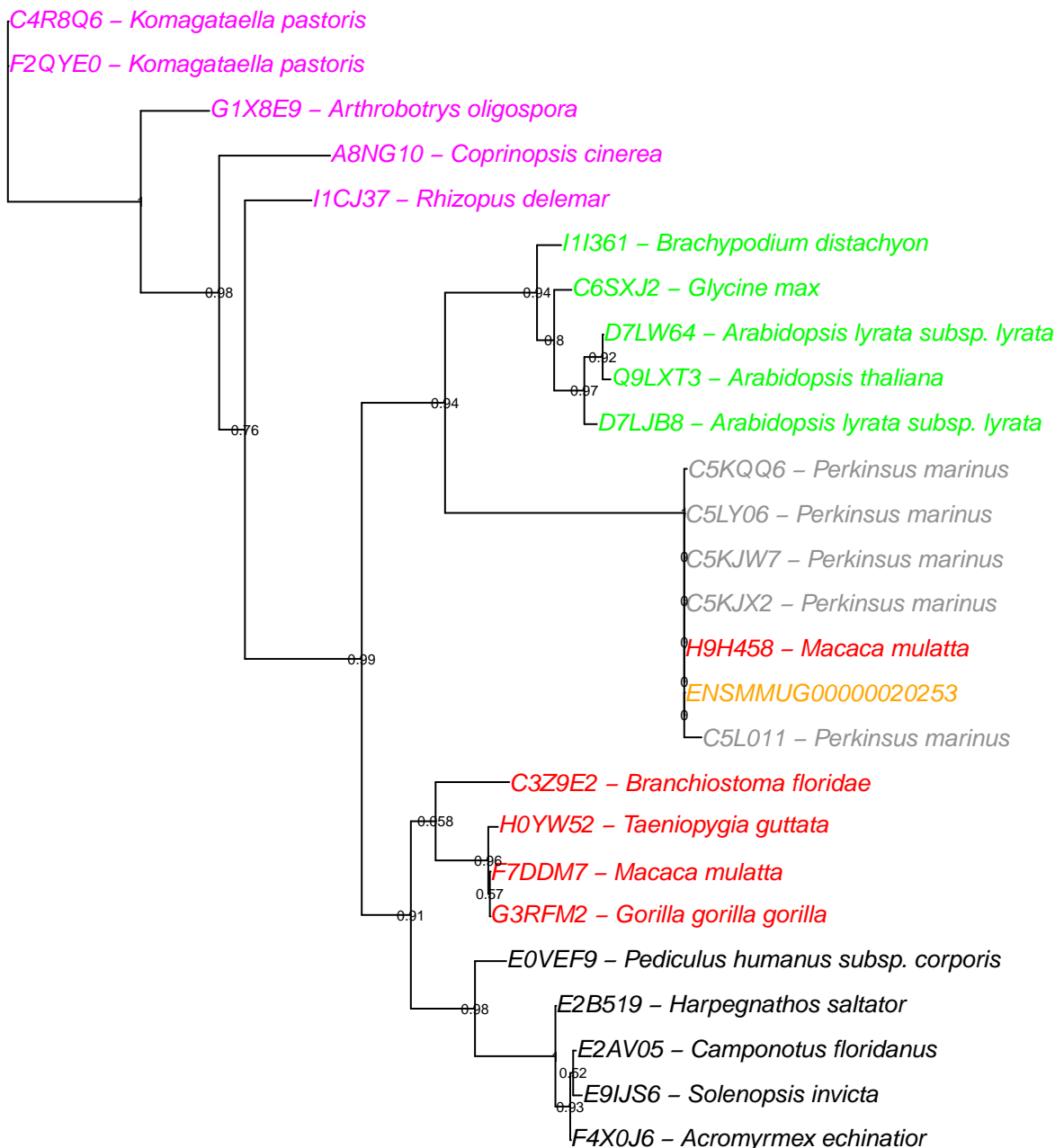
ENSMMUG00000021319

H9H485 – *Macaca mulatta*









E9DJR5 – *Coccidioides posadasii*

C5NZC7 – *Coccidioides posadasii*

H0EDT8 – *Glarea lozoyensis*

E5R5A2 – *Leptosphaeria maculans*

Q0UT42 – *Phaeosphaeria nodorum*

D2VT28 – *Naegleria gruberi*

Q688M9 – *Oryza sativa subsp. japonica*

Q0DID5 – *Oryza sativa subsp. japonica*

I1PVF3 – *Oryza glaberrima*

B9SFP3 – *Ricinus communis*

D7TPC1 – *Vitis vinifera*

ENSMUMUG00000020113

G7P784 – *Macaca fascicularis*

F7GKB9 – *Macaca mulatta*

G3RE16 – *Gorilla gorilla gorilla*

Q96DG6 – *Homo sapiens*

G1RLJ6 – *Nomascus leucogenys*

H2KRB2 – *Clonorchis sinensis*

F2U1G5 – *Salpingoeca rosetta*

A9UU12 – *Monosiga brevicollis*

A4HQB7 – *Leishmania braziliensis*

D8LF35 – *Ectocarpus siliculosus*

A3CTZ7 – *Methanoculleus marisnigri*

Q8PUA9 – *Methanosarcina mazei*

G7WL46 – *Methanosaeta harundinacea*

G2LEN1 – *Chloracidobacterium thermophilum*

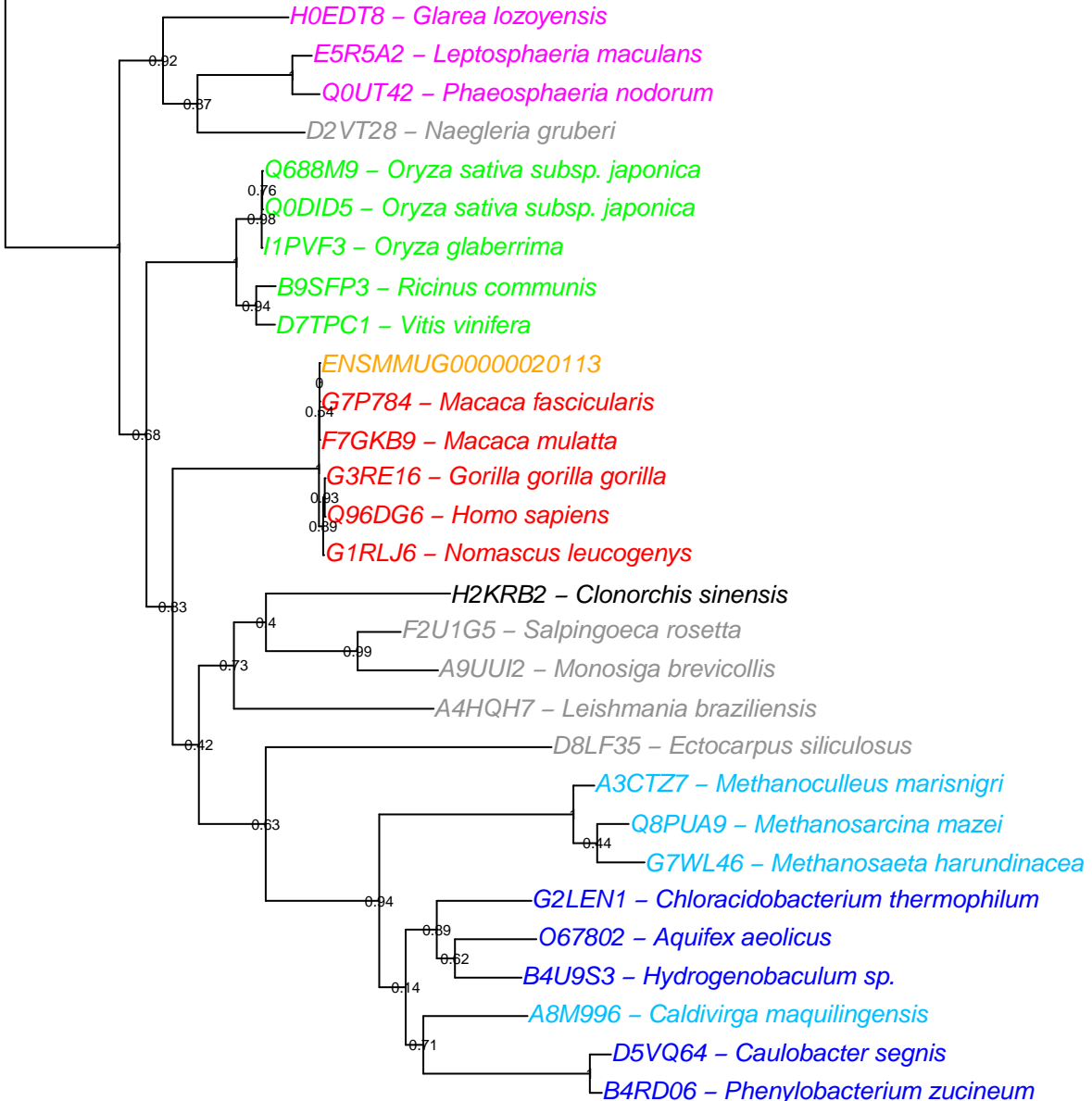
O67802 – *Aquifex aeolicus*

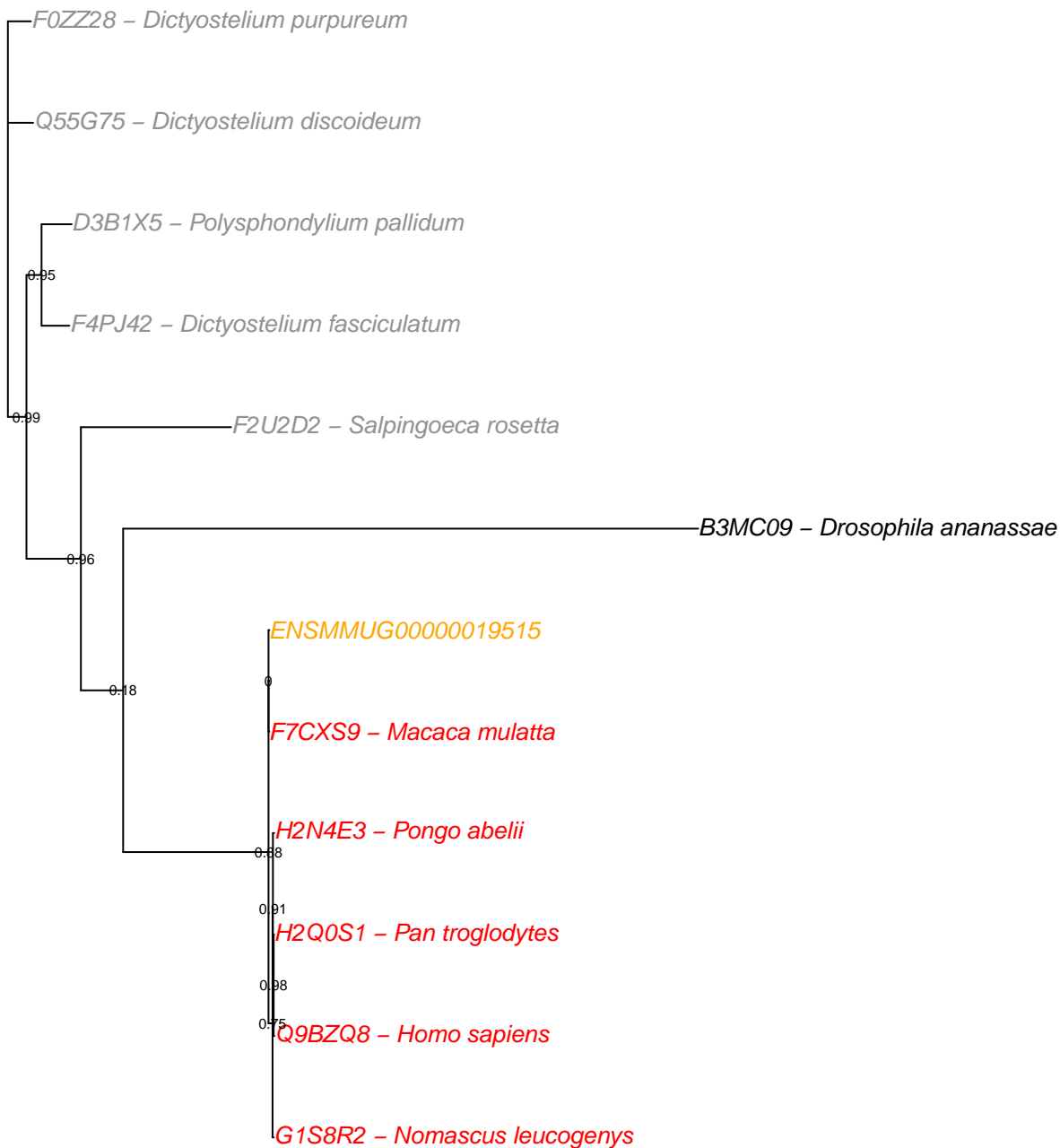
B4U9S3 – *Hydrogenobaculum* sp.

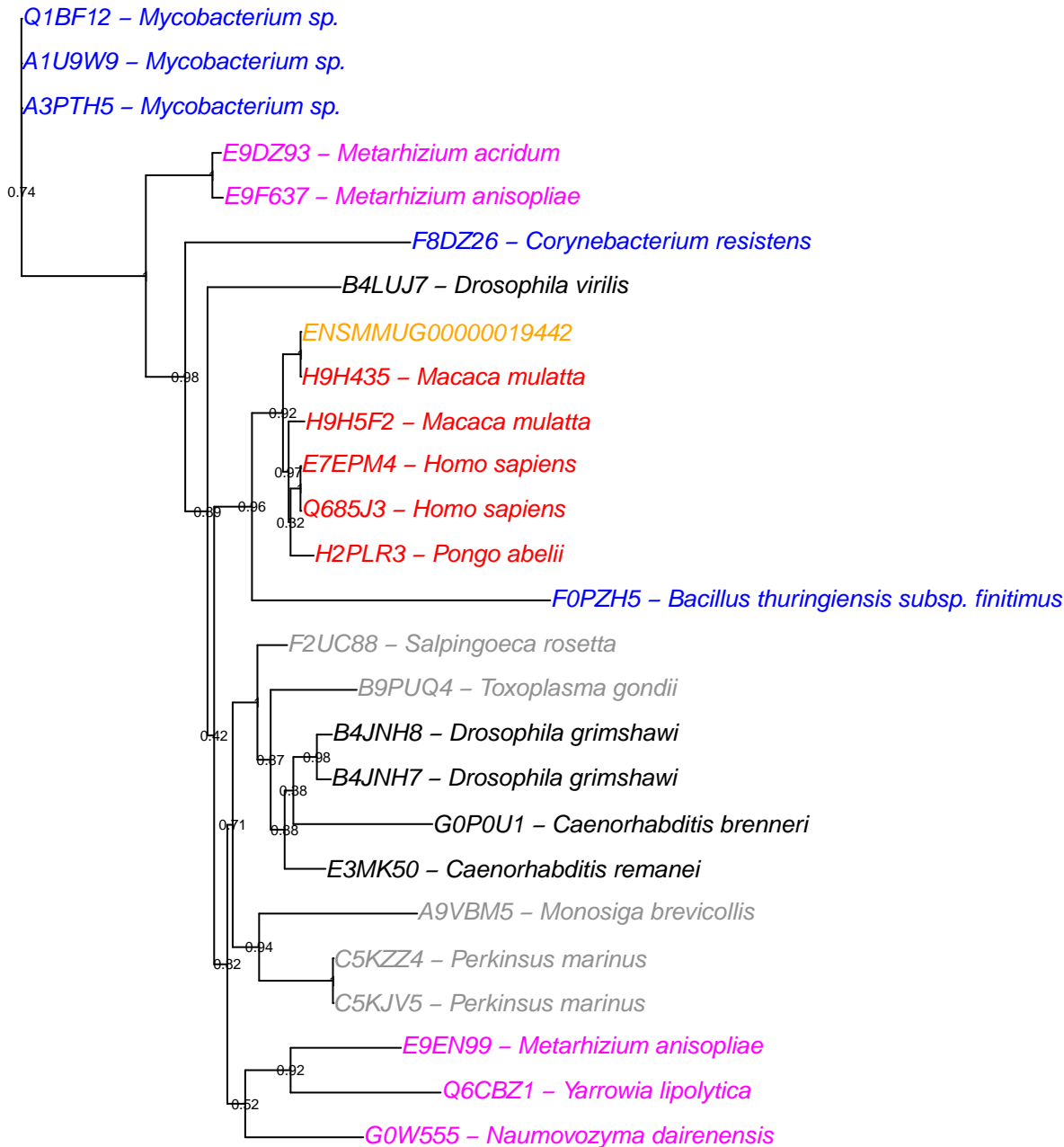
A8M996 – *Calditerrivita maquilingensis*

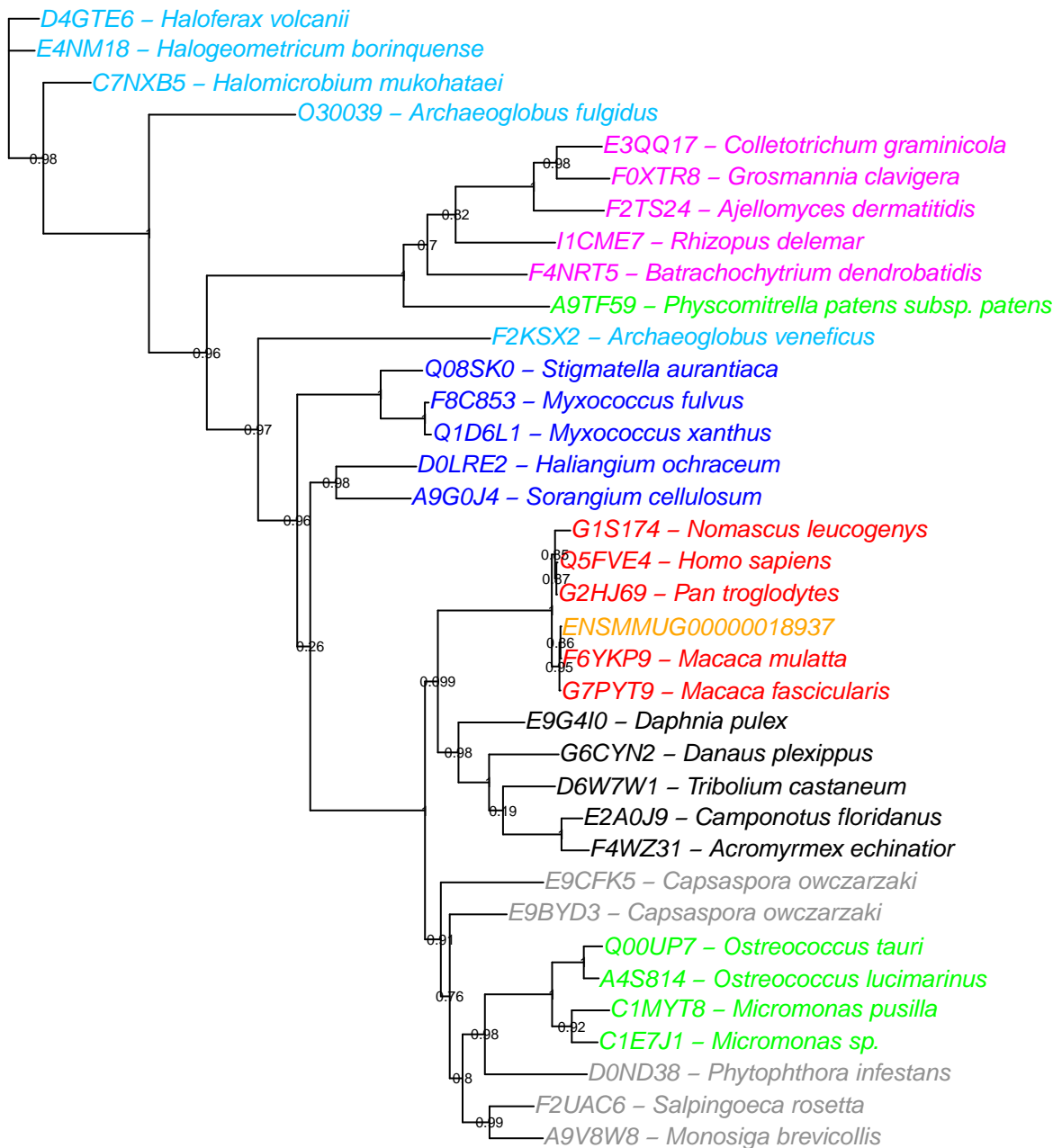
D5VQ64 – *Caulobacter segnis*

B4RD06 – *Phenylobacterium zucineum*









A2QZV9 – *Aspergillus niger*

-H9KF55 - *Apis mellifera*

-F4PTN3 – *Dictyostelium fasciculatum*

-D3BJC0 – *Polysphondylium pallidum*

-H2S6C5 – *Takifugu rubripes*

0.92

-G8Y488 – *Pichia sorbitophila*

G0VID2 – Naumovozyma castellii

-D8RY09 – *Selaginella moellendorffii*

-H3DRP8 – *Pristionchus pacificus*

– C1MU65 – *Micromonas pusilla*

-A4S9Q7 – *Ostreococcus lucimarinus*

-F4PWU5 – *Dictyostelium fasciculatum*

-C7G008 – *Dictyostelium discoideum*

I1HHL7 – *Brachypodium distachyon*

-C1N2U0 – *Micromonas pusilla*

E1UNK4 – *Bacillus amyloliquefaciens*

—E3E3G3 – *Bacillus atrophaeus*

A8FE08 – *Bacillus pumilus*

0.35

– C1EVZ4 – *Bacillus cereus*

—C3LA34 – *Bacillus anthracis*

– *F0XDL9* – *Grosmannia clavigera*

ENSMMUG00000018636

H9H413 – *Macaca mulatta*

Q7Z5P9 – *Homo sapiens*

—F6V6S5 – *Equus caballus*

-H3FPL8 – *Pristionchus pacificus*-H2WEZ7 – *Caenorhabditis japonica*-B4LGQ6 – *Drosophila virilis*

-D2W2Y0 – *Naegleria gruberi*

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

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

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

G7EA99 – *Mixia osmundae*

I1C384 – *Rhizopus delemar*

B3RJW6 – *Trichoplax adhaerens*

D6X2M0 – *Tribolium castaneum*

E0VMW1 – *Pediculus humanus* subsp. *corporis*

B4KFW5 – *Drosophila mojavensis*

I1R1I2 – *Oryza glaberrima*

D7MT79 – *Arabidopsis lyrata* subsp. *lyrata*

O65201 – *Arabidopsis thaliana*

F4KGI8 – *Arabidopsis thaliana*

A9U5G8 – *Physcomitrella patens* subsp. *patens*

Q55CT6 – *Dictyostelium discoideum*

F1A1B8 – *Dictyostelium purpureum*

D3BSZ9 – *Polysphondylium pallidum*

B2HL70 – *Mycobacterium marinum*

Q0SF32 – *Rhodococcus* sp.

Q096A6 – *Stigmatella aurantiaca*

H8MFT9 – *Corallococcus coralloides*

A5FEF7 – *Flavobacterium johnsoniae*

E9C0B2 – *Capsaspora owczarzaki*

B3RYV9 – *Trichoplax adhaerens*

F6T0B5 – *Equus caballus*

Q9NUZ1 – *Homo sapiens*

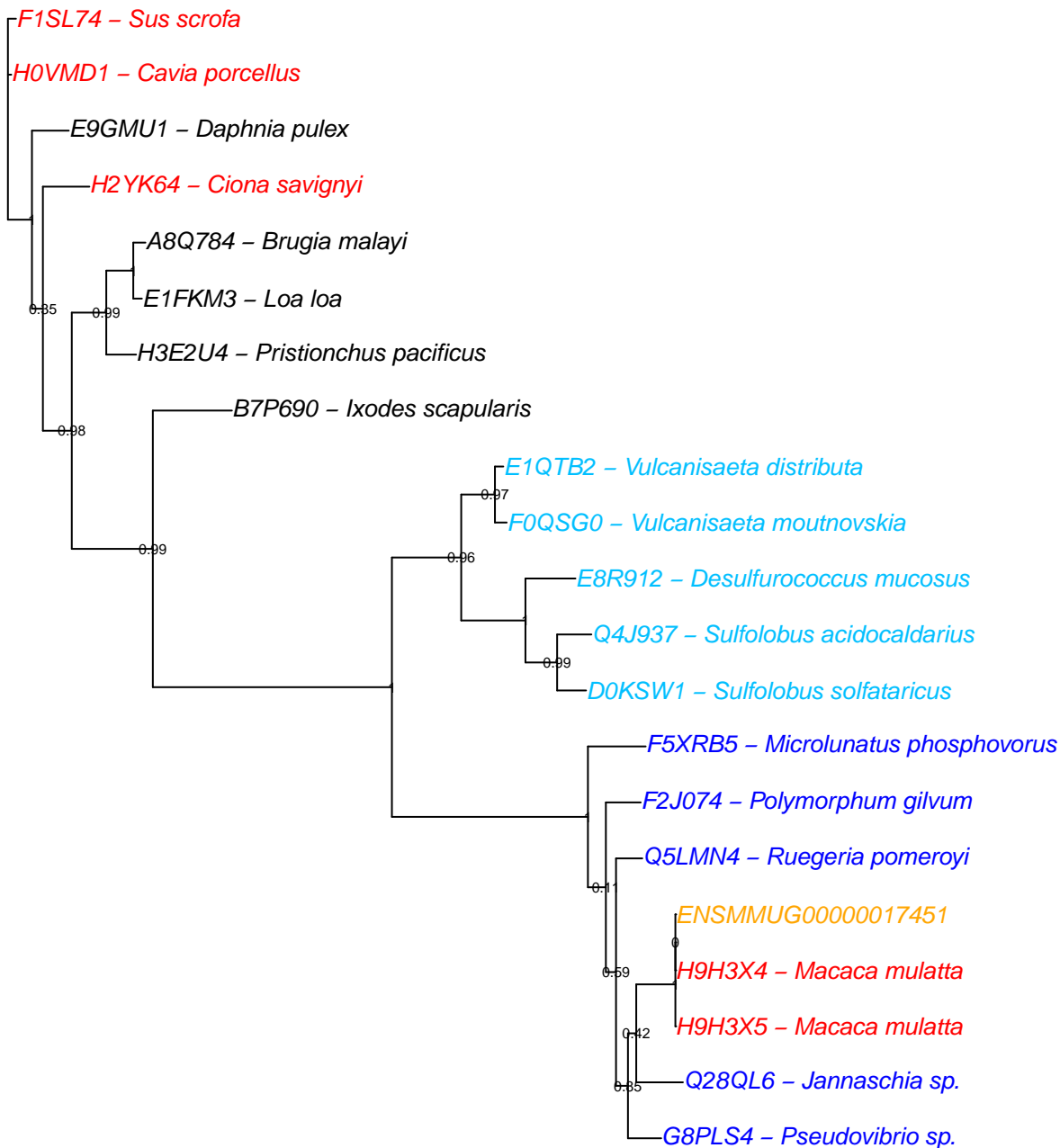
H2P5E1 – *Pongo abelii*

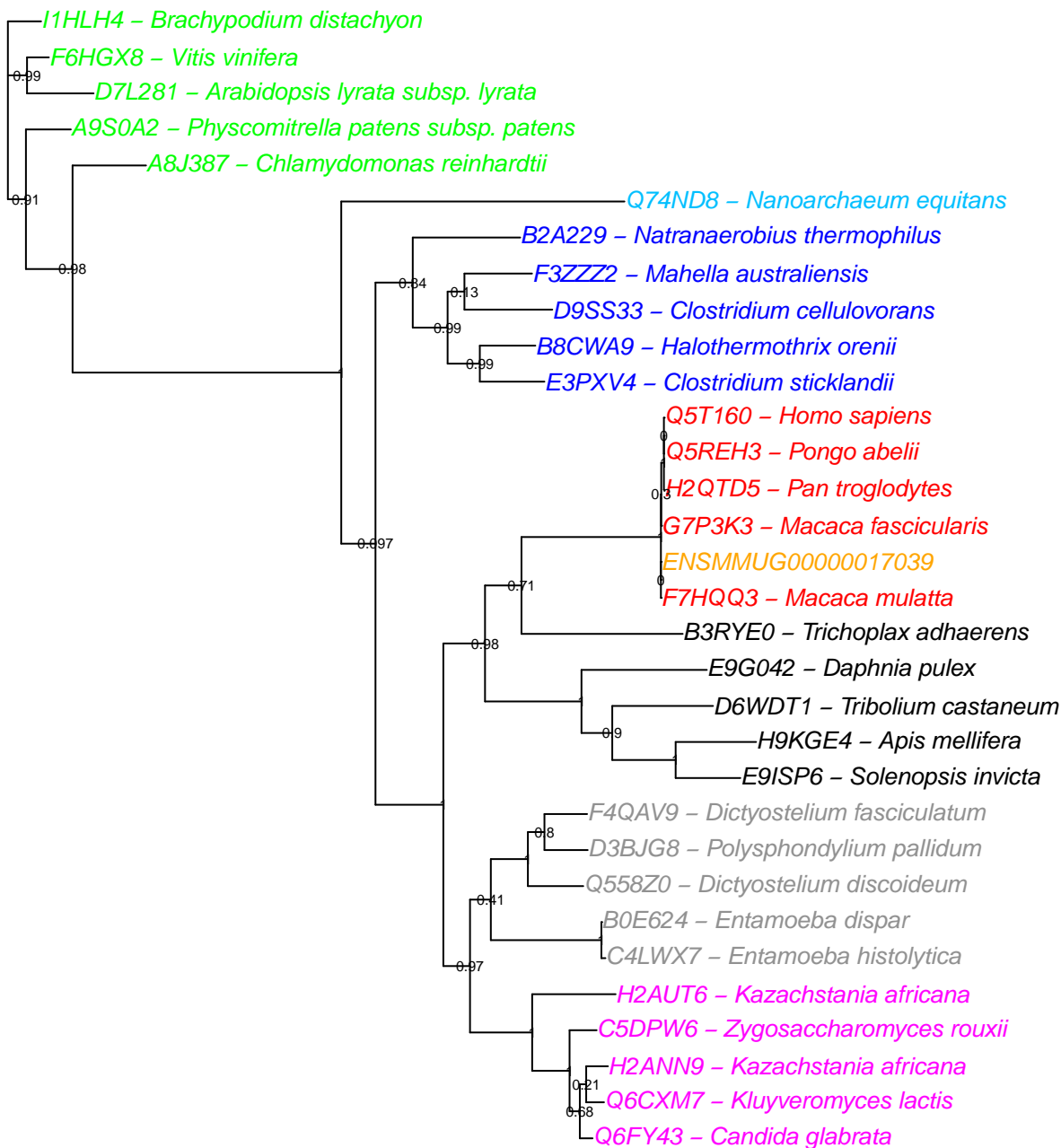
G7PMY1 – *Macaca fascicularis*

ENSMMUG00000018421

F7HJC2 – *Macaca mulatta*

D3BRK9 – *Polysphondylium pallidum*





F7CCI5 – *Macaca mulatta*

—C1MZS3 – *Micromonas pusilla*

-A9UYT2 – *Monosiga brevicollis*

-H8WGY3 – *Caenorhabditis briggsae*

–F2U351 – *Salpingoeca rosetta*

– B6HQ39 – *Penicillium chrysogenum*

–G2WW01 – *Verticillium dahliae*

-D7EJY7 – *Tribolium castaneum*

-F4JLV7 – *Arabidopsis thaliana*

-D8U4N9 – Volvox carteri

– A5E8N9 – *Bradyrhizobium* sp.

—E9AEK6 – *Leishmania major*

Q4D8J9 – *Trypanosoma cruzi*

LQ4DID3 – *Trypanosoma cruzi*

-B4MAS1 - Drosophila virilis

-A8/EX2 – *Azorhizobium caulinodans*

-Q9VZC2 - *Drosophila melanogaster*

-A8IGC9 – *Chlamydomonas reinhardtii*

-Q07PB7 – *Rhodopseudomonas palustris*

B3Q7K5 – *Rhodopseudomonas palustris*

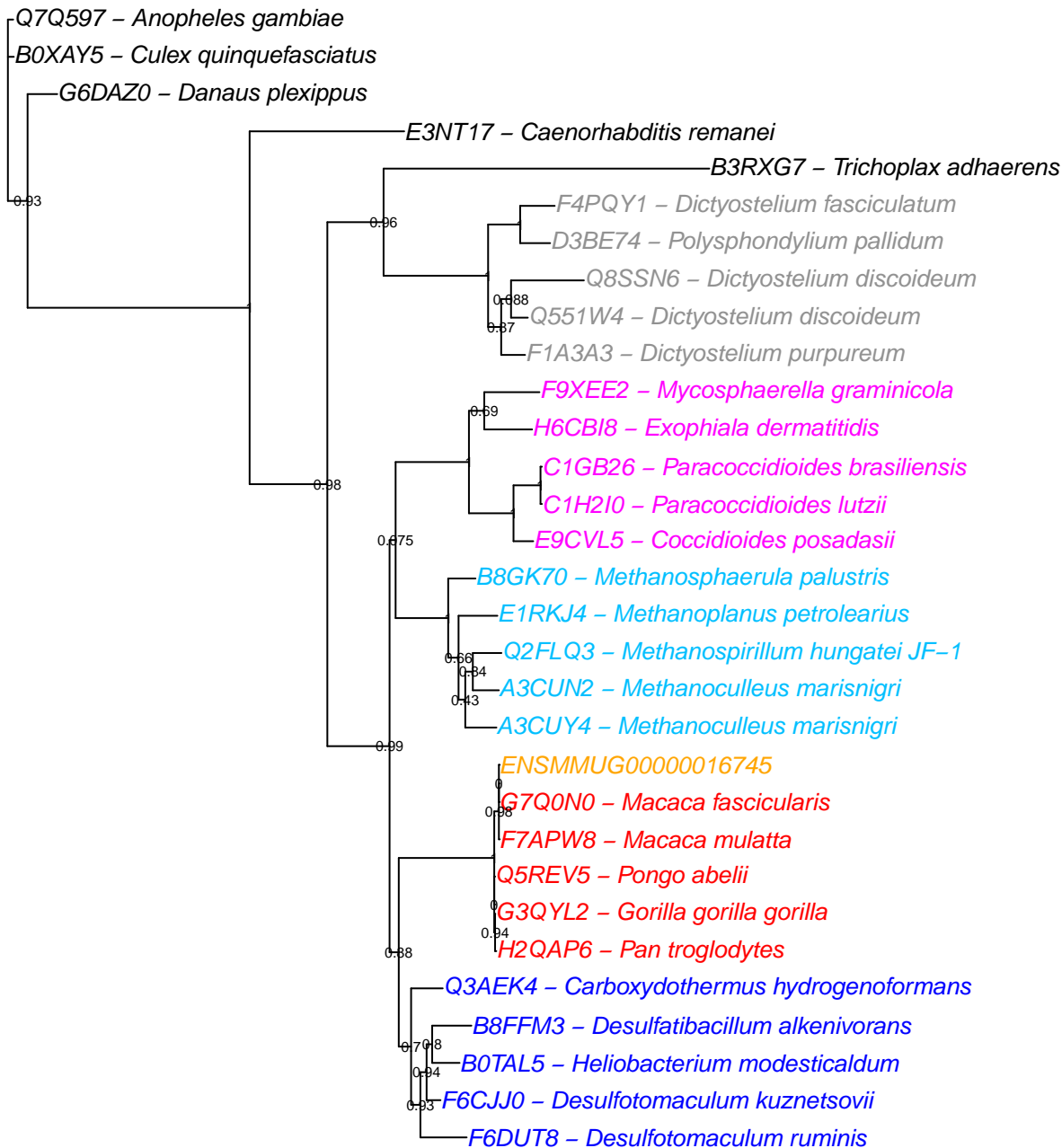
Q6N5Q1 – *Rhodopseudomonas palustris*

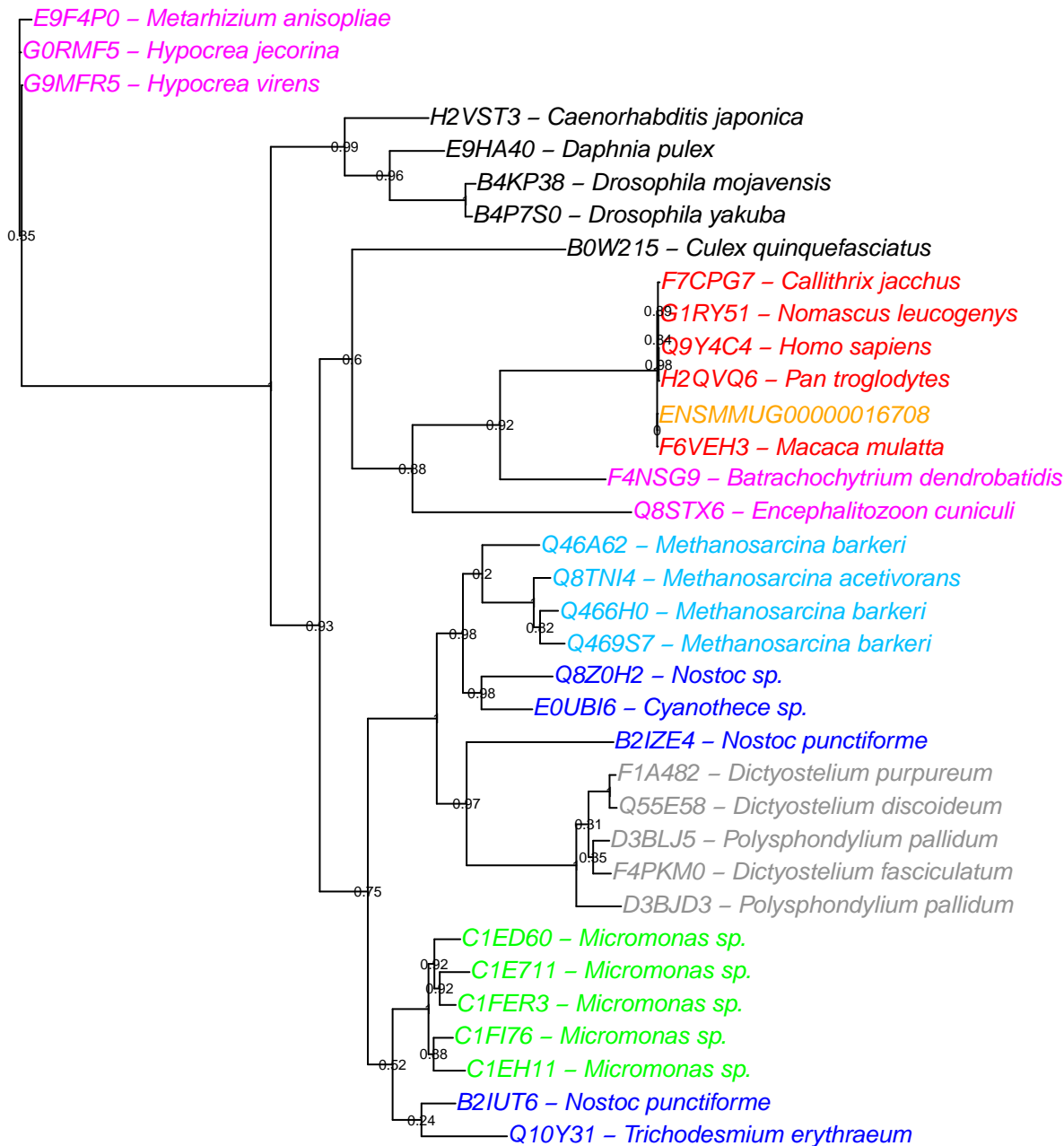
– B6QUR5 – *Penicillium marneffe*

–H9K471 – *Apis mellifera*

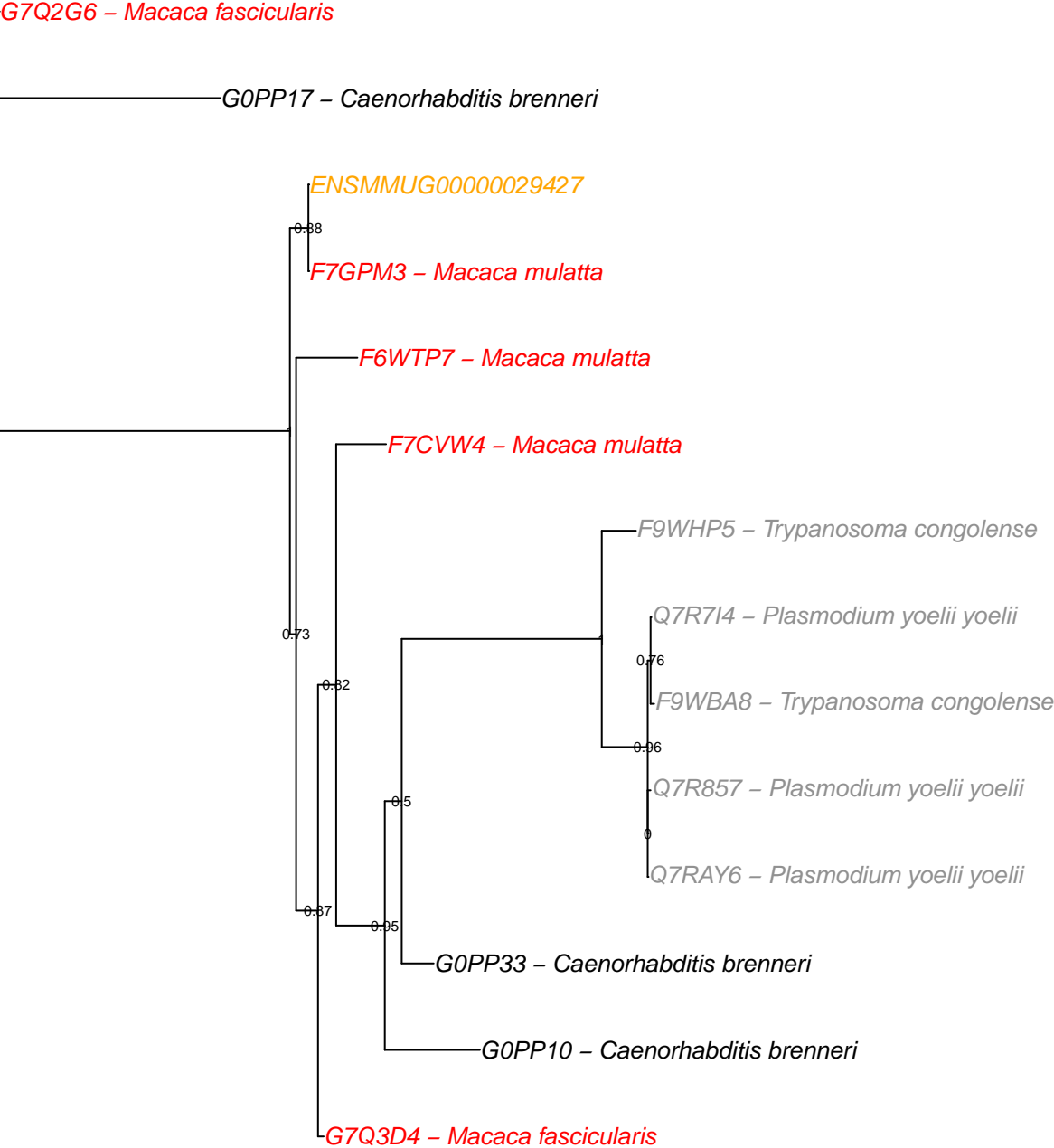
–F9XJG6 – *Mycosphaerella graminicola*

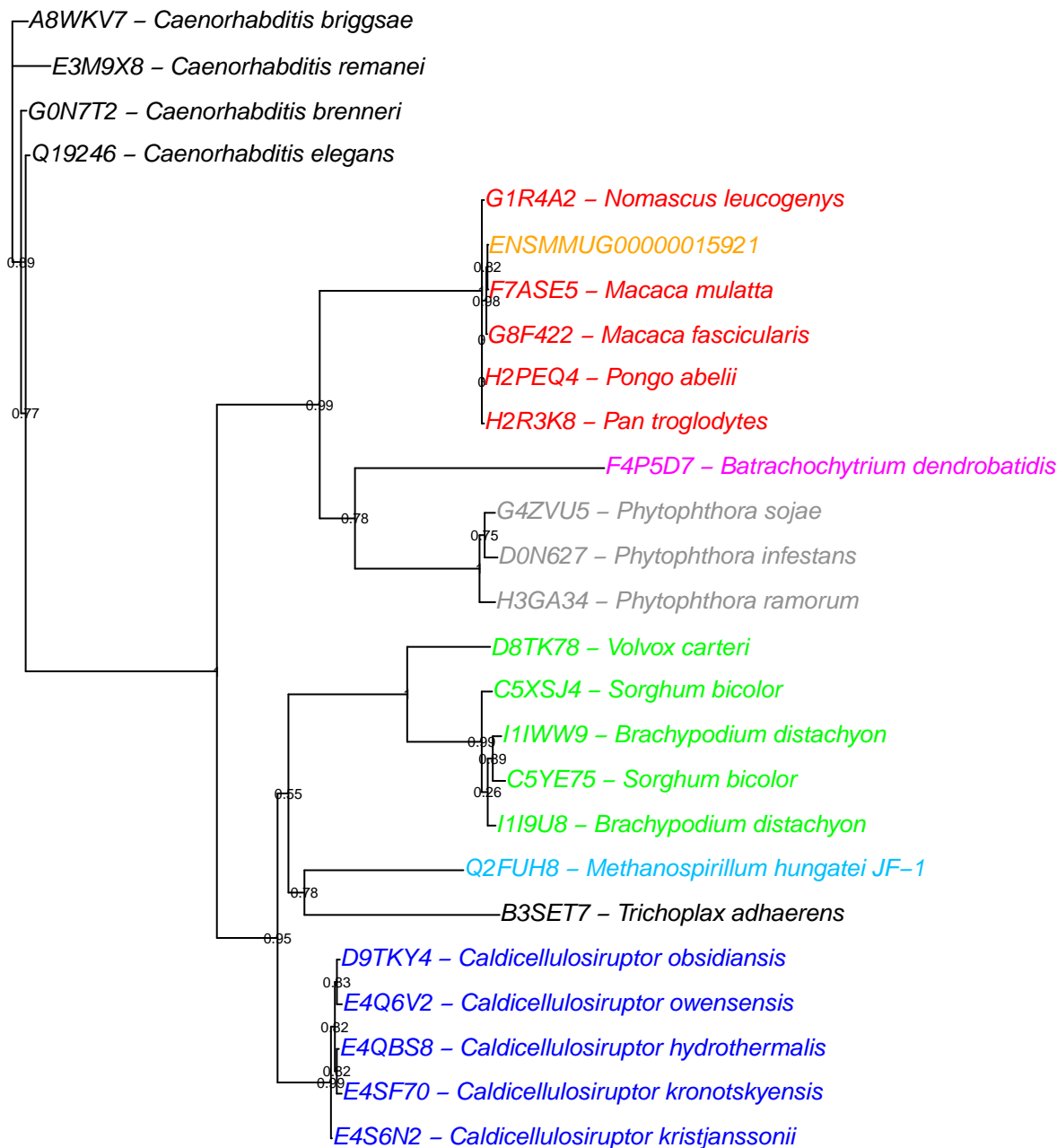
–E3QBF4 – *Colletotrichum graminicola*

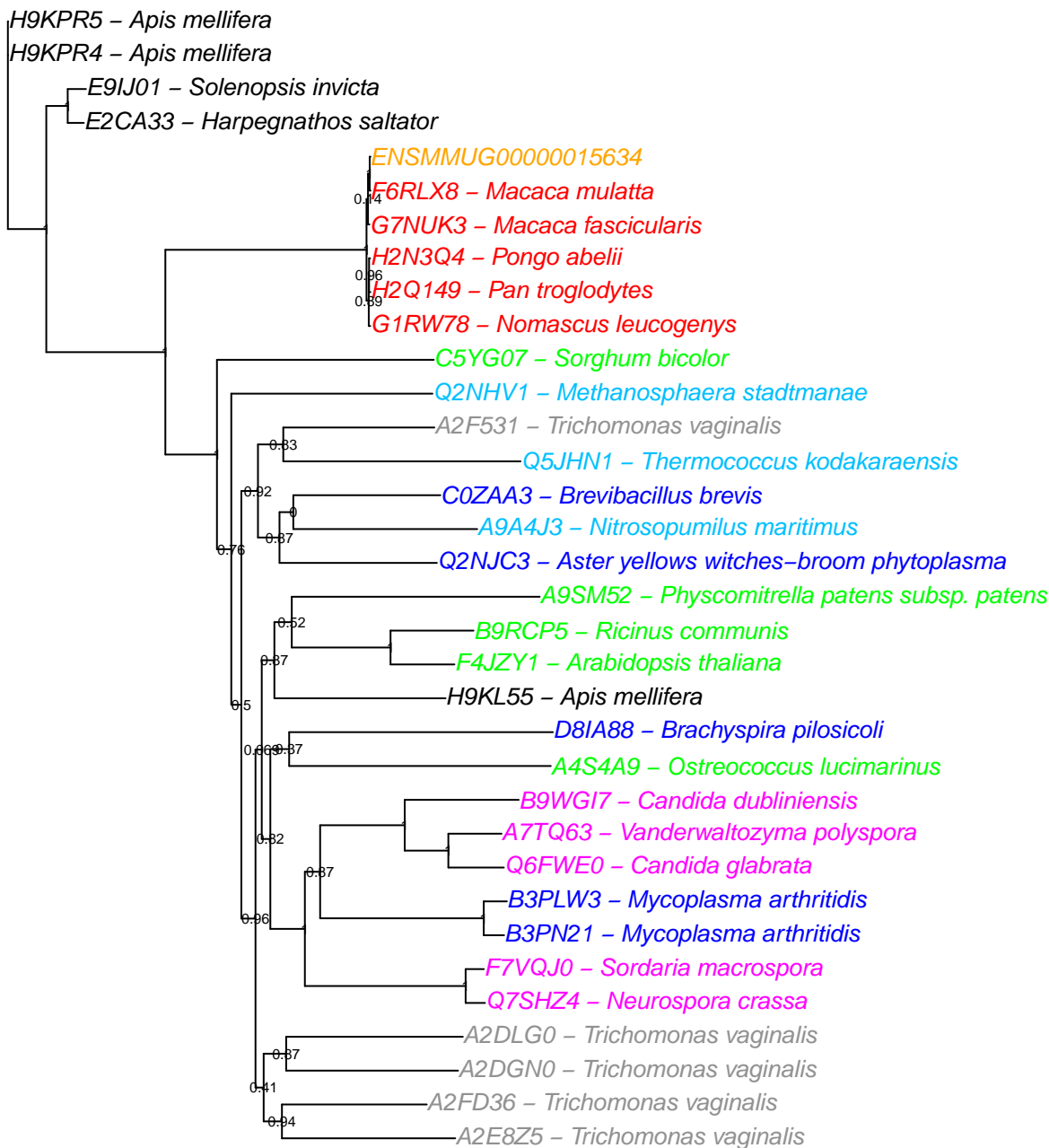


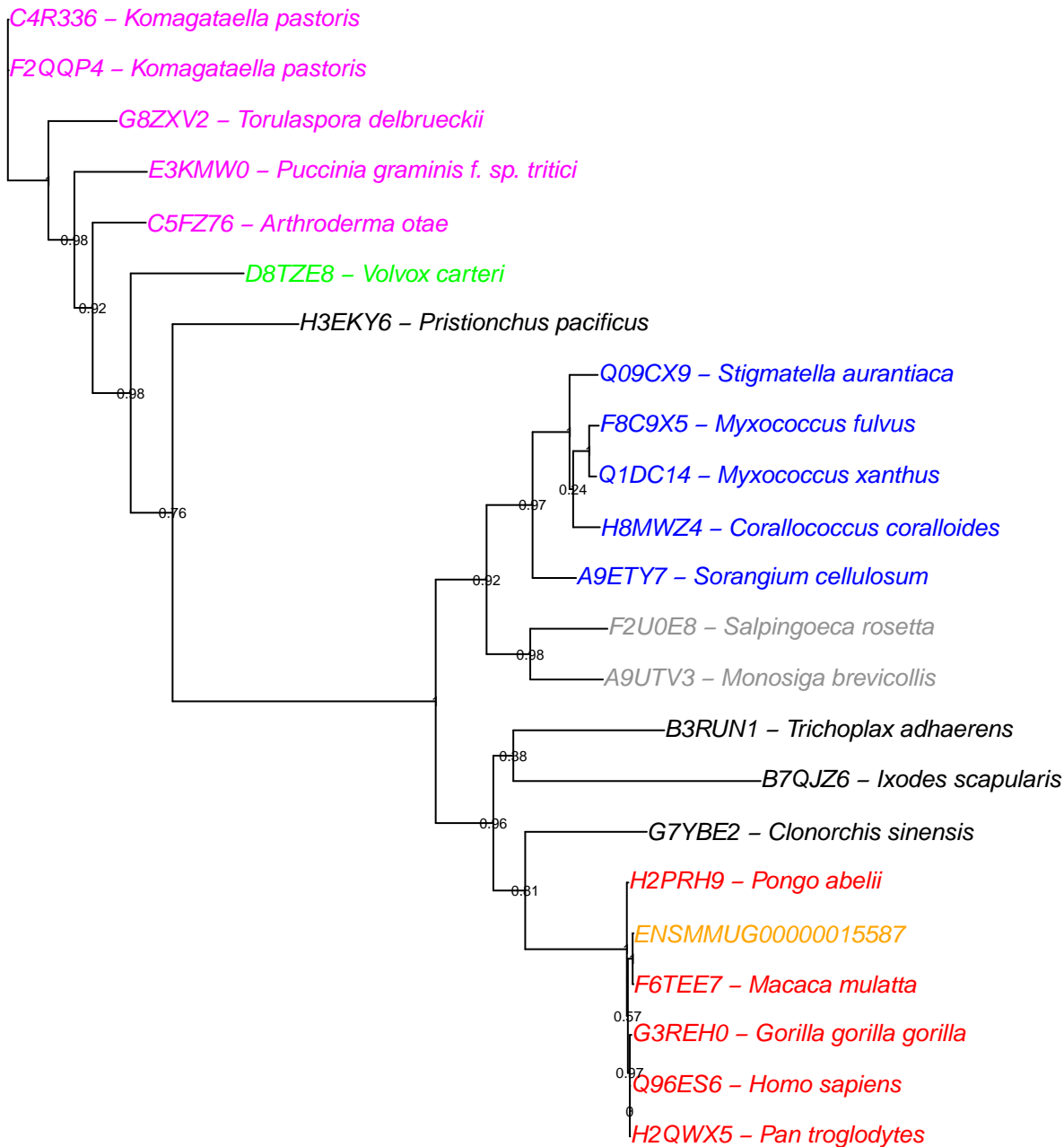


-A9GEN7 – *Sorangium cellulosum*



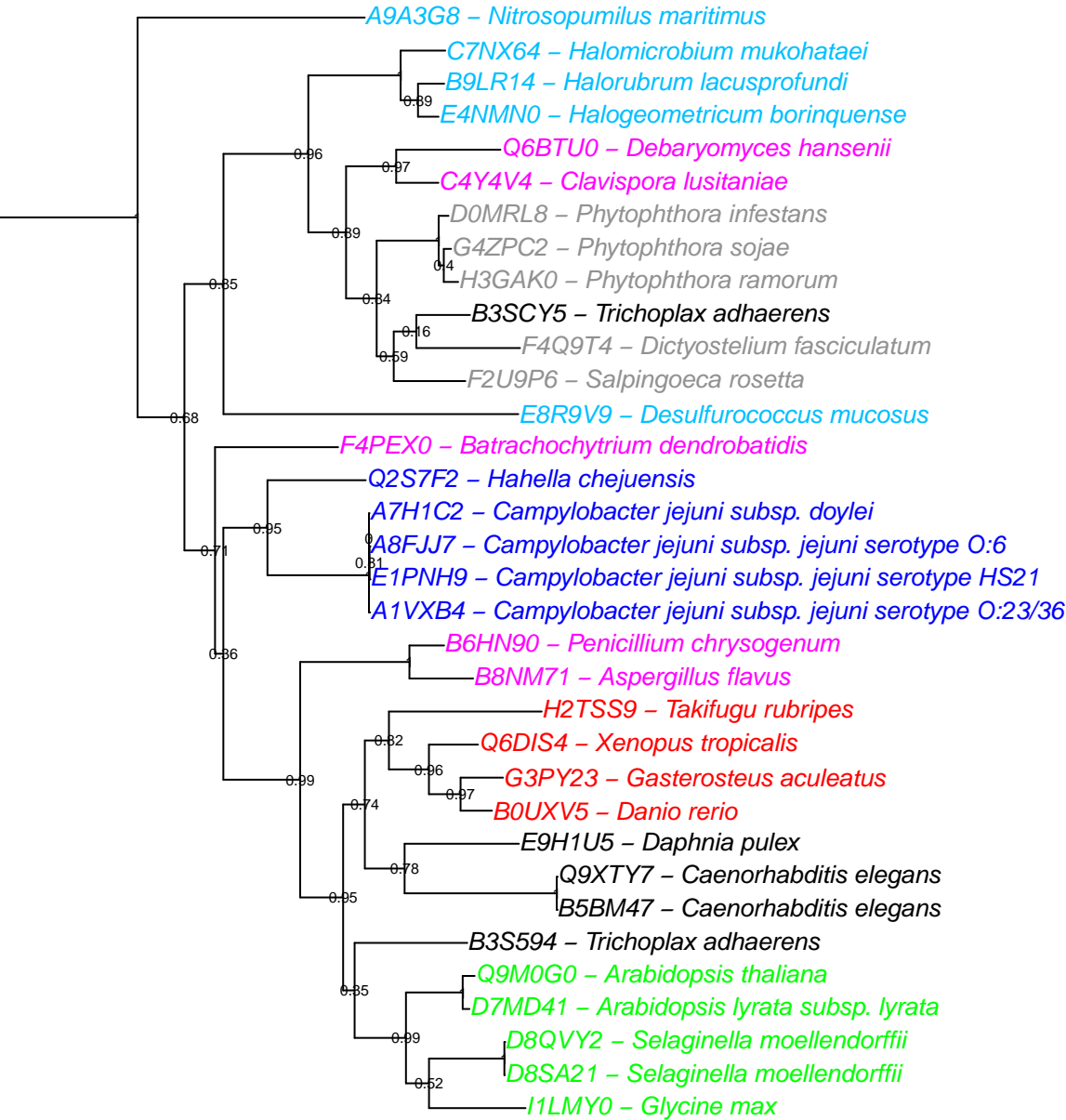






ENSMUG00000015415

H9H3T3 – *Macaca mulatta*



ENSMMUG00000015159

F6UD43 – *Macaca mulatta*

G7PBG7 – *Macaca fascicularis*

H2NN81 – *Pongo abelii*

H2Q9F3 – *Pan troglodytes*

Q9UPM8 – *Homo sapiens*

B3S7S7 – *Trichoplax adhaerens*

F2U7H5 – *Salpingoeca rosetta*

A9V3X8 – *Monosiga brevicollis*

I1NUN0 – *Oryza glaberrima*

Q8RZX0 – *Oryza sativa subsp. japonica*

I1HUJ6 – *Brachypodium distachyon*

F6HJ24 – *Vitis vinifera*

D7KGL8 – *Arabidopsis lyrata subsp. lyrata*

H3GJ53 – *Phytophthora ramorum*

D0N021 – *Phytophthora infestans*

G4YKB9 – *Phytophthora sojae*

B7PES3 – *Ixodes scapularis*

D6X1U8 – *Tribolium castaneum*

B4L3F0 – *Drosophila mojavensis*

B5DN54 – *Drosophila pseudoobscura pseudoobscura*

F9X152 – *Mycosphaerella graminicola*

C1G0X9 – *Paracoccidioides brasiliensis*

F2TA92 – *Ajellomyces dermatitidis*

C5G8J4 – *Ajellomyces dermatitidis*

C5JXV8 – *Ajellomyces dermatitidis*

0.97

0.74

0.99

0.94

0.1

0.99

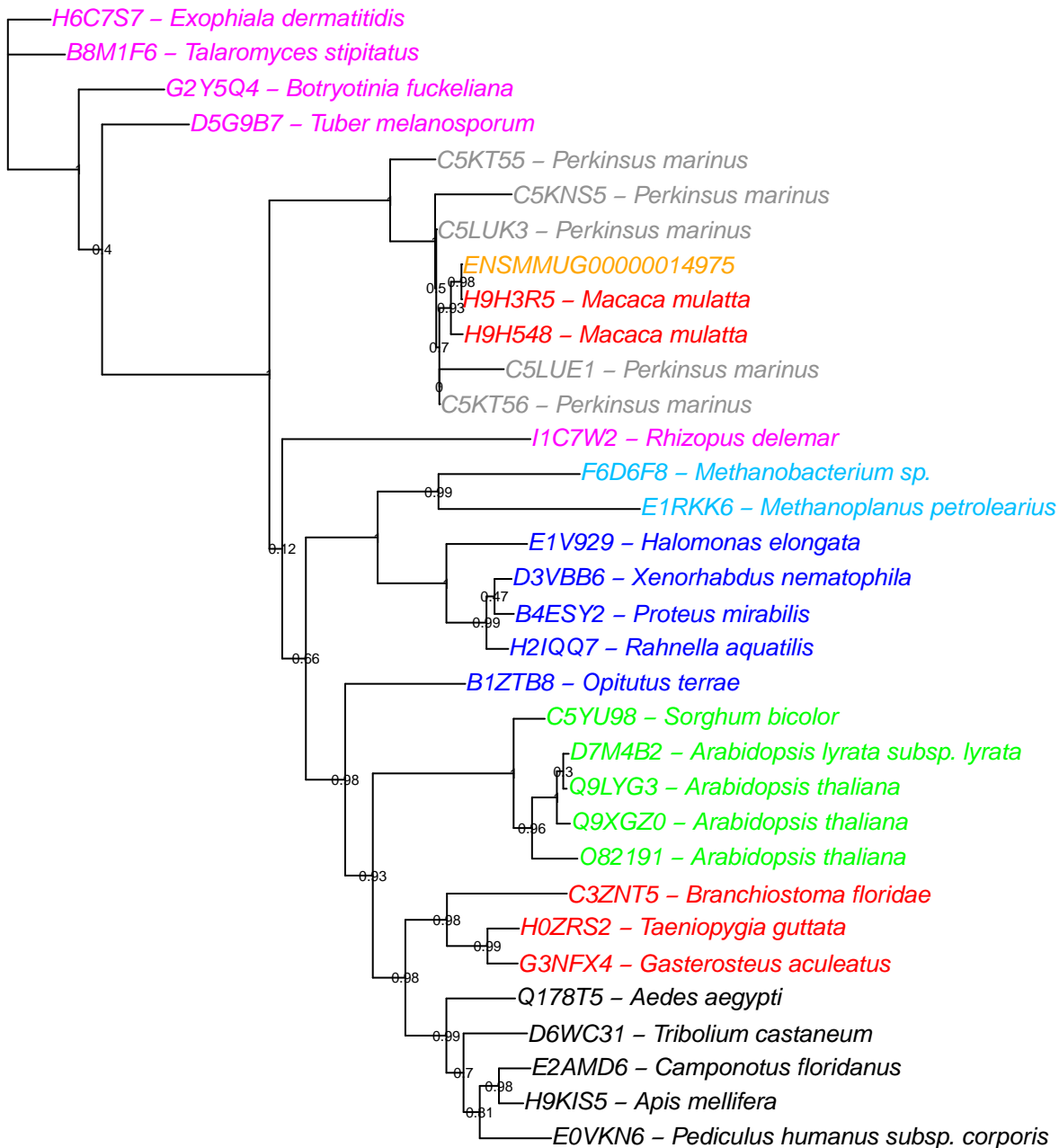
0.97

0.99

0.99

0.77

0.99



ENSMUG00000014703

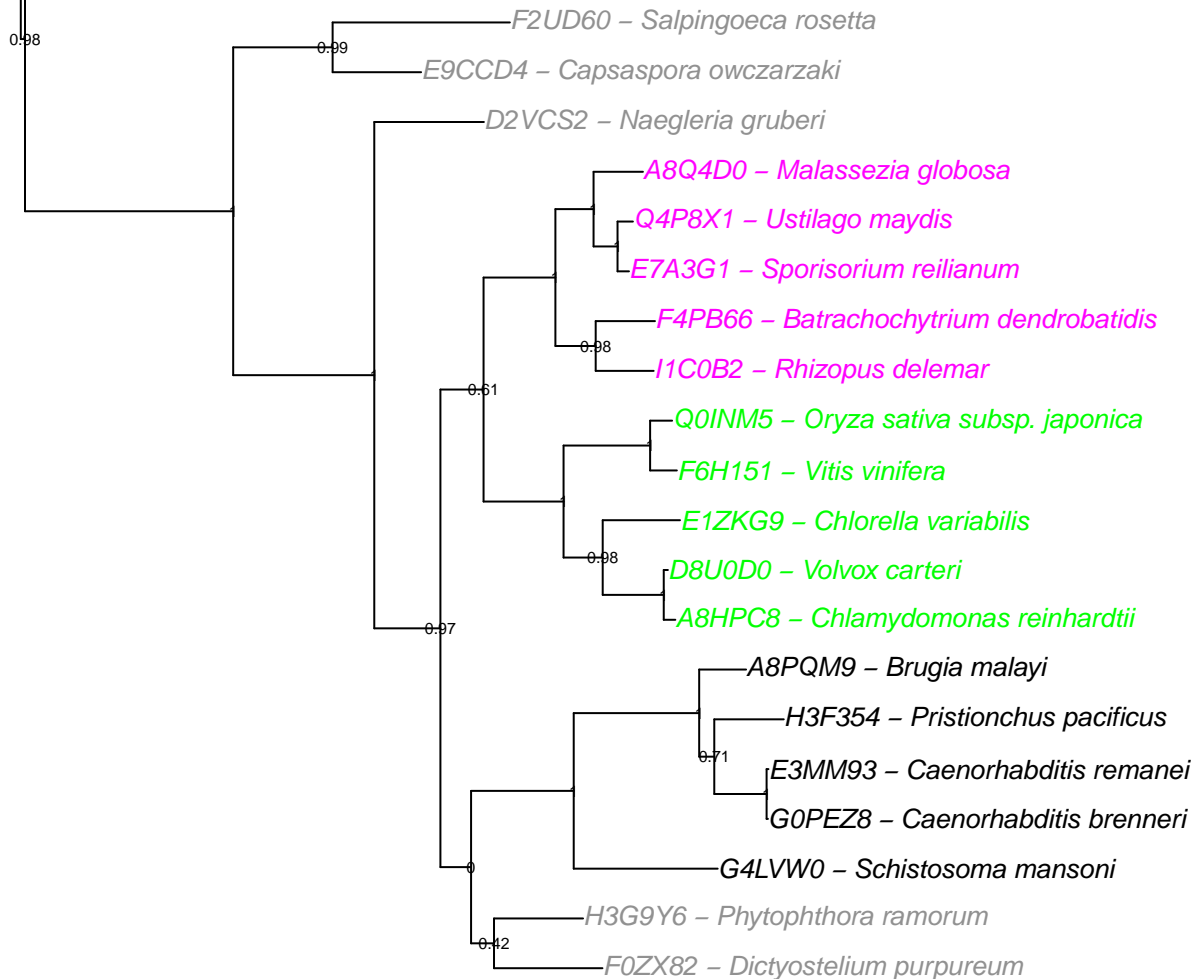
F7GTN4 – *Macaca mulatta*

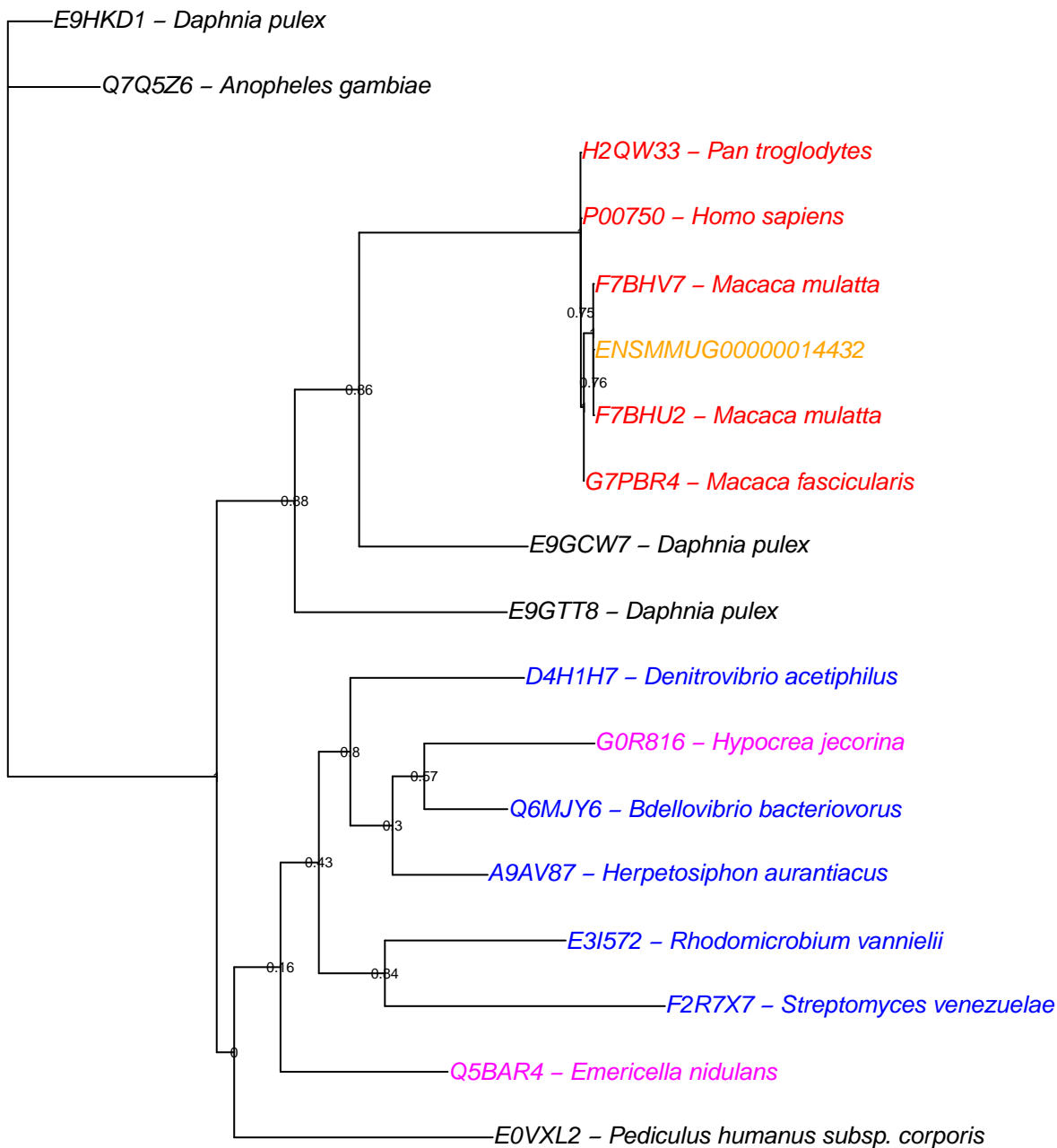
H2QTG6 – *Pan troglodytes*

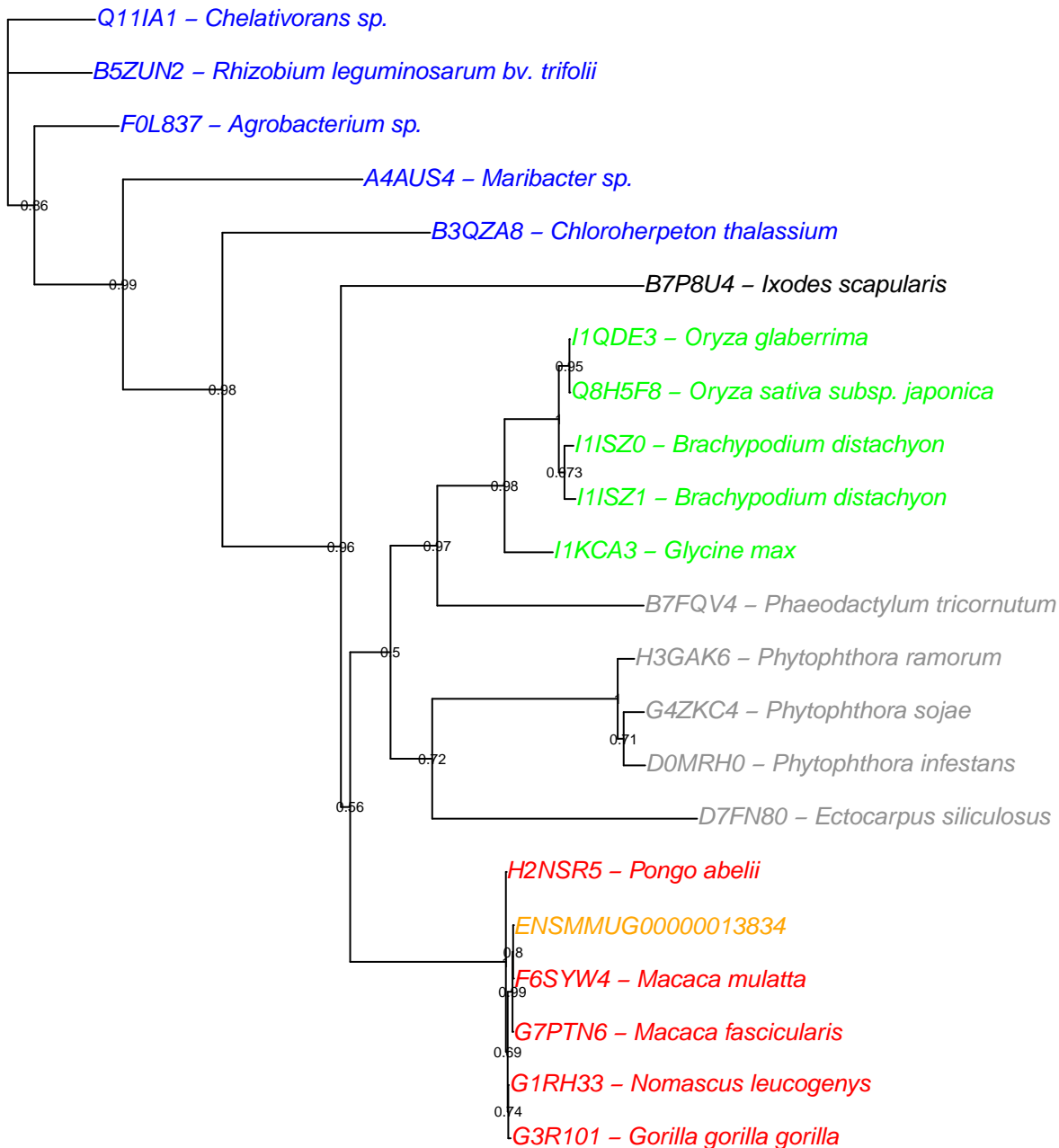
Q8IYU2 – *Homo sapiens*

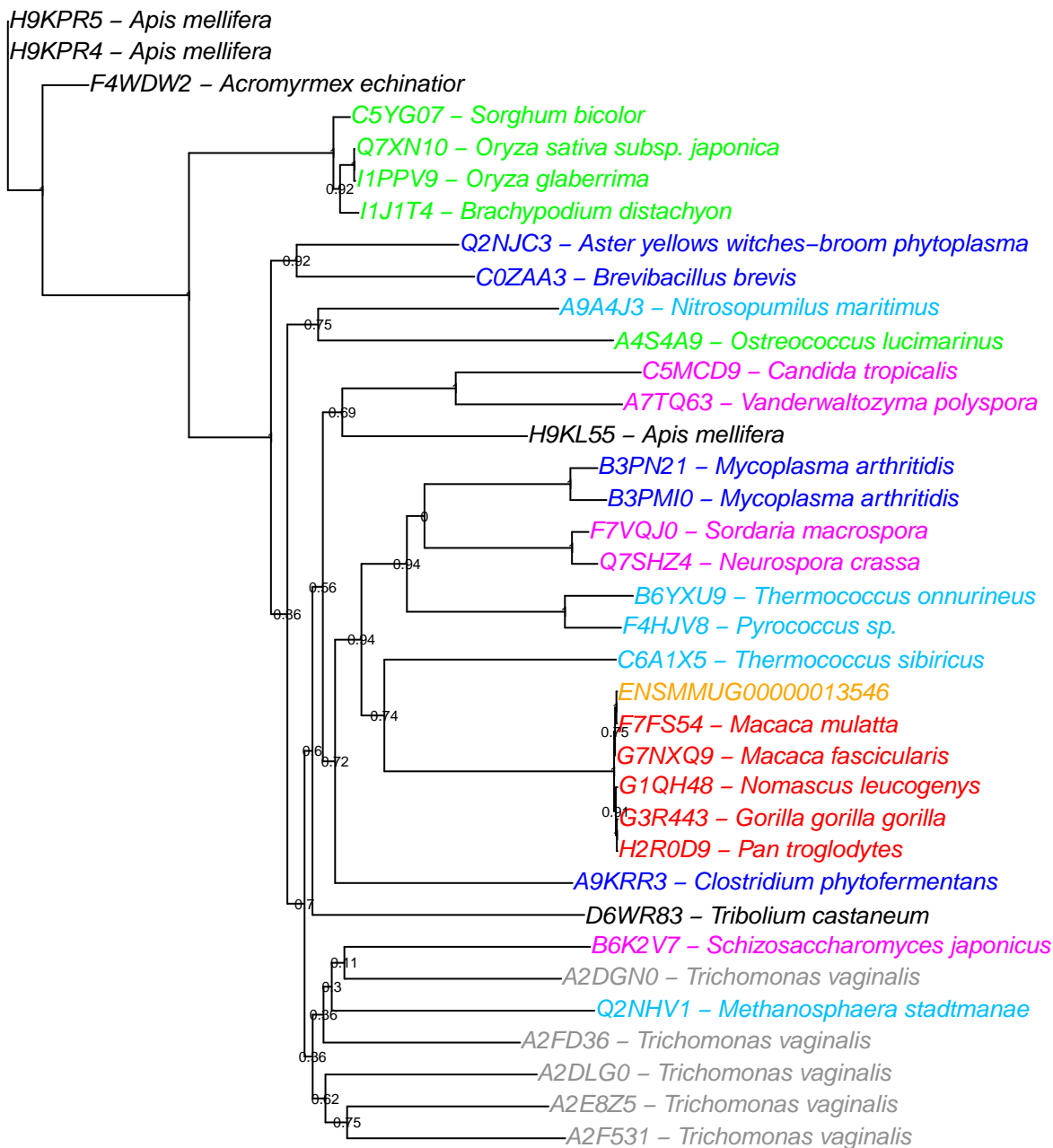
H2PJX3 – *Pongo abelii*

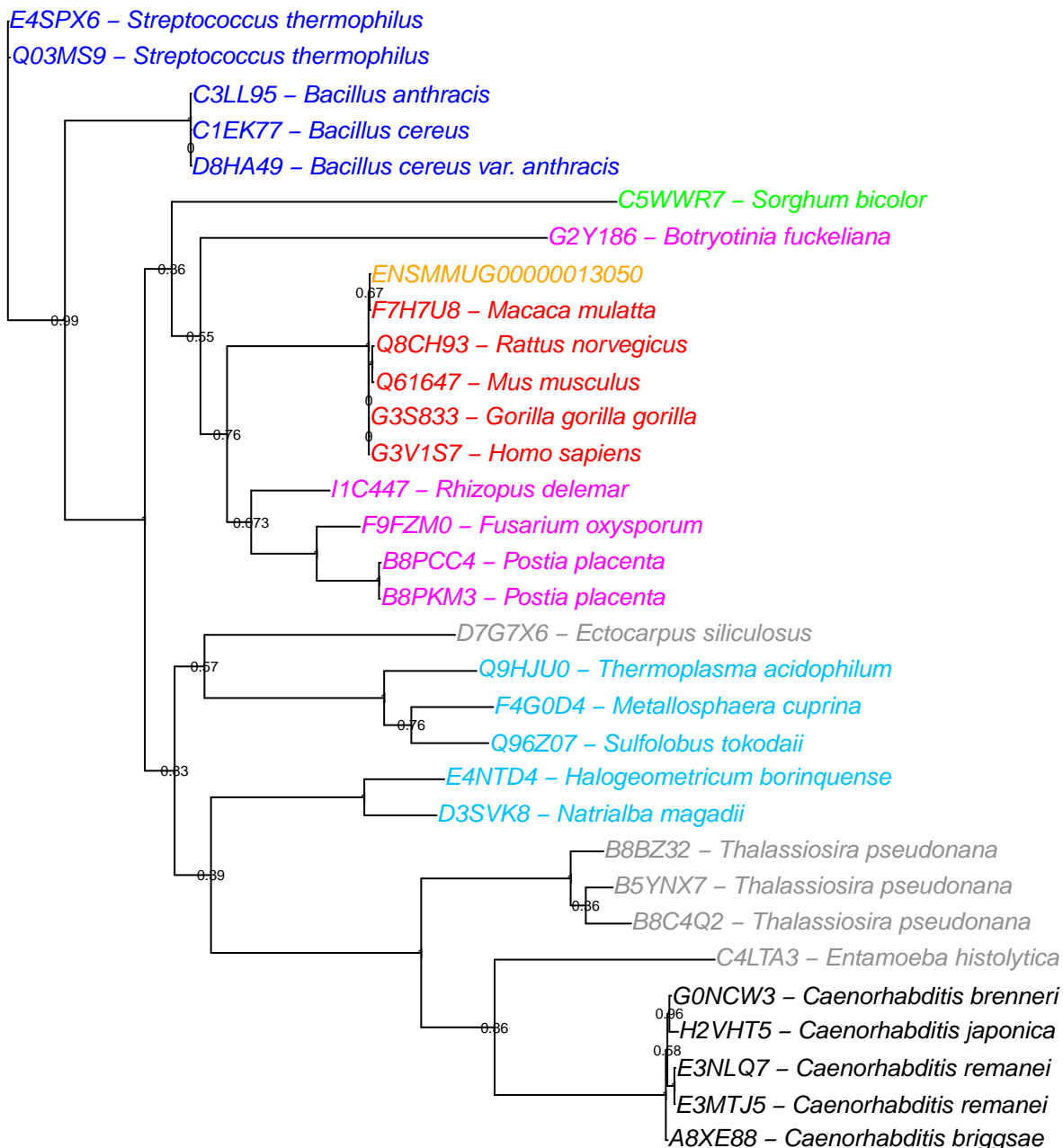
G1RV95 – *Nomascus leucogenys*

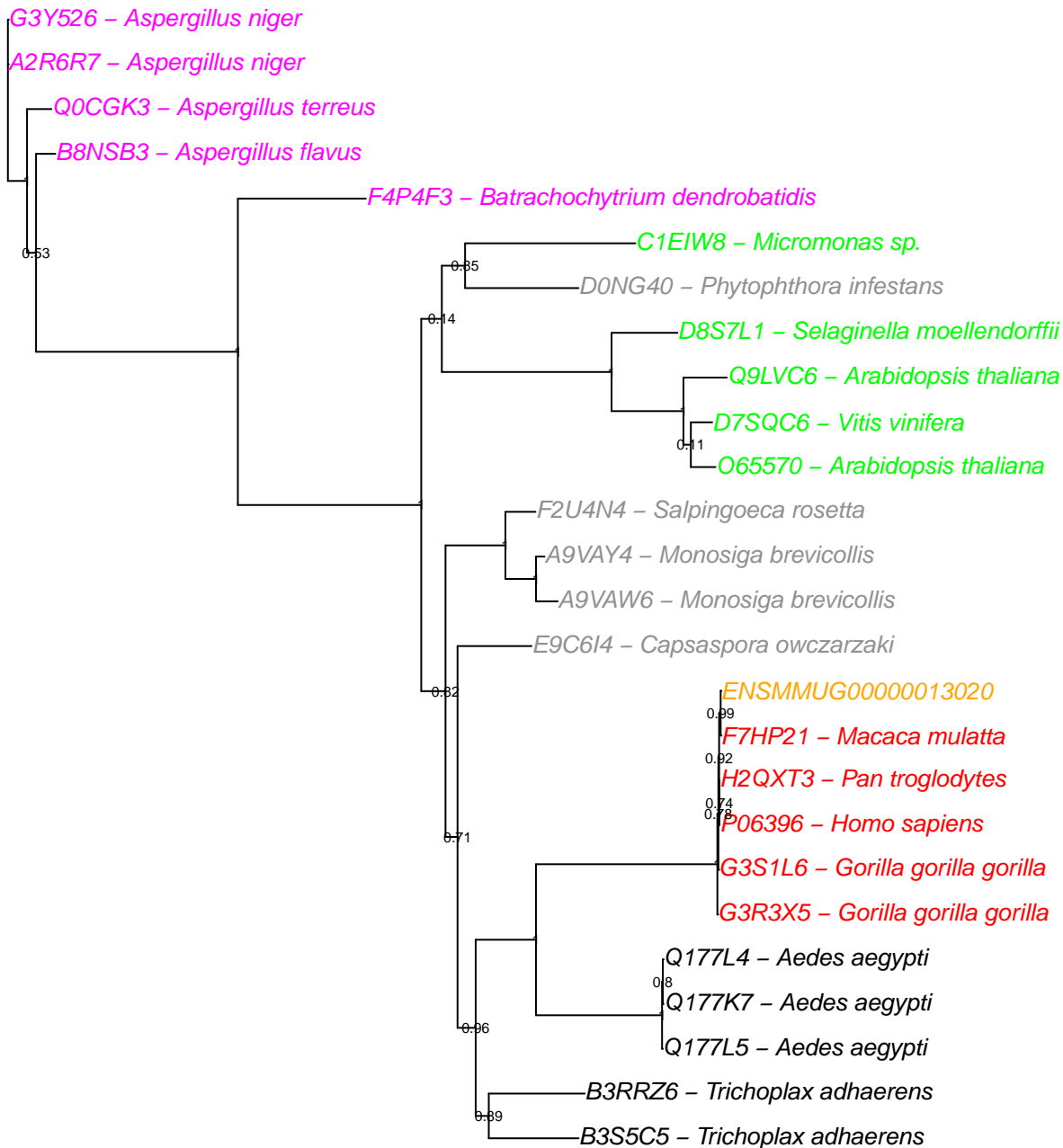






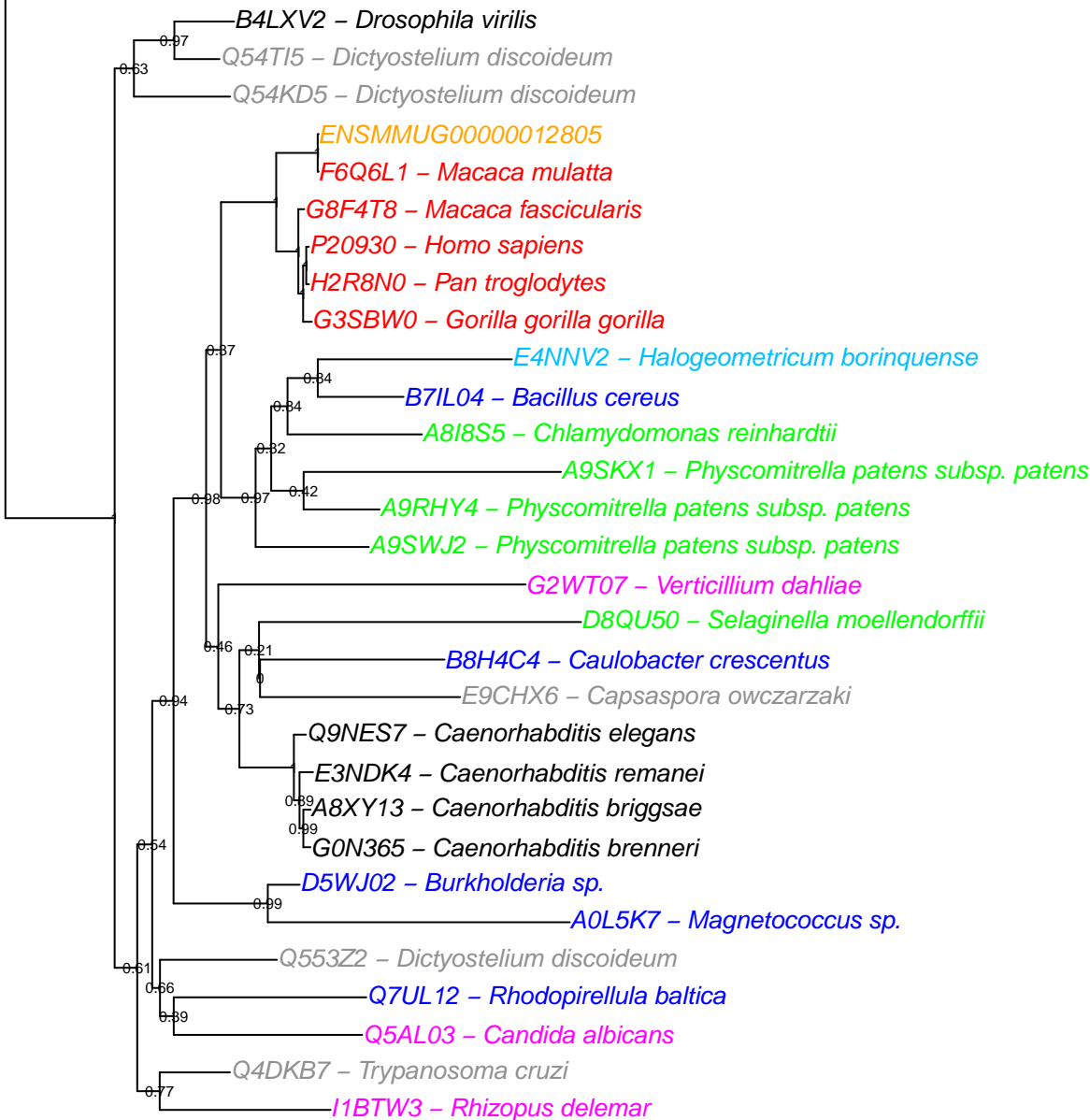


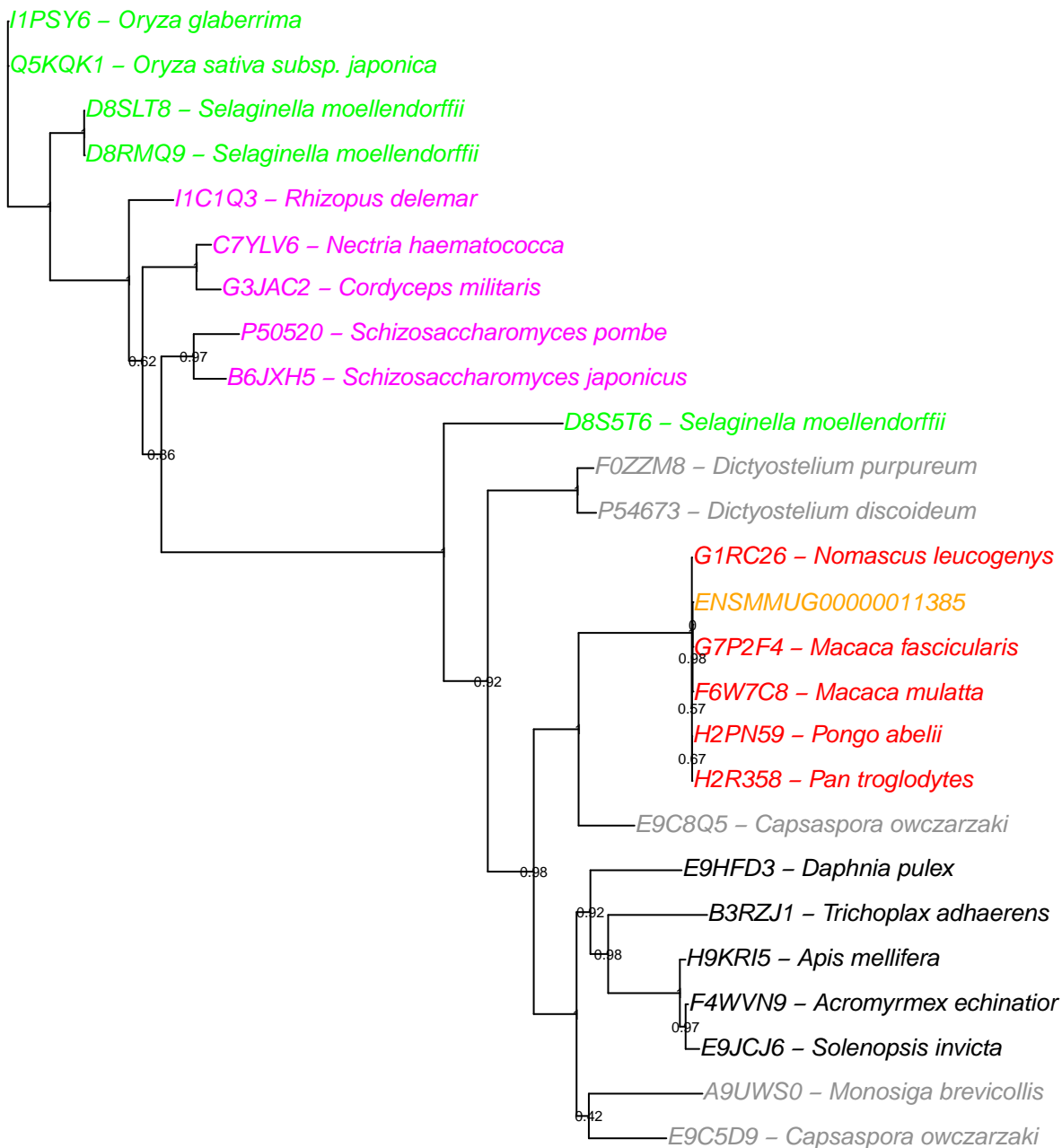


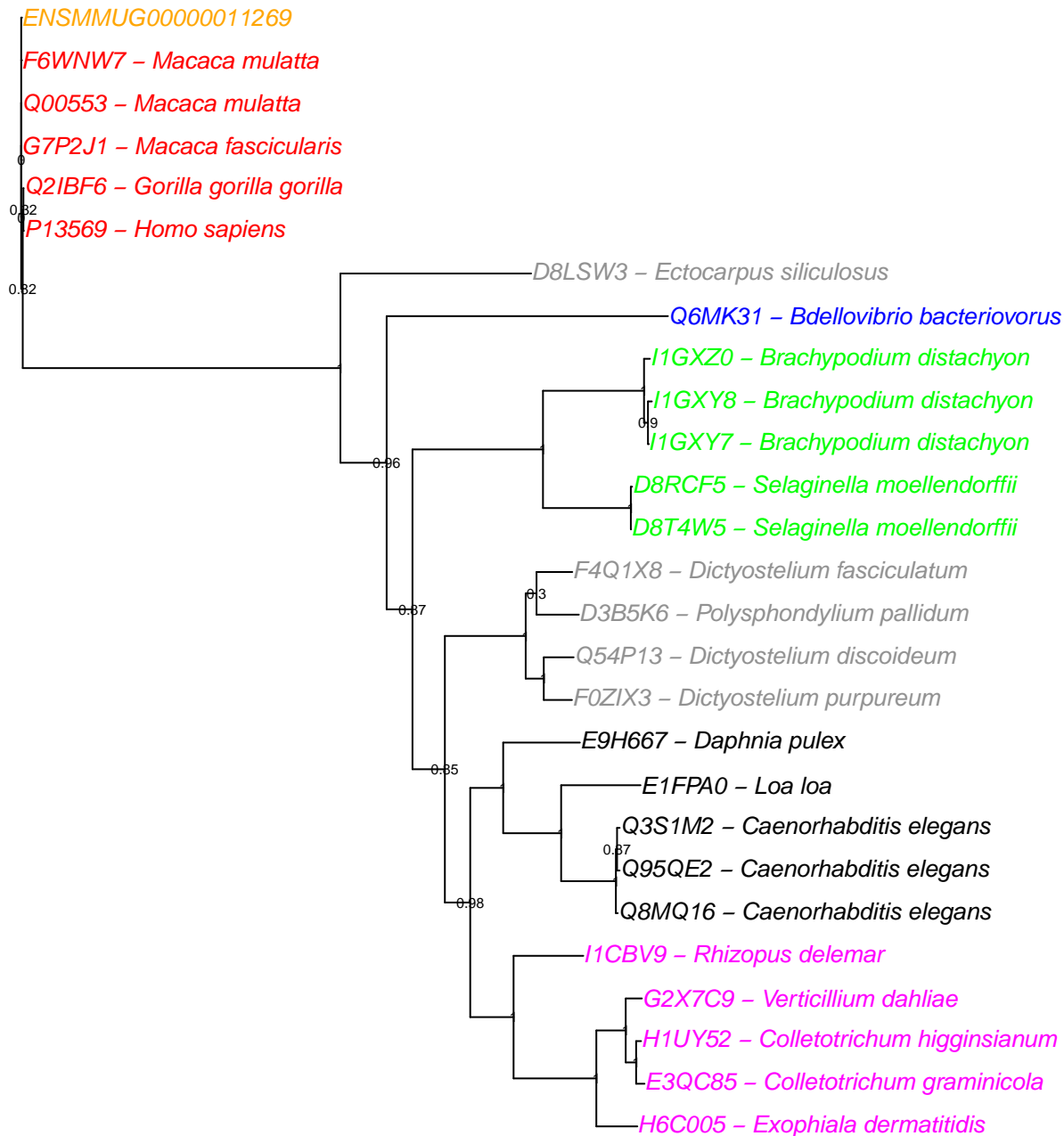


Q59WF7 – *Candida albicans*

Q59WL5 – *Candida albicans*

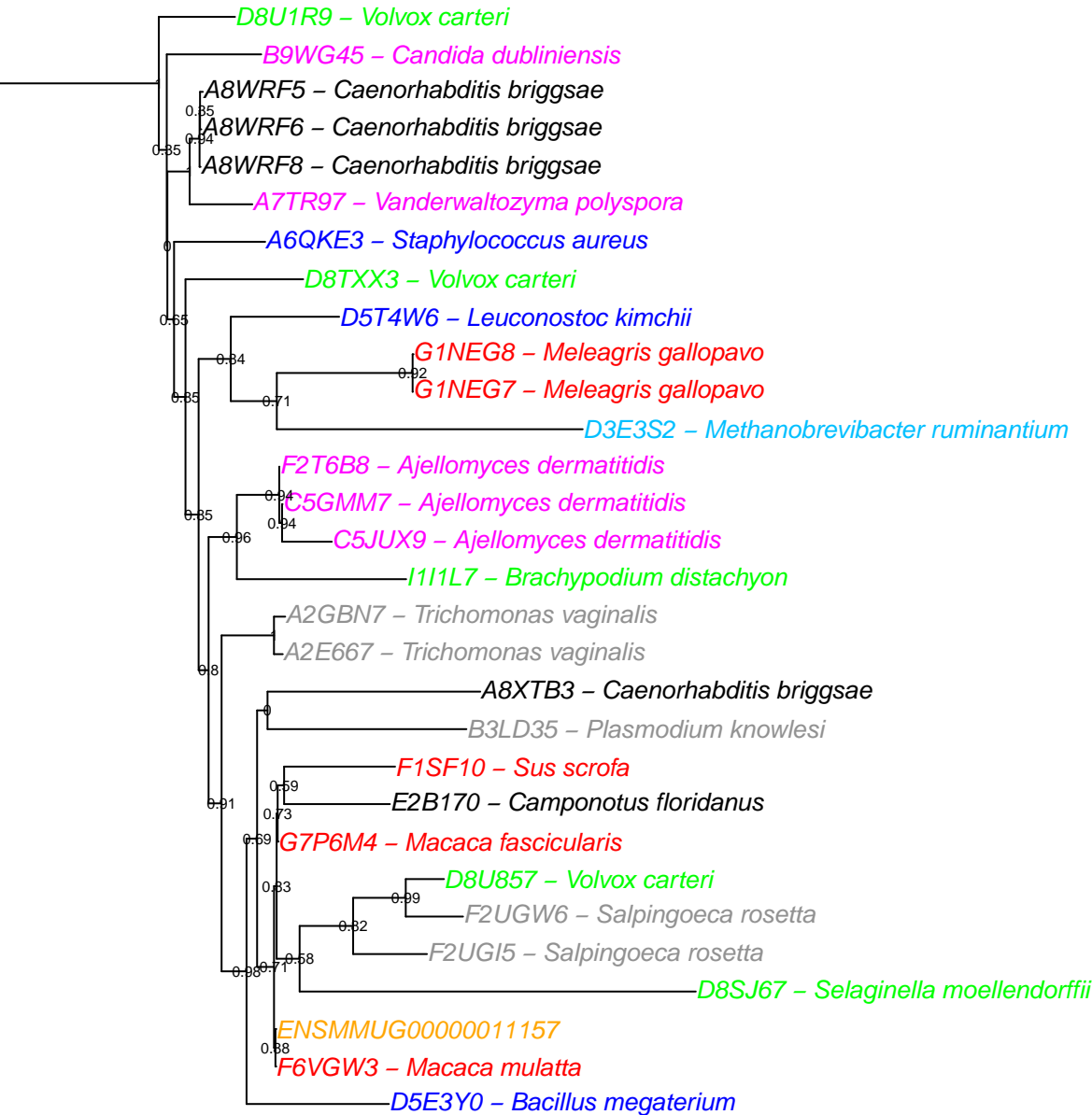






B9LG58 – *Chloroflexus aurantiacus*

A9WBZ5 – *Chloroflexus aurantiacus*



E4SPX6 – *Streptococcus thermophilus*

Q03MS9 – *Streptococcus thermophilus*

C0MF69 – *Streptococcus equi* subsp. *zooepidemicus*

B4U0D4 – *Streptococcus equi* subsp. *zooepidemicus*

F8IM73 – *Streptococcus equi* subsp. *zooepidemicus*

B2B6A1 – *Podospira anserina*

ENSMMUG00000010922

G7Q1H5 – *Macaca fascicularis*

F7GLN9 – *Macaca mulatta*

G1R027 – *Nomascus leucogenys*

G3QNI4 – *Gorilla gorilla gorilla*

H2QBE6 – *Pan troglodytes*

I1C447 – *Rhizopus delemar*

B8PCC4 – *Postia placenta*

B8PKM3 – *Postia placenta*

F9FZM0 – *Fusarium oxysporum*

D7G7X6 – *Ectocarpus siliculosus*

D3SVK8 – *Natrialba magadii*

D8LPB5 – *Ectocarpus siliculosus*

E5SJ01 – *Trichinella spiralis*

A8PV21 – *Brugia malayi*

H3FIF0 – *Pristionchus pacificus*

E3NLQ7 – *Caenorhabditis remanei*

E3MTJ5 – *Caenorhabditis remanei*

B8BZ32 – *Thalassiosira pseudonana*

B5YNX7 – *Thalassiosira pseudonana*

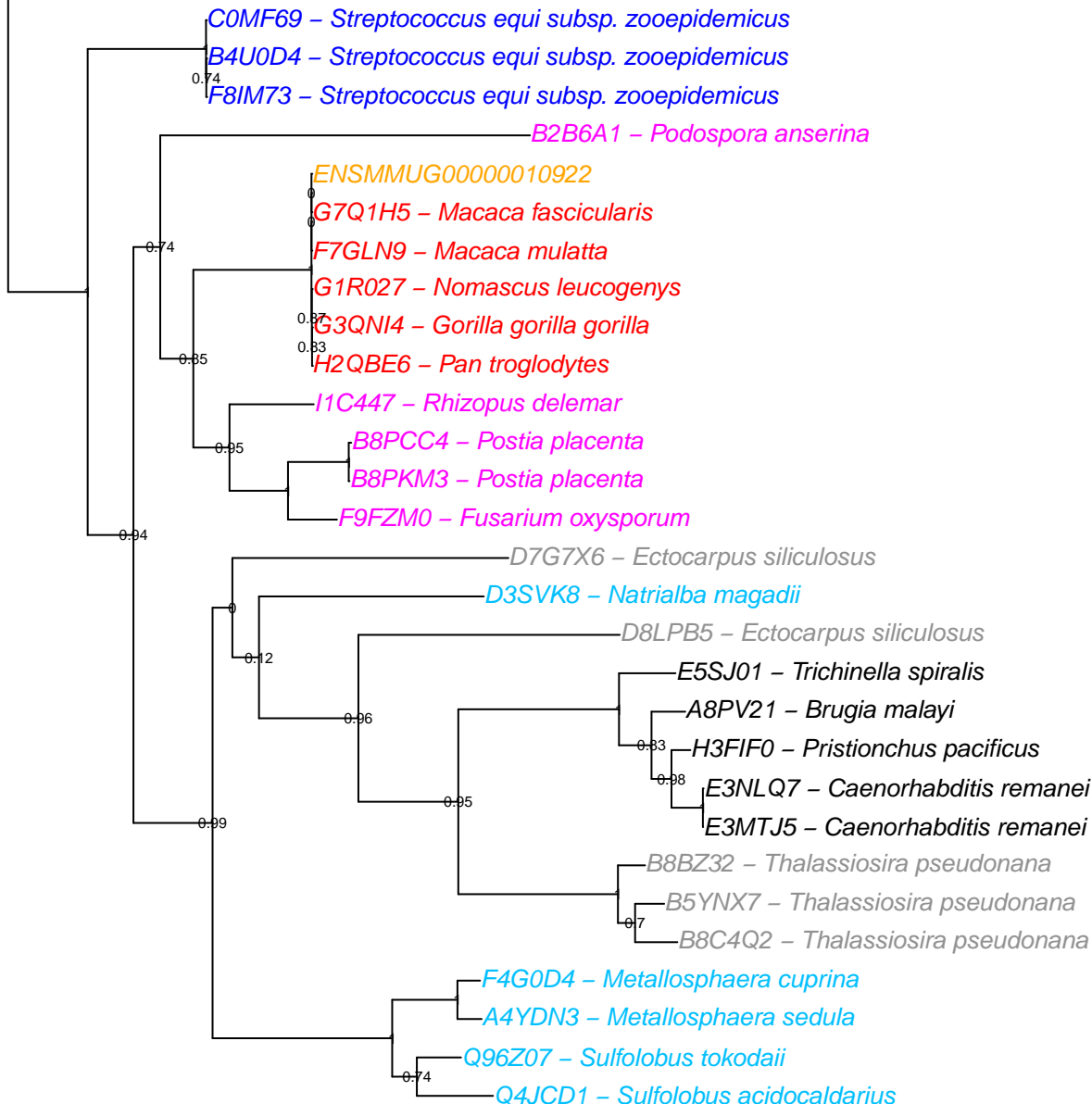
B8C4Q2 – *Thalassiosira pseudonana*

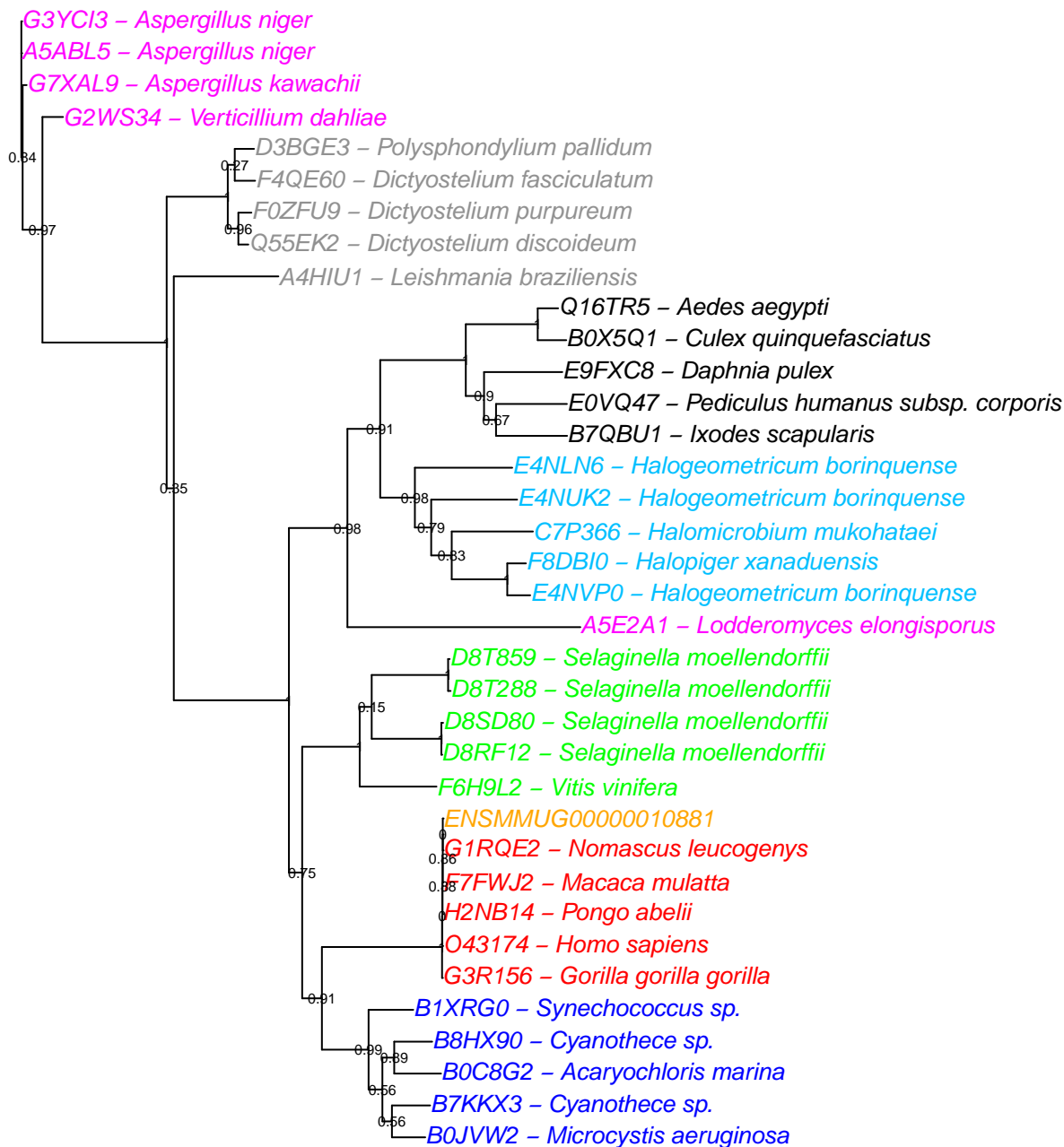
F4G0D4 – *Metallosphaera cuprina*

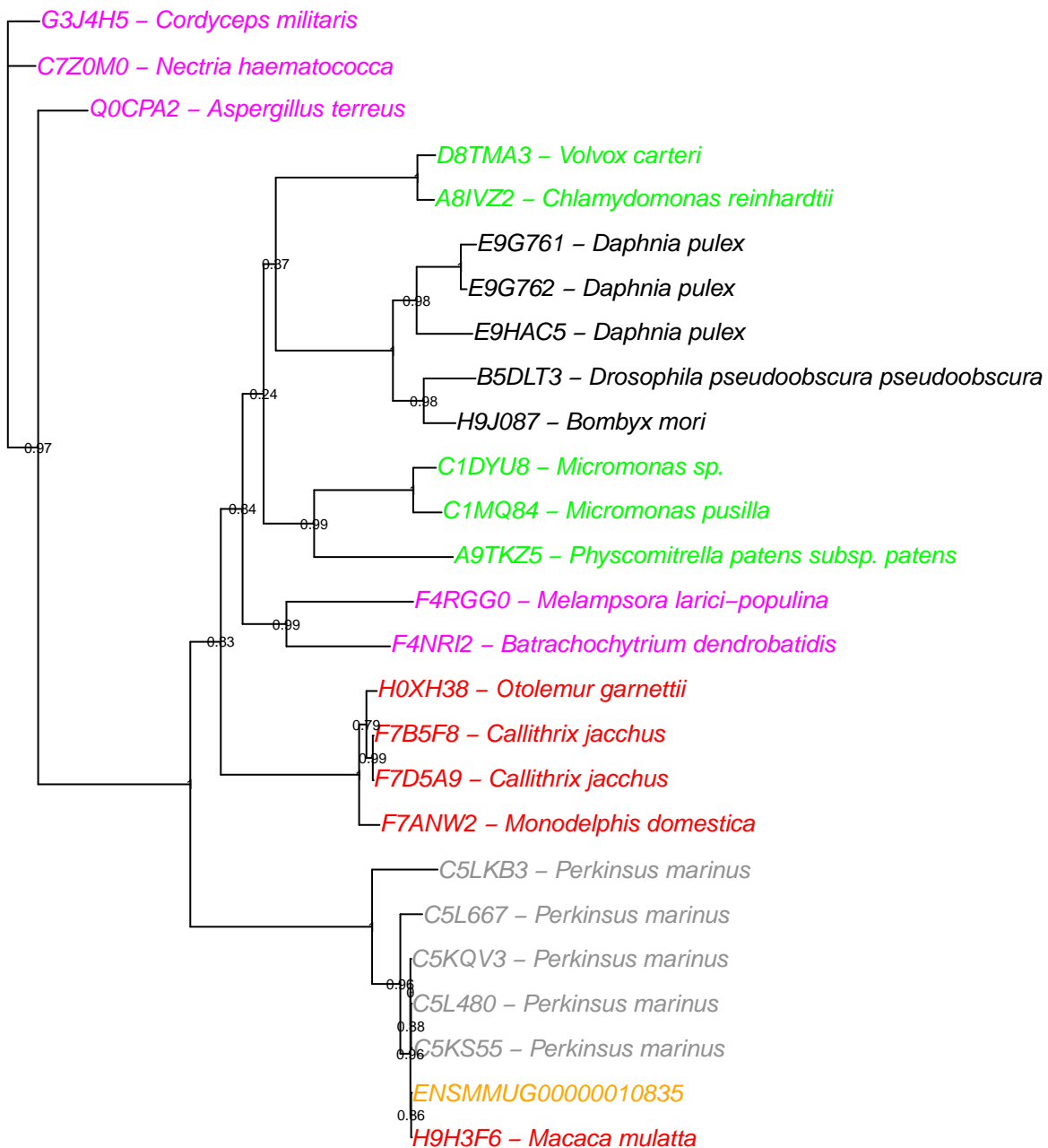
A4YDN3 – *Metallosphaera sedula*

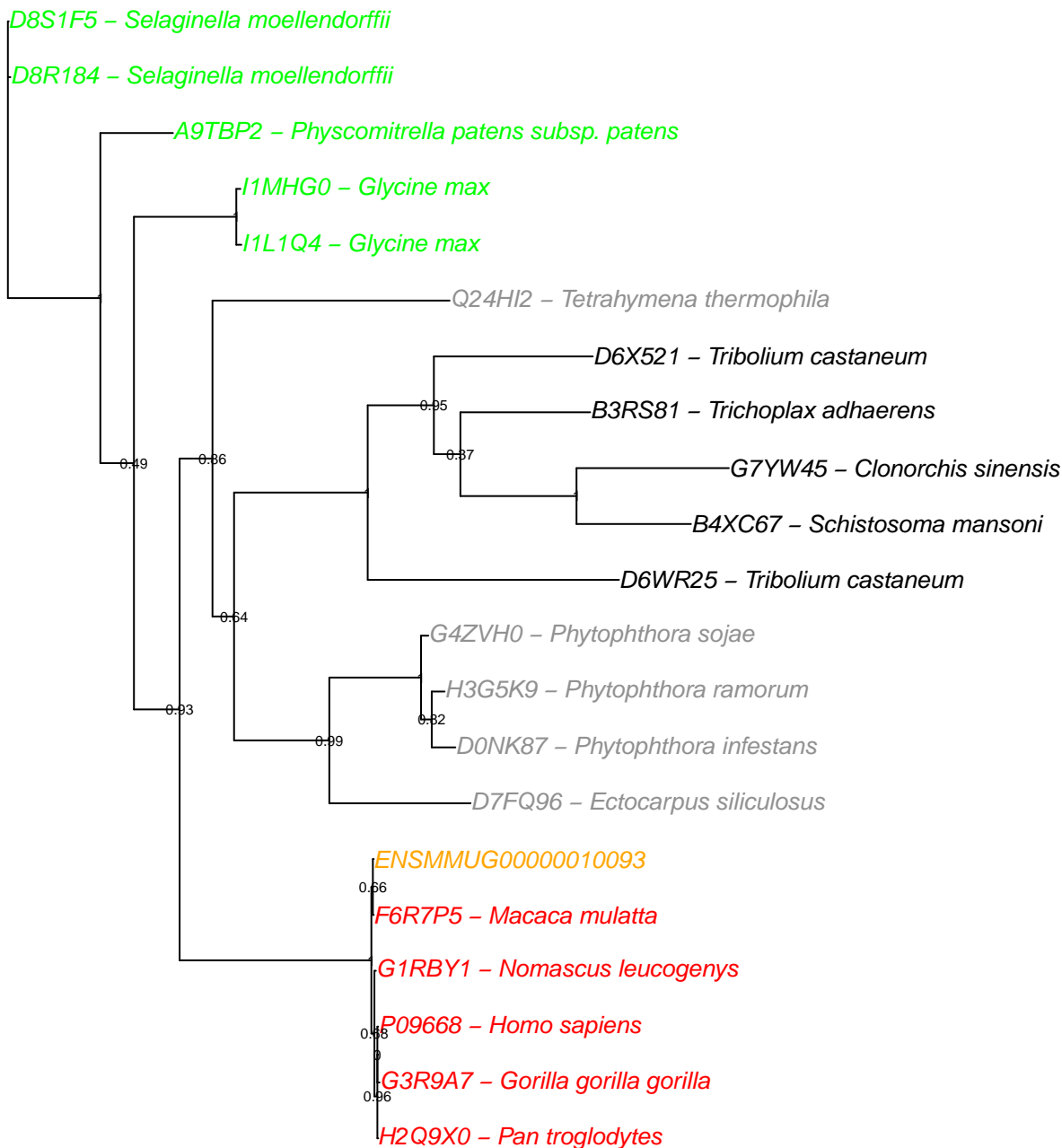
Q96Z07 – *Sulfolobus tokodaii*

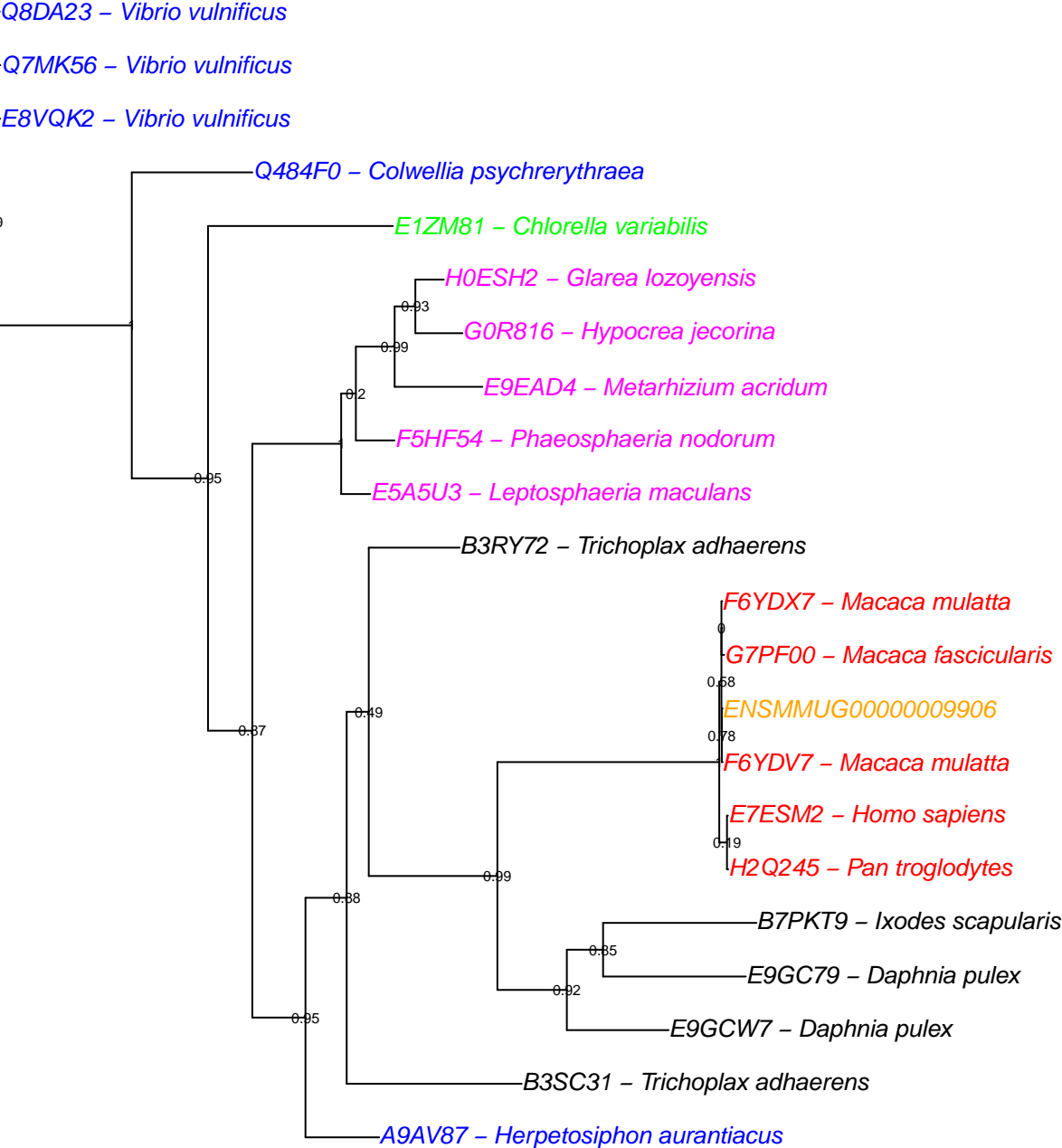
Q4JCD1 – *Sulfolobus acidocaldarius*

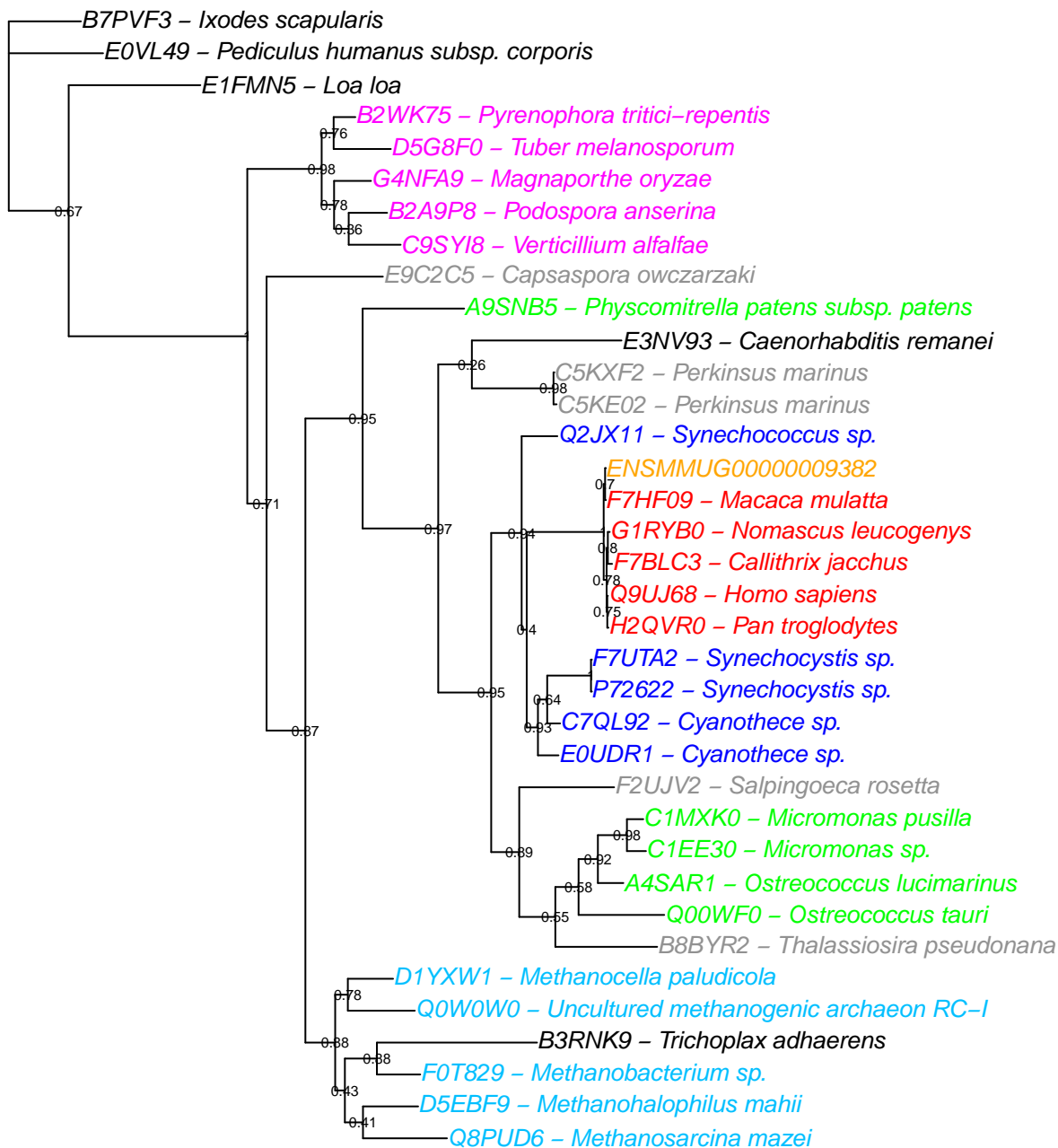


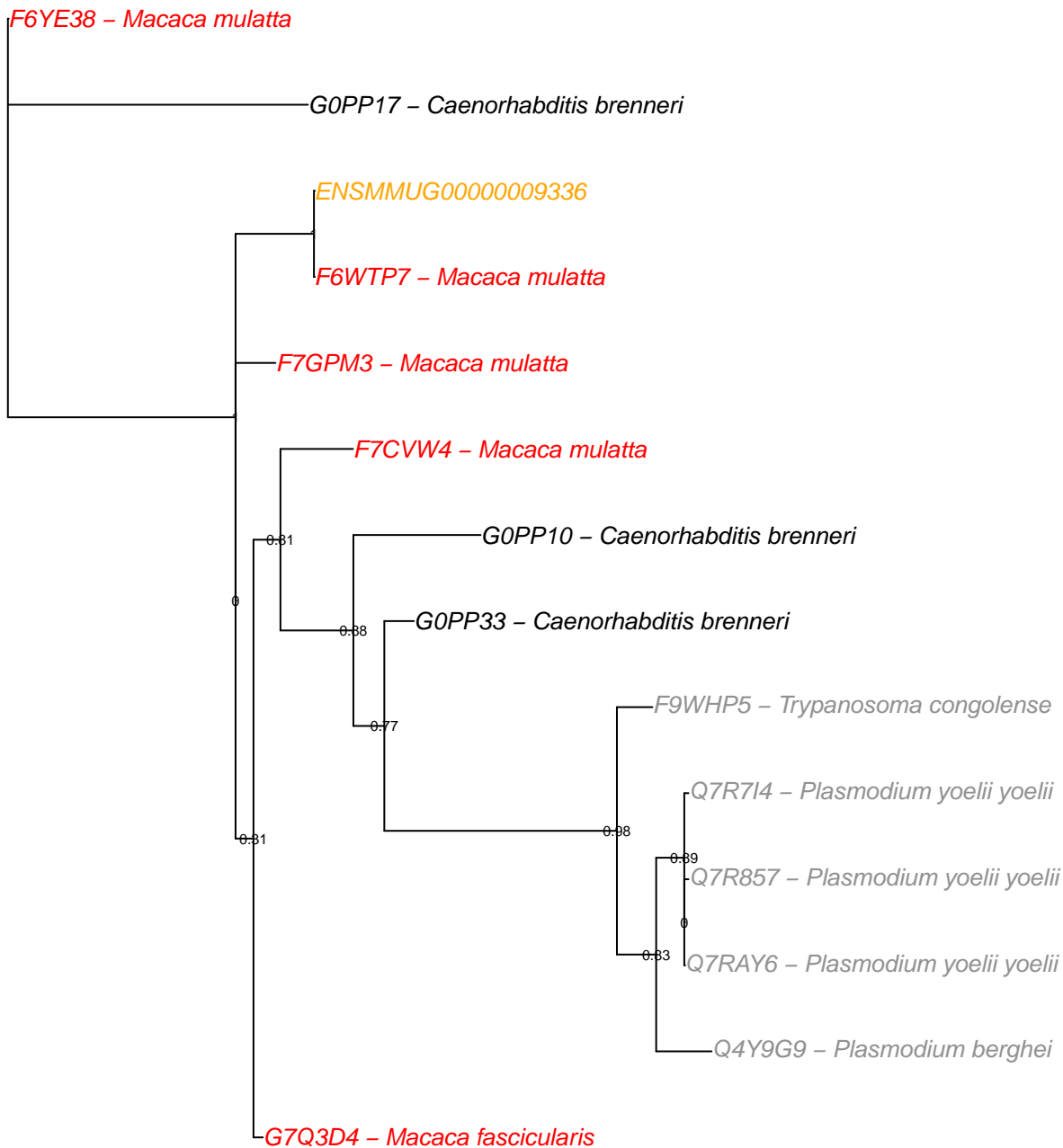


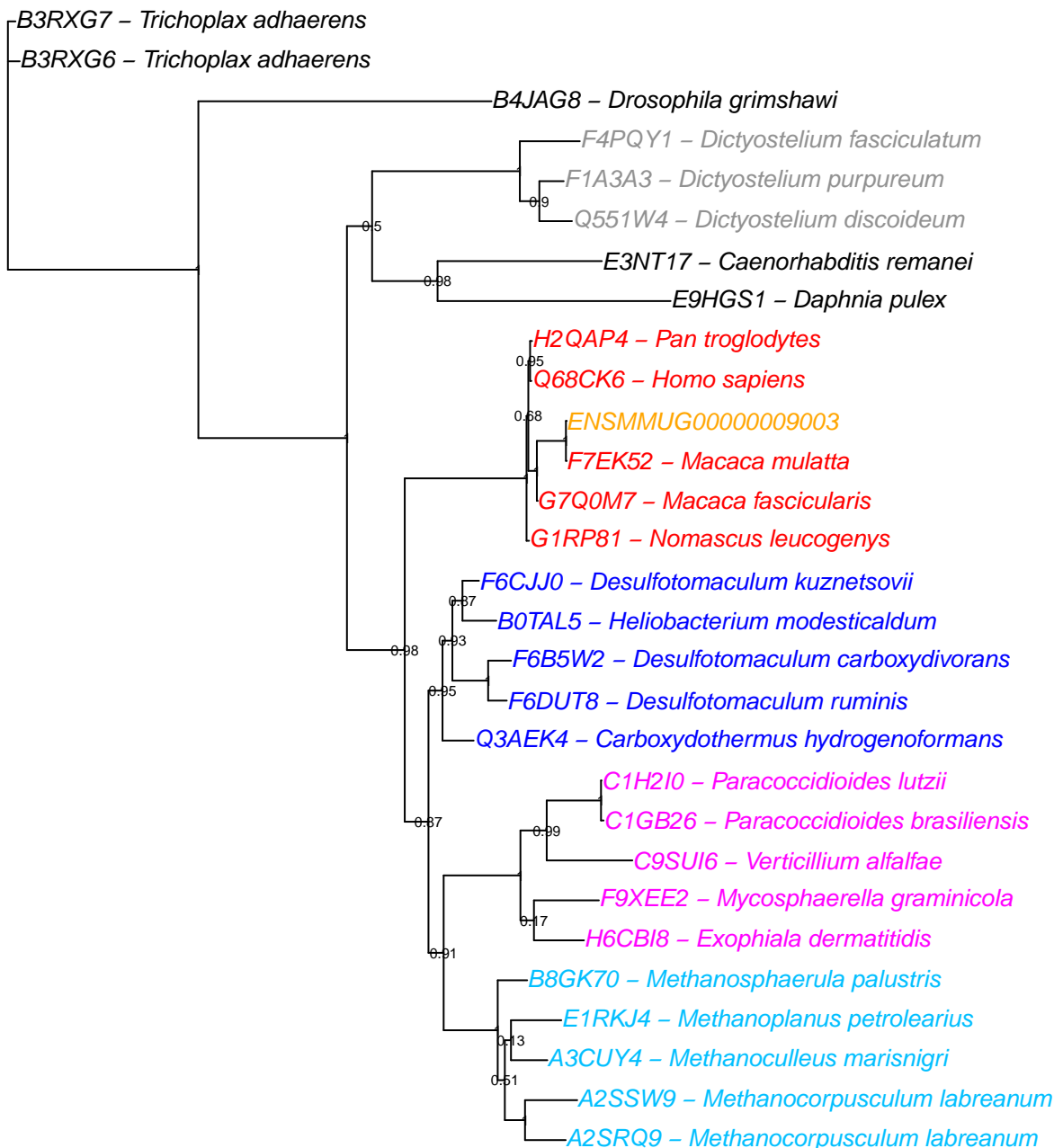


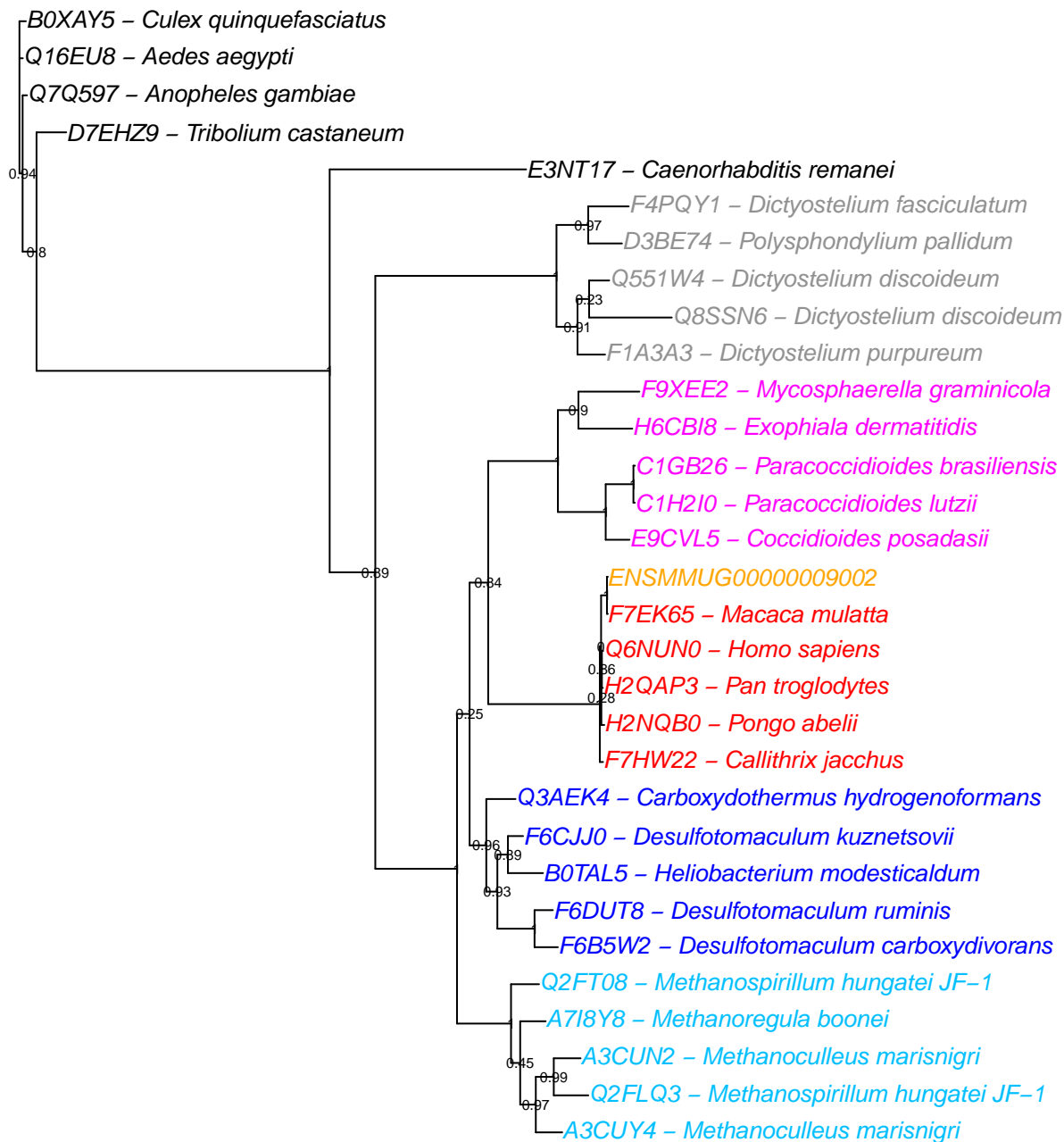


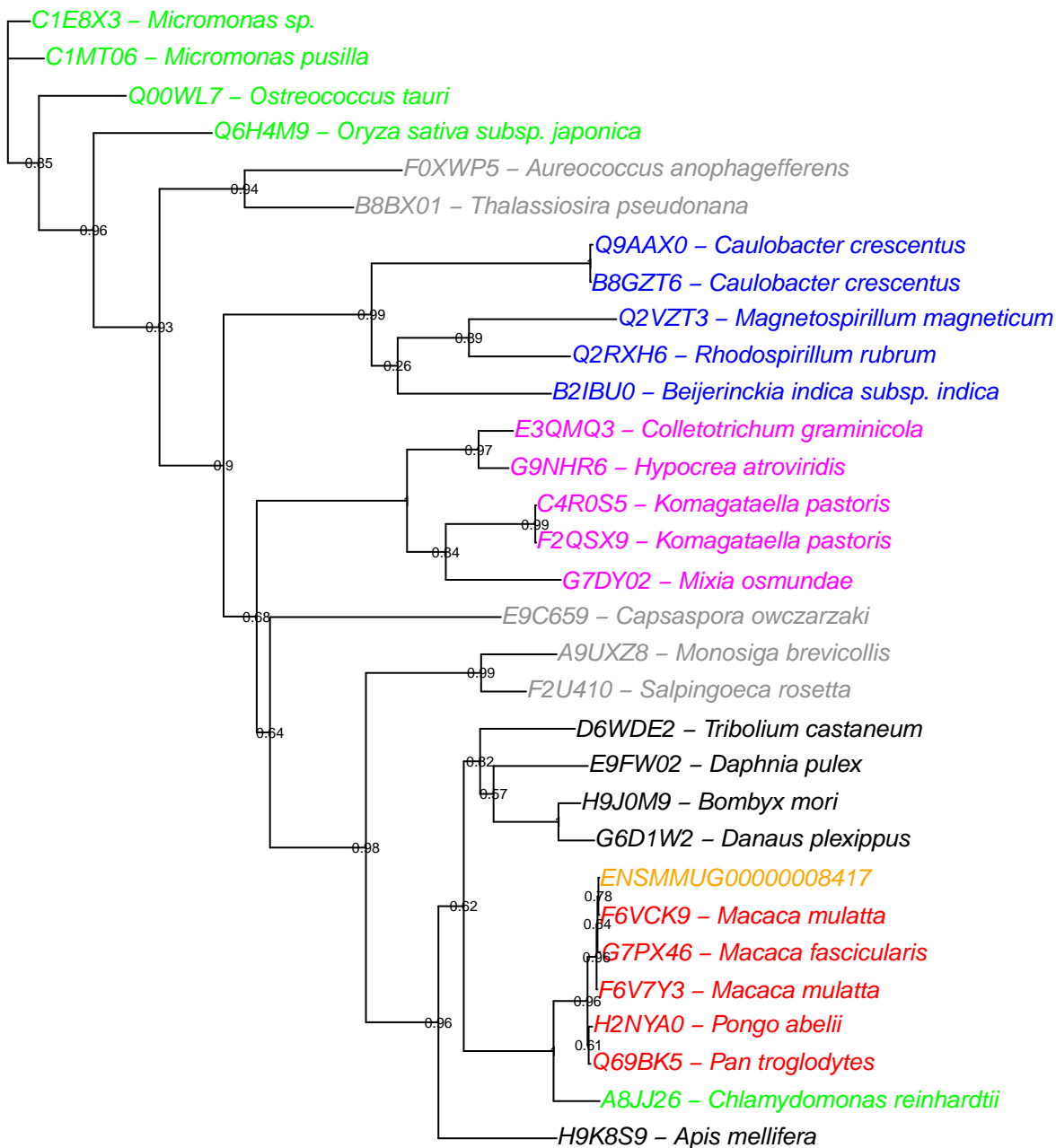




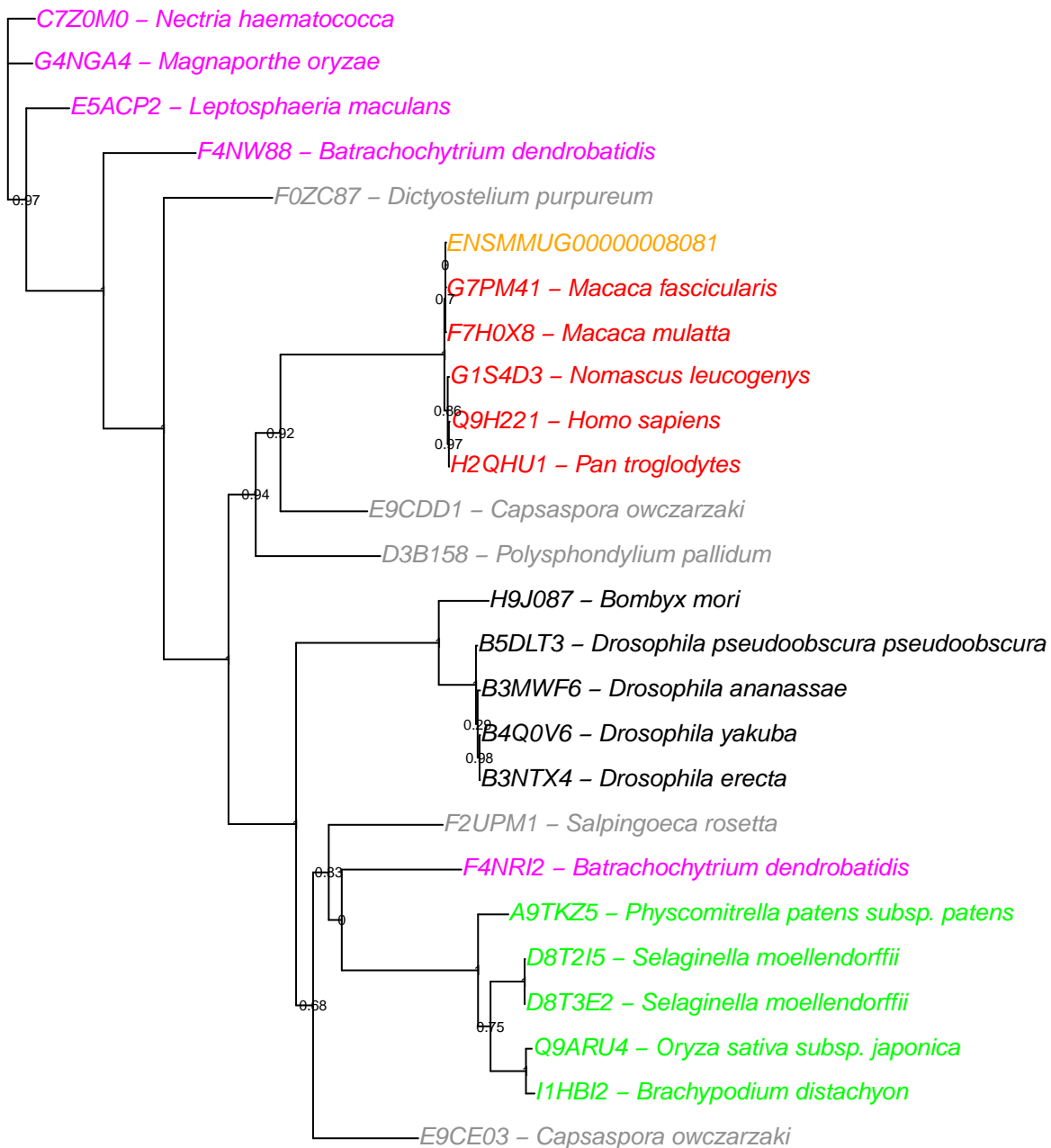


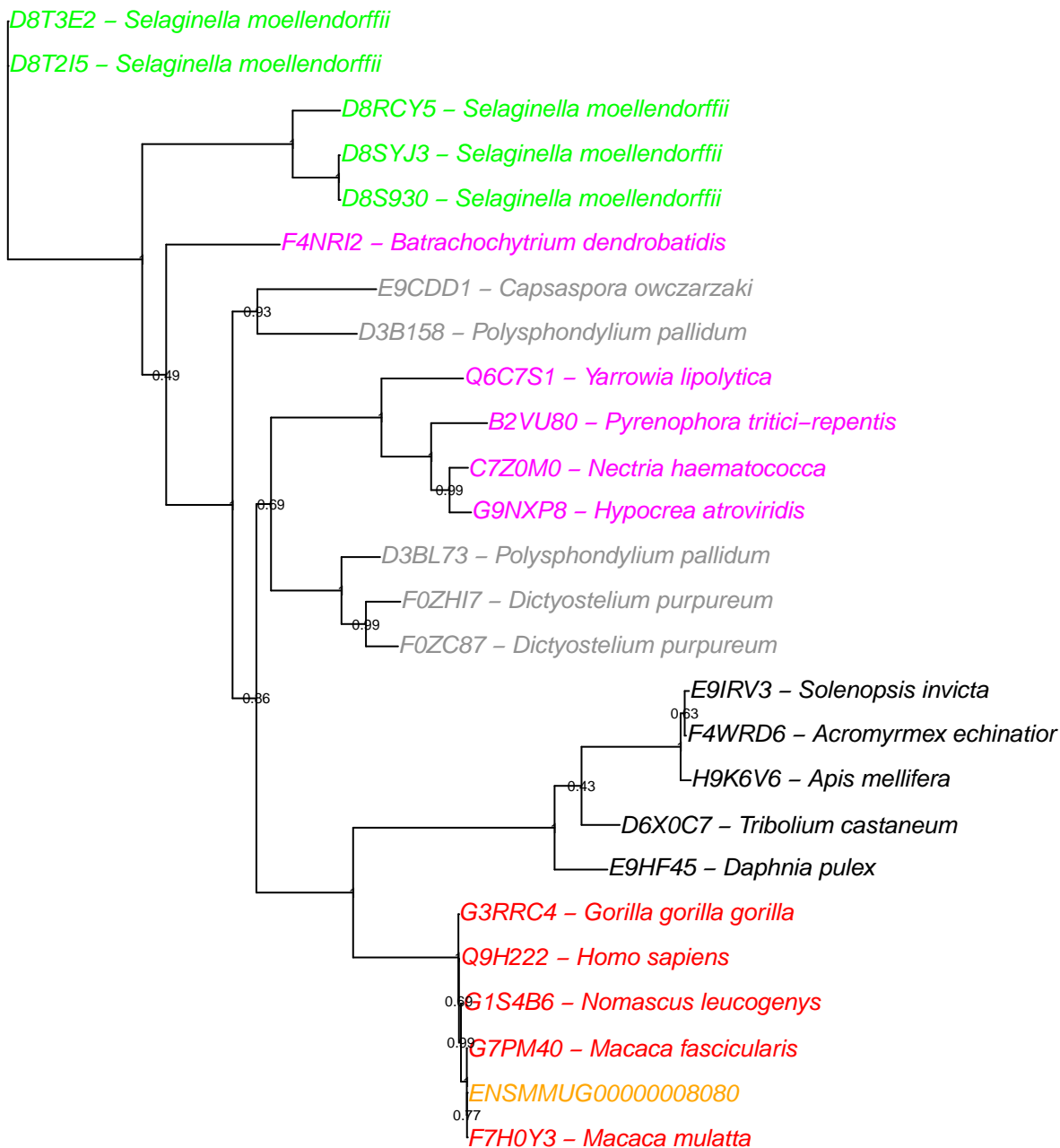












ENSMMUG00000007994

F7HLK3 – *Macaca mulatta*

G7PQU5 – *Macaca fascicularis*

E1GPK7 – *Loa loa*

0.39

0.53

0.96

F6VDQ7 – *Equus caballus*

F6UDQ6 – *Equus caballus*

0.34

F6Z958 – *Equus caballus*

0.51

Q4YK28 – *Plasmodium berghei*

Q7R7K6 – *Plasmodium yoelii yoelii*

0.58

Q7R980 – *Plasmodium yoelii yoelii*

0.99

0.39

Q4YHJ3 – *Plasmodium berghei*

Q4YIY0 – *Plasmodium berghei*

D2W495 – *Naegleria gruberi*

D2W1Q9 – *Naegleria gruberi*

B3RX63 – *Trichoplax adhaerens*

E9G269 – *Daphnia pulex*

B3RX67 – *Trichoplax adhaerens*

H9JLZ2 – *Bombyx mori*

D6WAC0 – *Tribolium castaneum*

F4NUB5 – *Batrachochytrium dendrobatidis*

I1CEX9 – *Rhizopus delemar*

C4V9G4 – *Nosema ceranae*

D3B006 – *Polysphondylium pallidum*

F0Z7X3 – *Dictyostelium purpureum*

Q55GV9 – *Dictyostelium discoideum*

B7XHT3 – *Enterocytozoon bienersi*

F7CP73 – *Macaca mulatta*

ENSMUG00000007805

F7CPN4 – *Macaca mulatta*

H2PD66 – *Pongo abelii*

G3S6F2 – *Gorilla gorilla gorilla*

H2R3J9 – *Pan troglodytes*

I1R207 – *Oryza glaberrima*

A7NH56 – *Roseiflexus castenholzii*

Q6CAY0 – *Yarrowia lipolytica*



H9KTS7 – *Apis mellifera*

H9KEY7 – *Apis mellifera*

E3RTT3 – *Pyrenophora teres f. teres*

B2VRR2 – *Pyrenophora tritici-repentis*

C6CWJ6 – *Paenibacillus* sp.

B3MF02 – *Drosophila ananassae*

B4MAC3 – *Drosophila virilis*

ENSMMUG00000007330

F7EDX5 – *Macaca mulatta*

F7EDX9 – *Macaca mulatta*

G3RLC2 – *Gorilla gorilla gorilla*

H2R435 – *Pan troglodytes*

Q14980 – *Homo sapiens*

B7K8Y7 – *Cyanotheca* sp.

E0U9W6 – *Cyanotheca* sp.

E1Z239 – *Chlorella variabilis*

Q00ZD8 – *Ostreococcus tauri*

G2XH36 – *Verticillium dahliae*

B9WGI7 – *Candida dubliniensis*

I1CQ93 – *Rhizopus delemar*

B0WD78 – *Culex quinquefasciatus*

Q4Q3D8 – *Leishmania major*

Q4QFM2 – *Leishmania major*

A4HW58 – *Leishmania infantum*

A4HW56 – *Leishmania infantum*

A4H7T4 – *Leishmania braziliensis*

E1Z3H3 – *Chlorella variabilis*

A8IV27 – *Chlamydomonas reinhardtii*

E1ZRK9 – *Chlorella variabilis*

Q3IT35 – *Natronomonas pharaonis*

C5A612 – *Thermococcus gammatolerans*

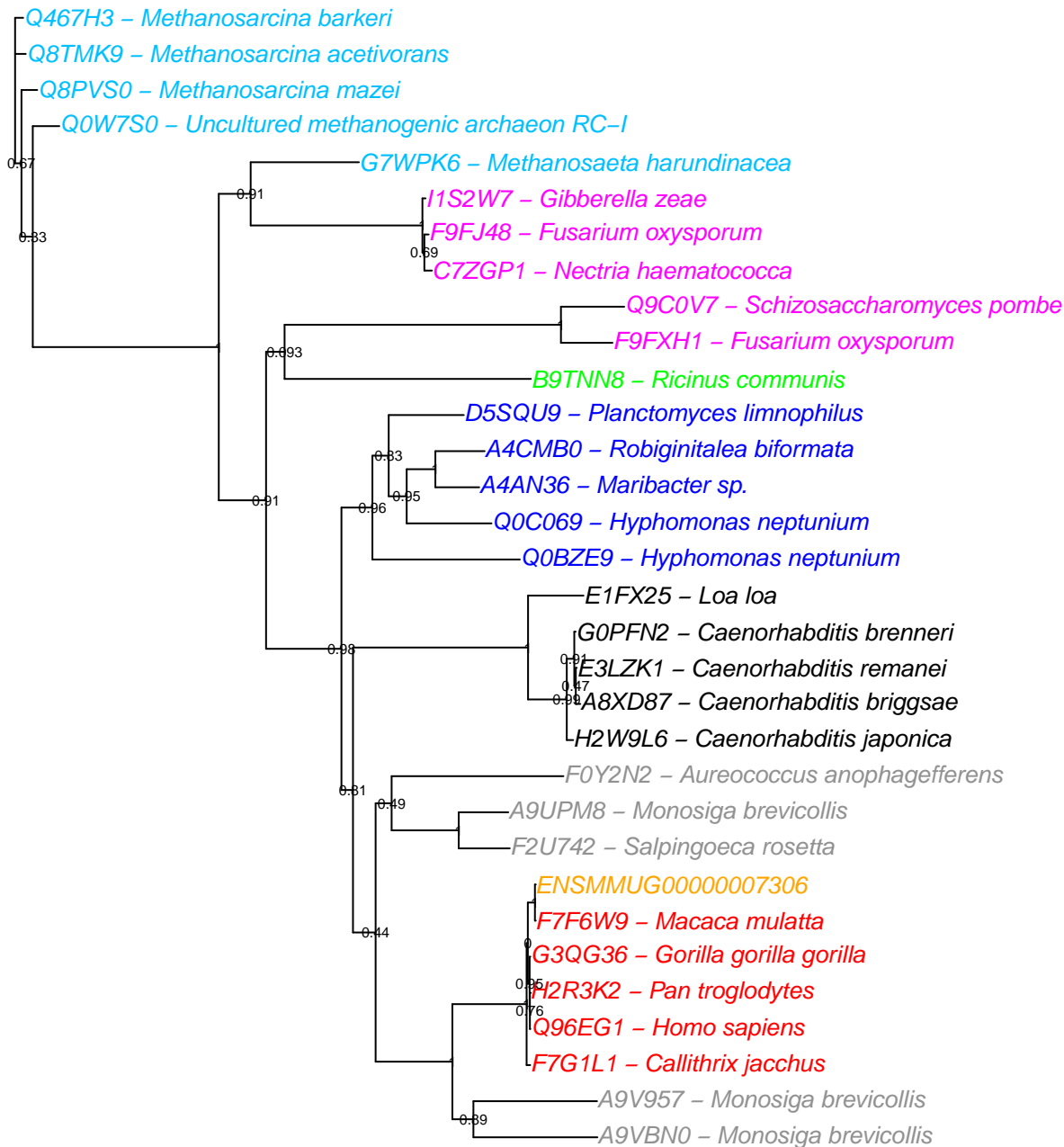
G0HP83 – *Thermococcus* sp.

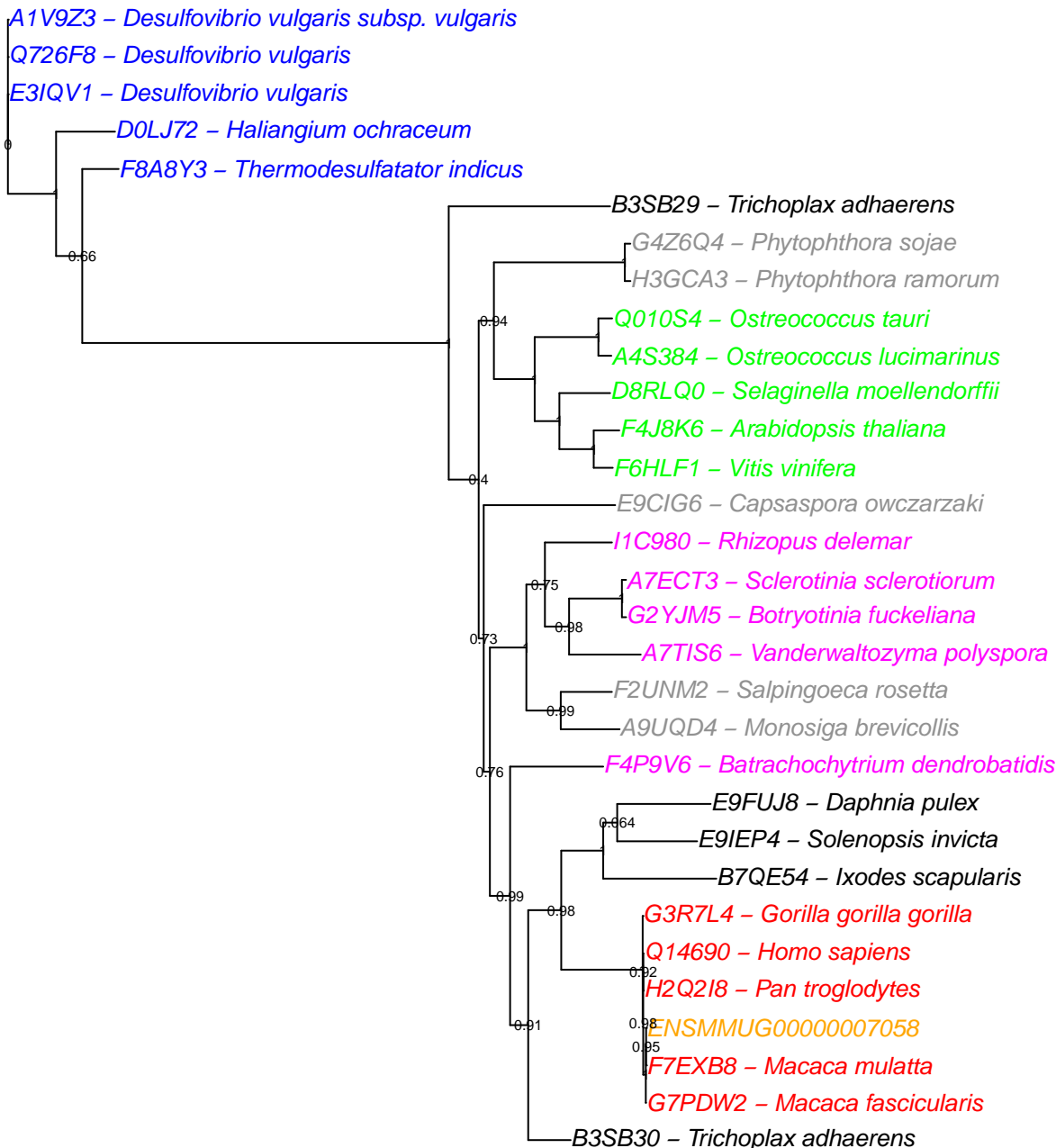
C7NRC1 – *Halorhabdus utahensis*

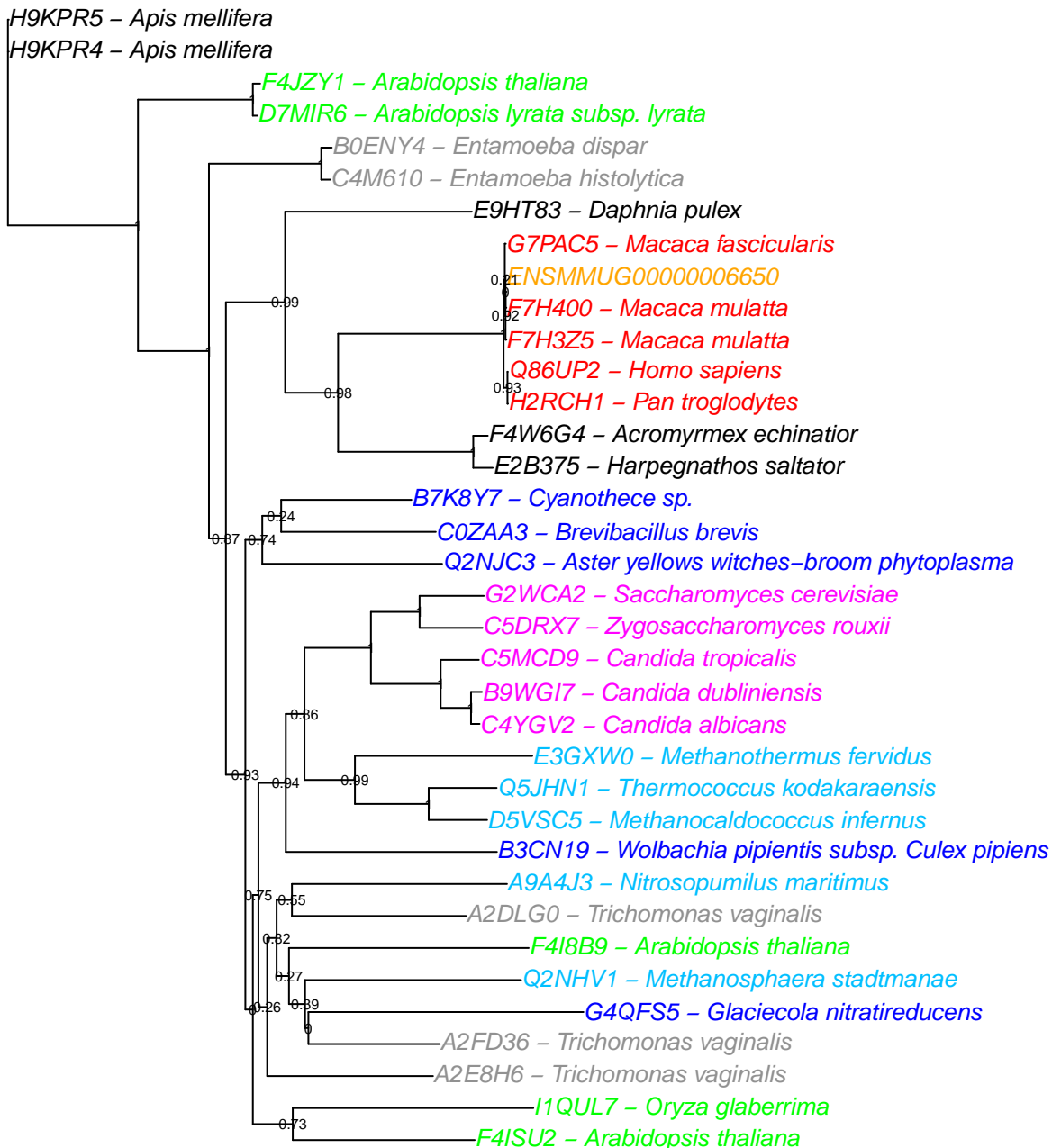
Q3ISN7 – *Natronomonas pharaonis*

F8FEL7 – *Paenibacillus mucilaginosus*

E3EFH7 – *Paenibacillus polymyxa*

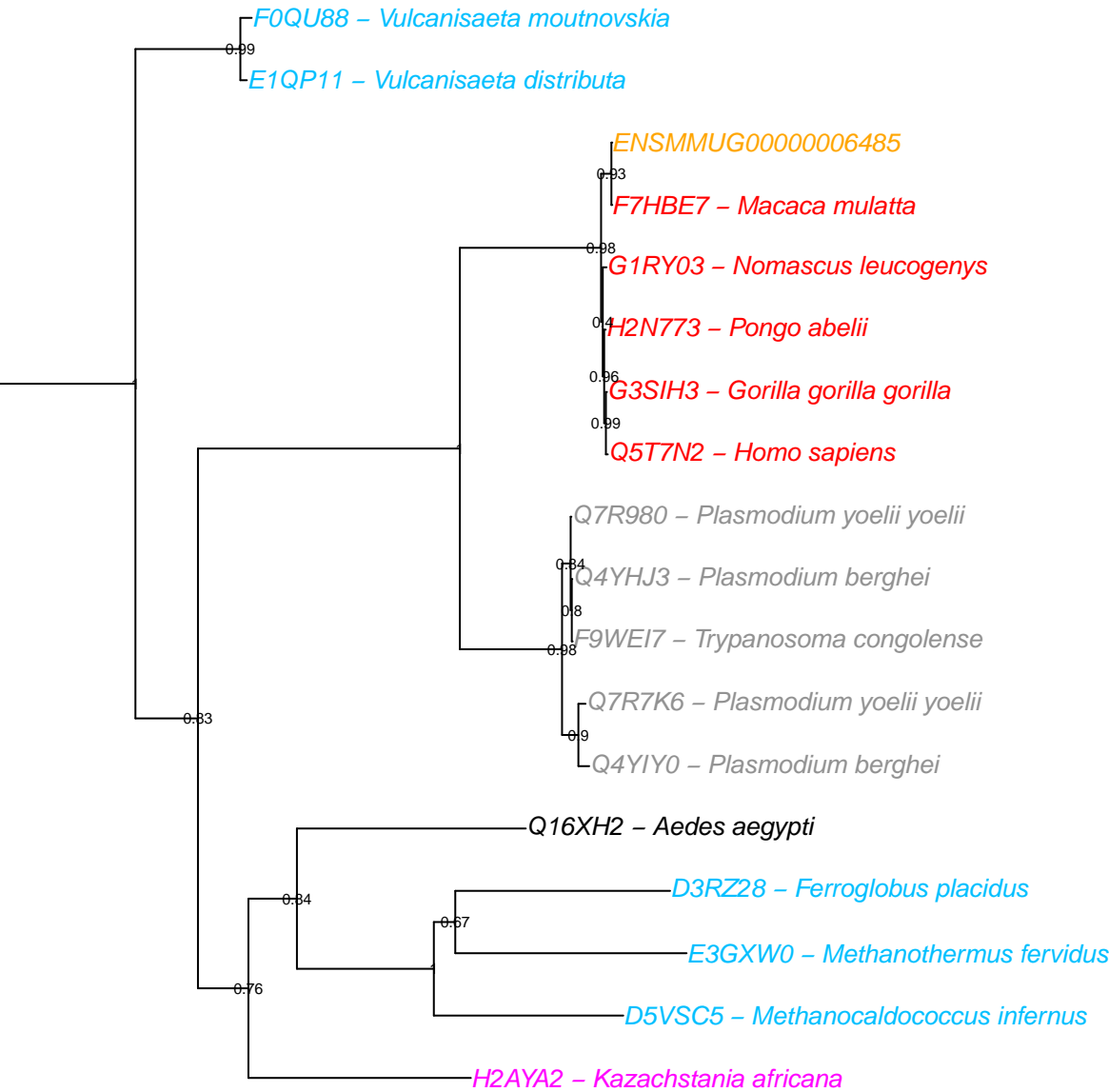


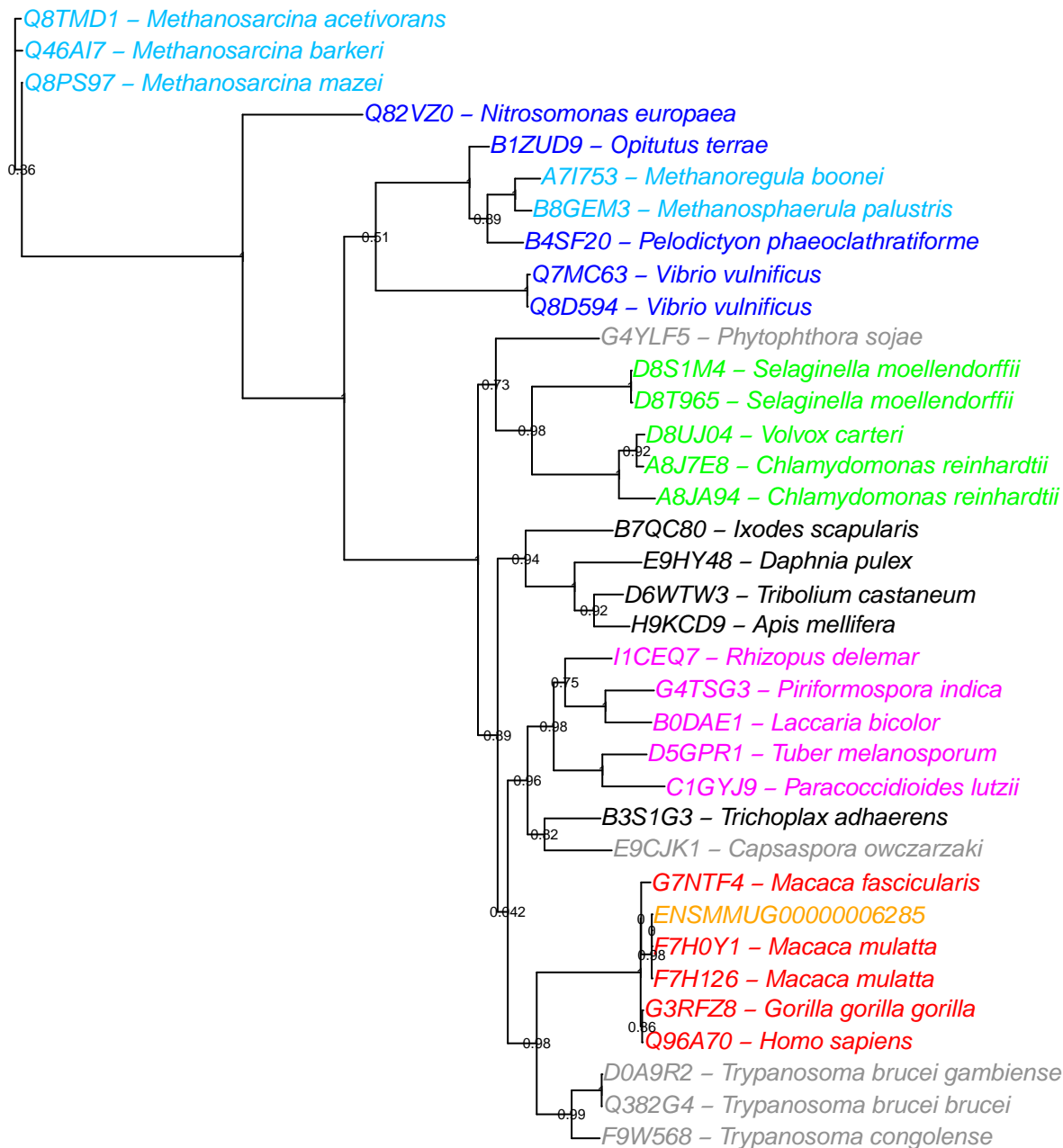




Q6MTW0 – *Mycoplasma mycoides* subsp. *mycoides* SC

D9QWV0 – *Mycoplasma mycoides* subsp. *mycoides* SC





ENSMUG00000005714

H9H339 – *Macaca mulatta*

C5KI92 – *Perkinsus marinus*

D8TP09 – *Volvox carteri*

D8TI77 – *Volvox carteri*

C3Z880 – *Branchiostoma floridae*

C3Z797 – *Branchiostoma floridae*

C3Z7D8 – *Branchiostoma floridae*

C3Z788 – *Branchiostoma floridae*

B4N7K1 – *Drosophila willistoni*

Q7Q2C6 – *Anopheles gambiae*

Q7Q2C4 – *Anopheles gambiae*

D7EL08 – *Tribolium castaneum*

D7GXX7 – *Tribolium castaneum*

D5G561 – *Tuber melanosporum*

C9SXP8 – *Verticillium alfalfae*

G2XGY2 – *Verticillium dahliae*

F4NRH7 – *Batrachochytrium dendrobatidis*

F4NV71 – *Batrachochytrium dendrobatidis*

E1ZRA5 – *Chlorella variabilis*

E1ZRB7 – *Chlorella variabilis*

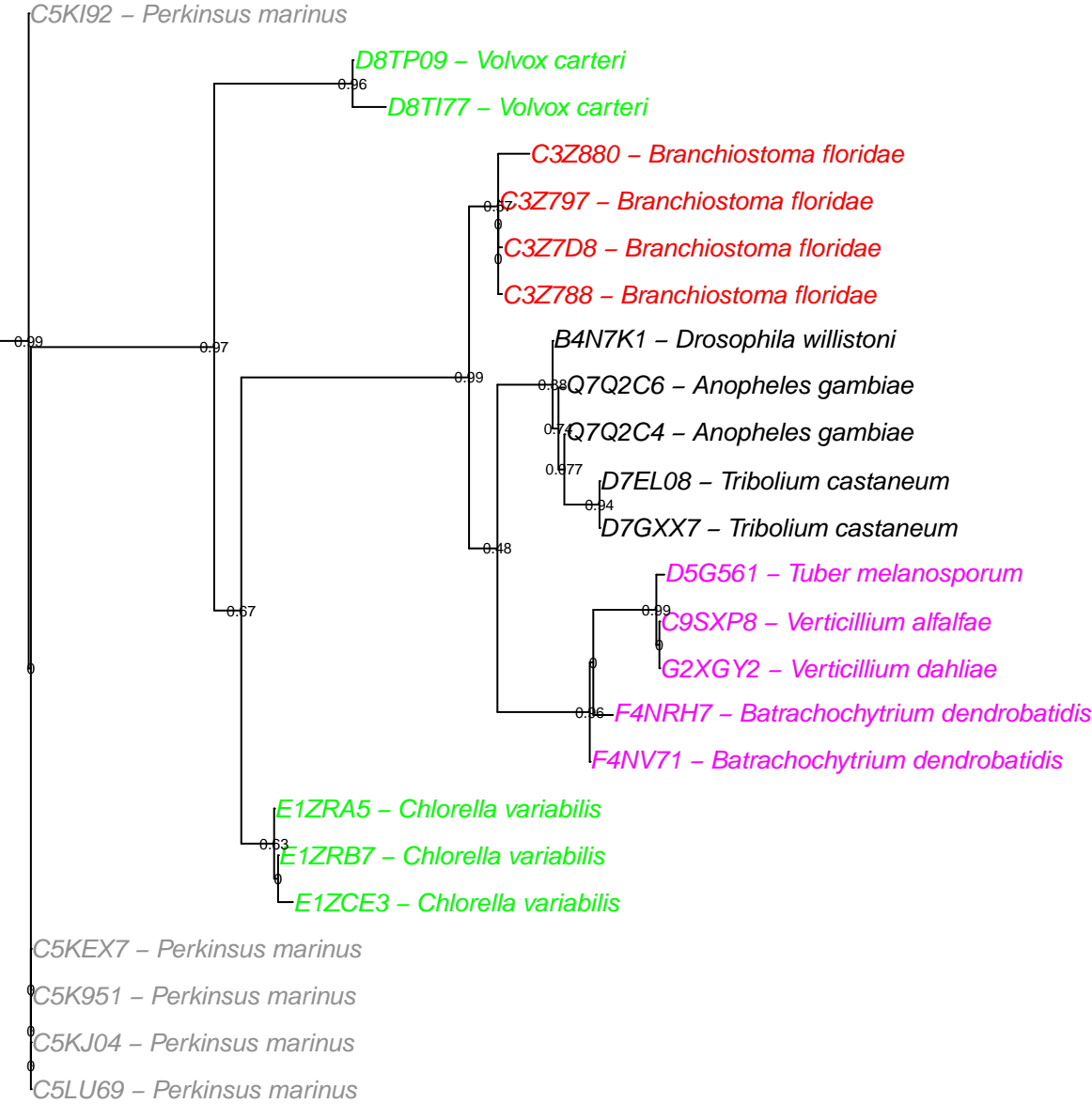
E1ZCE3 – *Chlorella variabilis*

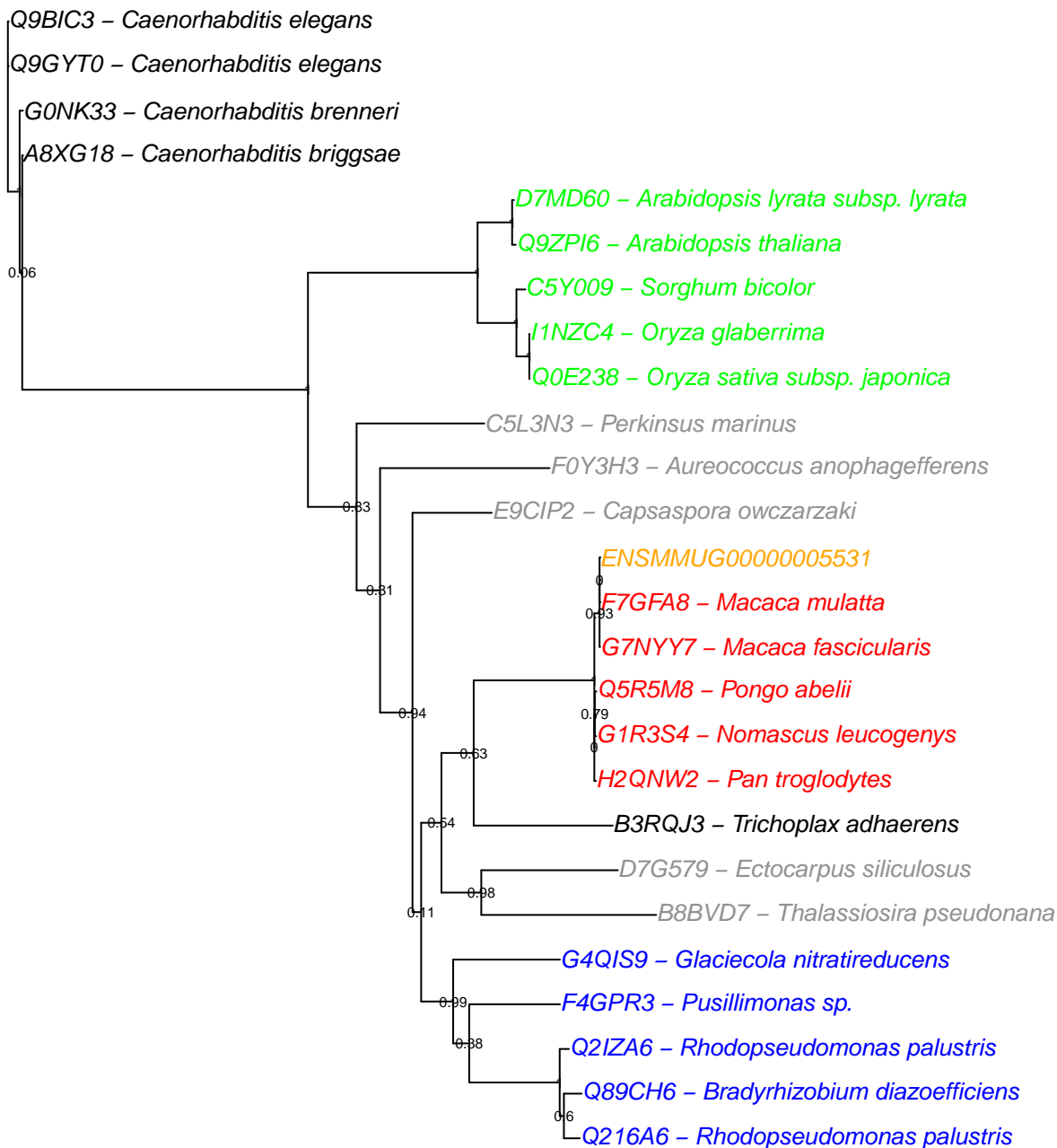
C5KEX7 – *Perkinsus marinus*

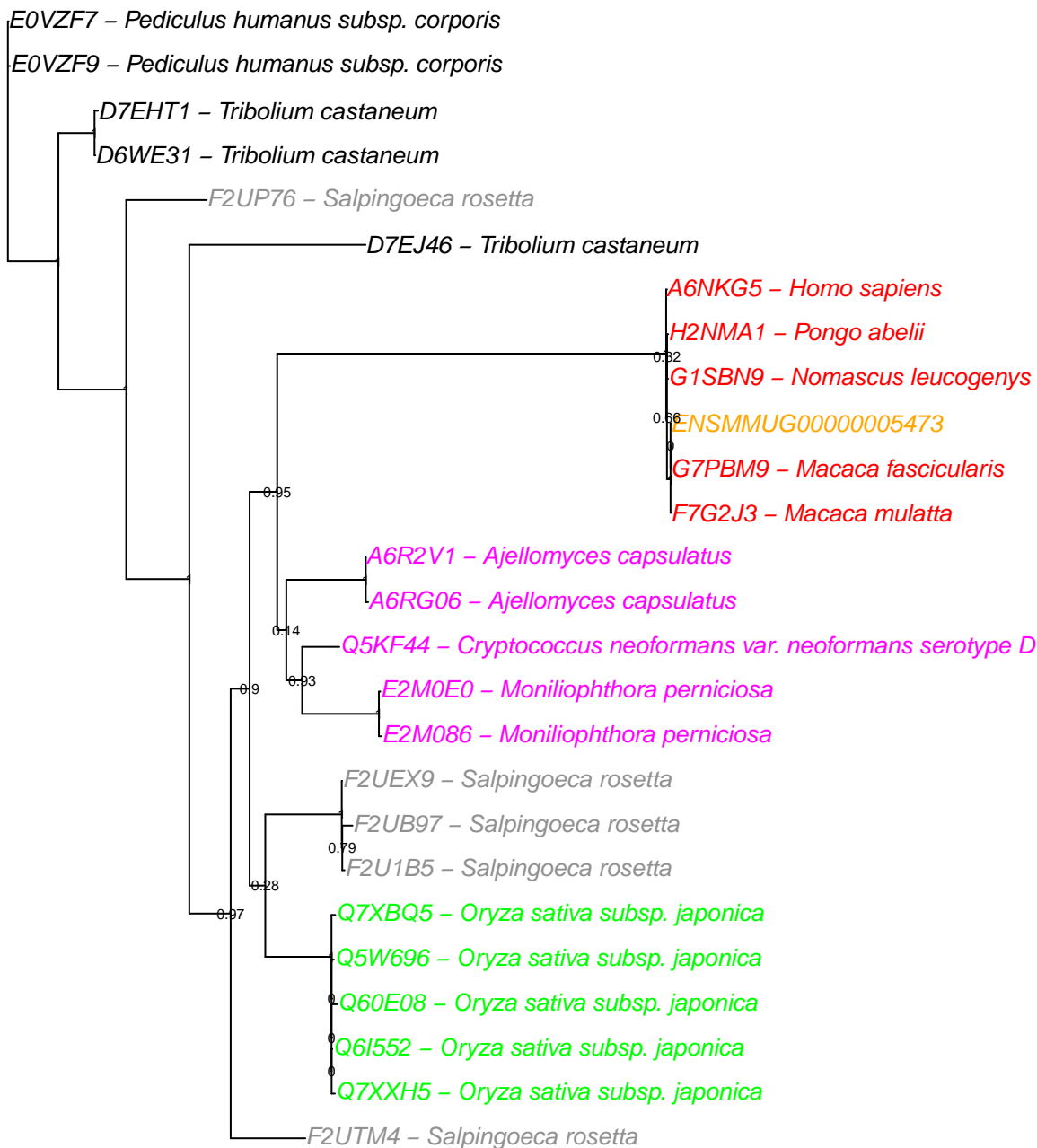
C5K951 – *Perkinsus marinus*

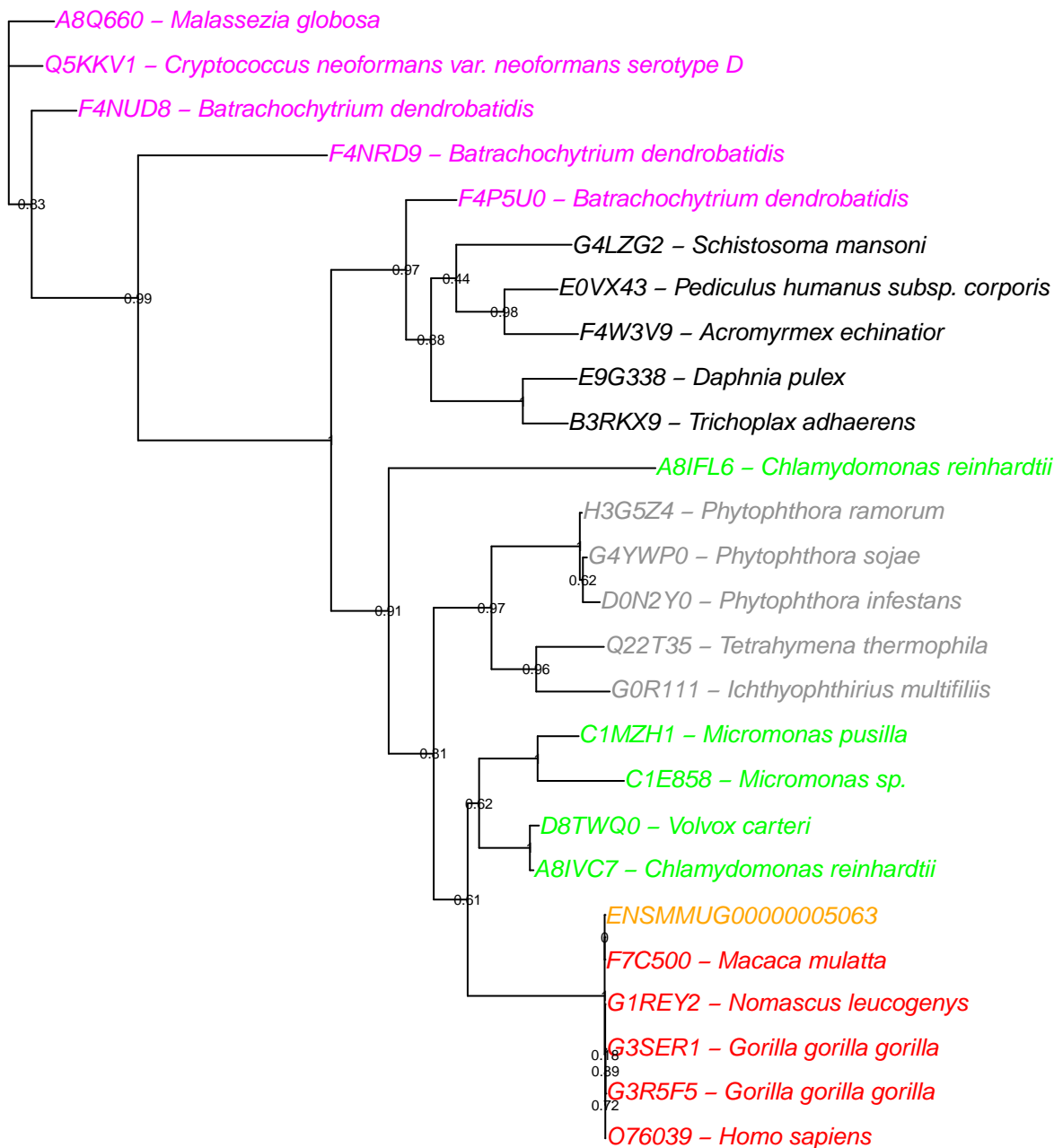
C5KJ04 – *Perkinsus marinus*

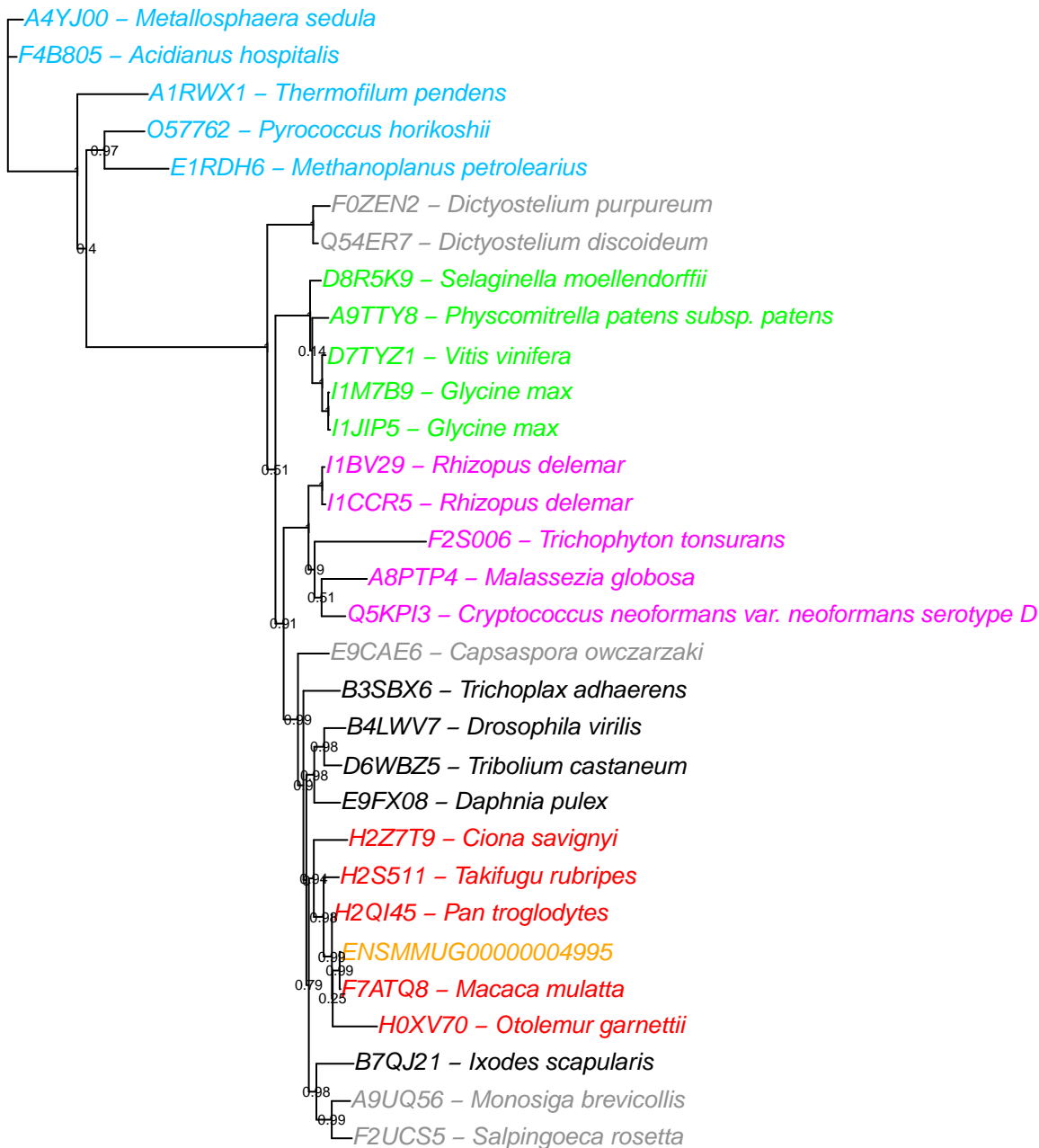
C5LU69 – *Perkinsus marinus*

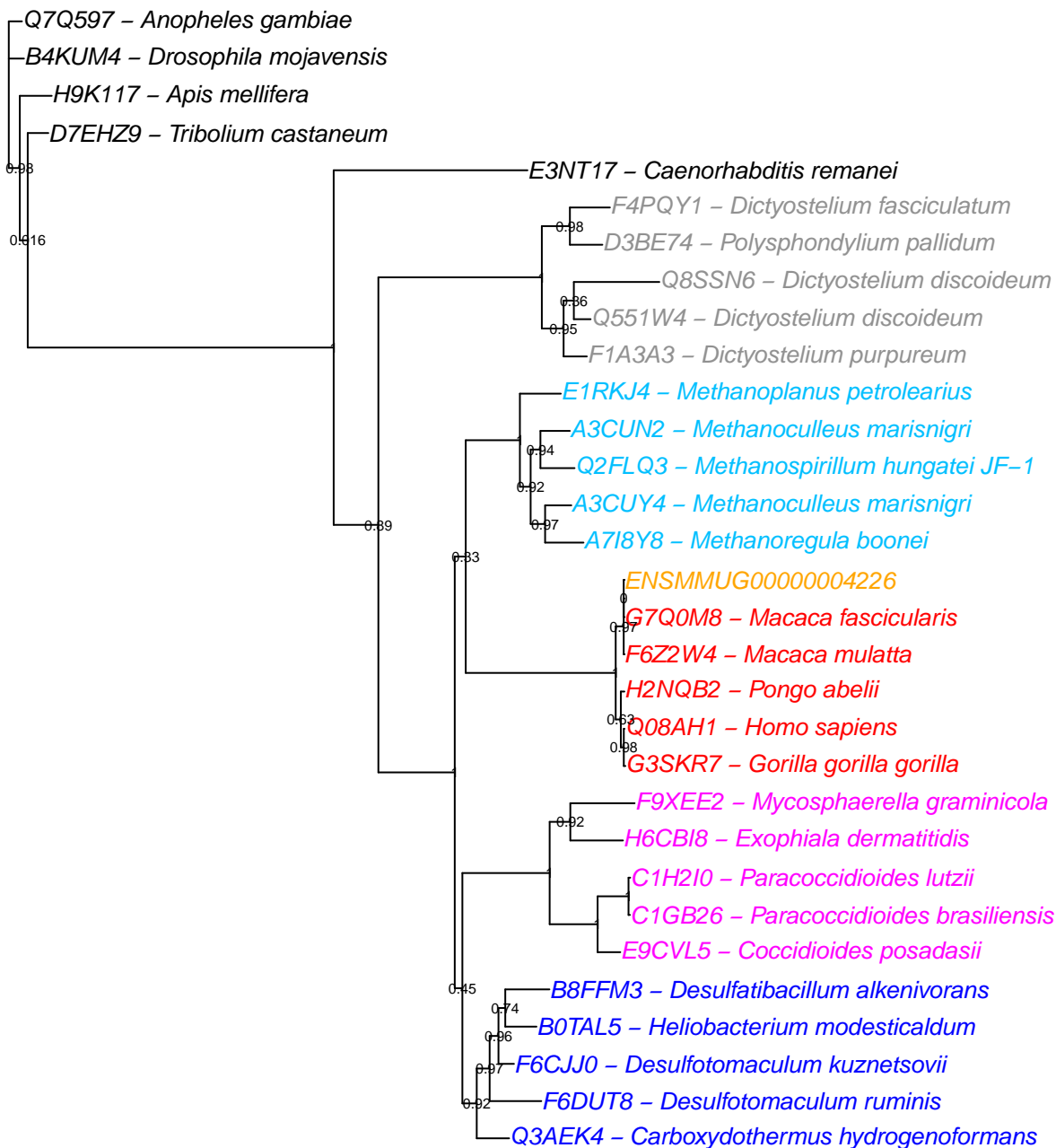


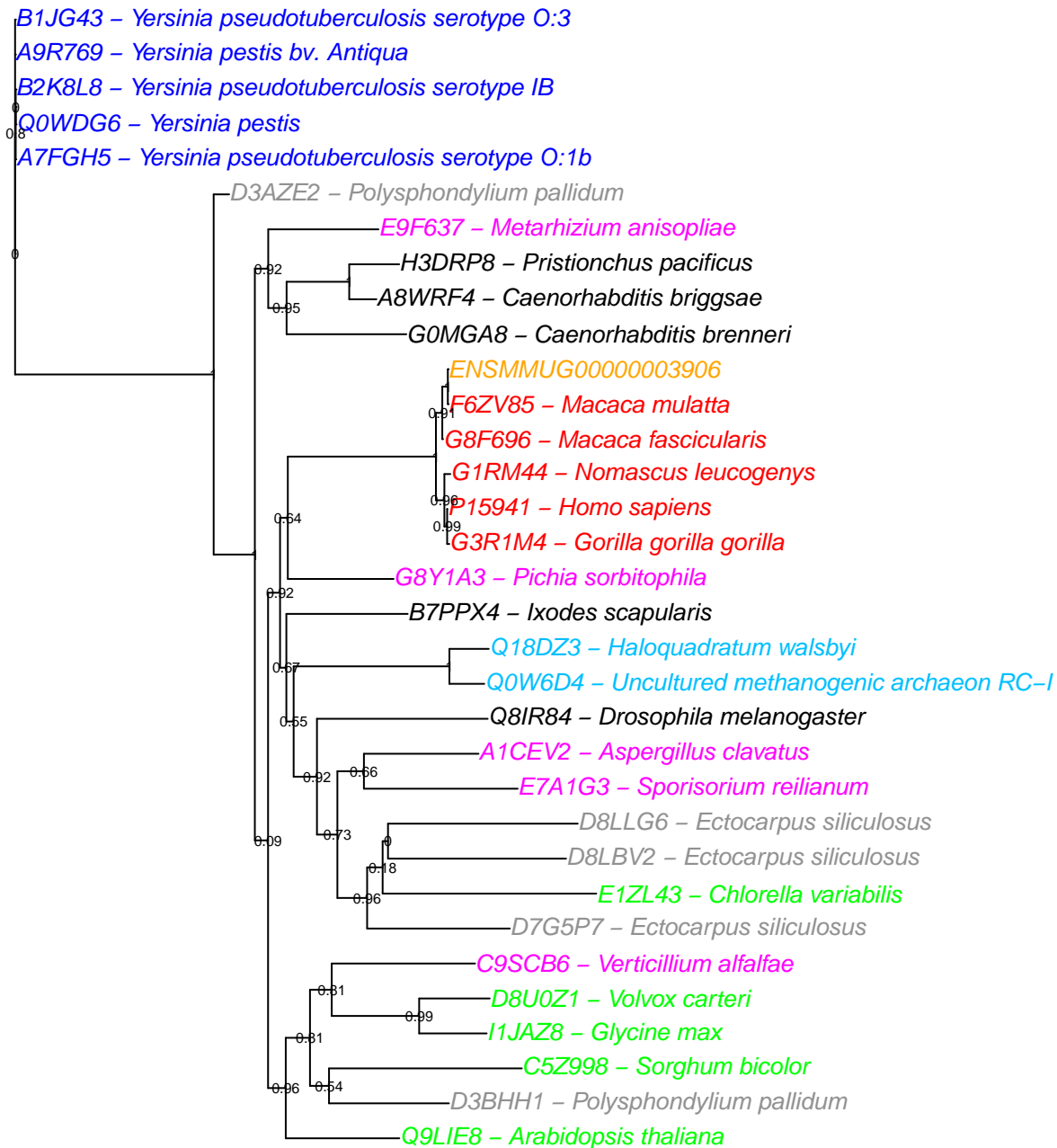


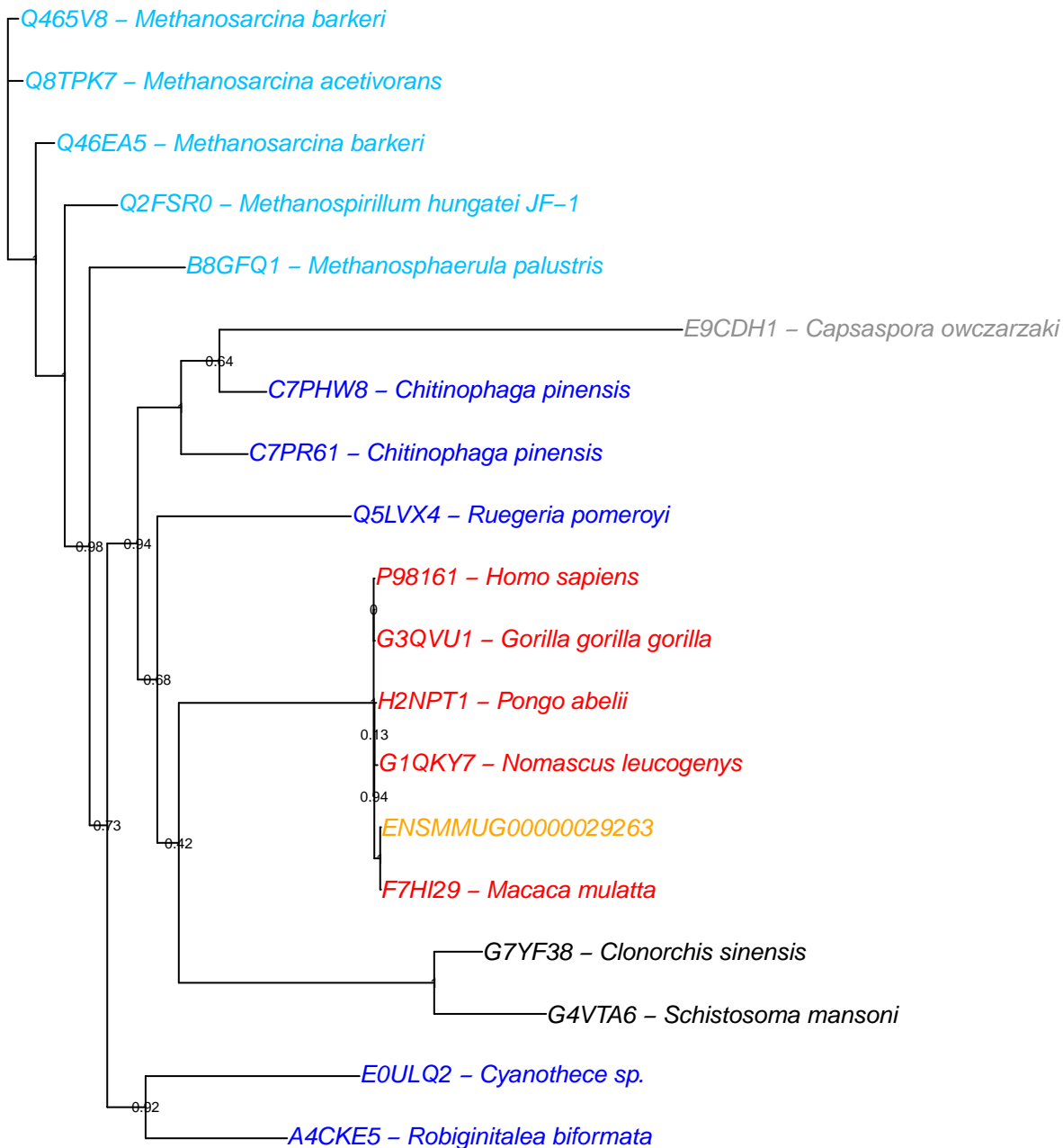


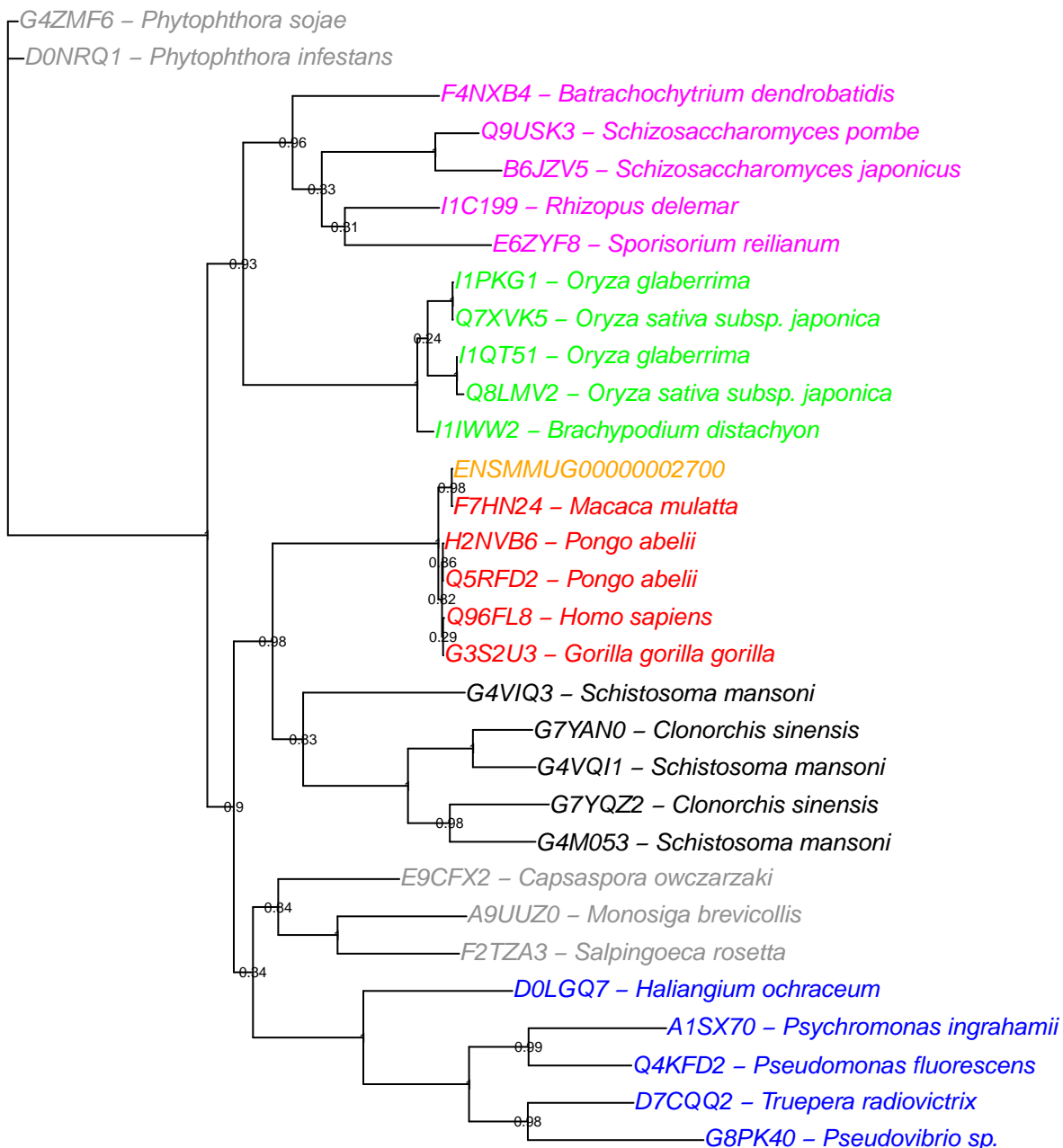


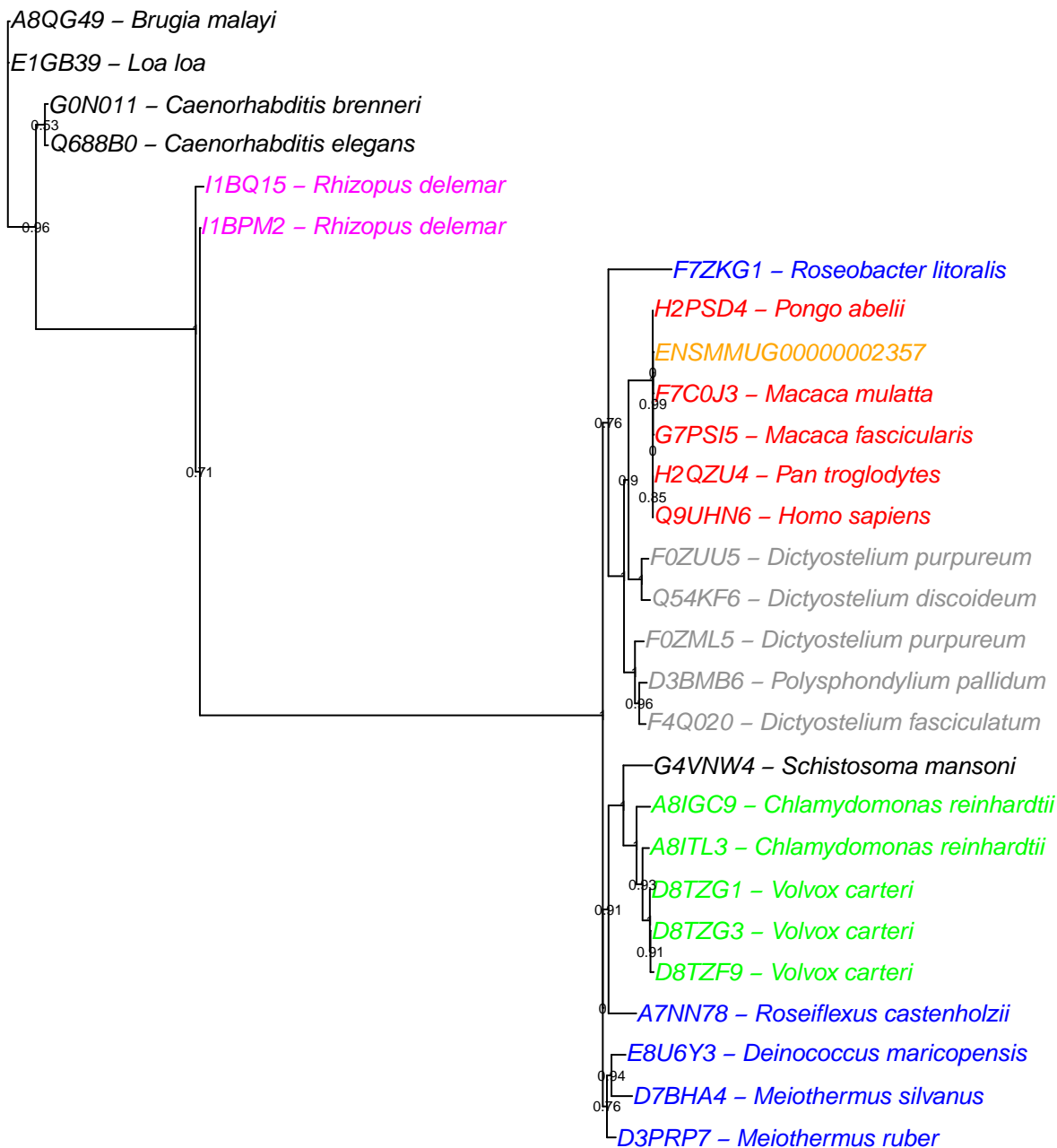


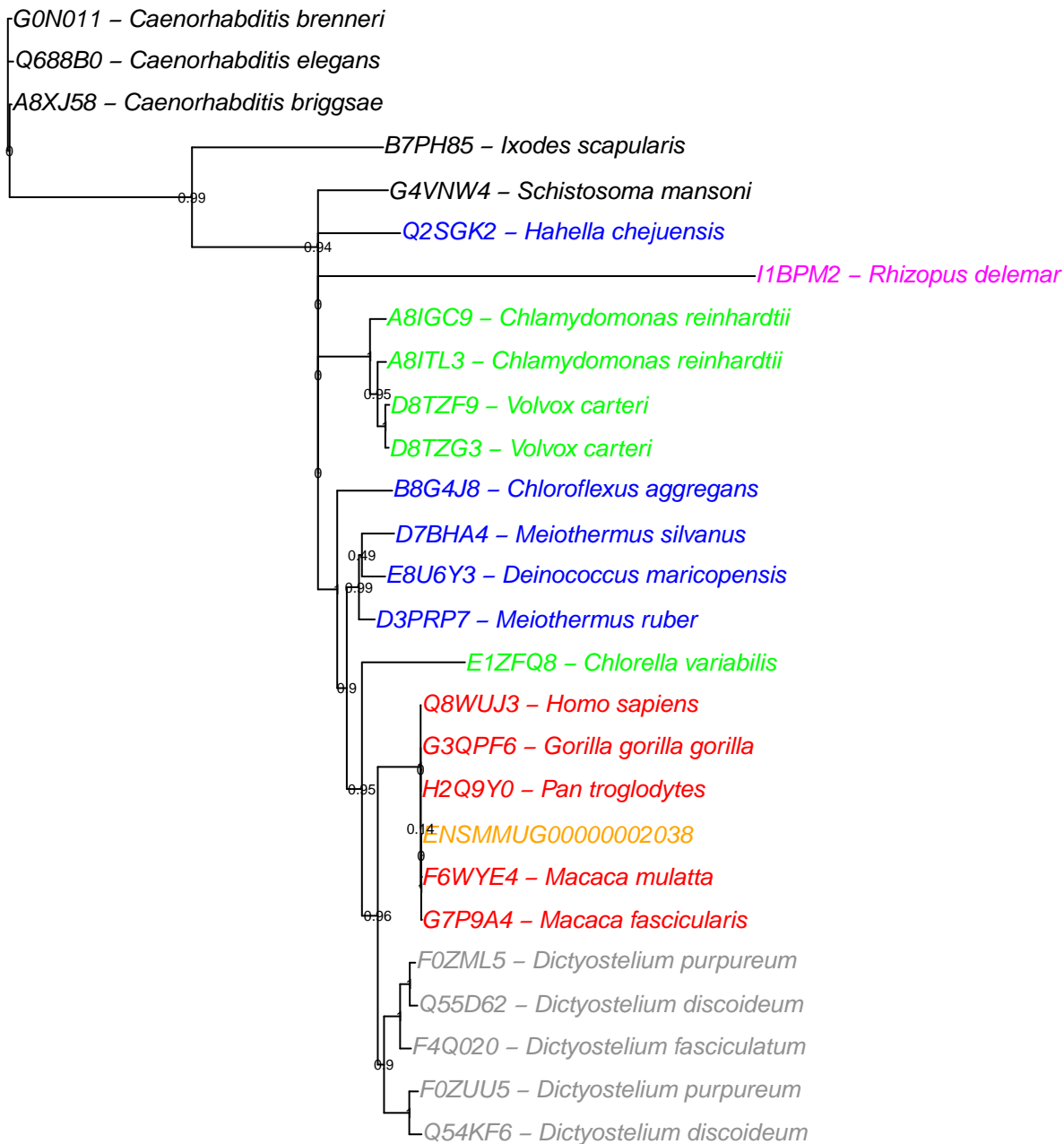




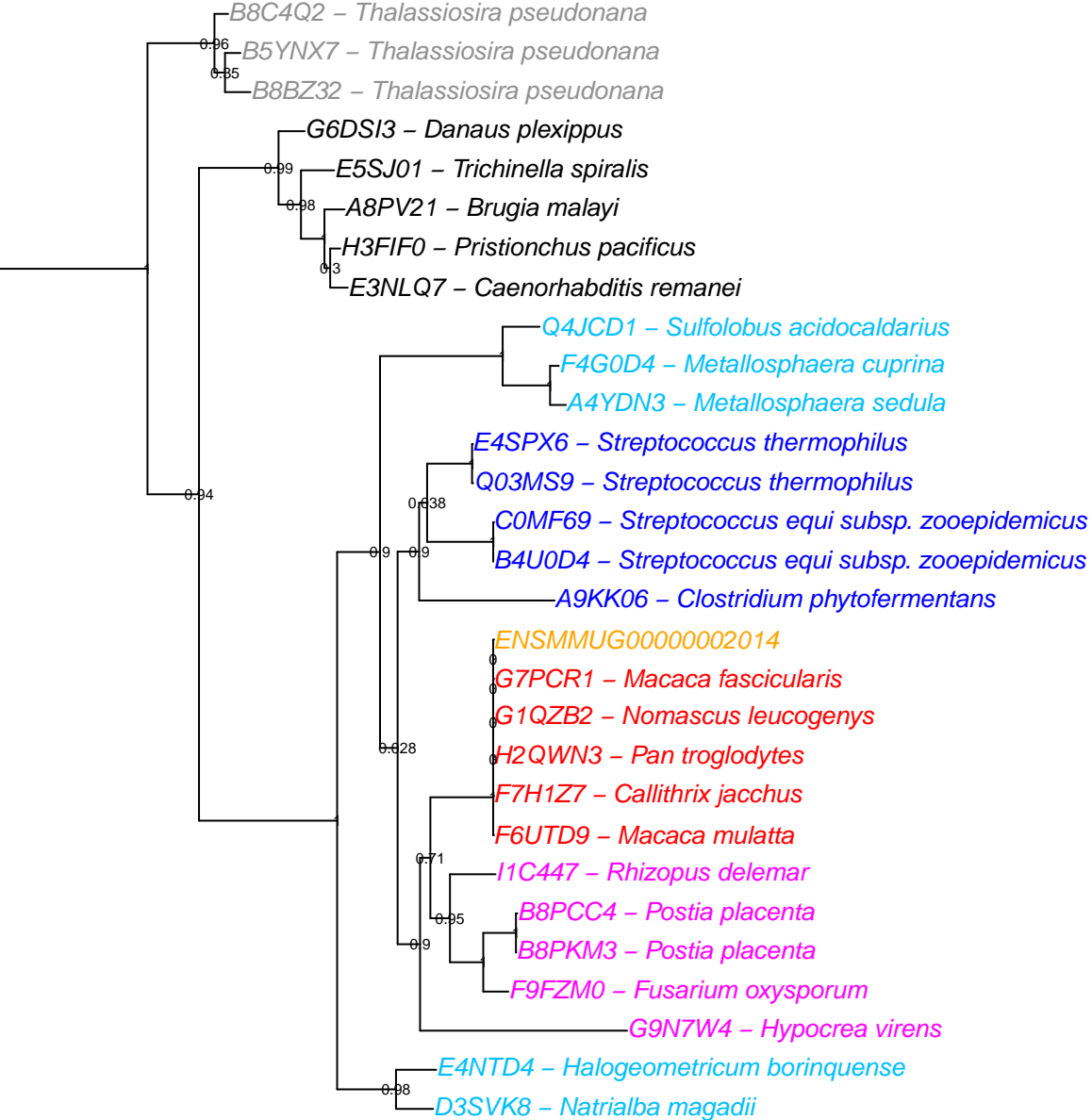


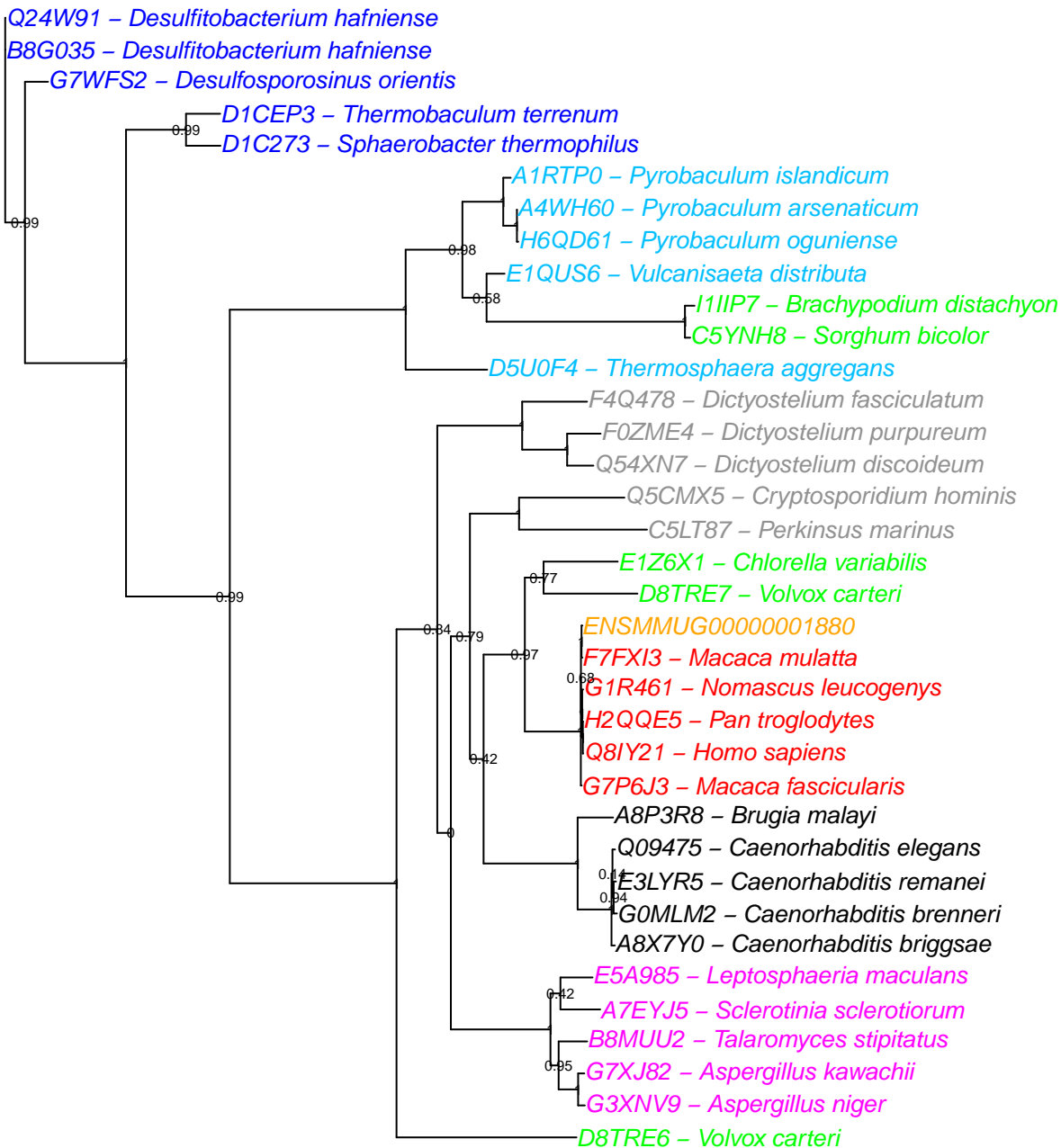


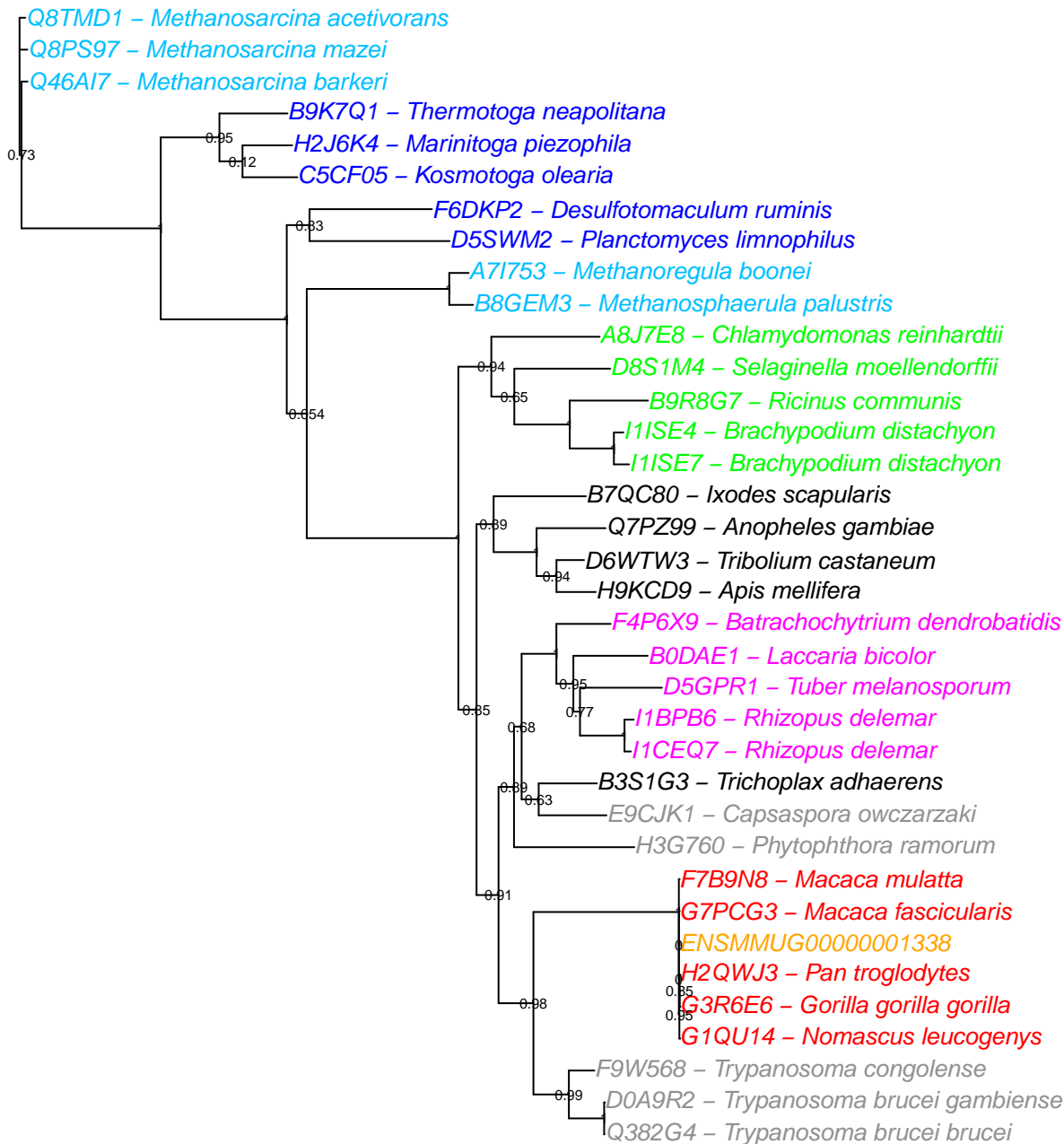


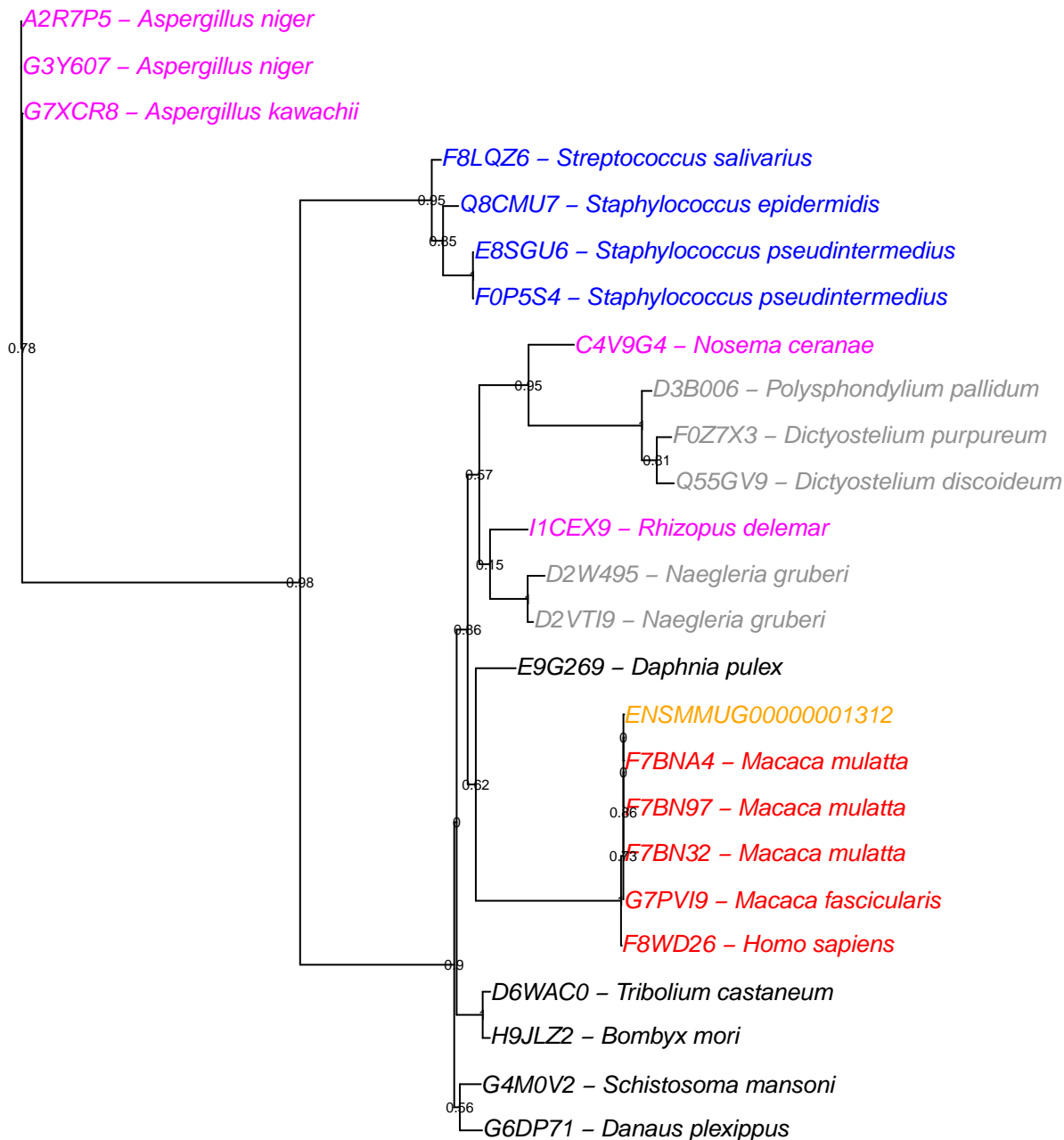


B0EFN1 – *Entamoeba dispar*
C4M7L0 – *Entamoeba histolytica*









D7LBU6 – *Arabidopsis lyrata* subsp. *lyrata*

Q8L7F7 – *Arabidopsis thaliana*

H6C503 – *Exophiala dermatitidis*

F9XMK1 – *Mycosphaerella graminicola*

G8Y488 – *Pichia sorbitophila*

A8Y4K4 – *Caenorhabditis briggsae*

E9AEM8 – *Leishmania major*

E9AEM9 – *Leishmania major*

A4HM87 – *Leishmania braziliensis*

A4HM86 – *Leishmania braziliensis*

E9AEN0 – *Leishmania major*

Q97P71 – *Streptococcus pneumoniae* serotype 4

F8LHX0 – *Streptococcus salivarius*

B1I7N4 – *Streptococcus pneumoniae*

B2ISC7 – *Streptococcus pneumoniae*

C1C910 – *Streptococcus pneumoniae*

G1RW90 – *Nomascus leucogenys*

H2PWH5 – *Pongo abelii*

H2R1D4 – *Pan troglodytes*

ENSMMUG00000001307

F7BNG2 – *Macaca mulatta*

G7Q3G9 – *Macaca fascicularis*

D8TVG4 – *Volvox carteri*

E4NVV7 – *Halogeometricum borinquense*

A8ILI9 – *Chlamydomonas reinhardtii*

A8J8R2 – *Chlamydomonas reinhardtii*

G0MVD5 – *Caenorhabditis brenneri*

Q18DY9 – *Haloquadratum walsbyi*

Q8TGE1 – *Saccharomyces cerevisiae*

C8ZAR8 – *Saccharomyces cerevisiae*

Q8IFX6 – *Caenorhabditis elegans*

G0NKG2 – *Caenorhabditis brenneri*

A8XNH3 – *Caenorhabditis briggsae*

A9A166 – *Nitrosopumilus maritimus*

D1YW33 – *Methanocella paludicola*

B4GCV2 – *Drosophila persimilis*

B5E066 – *Drosophila pseudoobscura pseudoobscura*

Q17CP8 – *Aedes aegypti*

