

FBgn0212574

B4NLY5 – *Drosophila willistoni*

B4H1Z3 – *Drosophila persimilis*

Q29EG3 – *Drosophila pseudoobscura pseudoobscura*

Q8IRB6 – *Drosophila melanogaster*

B3M910 – *Drosophila ananassae*

C5FJ51 – *Arthroderma otae*

D4D390 – *Trichophyton verrucosum*

D4AYT4 – *Arthroderma benhamiae*

F2SQB1 – *Trichophyton rubrum*

C0NSU2 – *Ajellomyces capsulatus*

D8SLN7 – *Selaginella moellendorffii*

D8RMK5 – *Selaginella moellendorffii*

D7KF61 – *Arabidopsis lyrata subsp. lyrata*

Q9SYK0 – *Arabidopsis thaliana*

I1KTU6 – *Glycine max*

C7P3E8 – *Halomicrobium mukohataei*

Q22C96 – *Tetrahymena thermophila*

F2U021 – *Salpingoeca rosetta*

F2ULL2 – *Salpingoeca rosetta*

D3B4G1 – *Polysphondylium pallidum*

Q01S79 – *Solibacter usitatus*

Q1IKV6 – *Koribacter versatilis*

G8NVI4 – *Granulicella mallensis*

G8NZA4 – *Granulicella mallensis*

B1ZXS1 – *Opatutus terrae*

H2YUV6 – *Ciona savignyi*

F6SHN0 – *Ciona intestinalis*

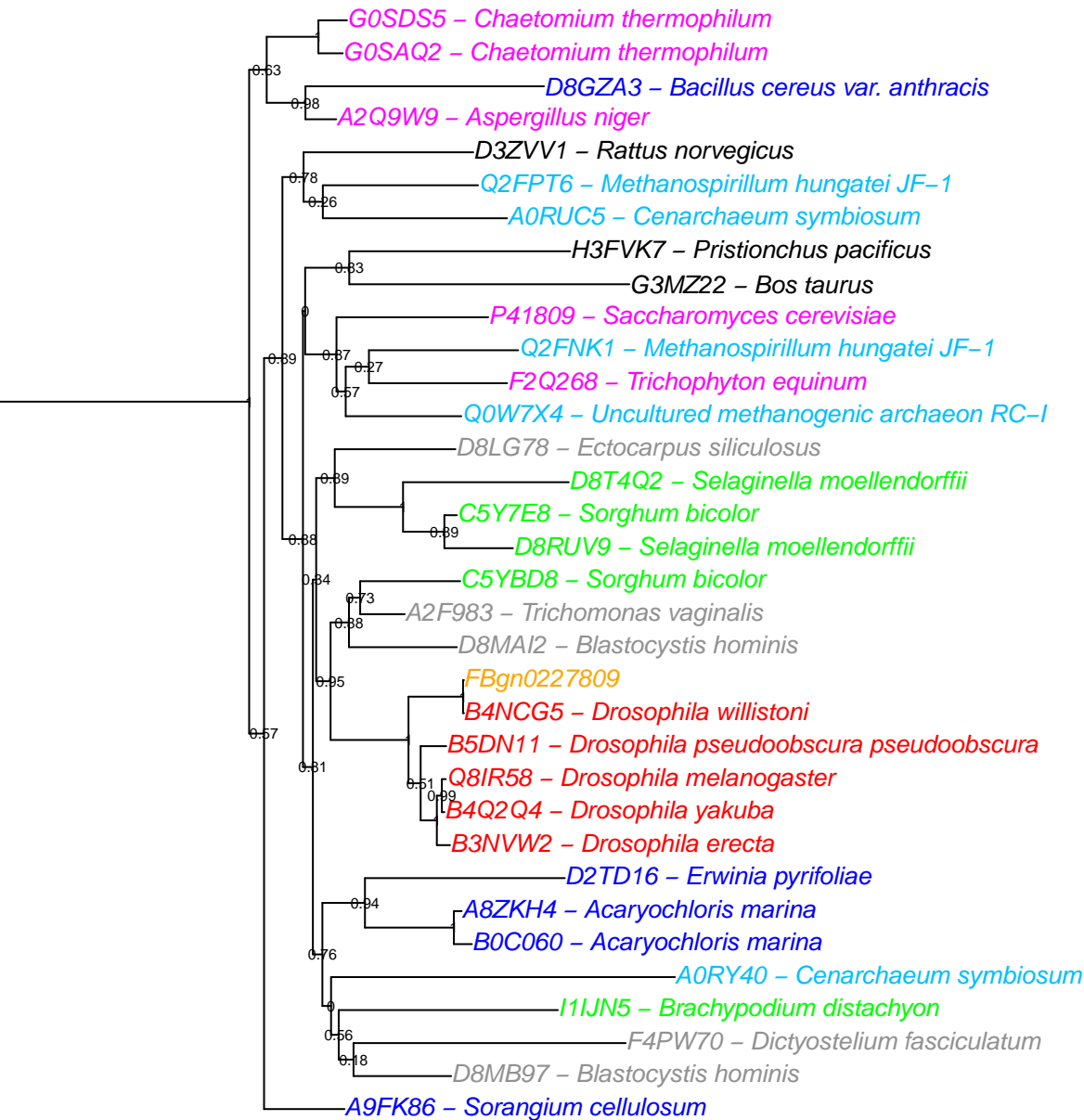
G3PTN0 – *Gasterosteus aculeatus*

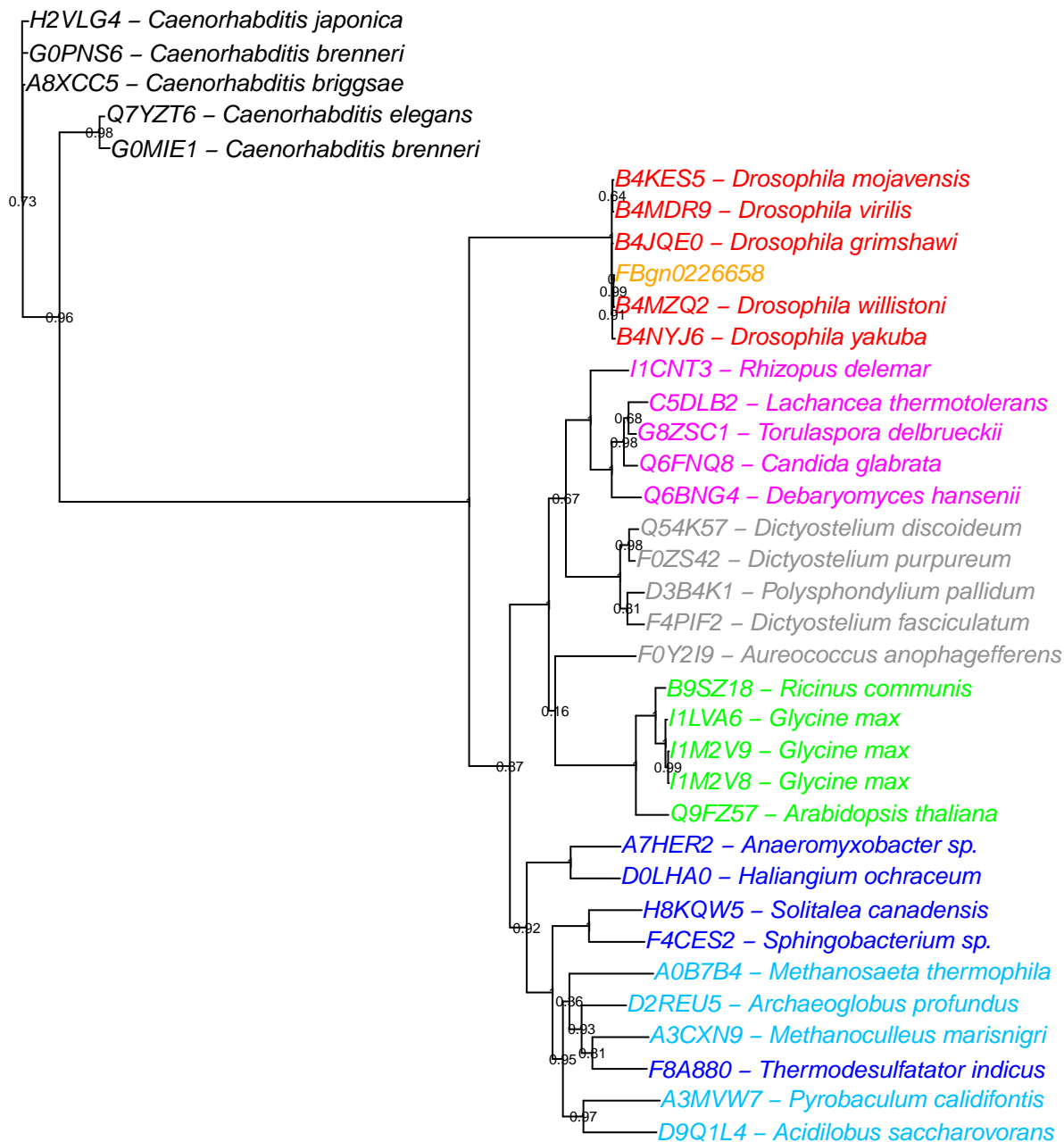
F7FXQ5 – *Ornithorhynchus anatinus*

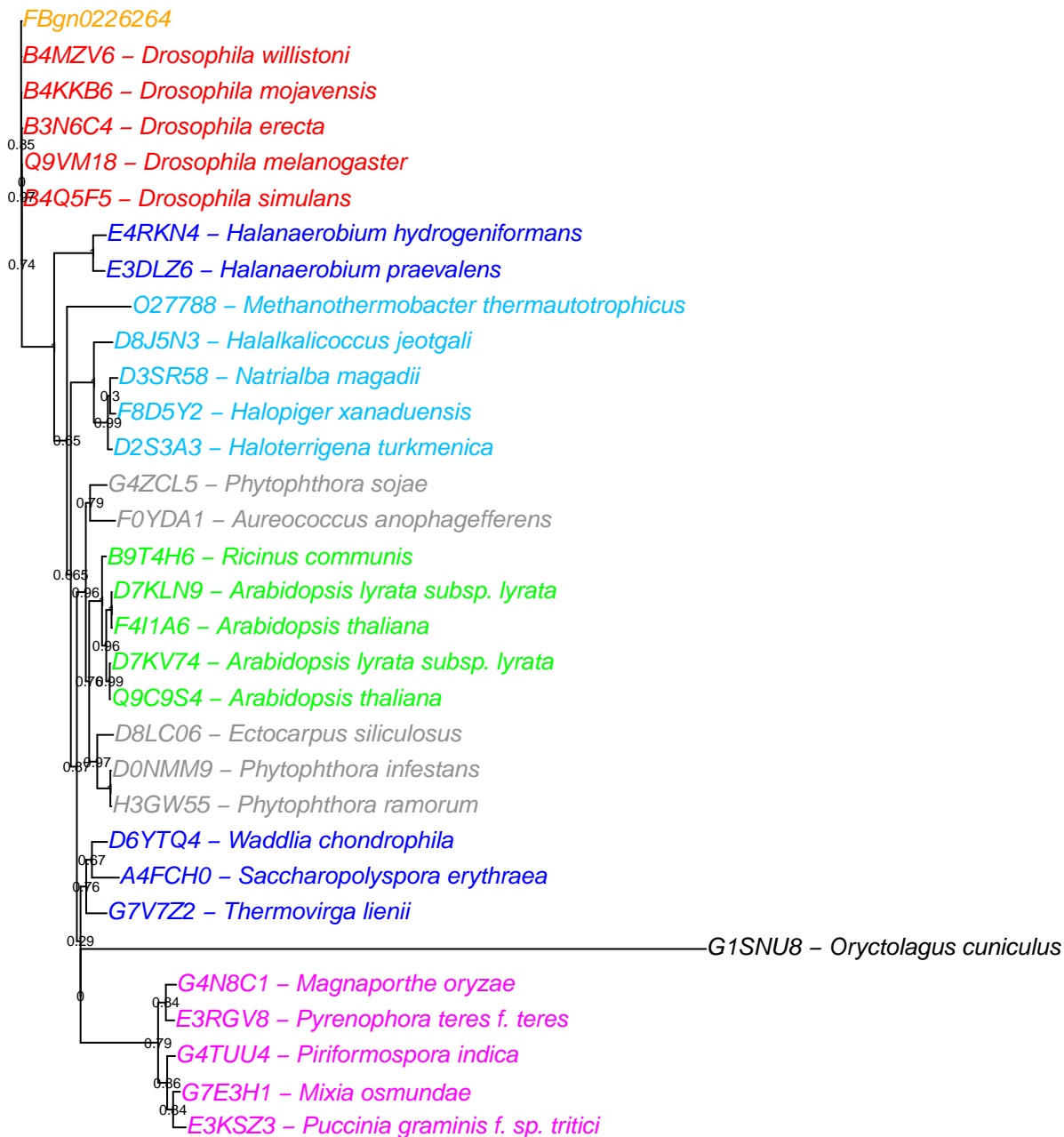
H7BWW2 – *Bos taurus*

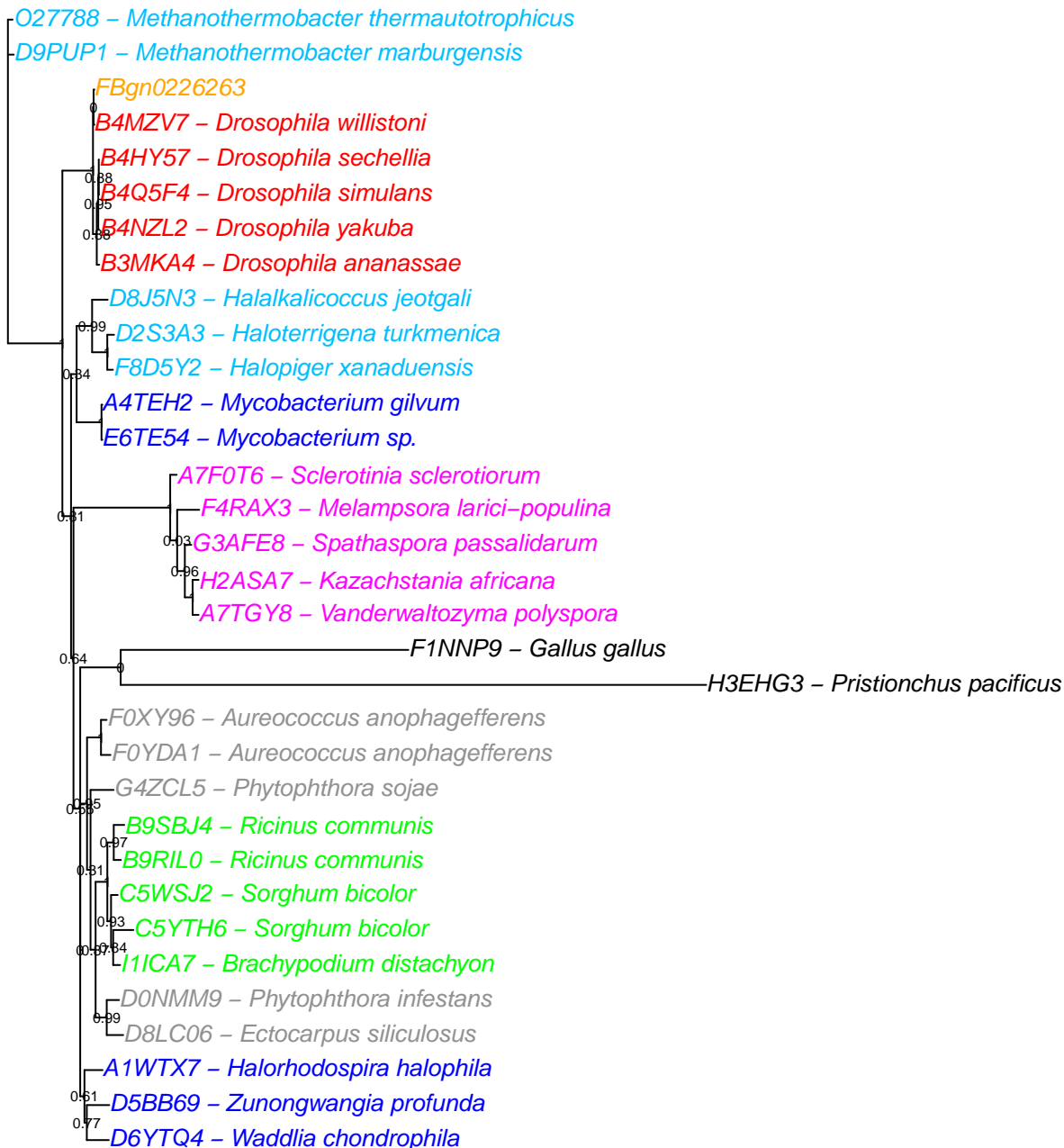
F2TZS7 – *Salpingoeca rosetta*

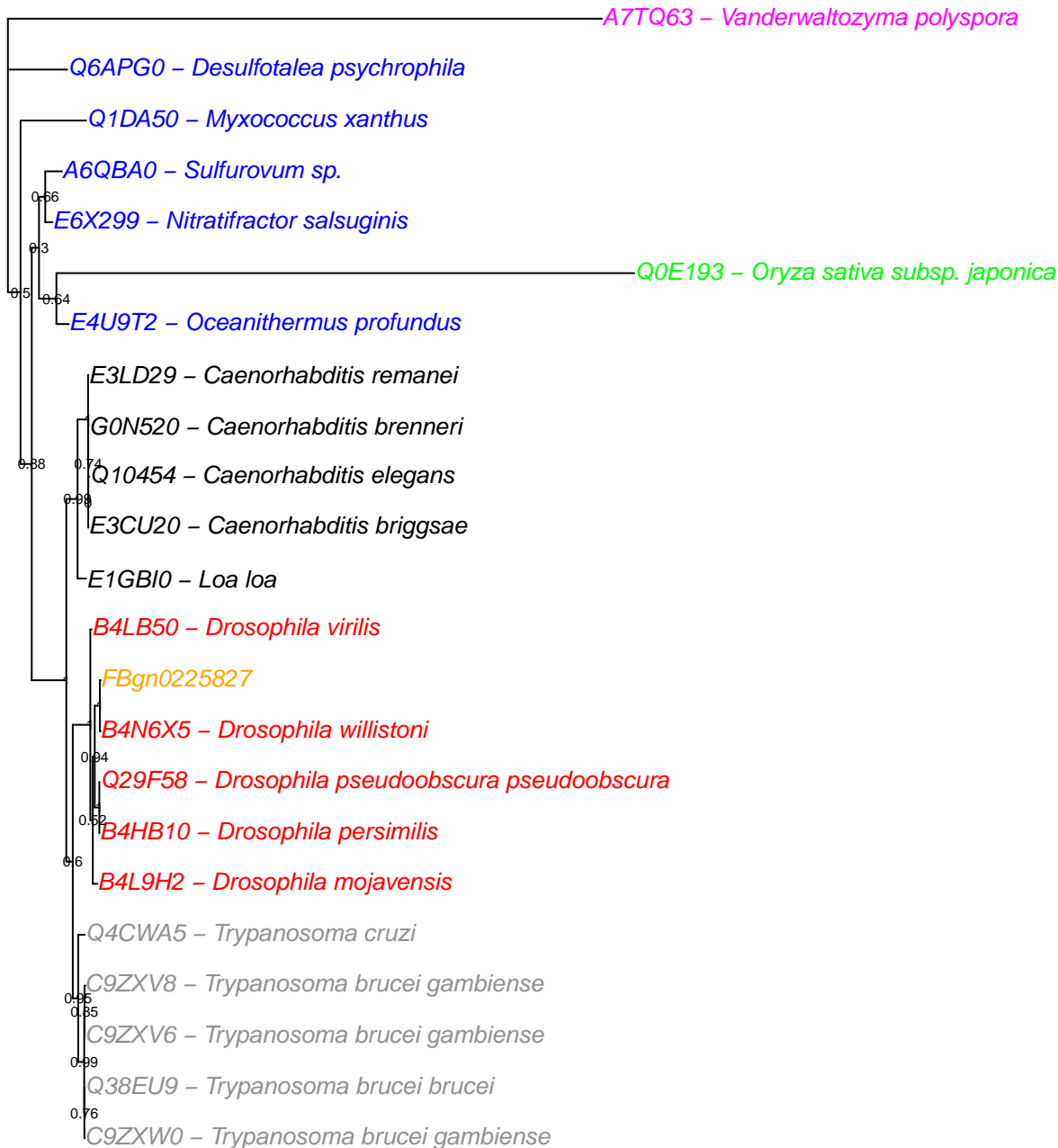
Q70KF4 – *Mus musculus*
E9QLJ0 – *Mus musculus*





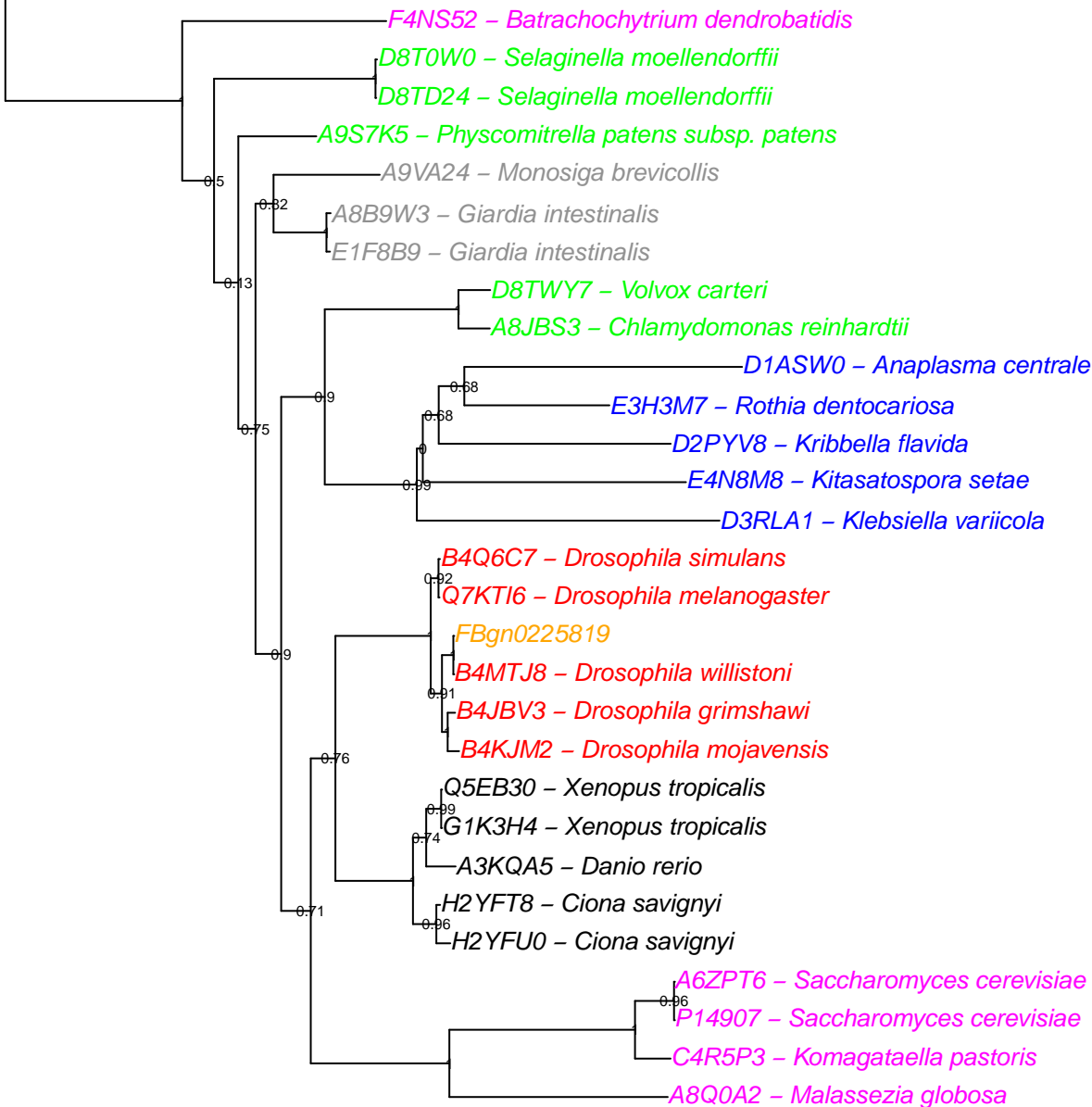






Q57XU0 – *Trypanosoma brucei brucei*

C9ZUB1 – *Trypanosoma brucei gambiense*



B4GHD0 – Drosophila persimilis

Q28XP8 – Drosophila pseudoobscura pseudoobscura

B3LYT0 – Drosophila ananassae

D6ZH26 – Mobiluncus curtisii

I1IR94 – Brachypodium distachyon

I1QQ06 – Oryza glaberrima

Q0J0P4 – Oryza sativa subsp. japonica

B9T2C4 – Ricinus communis

F6HLL2 – Vitis vinifera

FBgn0225542

B4MIJ9 – Drosophila willistoni

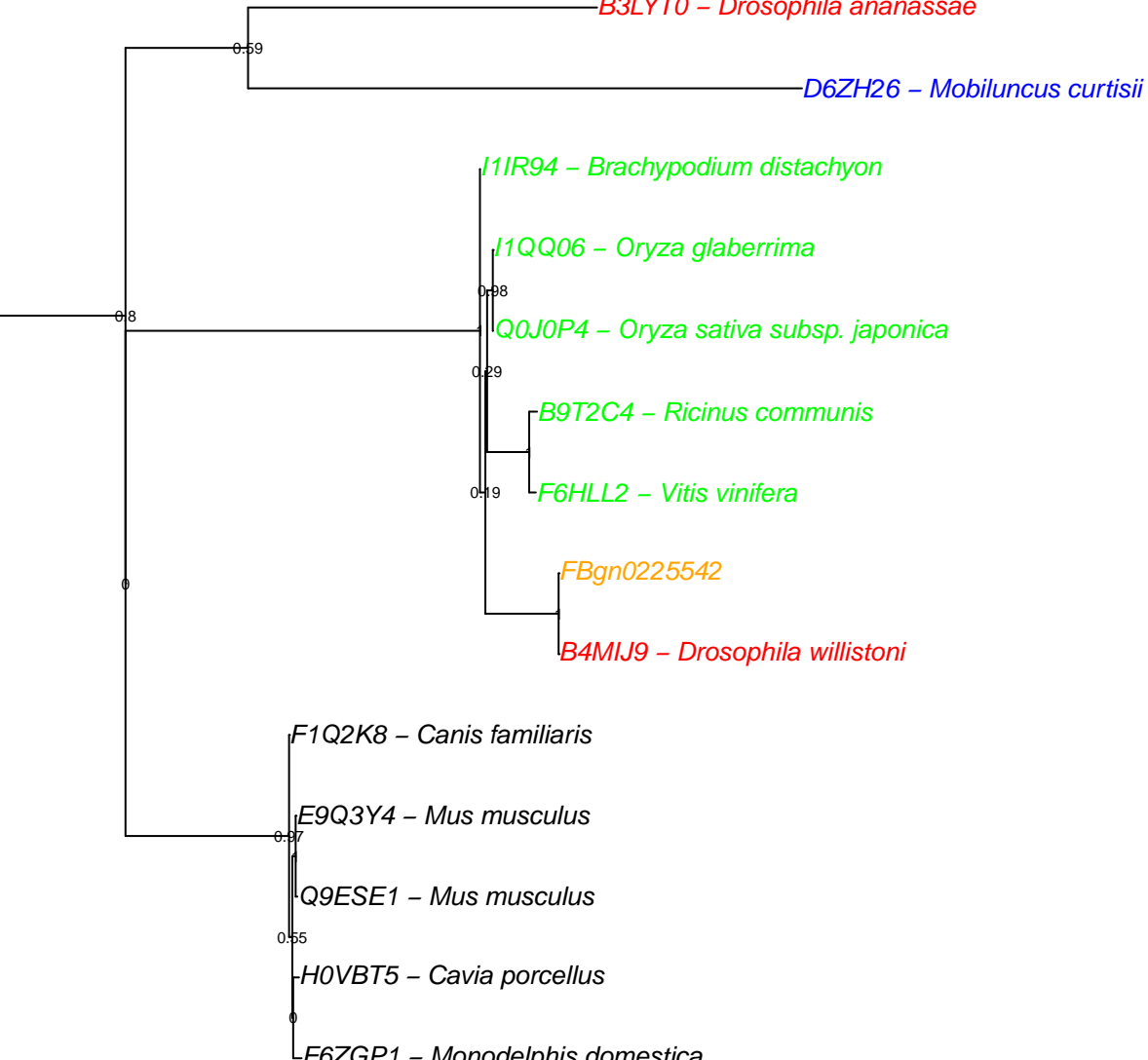
F1Q2K8 – Canis familiaris

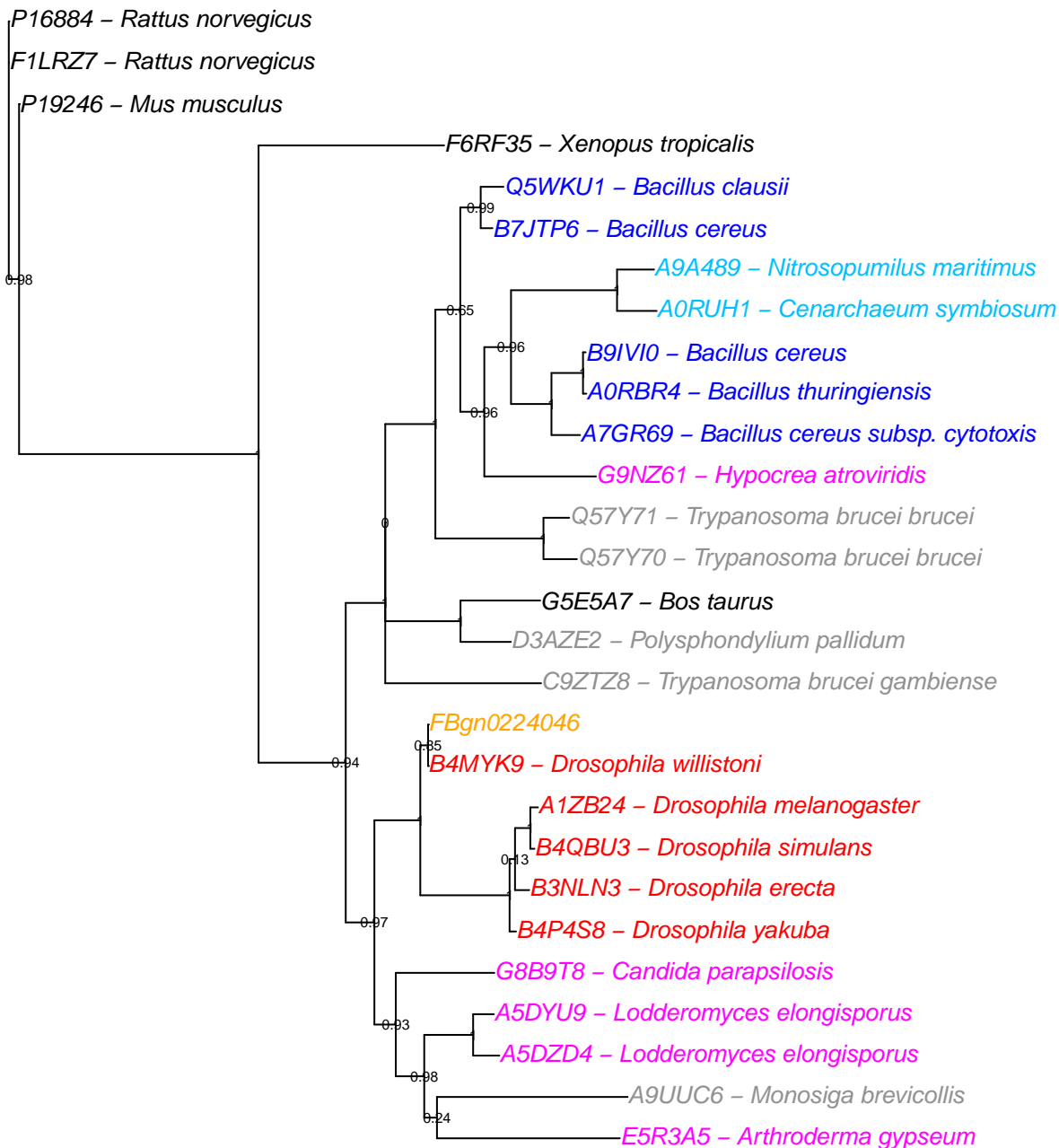
E9Q3Y4 – Mus musculus

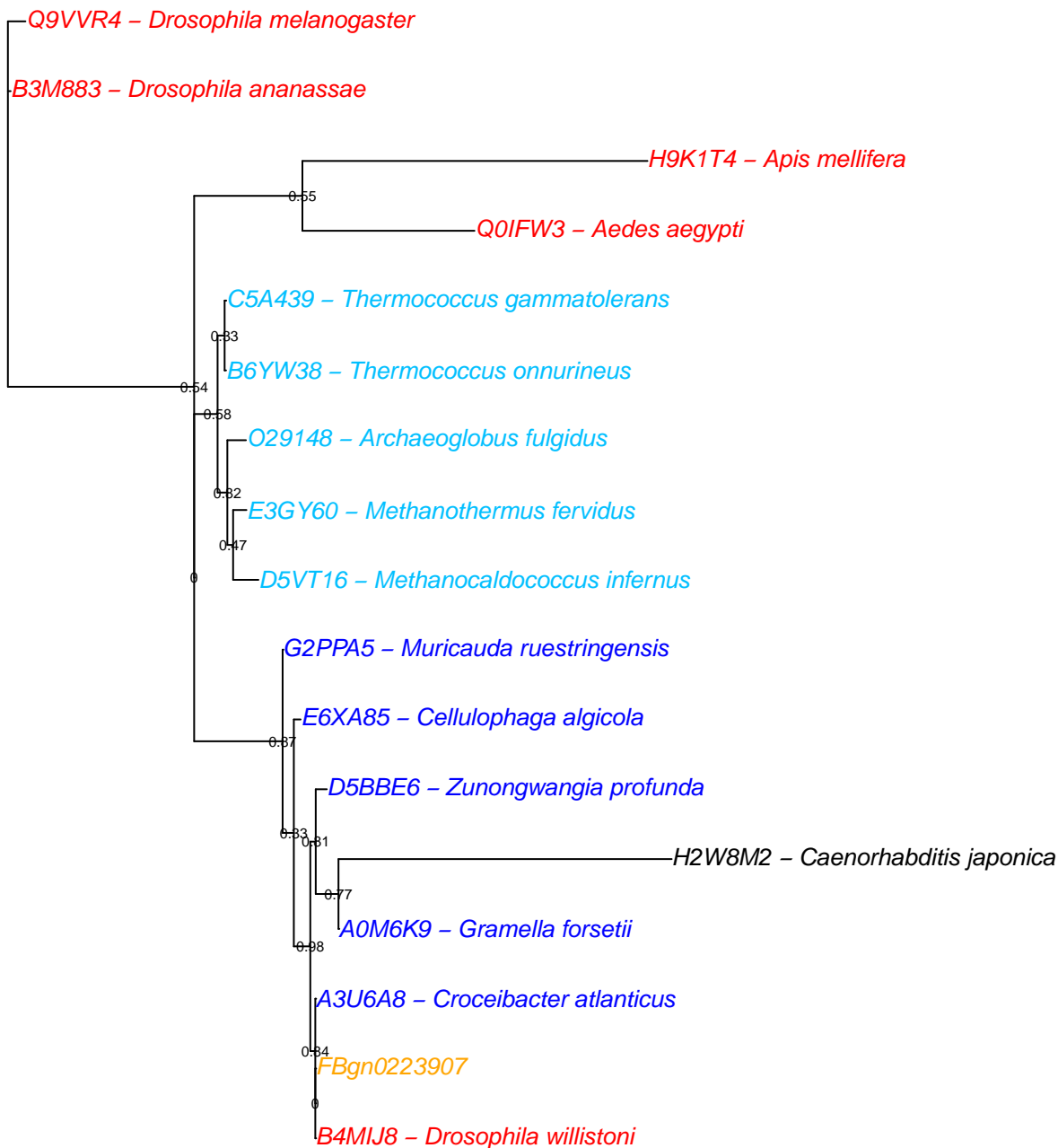
Q9ESE1 – Mus musculus

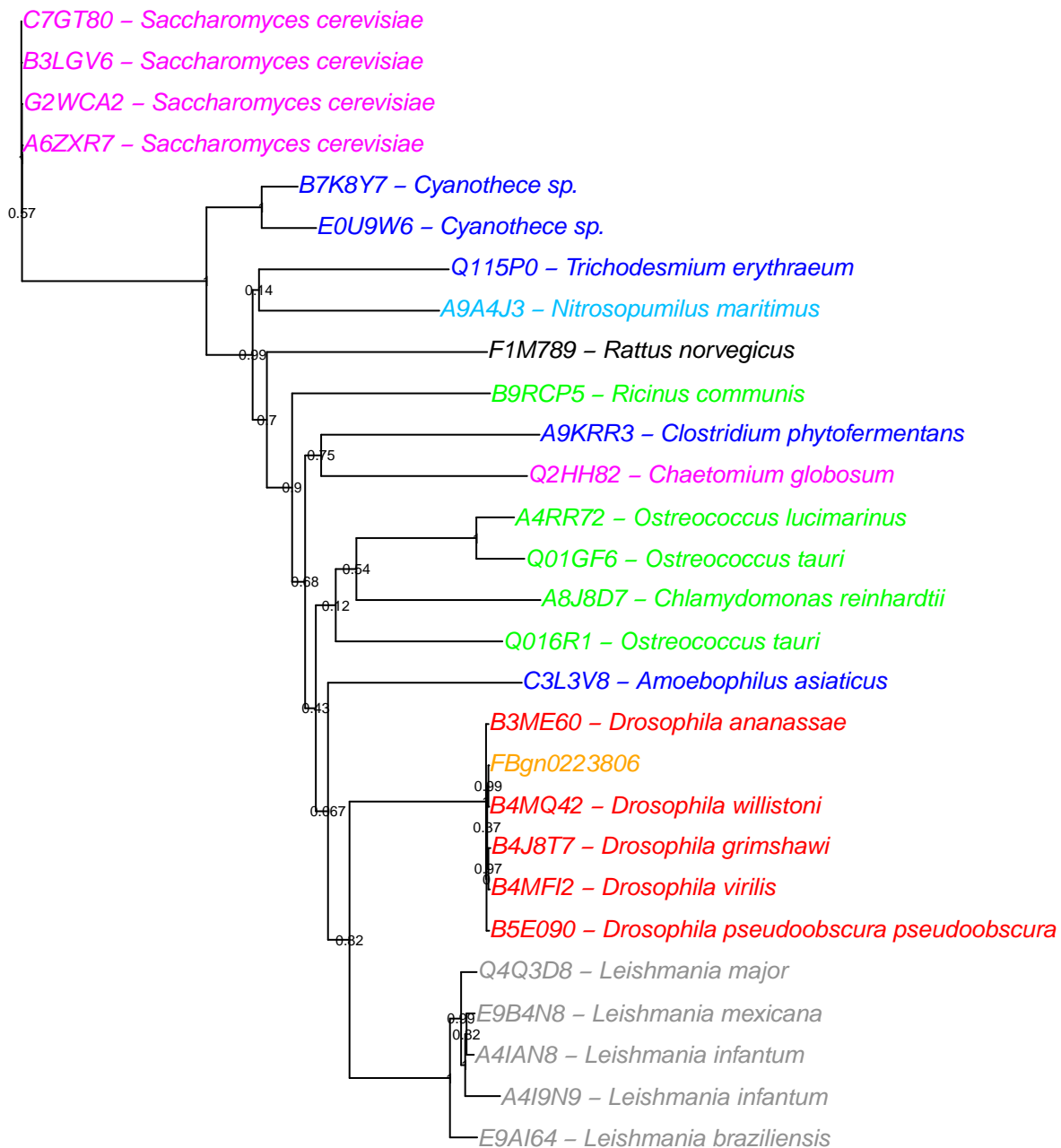
H0VBT5 – Cavia porcellus

F6ZGP1 – Monodelphis domestica









– I1Q0E1 – *Orvza glaberrima*

E7F8G7 – *Danio rerio*

A5WV02 – *Danio rerio*

B7K8Y7 – *Cyanothece* sp.

E0U9W6 – *Cyanothece* sp.

C0ZAA3 – *Brevibacillus brevis*

A4S4A9 – *Ostreococcus lucimarinus*

A9KRR3 – *Clostridium phytofermentans*

H3D3M4 – *Tetraodon nigroviridis*

G3PD28 – *Gasterosteus aculeatus*

FBgn0222152

B4MTG0 – *Drosophila willistoni*

B4L2T6 – *Drosophila mojavensis*

Q8IR55 – *Drosophila melanogaster*

B3NVU5 – *Drosophila erecta*

B3MVS5 – *Drosophila ananassae*

A9A4J3 – *Nitrosopumilus maritimus*

A2F531 – *Trichomonas vaginalis*

A2EN31 – *Trichomonas vaginalis*

G1KAF1 – *Anolis carolinensis*

F4JZY1 – *Arabidopsis thaliana*

E6ZLI9 – *Sporisorium reilianum*

B6K2V7 – *Schizosaccharomyces japonicus*

A2DLG0 – *Trichomonas vaginalis*

A2FD36 – *Trichomonas vaginalis*

C5YG07 – *Sorghum bicolor*

Q7XN10 – *Oryza sativa* subsp. *japonica*

I1PPV9 – *Oryza glaberrima*

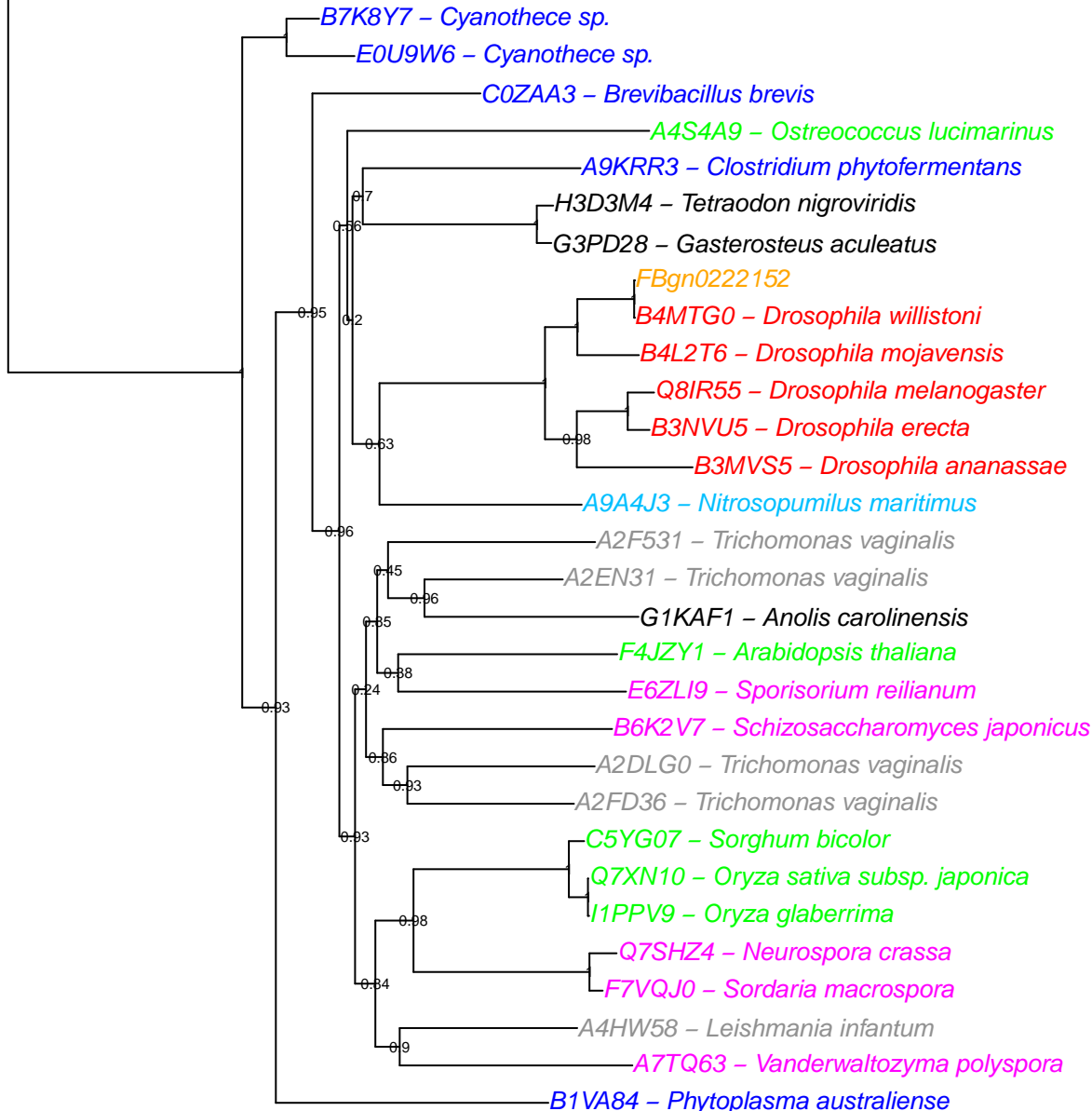
Q7SHZ4 – *Neurospora crassa*

F7VQJ0 – *Sordaria macrospora*

A4HW58 – *Leishmania infantum*

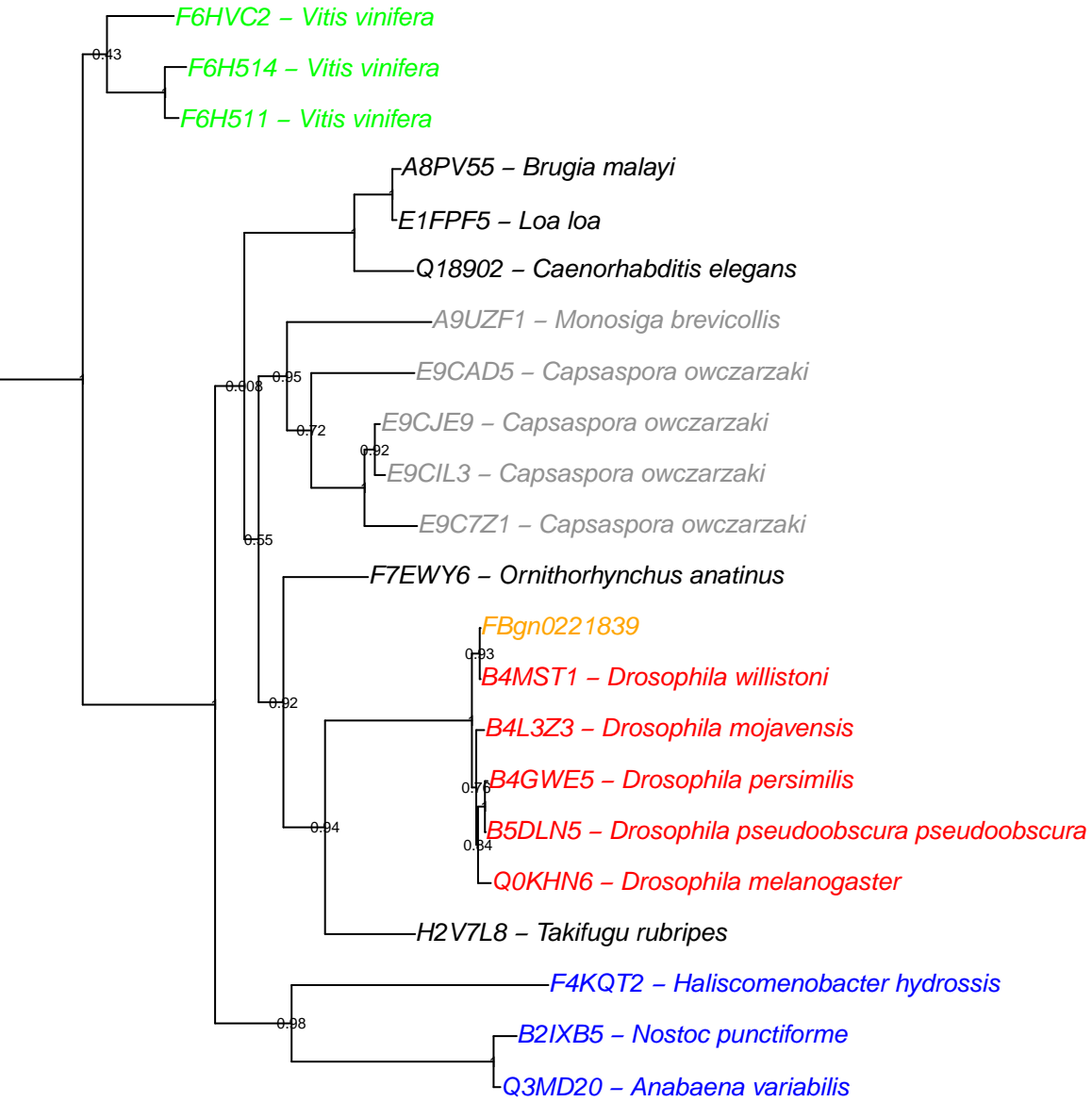
A7TQ63 – *Vanderwaltozyma polyspora*

B1VA84 – *Phytoplasma australiense*



Q8F3F6 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai

G7QMW0 – *Leptospira interrogans* serogroup Icterohaemorrhagiae serovar Lai



FBgn0221224

B4NRN6 – *Drosophila willistoni*

A3U9L1 – *Croceibacter atlanticus*

D5BLQ8 – *Zunongwangia profunda*

A0LZH1 – *Gramella forsetii*

F4AZI1 – *Krokinobacter* sp.

F6GEI5 – *Lacinutrix* sp.

B9TIB0 – *Ricinus communis*

A0B604 – *Methanosaeta thermophila*

D2RGY9 – *Archaeoglobus profundus*

O29491 – *Archaeoglobus fulgidus*

F7XN00 – *Methanosalsum zhilinae*

D3S3F6 – *Ferroglobus placidus*

D2VTC4 – *Naegleria gruberi*

D8S4V0 – *Selaginella moellendorffii*

D8RHN0 – *Selaginella moellendorffii*

I1I679 – *Brachypodium distachyon*

B3MSX7 – *Drosophila ananassae*

B5DW72 – *Drosophila pseudoobscura pseudoobscura*

B4G2Y5 – *Drosophila persimilis*

B4N8T2 – *Drosophila willistoni*

G1RBT7 – *Nomascus leucogenys*

H2NPQ5 – *Pongo abelii*

Q13232 – *Homo sapiens*

A5PK70 – *Bos taurus*

H0V5A7 – *Cavia porcellus*

A4HKT8 – *Leishmania braziliensis*

A4HKT7 – *Leishmania braziliensis*

E9BP61 – *Leishmania donovani*

Q9GP00 – *Leishmania infantum*

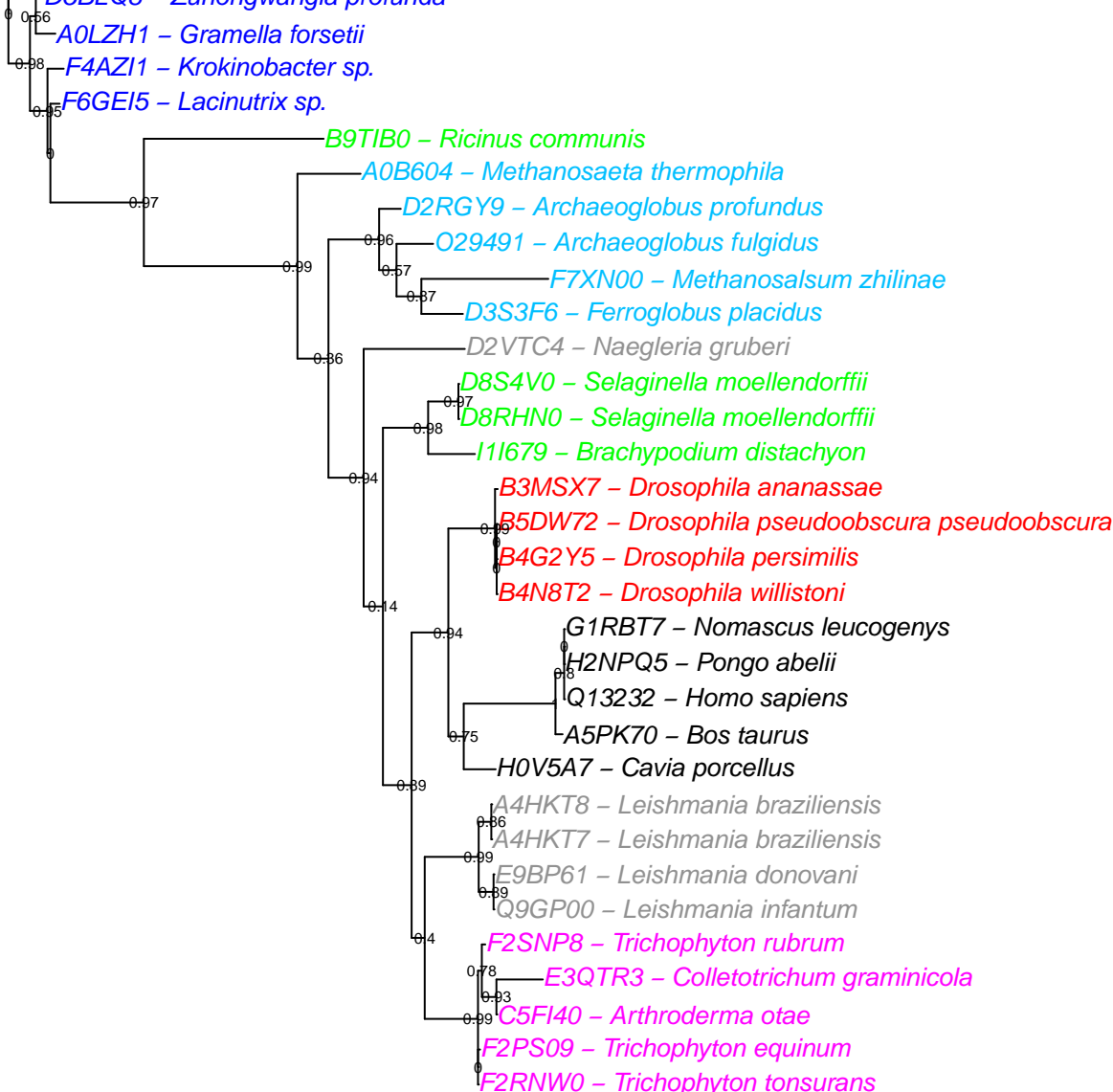
F2SNP8 – *Trichophyton rubrum*

E3QTR3 – *Colletotrichum graminicola*

C5FI40 – *Arthroderma otae*

F2PS09 – *Trichophyton equinum*

F2RNW0 – *Trichophyton tonsurans*



FBgn0221106

B4MIJ7 – *Drosophila willistoni*

A3U605 – *Croceibacter atlanticus*

G0L016 – *Zobellia galactanivorans*

E6X6E2 – *Cellulophaga algicola*

F0R9U2 – *Cellulophaga lytica*

B9L6Q9 – *Nautilia profundicola*

Q8PZ36 – *Methanosarcina mazei*

Q46GG6 – *Methanosarcina barkeri*

F7XPV7 – *Methanosalsum zhilinae*

D5E8W6 – *Methanohalophilus mahii*

A9TR20 – *Physcomitrella patens subsp. patens*

B9SCY0 – *Ricinus communis*

B9DH36 – *Arabidopsis thaliana*

Q9LMU0 – *Arabidopsis thaliana*

D7KG90 – *Arabidopsis lyrata subsp. lyrata*

E1REX4 – *Methanoplanus petrolearius*

Q4DY29 – *Trypanosoma cruzi*

D0A9U2 – *Trypanosoma brucei gambiense*

B8CFU3 – *Thalassiosira pseudonana*

B7G7K4 – *Phaeodactylum tricornutum*

F0YA35 – *Aureococcus anophagefferens*

I1C2J7 – *Rhizopus delemar*

F8NQX4 – *Serpula lacrymans* var. *lacrymans*

F8PTL7 – *Serpula lacrymans* var. *lacrymans*

D8Q871 – *Schizophyllum commune*

A8P0I0 – *Coprinopsis cinerea*

F7FCX4 – *Ornithorhynchus anatinus*

Q13630 – *Homo sapiens*

Q5RBE5 – *Pongo abelii*

G7PD36 – *Macaca fascicularis*

F7FLX2 – *Macaca mulatta*

E0W157 – *Pediculus humanus subsp. corporis*

G6CZ57 – *Danaus plexippus*

D2A3S2 – *Tribolium castaneum*

Q7Q3X9 – *Anopheles gambiae*

FBgn0221038

B4MVN6 – *Drosophila willistoni*

B4P0H4 – *Drosophila yakuba*

B3MMT0 – *Drosophila ananassae*

B4GX46 – *Drosophila persimilis*

Q29K96 – *Drosophila pseudoobscura pseudoobscura*

C9SXZ4 – *Verticillium alfalfae*

F9G6L4 – *Fusarium oxysporum*

D2W009 – *Naegleria gruberi*

D2VUI9 – *Naegleria gruberi*

F1Q5X7 – *Danio rerio*

F7GZA7 – *Callithrix jacchus*

H2PMT3 – *Pongo abelii*

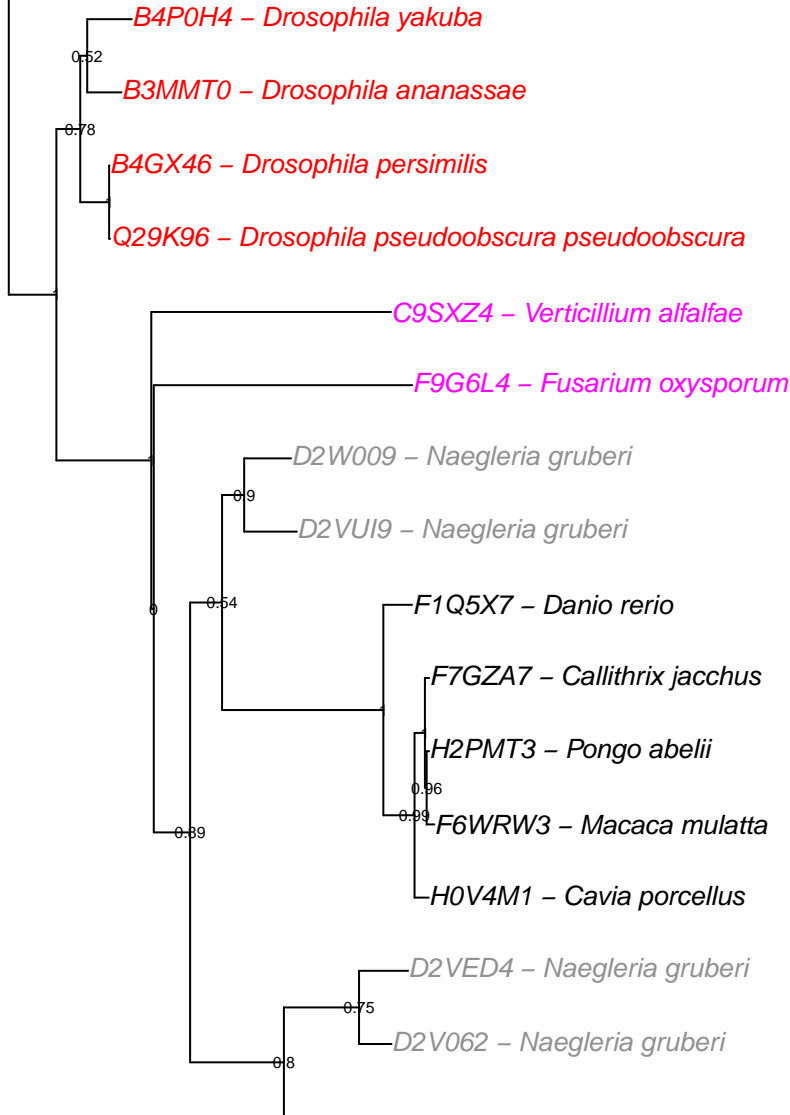
F6WRW3 – *Macaca mulatta*

H0V4M1 – *Cavia porcellus*

D2VED4 – *Naegleria gruberi*

D2V062 – *Naegleria gruberi*

D2W4B5 – *Naegleria gruberi*



E3RTT3 – *Pyrenophora teres* f. *teres*

B2VRR2 – *Pyrenophora tritici-repentis*

B8PJL5 – *Postia placenta*

B8PEA0 – *Postia placenta*

E9ADL3 – *Leishmania major*

A4I448 – *Leishmania infantum*

A8X7L4 – *Caenorhabditis briggsae*

0.72
D4GUK1 – *Haloferrax volcanii*

0.49
G3IAB3 – *Cricetulus griseus*

0.79
H2YKU6 – *Ciona savignyi*

D3SYC2 – *Natrialba magadii*

0.23
E3NSX2 – *Caenorhabditis remanei*

0.17
B3MX10 – *Drosophila ananassae*

Q8PW10 – *Methanosarcina mazei*

F1R3P8 – *Danio rerio*

B3RBS2 – *Cupriavidus taiwanensis*

F8GS07 – *Cupriavidus necator*

Q46V21 – *Cupriavidus pinatubonensis*

B7KGM8 – *Cyanothece* sp.

F8CDM2 – *Myxococcus fulvus*

B8LX77 – *Talaromyces stipitatus*

0.66
B4NM64 – *Drosophila willistoni*

0.85
B4NR53 – *Drosophila willistoni*

0.99
FBgn0220799

0.99
B4MIE1 – *Drosophila willistoni*

B3N2P8 – *Drosophila ananassae*

0.99
D8TQH2 – *Volvox carteri*

0.99
D8TVX1 – *Volvox carteri*

0.99
D8UJG5 – *Volvox carteri*

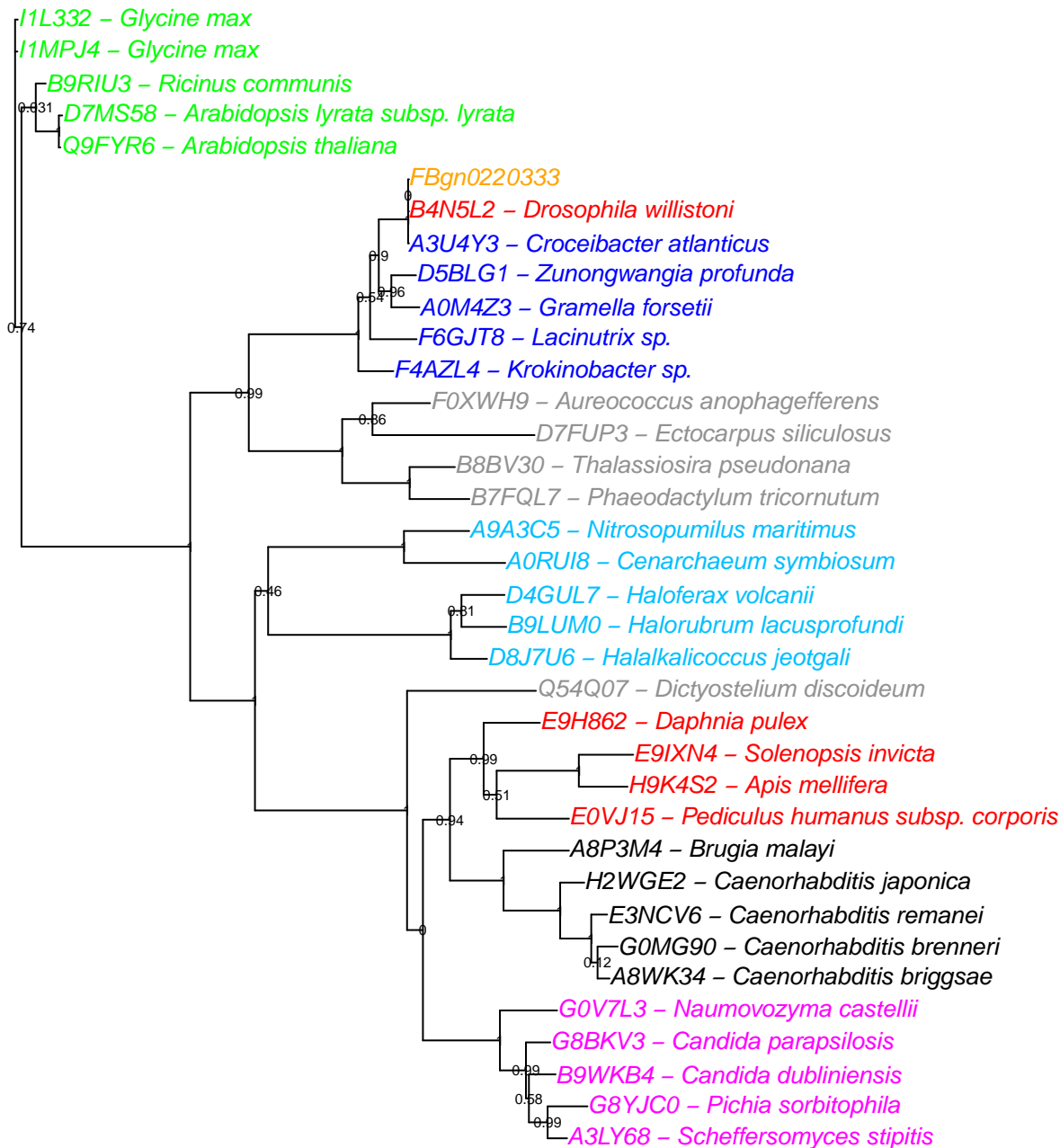
0.99
D8TPY3 – *Volvox carteri*

0.85
D8ULE8 – *Volvox carteri*

0.98
Q4Q3D8 – *Leishmania major*

0.86
Q4GZ45 – *Trypanosoma brucei brucei*

F9WGA9 – *Trypanosoma congolense*



I1J1T4 – *Brachypodium distachyon*

I1J1T5 – *Brachypodium distachyon*

I1PPV9 – *Oryza glaberrima*

C5MCD9 – *Candida tropicalis*

C4YGV2 – *Candida albicans*

B9WGI7 – *Candida dubliniensis*

A4S4A9 – *Ostreococcus lucimarinus*

F4JZY1 – *Arabidopsis thaliana*

H0WJC9 – *Otolemur garnettii*

G3H8X7 – *Cricetulus griseus*

F1NGJ4 – *Gallus gallus*

H2UP02 – *Takifugu rubripes*

E7FDY5 – *Danio rerio*

FBgn0220027

B4N6B4 – *Drosophila willistoni*

Q2M194 – *Drosophila pseudoobscura pseudoobscura*

B4QKJ5 – *Drosophila simulans*

B4PIK6 – *Drosophila yakuba*

B3NHM3 – *Drosophila erecta*

D7BQ22 – *Streptomyces bingchenggensis*

G4QFS5 – *Glaciecola nitratreducens*

A9A4J3 – *Nitrosopumilus maritimus*

A4HW58 – *Leishmania infantum*

B7K8Y7 – *Cyanothece* sp.

C0ZAA3 – *Brevibacillus brevis*

Q2SR11 – *Mycoplasma capricolum* subsp. *capricolum*

A2FD36 – *Trichomonas vaginalis*

A2DLG0 – *Trichomonas vaginalis*

Q23DH8 – *Tetrahymena thermophila*

B6K2V7 – *Schizosaccharomyces japonicus*

I1CL42 – *Rhizopus delemar*

A2F531 – *Trichomonas vaginalis*

FBgn0219831

B4N602 – *Drosophila willistoni*

B4P590 – *Drosophila yakuba*

B3NRZ7 – *Drosophila erecta*

B4HPK0 – *Drosophila sechellia*

B4QCX6 – *Drosophila simulans*

G8B9Z2 – *Candida parapsilosis*

D4D390 – *Trichophyton verrucosum*

B6QUM0 – *Penicillium marneffeii*

B5RUJ1 – *Debaryomyces hansenii*

C7P3E8 – *Halomicrobium mukohataei*

Q22C96 – *Tetrahymena thermophila*

E3L3Z1 – *Puccinia graminis f. sp. tritici*

D7KF61 – *Arabidopsis lyrata subsp. lyrata*

Q9SYK0 – *Arabidopsis thaliana*

I1KTU6 – *Glycine max*

B9T0D8 – *Ricinus communis*

F6GZ26 – *Vitis vinifera*

E9C991 – *Capsaspora owczarzaki*

F2U791 – *Salpingoeca rosetta*

D2VNG5 – *Naegleria gruberi*

P13723 – *Dictyostelium discoideum*

H3D7E1 – *Tetraodon nigroviridis*

H7BWW2 – *Bos taurus*

Q29548 – *Sus scrofa*

F1Q1M8 – *Canis familiaris*

G1P346 – *Myotis lucifugus*

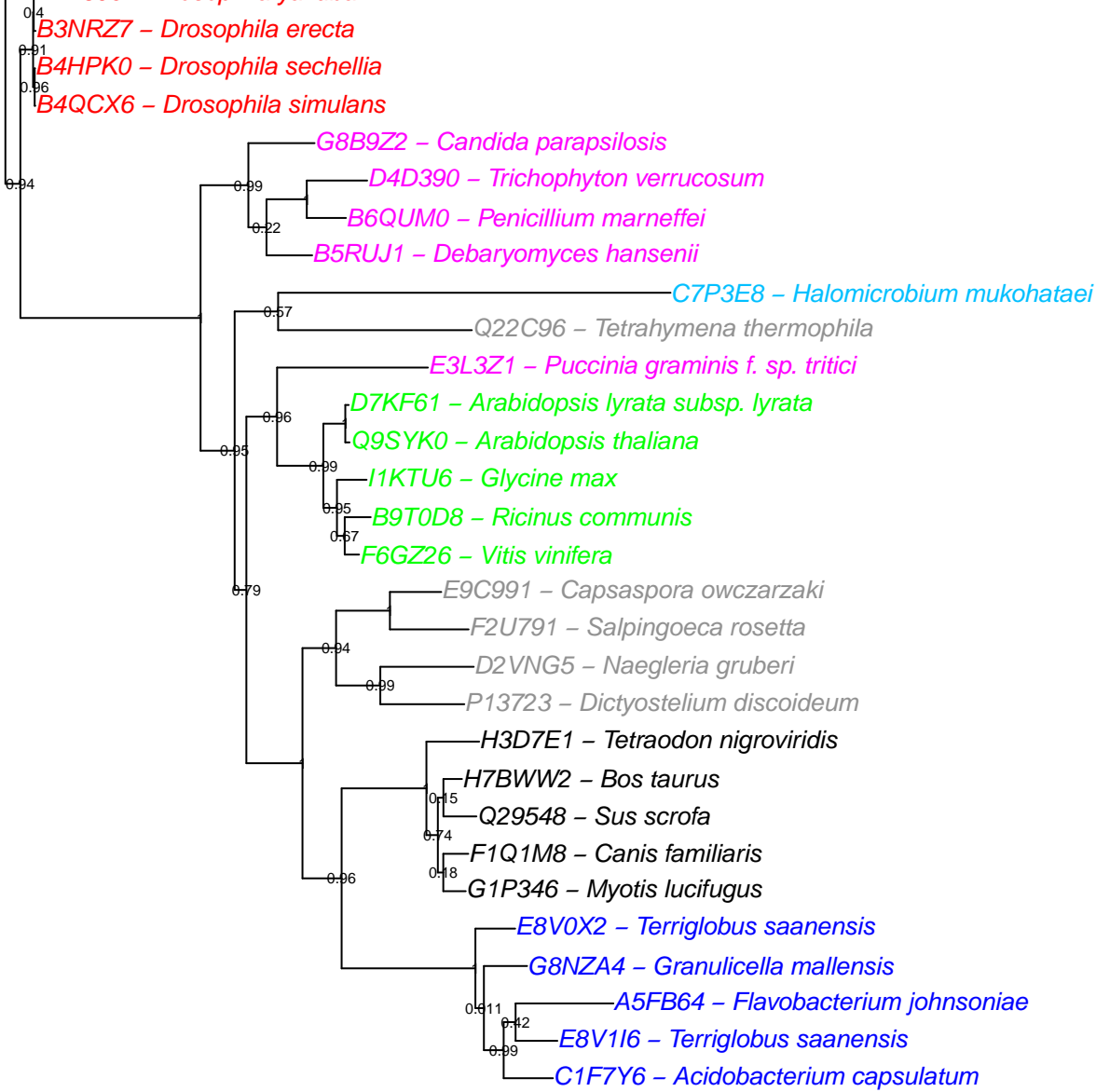
E8V0X2 – *Terriglobus saanensis*

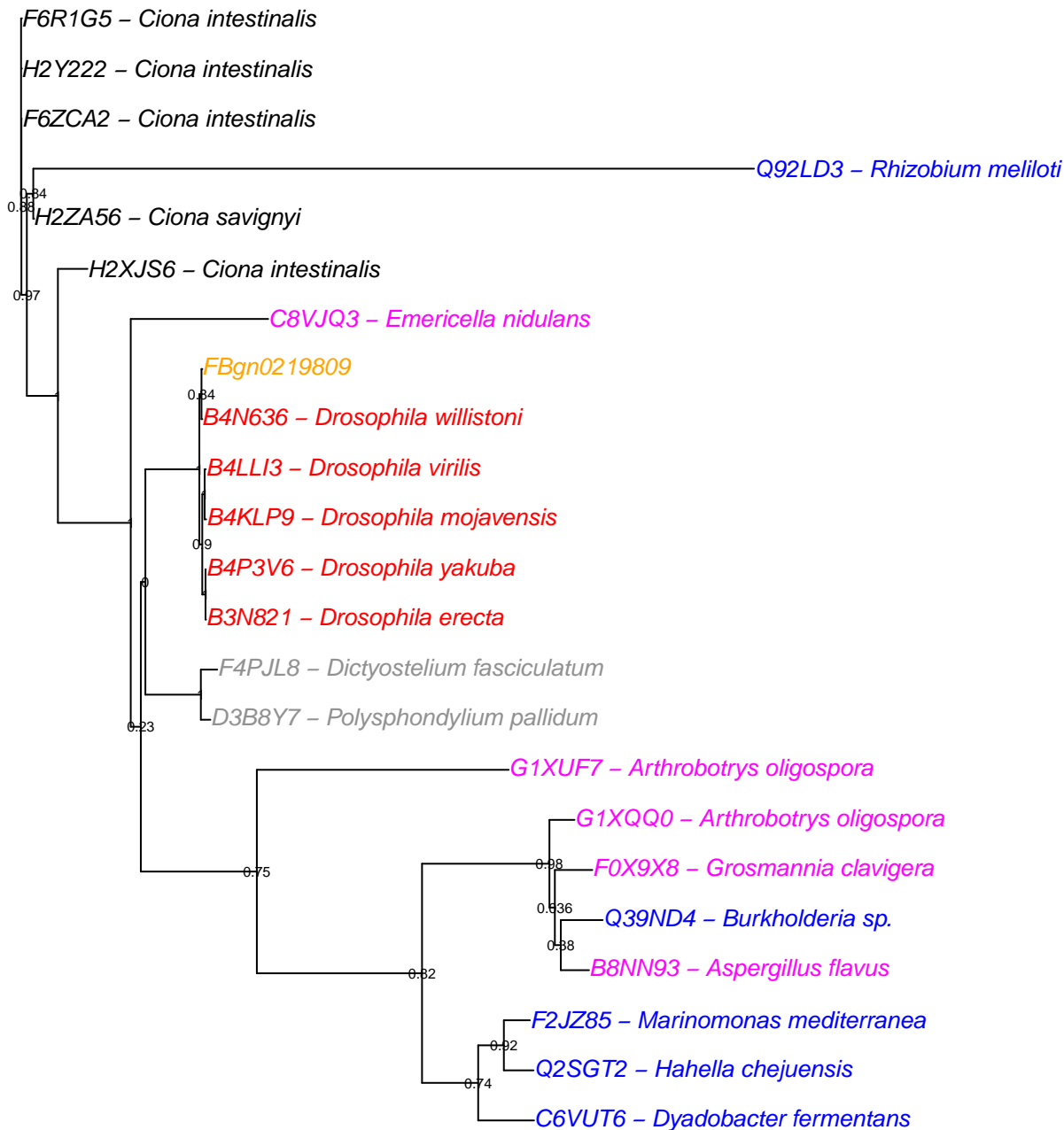
G8NZA4 – *Granulicella mallensis*

A5FB64 – *Flavobacterium johnsoniae*

E8V1I6 – *Terriglobus saanensis*

C1F7Y6 – *Acidobacterium capsulatum*





FBgn0219376

B4ML72 – *Drosophila willistoni*

B4PK70 – *Drosophila yakuba*

0.9
B3NFE0 – *Drosophila erecta*

0.97
Q9VS62 – *Drosophila melanogaster*

P91638 – *Drosophila melanogaster*

H0Z0S7 – *Taeniopygia guttata*

0.92
G1N877 – *Meleagris gallopavo*

0.83
E1BT72 – *Gallus gallus*

0.99
G3I0X8 – *Cricetulus griseus*

E7ERY0 – *Homo sapiens*

Q6C0V8 – *Yarrowia lipolytica*

G3APG1 – *Spathaspora passalidarum*

0.11
Q4PF17 – *Ustilago maydis*

0.98
E6QYH3 – *Cryptococcus gattii* serotype B

0.98
I1BS28 – *Rhizopus delemar*

D2VY65 – *Naegleria gruberi*

C6B7L0 – *Rhizobium leguminosarum* bv. *trifolii*

0.025
A1RY01 – *Thermofilum pendens*

0.53
F6BB37 – *Methanotorris igneus*

0.98
F8ALB6 – *Methanothermococcus okinawensis*

A6VIG6 – *Methanococcus maripaludis*

D3S1U4 – *Ferroglobus placidus*

0.35
B1I4U3 – *Desulforudis audaxviator*

0.11
A1SUB2 – *Psychromonas ingrahamii*

0.13
Q3B506 – *Pelodictyon luteolum*

A5G5E7 – *Geobacter uraniireducens*

B8CDA1 – *Thalassiosira pseudonana*

0.94
G4YTS9 – *Phytophthora sojae*

0.92
D0NI78 – *Phytophthora infestans*

0.95
D0MTY0 – *Phytophthora infestans*

0.79
A9RNZ5 – *Physcomitrella patens* subsp. *patens*

A4S9B4 – *Ostreococcus lucimarinus*

Q00T93 – *Ostreococcus tauri*

A8J040 – *Chlamydomonas reinhardtii*

D8U1K6 – *Volvox carteri*

C5KP19 – *Perkinsus marinus*

C5LIN8 – *Perkinsus marinus*

A4S2P7 – *Ostreococcus lucimarinus*

A9TK52 – *Physcomitrella patens* subsp. *patens*

D7LNI5 – *Arabidopsis lyrata* subsp. *lyrata*

Q9FYC5 – *Arabidopsis thaliana*

B9SN58 – *Ricinus communis*

G8YDW3 – *Pichia sorbitophila*

Q2H5E5 – *Chaetomium globosum*

A2R2W9 – *Aspergillus niger*

F2PT47 – *Trichophyton equinum*

D4AP03 – *Arthroderma benhamiae*

FBgn0219108

B4MNC9 – *Drosophila willistoni*

B3MB42 – *Drosophila ananassae*

Q8T3S1 – *Drosophila melanogaster*

B3NJ36 – *Drosophila erecta*

B4IAZ7 – *Drosophila sechellia*

F1QQ80 – *Danio rerio*

F6XBC5 – *Ciona intestinalis*

H2N0L2 – *Oryzias latipes*

A8MPP7 – *Homo sapiens*

G3NI69 – *Gasterosteus aculeatus*

A9UY24 – *Monosiga brevicollis*

F2TVY3 – *Salpingoeca rosetta*

E9C6Q7 – *Capsaspora owczarzaki*

0.97

0.98

0.16

0.84

0.99

0.9

0.45

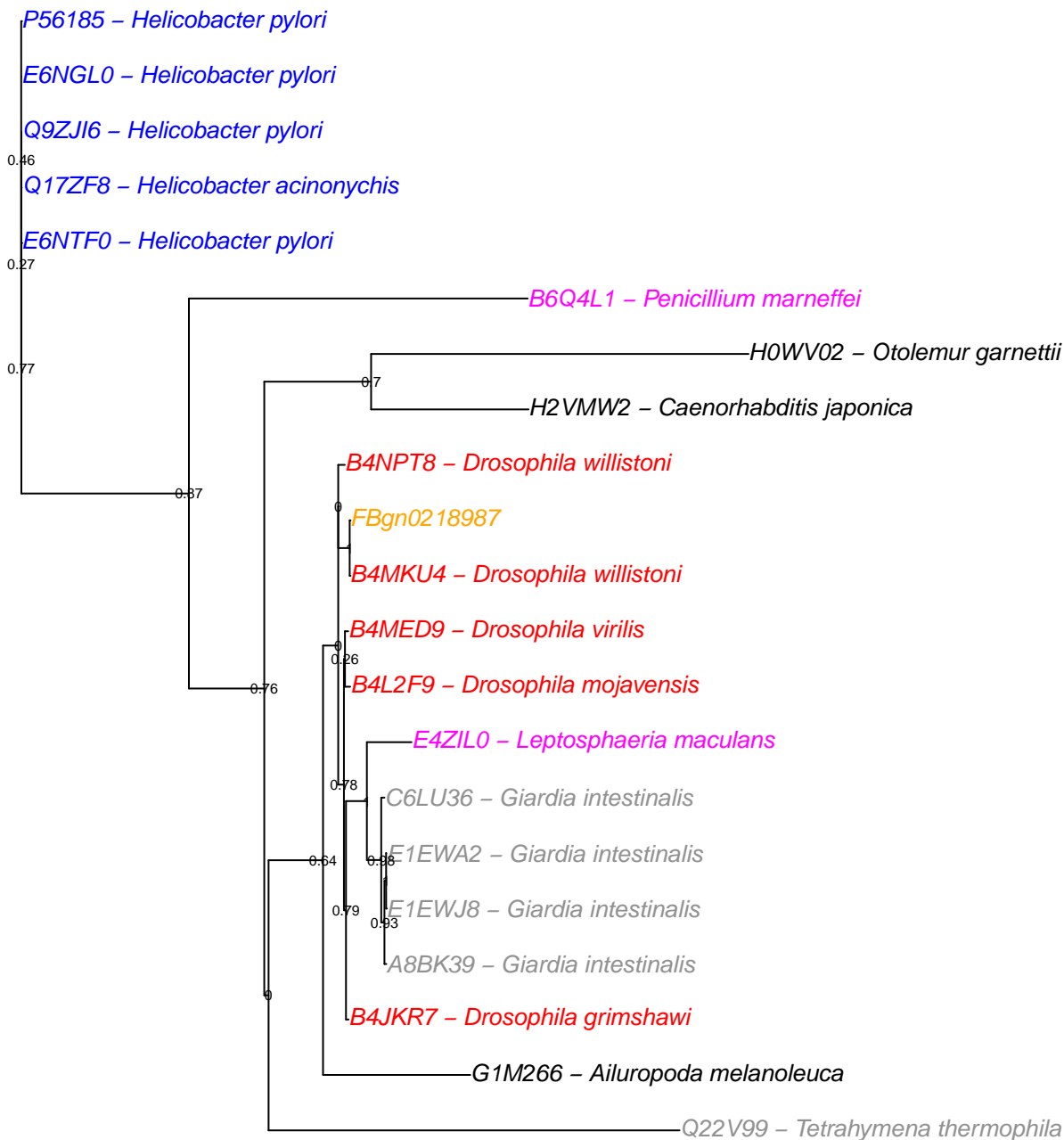
0.4

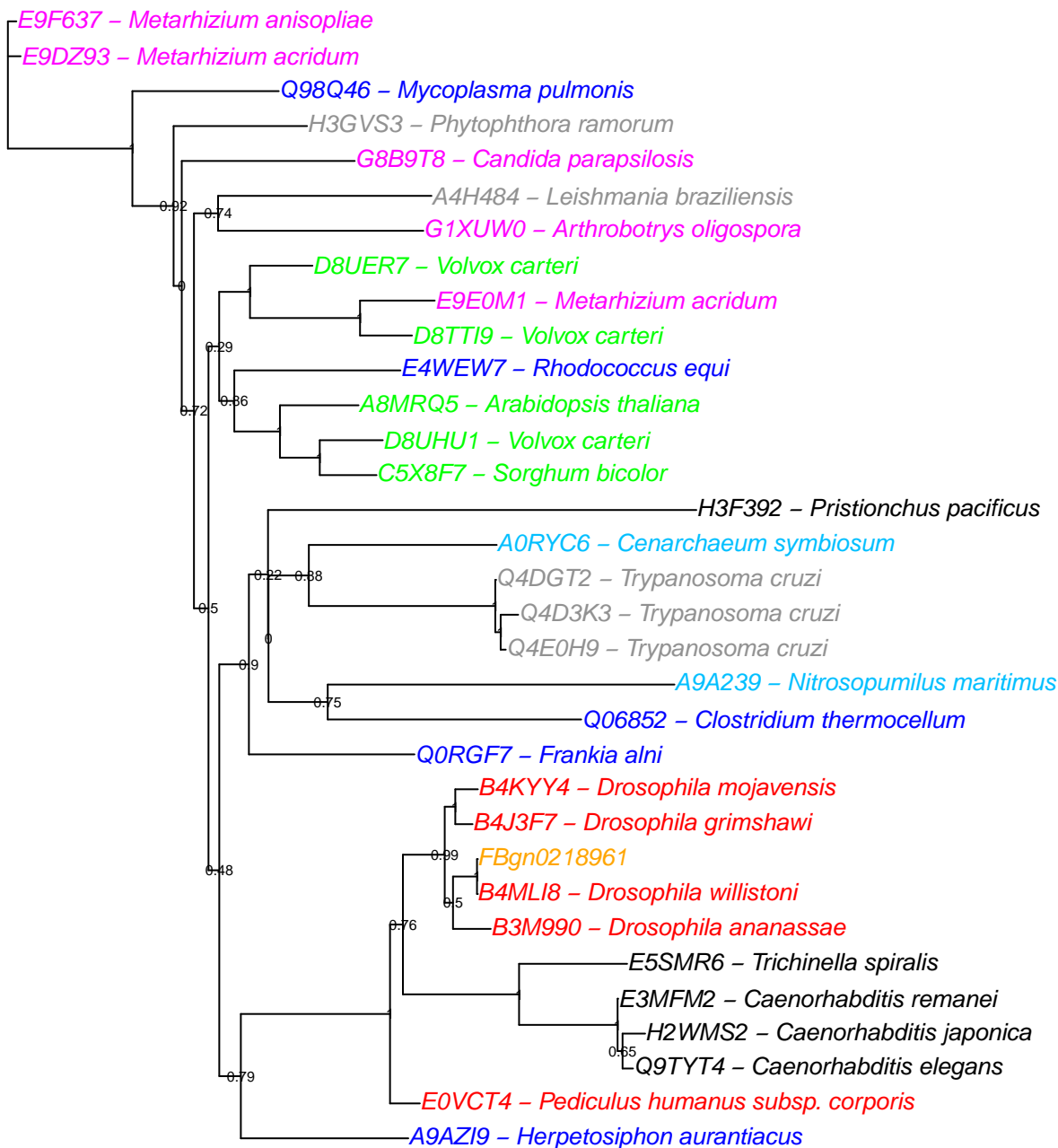
0.96

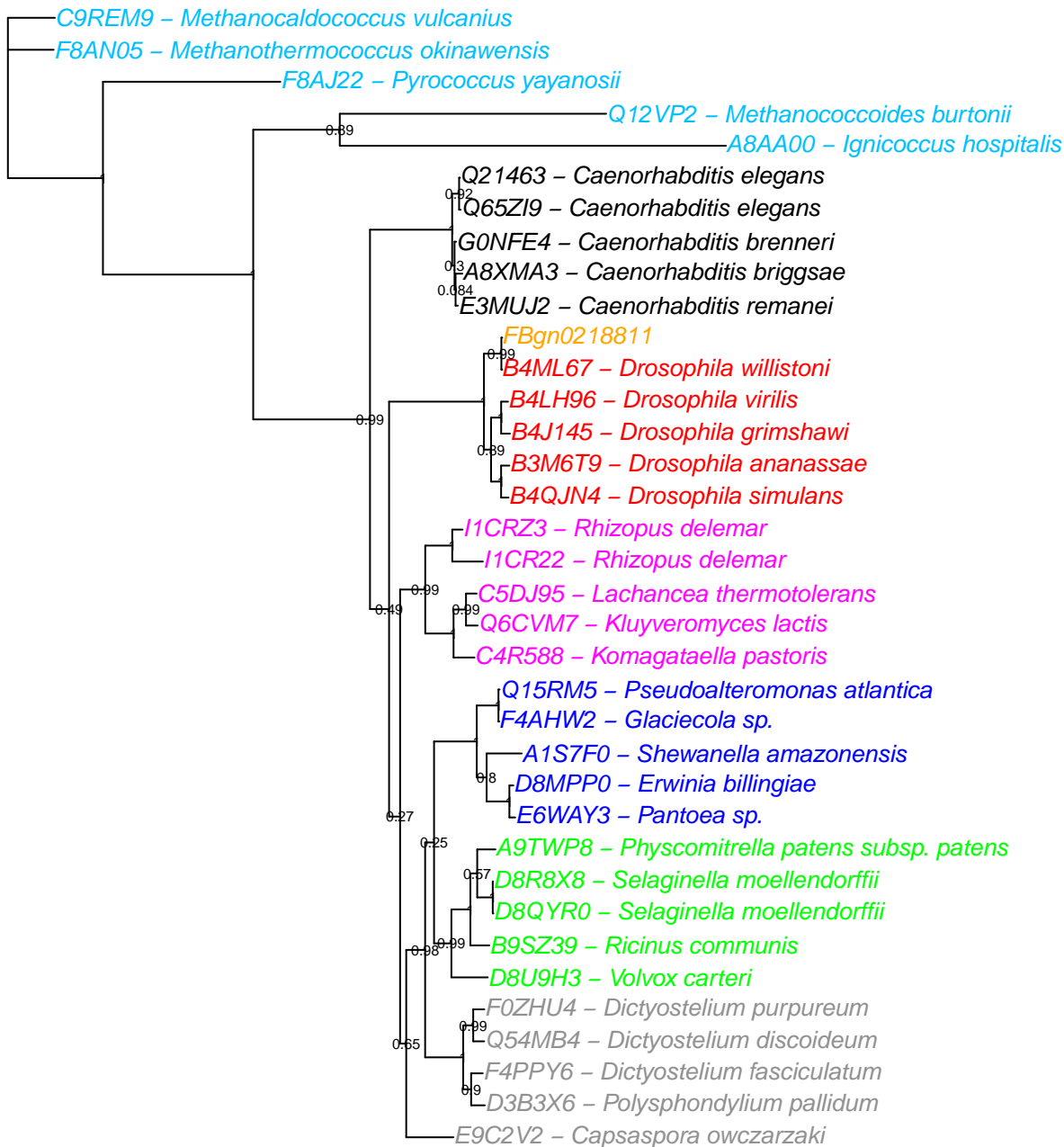
0.99

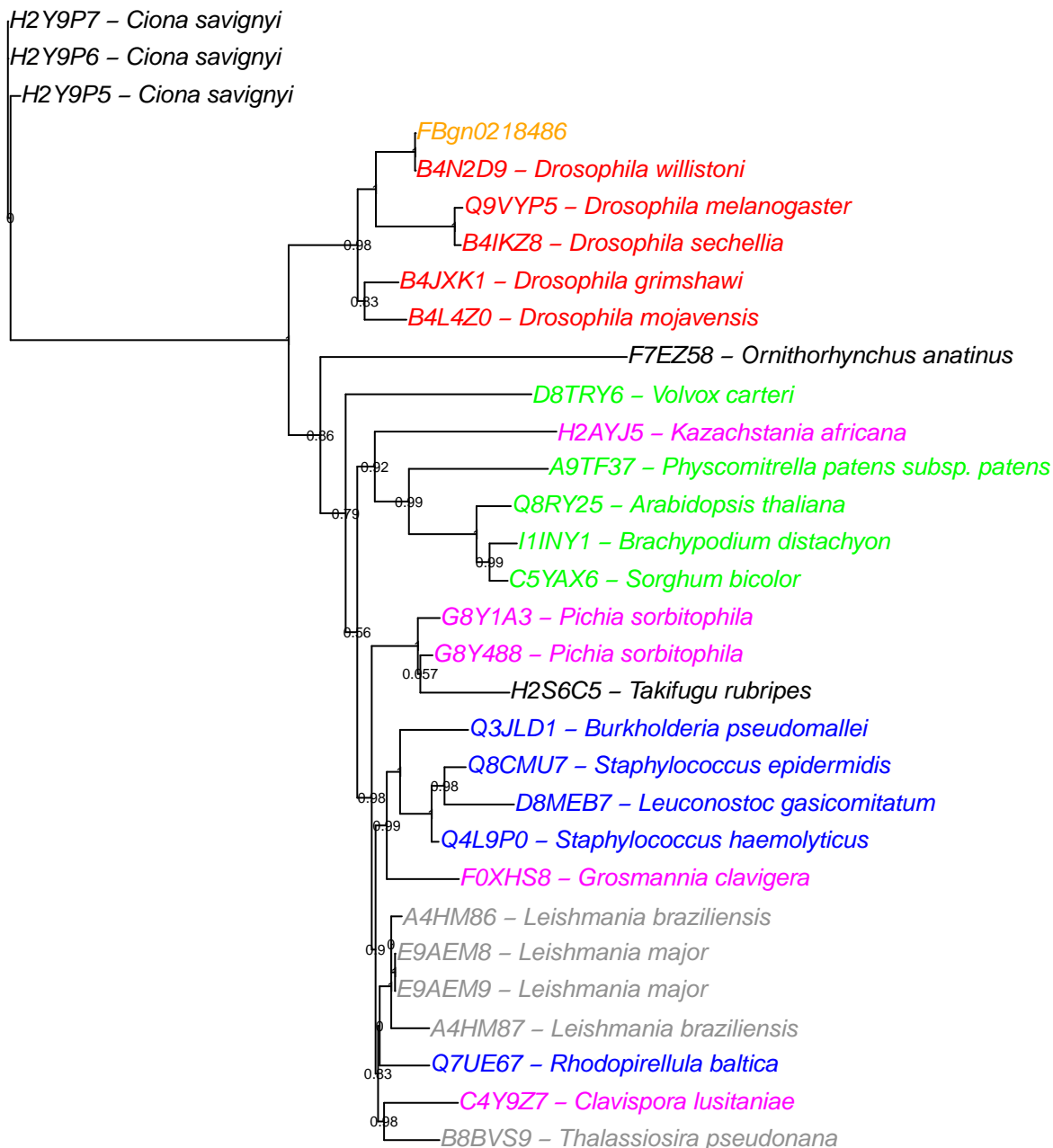
0.99

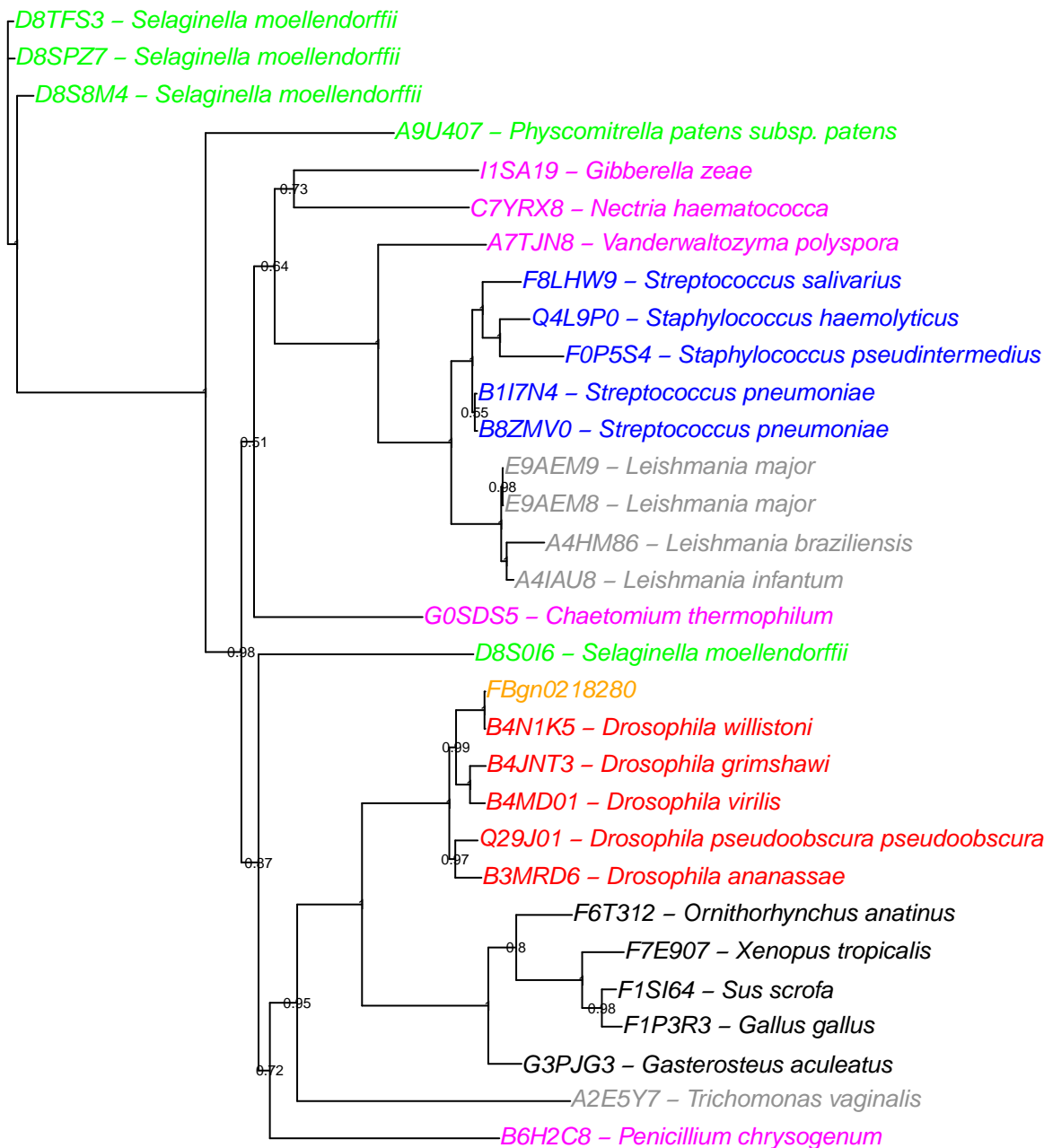
0.83

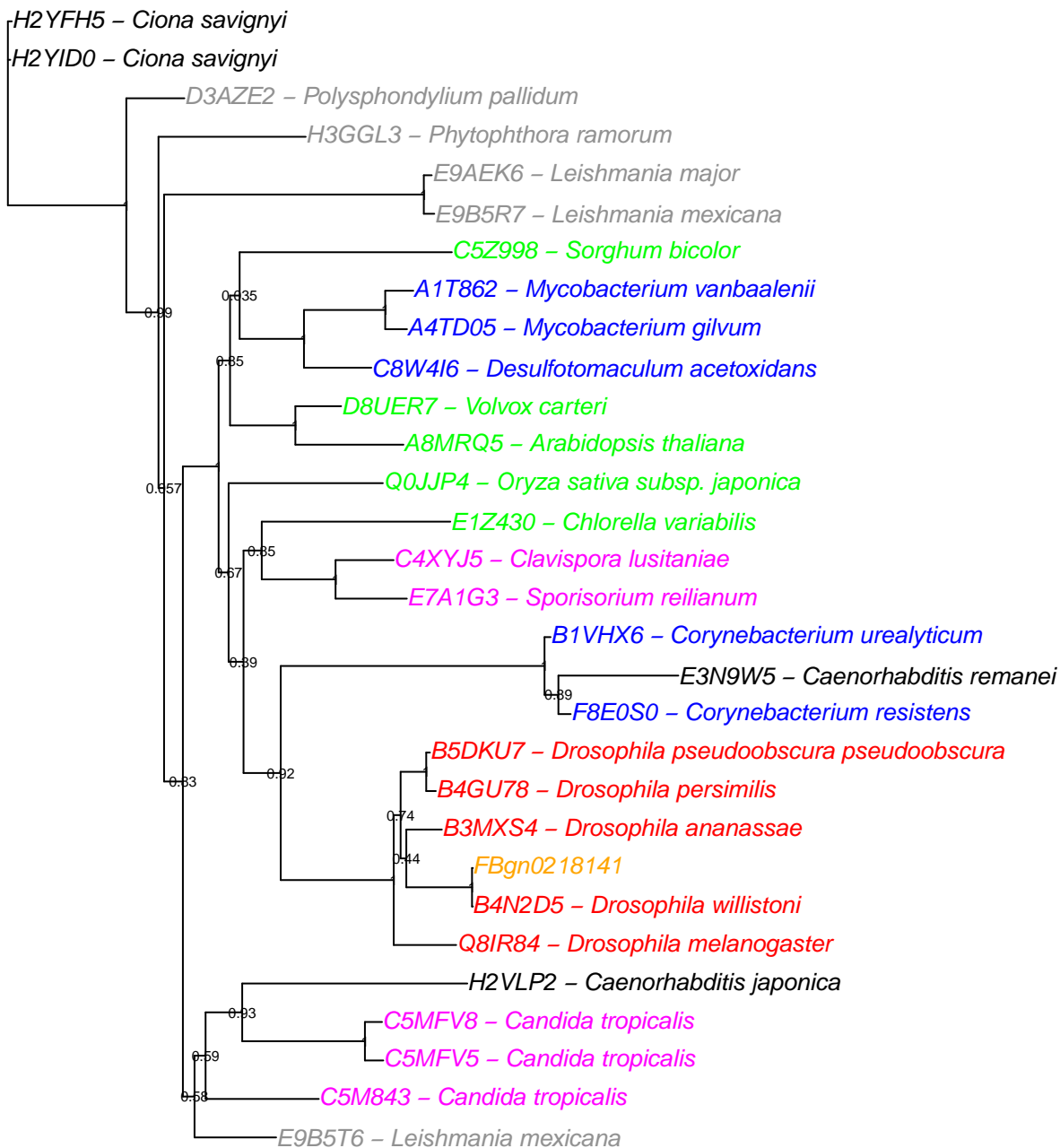


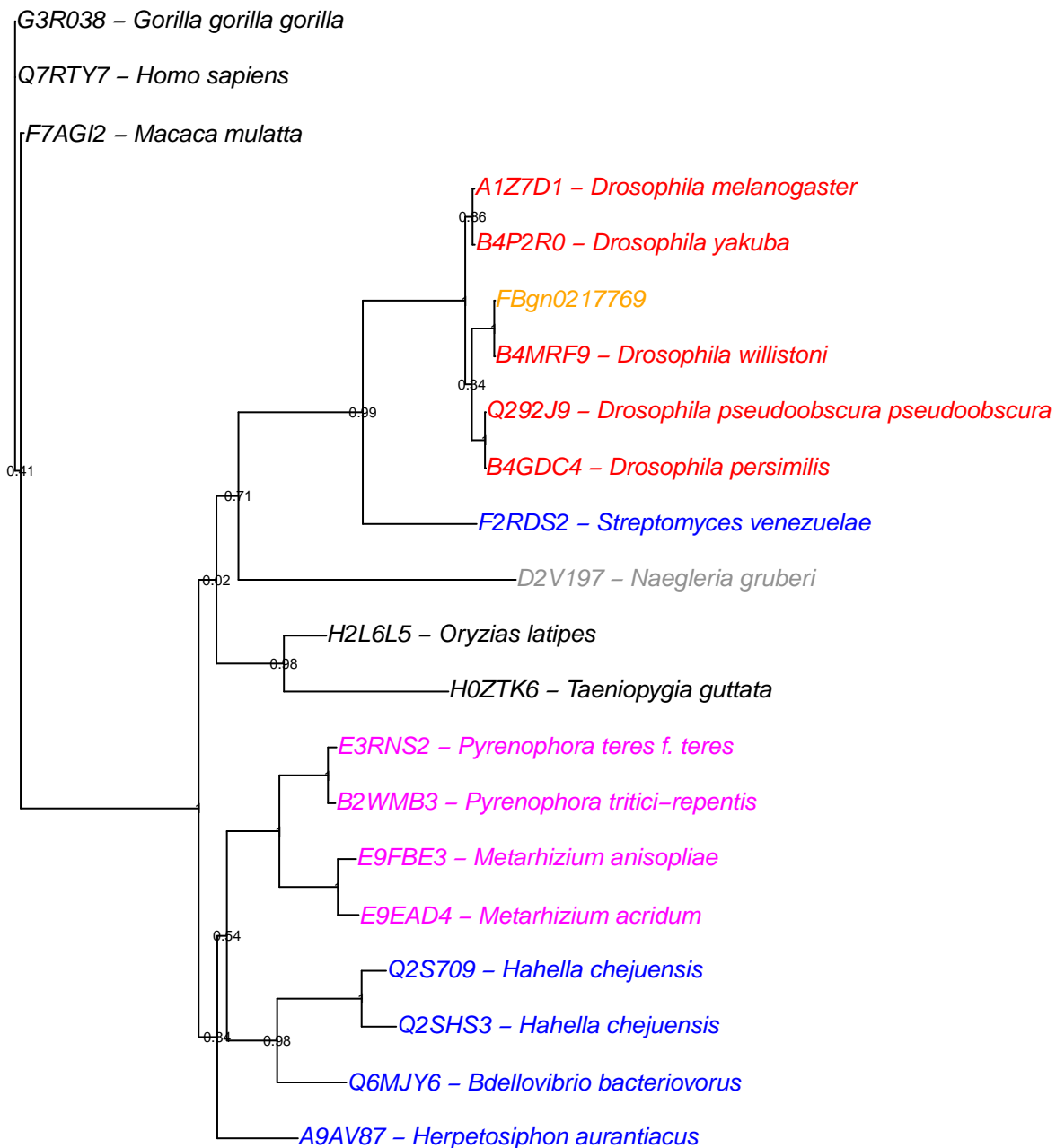












FBgn0217654

B4MS19 – *Drosophila willistoni*

Q28XQ8 – *Drosophila pseudoobscura pseudoobscura*

B4GHE7 – *Drosophila persimilis*

B4I7W7 – *Drosophila sechellia*

B3MJ10 – *Drosophila ananassae*

E7F0J8 – *Danio rerio*

H9GR75 – *Anolis carolinensis*

E9BX32 – *Capsaspora owczarzaki*

Q2ILJ6 – *Anaeromyxobacter dehalogenans*

Q46D86 – *Methanosarcina barkeri*

G0W762 – *Naumovozyma dairenensis*

E3FC48 – *Stigmatella aurantiaca*

A9FFW9 – *Sorangium cellulosum*

A9U2I9 – *Physcomitrella patens subsp. patens*

A7HED4 – *Anaeromyxobacter* sp.

H8MJU7 – *Corallococcus coralloides*

G2Y4I5 – *Botryotinia fuckeliana*

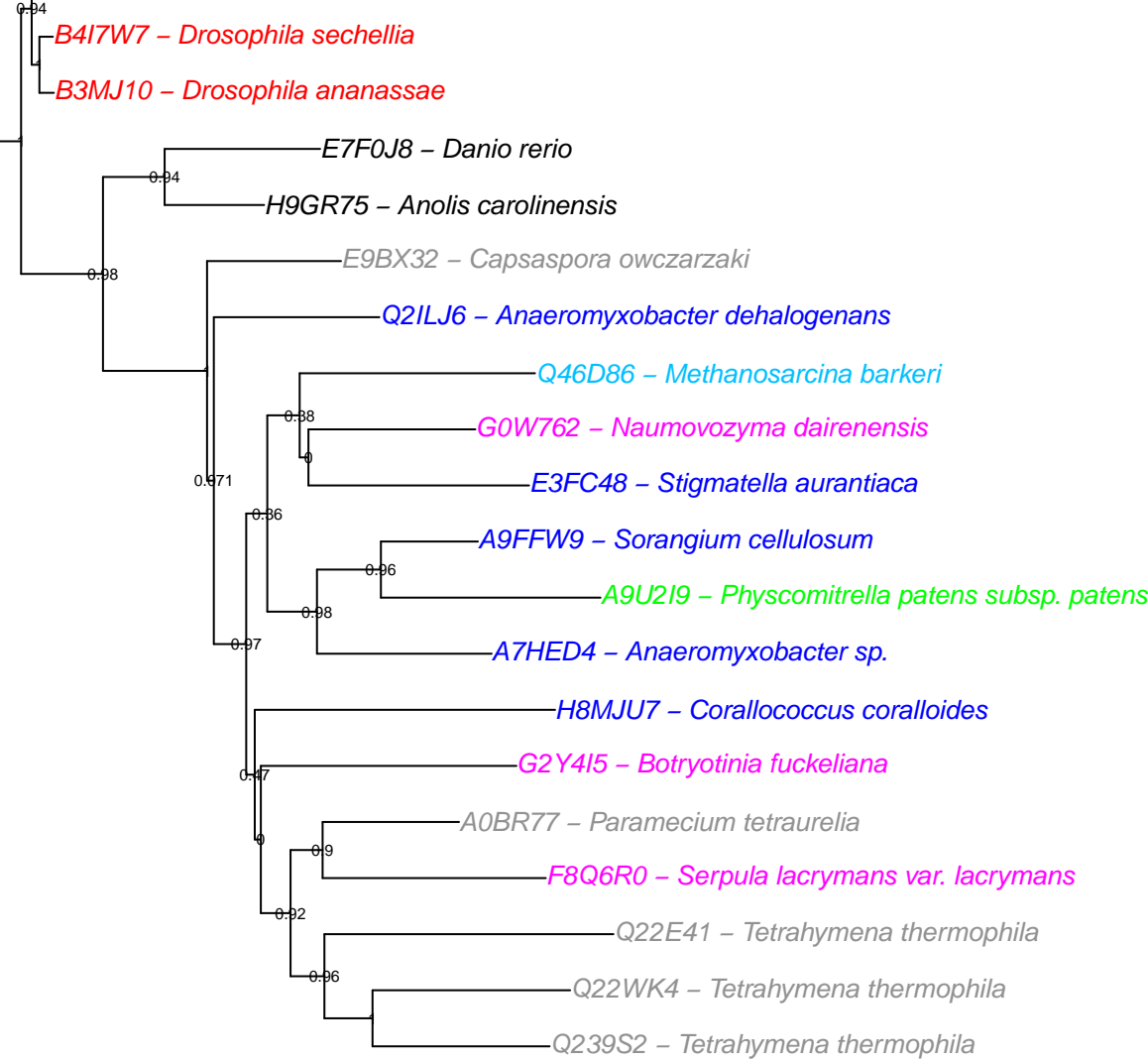
A0BR77 – *Paramecium tetraurelia*

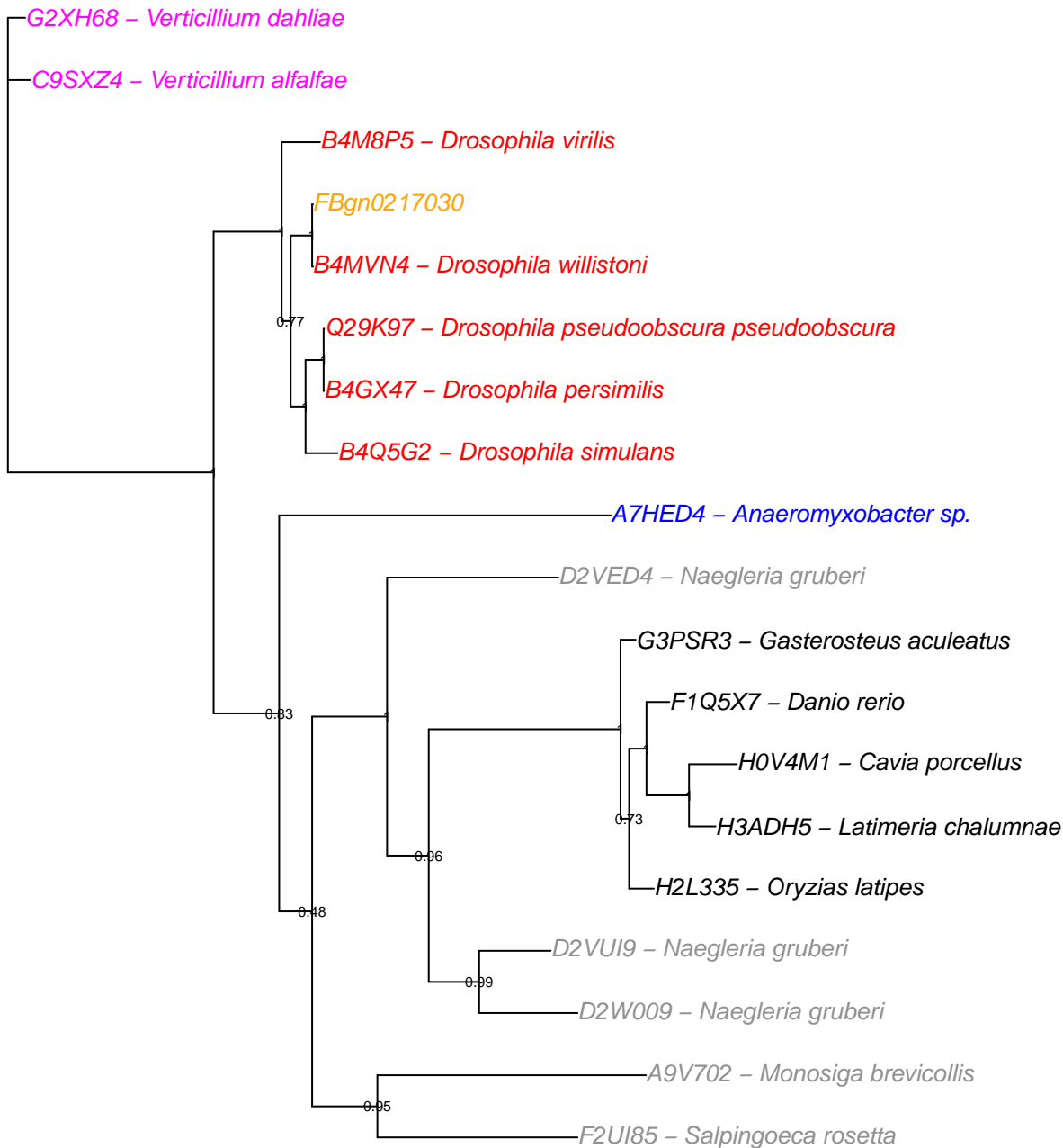
F8Q6R0 – *Serpula lacrymans* var. *lacrymans*

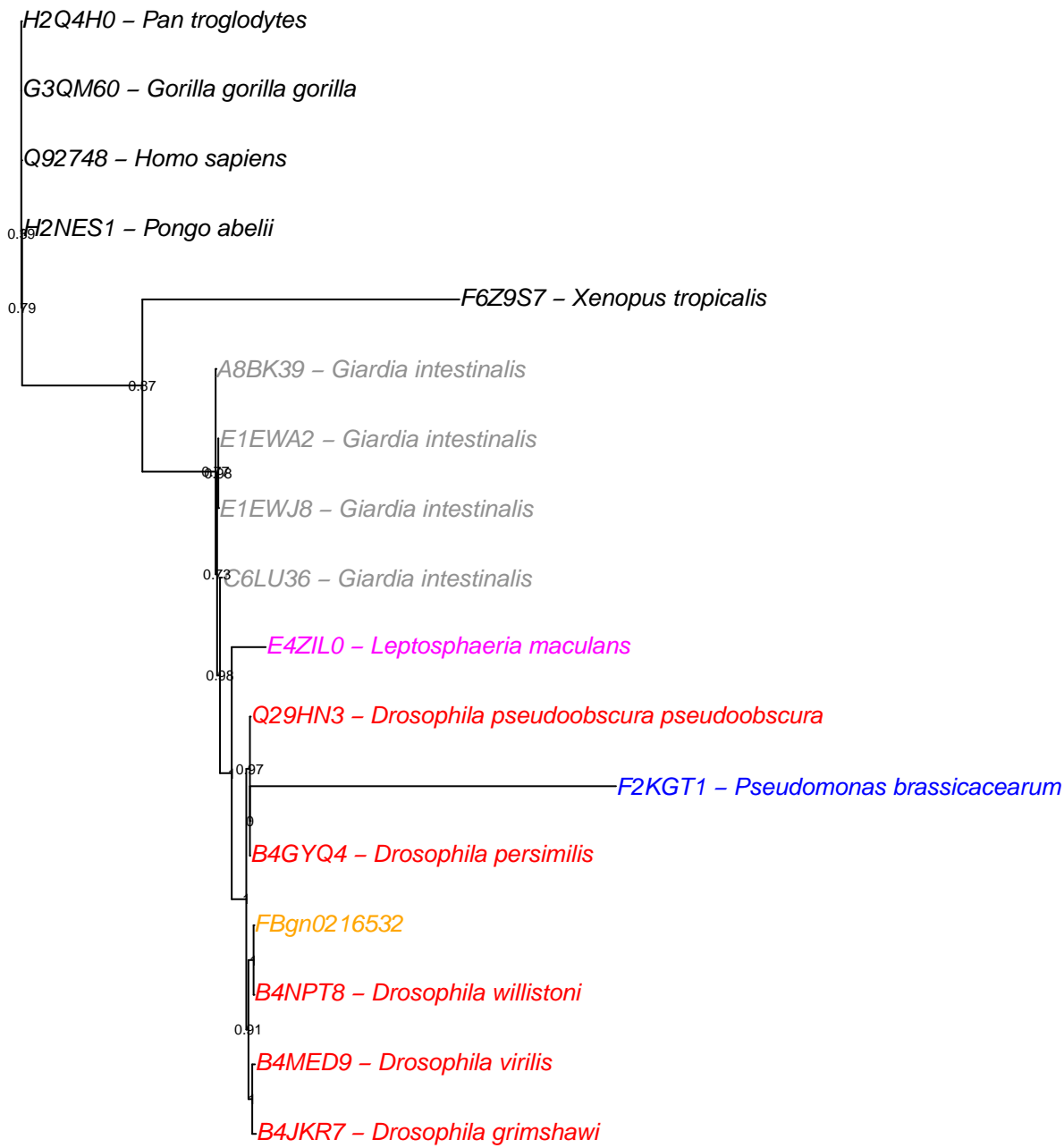
Q22E41 – *Tetrahymena thermophila*

Q22WK4 – *Tetrahymena thermophila*

Q239S2 – *Tetrahymena thermophila*







D8R575 – *Selaginella moellendorffii*

D8S3T1 – *Selaginella moellendorffii*

C5XIW8 – *Sorghum bicolor*

C1N1T6 – *Micromonas pusilla*

Q5TS15 – *Anopheles gambiae*

Q5TMT4 – *Anopheles gambiae*

FBgn0216027

B4NL22 – *Drosophila willistoni*

E2BMA6 – *Harpegnathos saltator*

E2BAP1 – *Harpegnathos saltator*

H8K2J0 – *Rickettsia amblyommii*

H8KDX5 – *Rickettsia parkeri*

A0DU09 – *Paramecium tetraurelia*

Q23G95 – *Tetrahymena thermophila*

Q24DT9 – *Tetrahymena thermophila*

B3CSX9 – *Orientia tsutsugamushi*

H2ZV24 – *Latimeria chalumnae*

H3B1F6 – *Latimeria chalumnae*

E7EYI3 – *Danio rerio*

E7FBV2 – *Danio rerio*

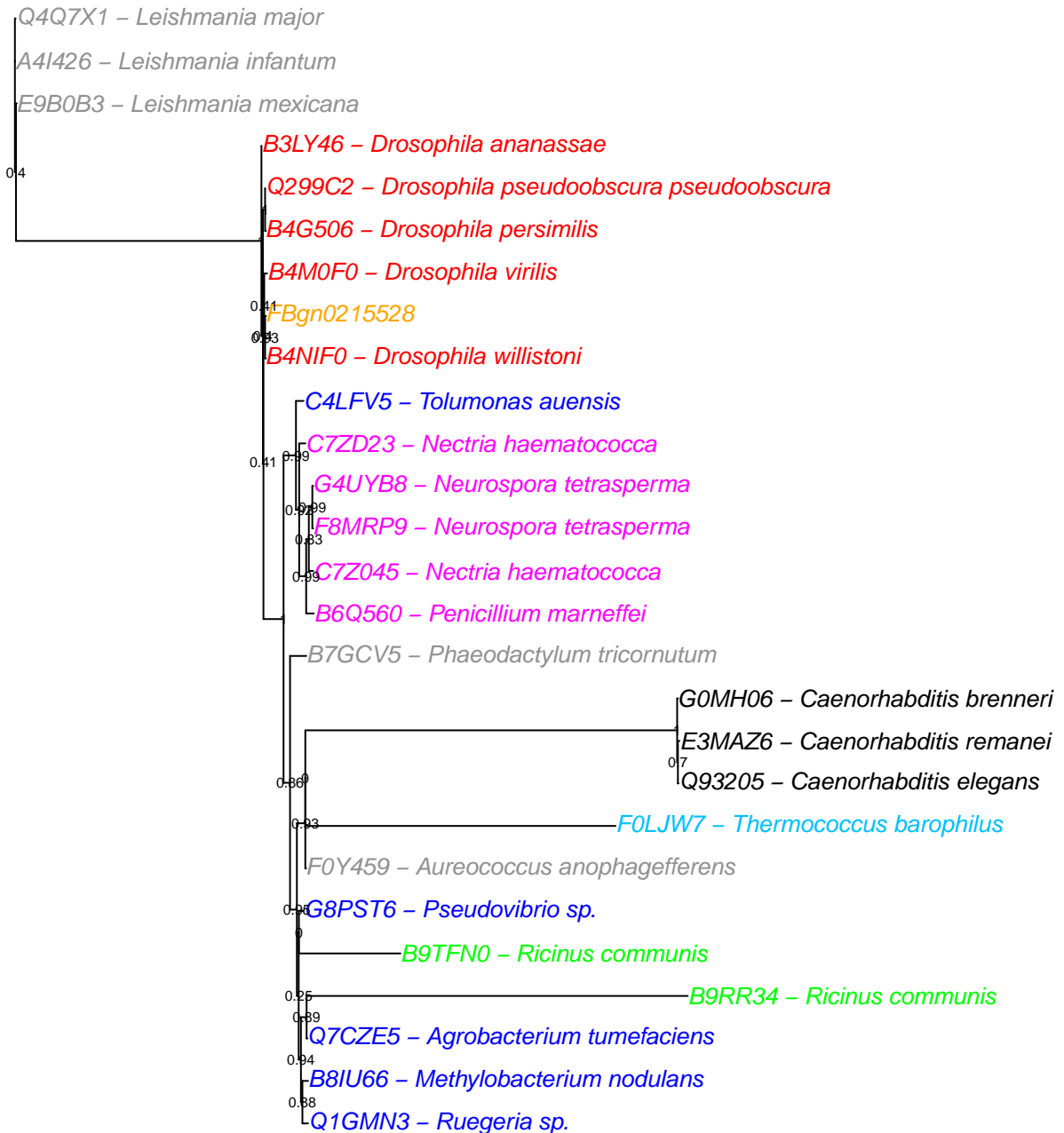
Q23AE0 – *Tetrahymena thermophila*

A0BEU6 – *Paramecium tetraurelia*

H2KR95 – *Clonorchis sinensis*

C3L4K7 – *Amoebophilus asiaticus*

B3ETC9 – *Amoebophilus asiaticus*



Q06852 – *Clostridium thermocellum*

E6UU83 – *Clostridium thermocellum*

G0HPV7 – *Haloarcula hispanica*

Q2FKR0 – *Methanospirillum hungatei* JF–1

FBgn0214988

B4NI35 – *Drosophila willistoni*

B4LX19 – *Drosophila virilis*

B3LWZ3 – *Drosophila ananassae*

Q9VC00 – *Drosophila melanogaster*

B3P6U5 – *Drosophila erecta*

G1Q6F1 – *Myotis lucifugus*

Q3U492 – *Mus musculus*

F7DDK6 – *Xenopus tropicalis*

F7D608 – *Xenopus tropicalis*

H9GHF0 – *Anolis carolinensis*

D5AFN2 – *Streptococcus suis*

I1LAY3 – *Glycine max*

G1X3Y3 – *Arthrobotrys oligospora*

A0LDP7 – *Magnetococcus* sp.

G0SDS5 – *Chaetomium thermophilum*

I1SA19 – *Gibberella zeae*

C1E2M6 – *Micromonas* sp.

C7YRX8 – *Nectria haematococca*

A2E5Y7 – *Trichomonas vaginalis*

E8UK11 – *Streptococcus suis*

I1I0W6 – *Brachypodium distachyon*

D3SYC9 – *Natrialba magadii*

G0HSI3 – *Haloarcula hispanica*

D8S0I6 – *Selaginella moellendorffii*

A9U407 – *Physcomitrella patens* subsp. *patens*

C7NSS1 – *Halorhabdus utahensis*

A7TJN8 – *Vanderwaltozyma polyspora*

G4ZZ67 – *Phytophthora sojae*

G5AHW2 – *Phytophthora sojae*

C5KMK0 – *Perkinsus marinus*

H3GVS3 – *Phytophthora ramorum*

FBgn0214792

B4NK73 – *Drosophila willistoni*

B5DY44 – *Drosophila pseudoobscura pseudoobscura*

B4GFB7 – *Drosophila persimilis*

B4PQL6 – *Drosophila yakuba*

B3M2S7 – *Drosophila ananassae*

E7F3N4 – *Danio rerio*

F7AFX1 – *Xenopus tropicalis*

D8S0I6 – *Selaginella moellendorffii*

A7TJN8 – *Vanderwaltozyma polyspora*

F8LQZ7 – *Streptococcus salivarius*

F8LQZ6 – *Streptococcus salivarius*

Q4A0V8 – *Staphylococcus saprophyticus subsp. saprophyticus*

C7YRX8 – *Nectria haematococca*

I1SA19 – *Gibberella zeae*

D8TFS3 – *Selaginella moellendorffii*

G0SDS5 – *Chaetomium thermophilum*

B6H2C8 – *Penicillium chrysogenum*

A9U407 – *Physcomitrella patens subsp. patens*

D0A0Q7 – *Trypanosoma brucei gambiense*

F4KHD5 – *Arabidopsis thaliana*

C0R183 – *Brachyspira hyodysenteriae*

D5UBE0 – *Brachyspira murdochii*

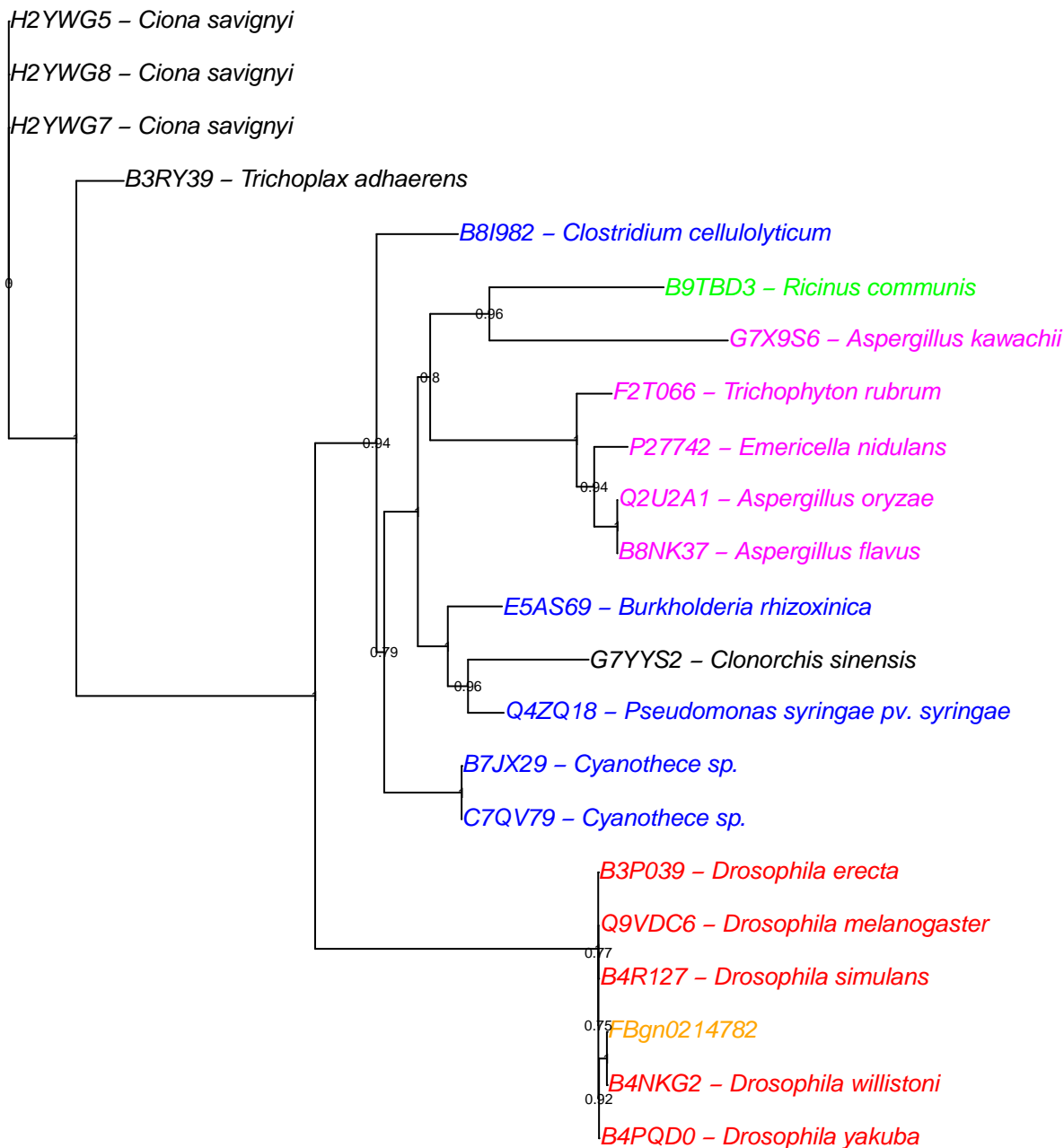
Q9LH98 – *Arabidopsis thaliana*

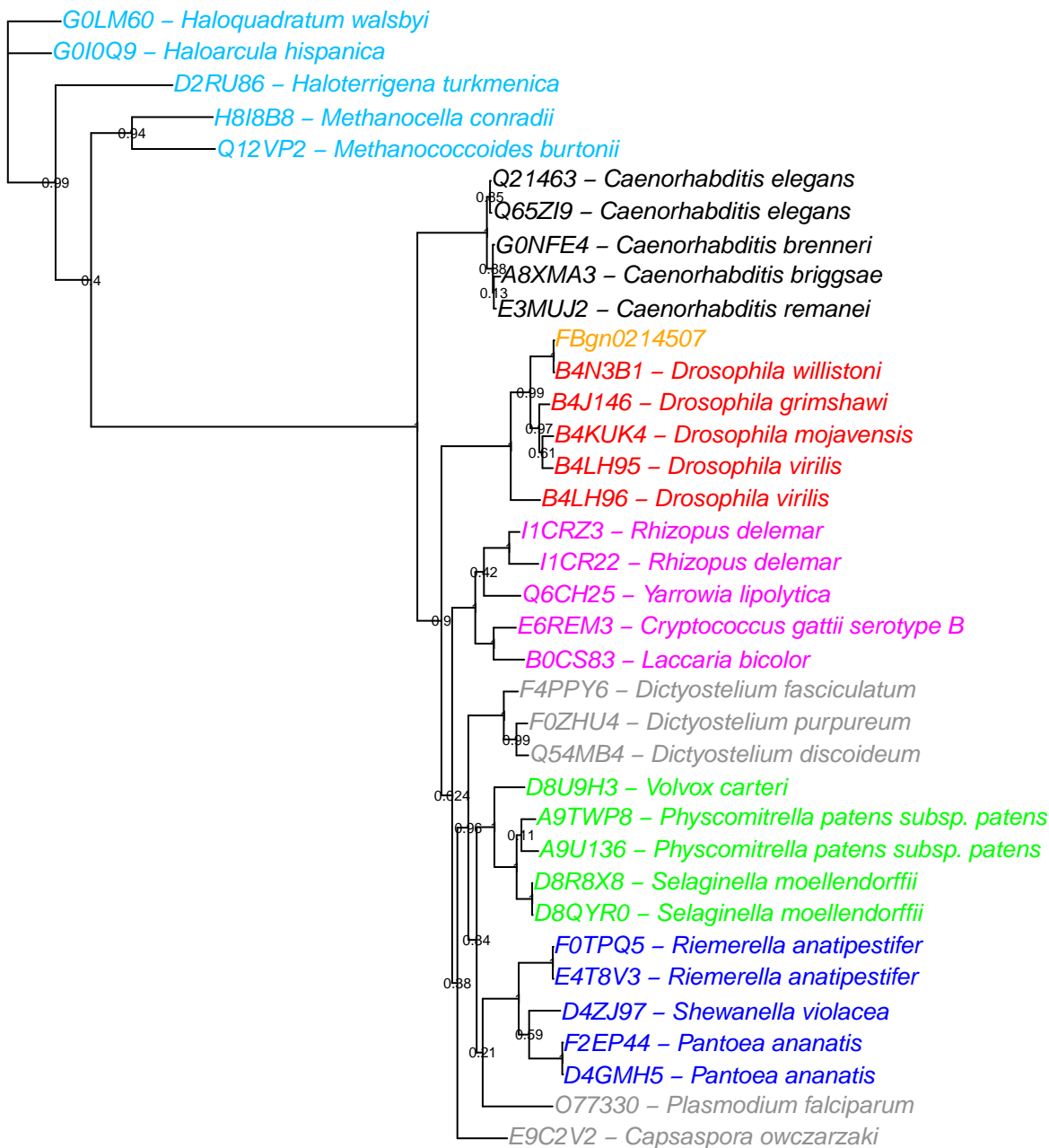
A2F8N8 – *Trichomonas vaginalis*

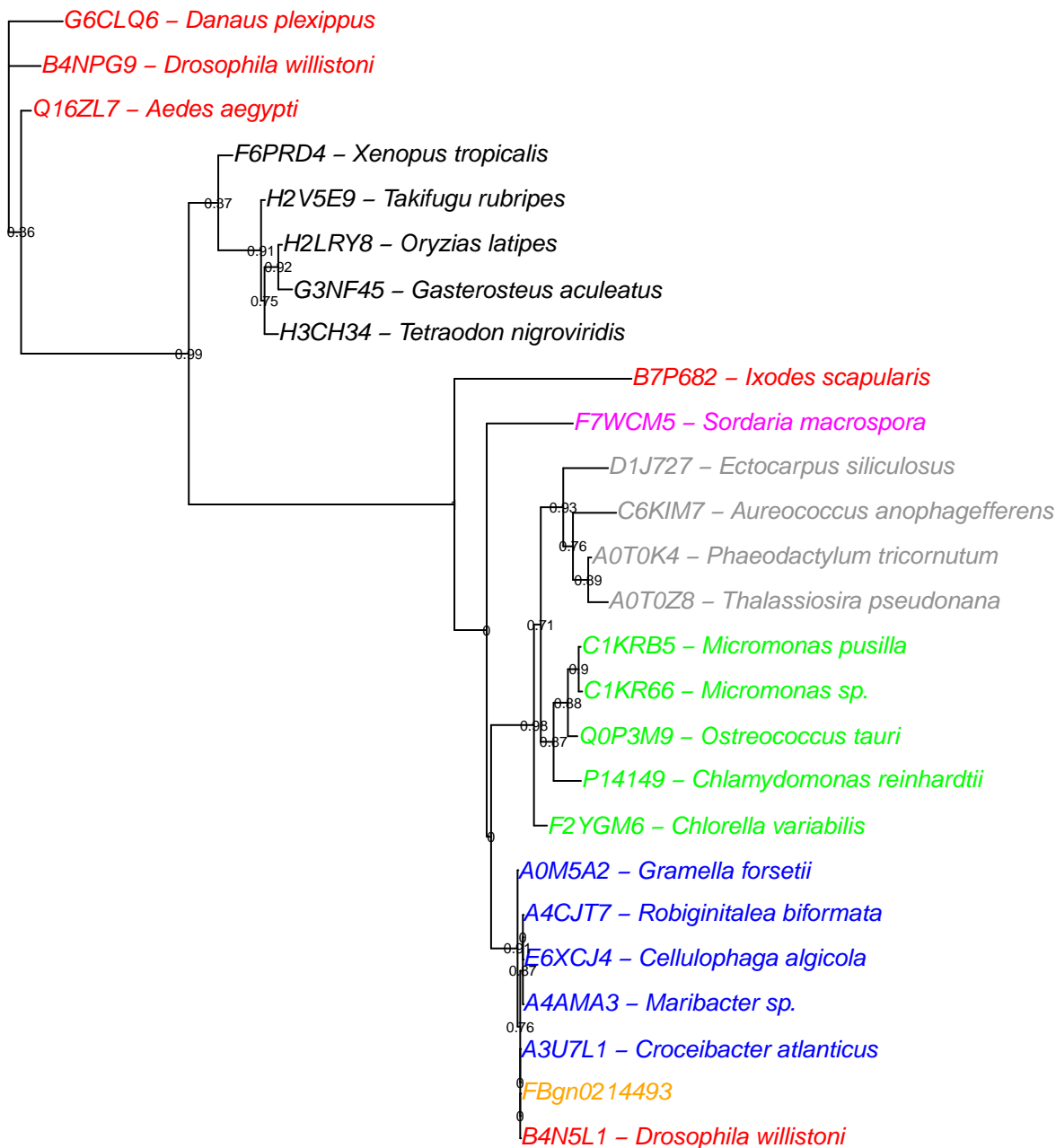
A2FNC4 – *Trichomonas vaginalis*

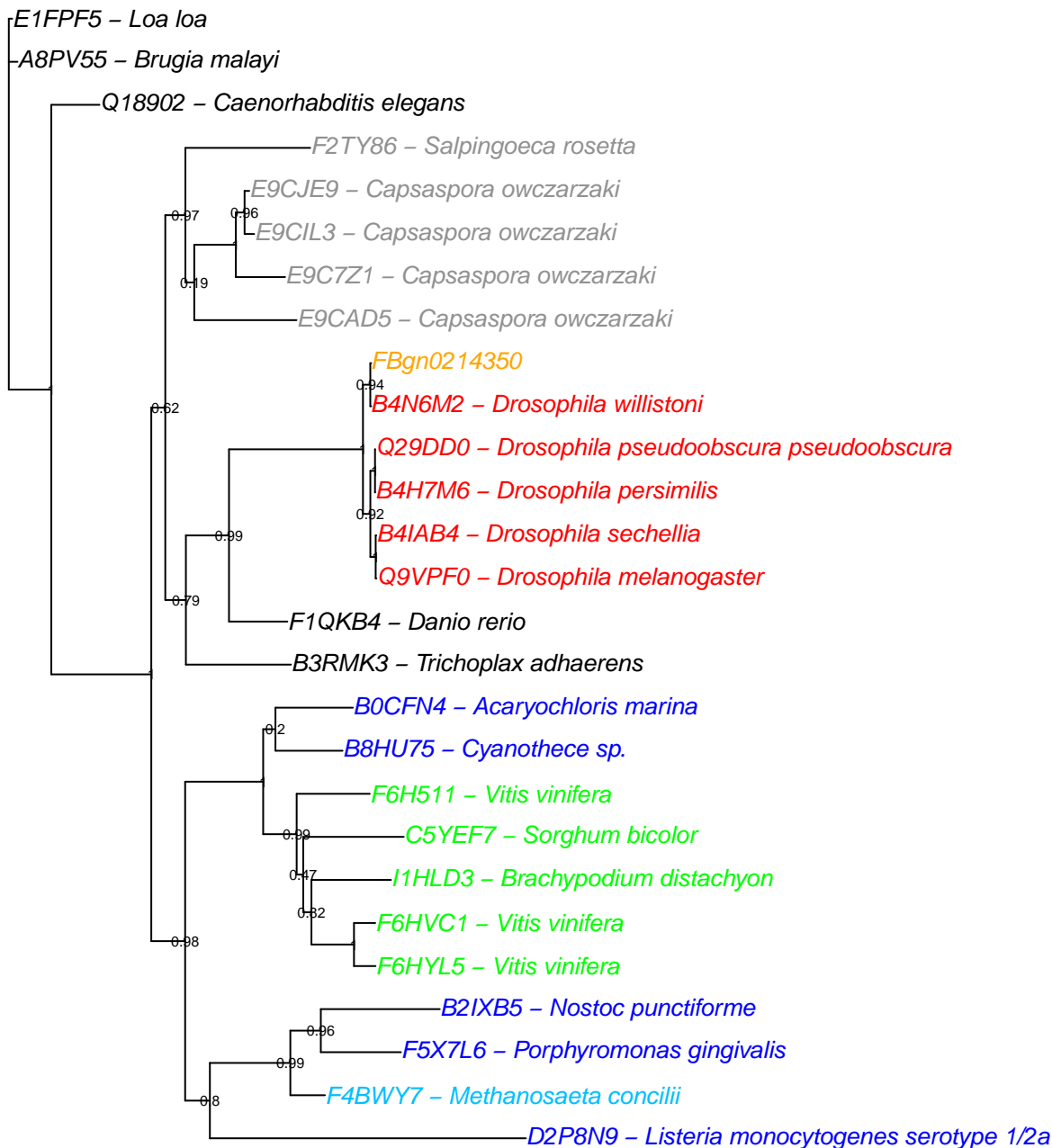
A2E5Y7 – *Trichomonas vaginalis*

A2E7B0 – *Trichomonas vaginalis*









B8FZZ7 – *Desulfitobacterium hafniense*

Q24WC6 – *Desulfitobacterium hafniense*

