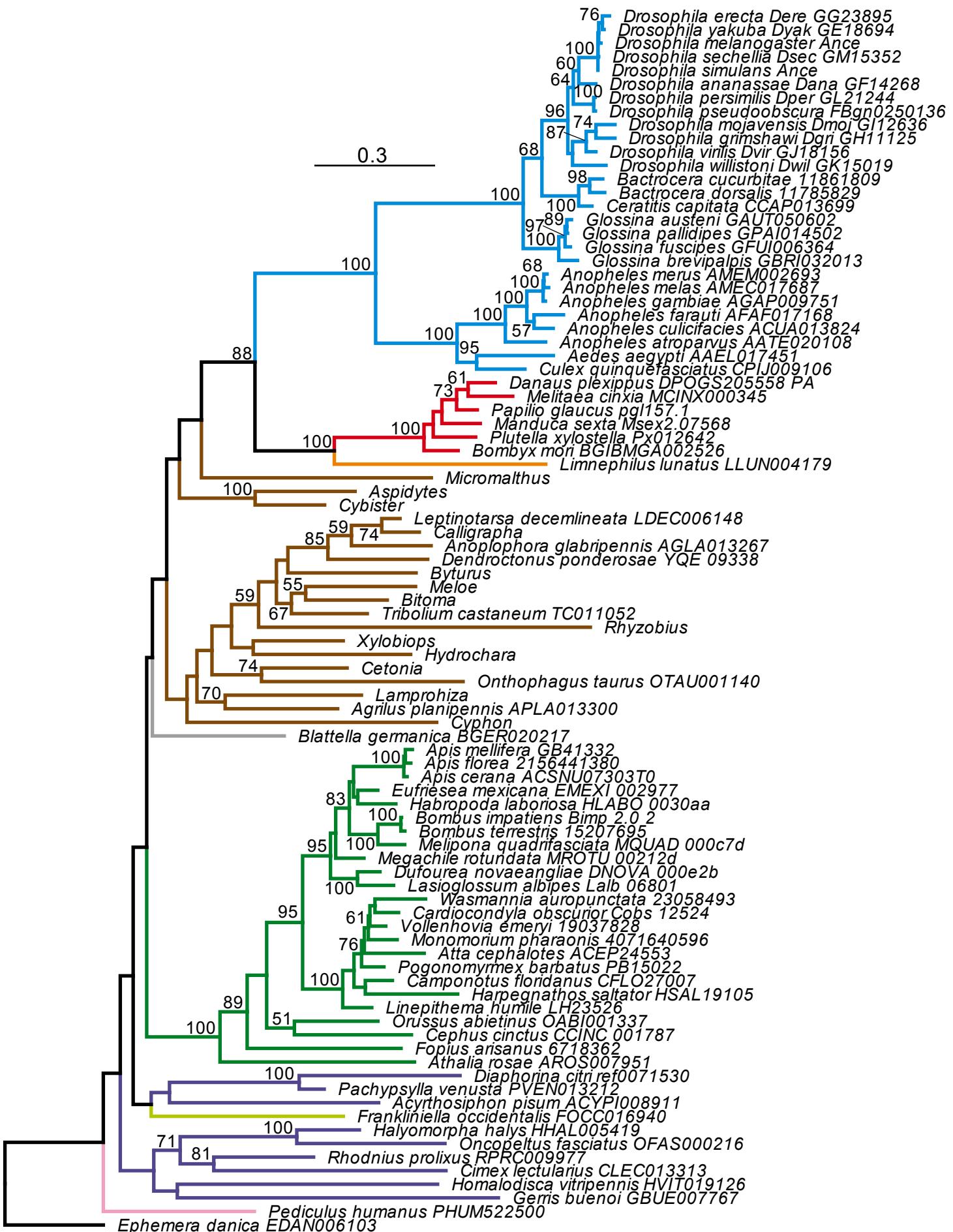


File S1. Maximum likelihood trees based on the amino acid alignments of different sperm individualization proteins in insects.

Tree	Gene	Model	Gamma	Invariant	Log likelihood
1	<i>Ance</i> *	LG	0.975	0.075	-36264.30406
2	<i>aux</i>	LG	0.861	0.042	-101341.43324
3	<i>blanks</i>	JTT	1.000	0.006	-51030.51327
4	<i>Bug22</i> *	LG	0.970	0.076	-11344.29415
5	<i>CdsA</i>	JTT	0.662	0.164	-20188.93347
6	<i>Chc</i>	JTT	0.646	0.429	-27341.73092
7	<i>Cul3</i> *	JTT	0.617	0.203	-21620.12771
8	<i>Dark</i>	JTT	1.873	0.003	-175174.99008
9	<i>didum</i>	LG	0.896	0.094	-118892.32085
10	<i>Dredd</i> *	JTT	1.420	0.006	-57705.56572
11	<i>Dronc</i>	WAG	1.405	0.013	-53433.37737
12	<i>Duba</i>	JTT	0.992	0.055	-43655.01217
13	<i>EcR</i>	JTT	0.663	0.140	-13958.07538
14	<i>eIF3m</i>	JTT	0.817	0.145	-15809.34033
15	<i>Fadd</i>	JTT	1.307	0.004	-30734.15211
16	<i>gish</i>	JTT	0.678	0.335	-7663.02559
17	<i>gudu</i>	LG	0.921	0.038	-38783.13178
18	<i>heph</i>	JTT	0.965	0.170	-15480.89741
19	<i>hmw</i>	JTT	1.149	0.007	-35247.66673
20	<i>jar</i>	LG	0.857	0.181	-62829.80003
21	<i>klhl10</i> *	LG	0.913	0.017	-35556.78931
22	<i>Lasp</i>	JTT	0.844	0.249	-9432.56476
23	<i>Mer</i>	JTT	0.699	0.123	-21840.64371
24	<i>mlt</i>	LG	0.628	0.095	-34633.21523
25	<i>nes</i>	LG	1.073	0.040	-42646.95754
26	<i>Npc1a</i> *	LG	0.833	0.156	-85235.55965
27	<i>nsr</i> *	JTT	0.854	0.036	-28961.01227
28	<i>orb2</i>	JTT	0.489	0.214	-3222.50637
29	<i>Osbp</i>	JTT	0.863	0.082	-51127.87538
30	<i>oys</i>	LG	0.984	0.066	-29099.88610
31	<i>Past1</i>	LG	0.711	0.302	-16096.65909
32	<i>Pen</i> *	LG	0.930	0.090	-38161.29725
33	<i>poe</i>	JTT	0.769	0.060	-163837.44235
34	<i>porin</i>	LG	1.341	0.028	-15895.84791
35	<i>Prosalpha6T</i>	LG	0.792	0.197	-15675.74518
36	<i>scat</i>	JTT	0.939	0.037	-72098.82783
37	<i>shi</i>	LG	0.650	0.287	-23338.29850
38	<i>skap</i> *	LG	0.831	0.257	-19572.71029
39	<i>sw</i>	JTT	0.960	0.066	-27022.45452
40	<i>Taz</i>	LG	1.034	0.157	-17370.63510
41	<i>Vps28</i>	LG	0.720	0.100	-6256.72767

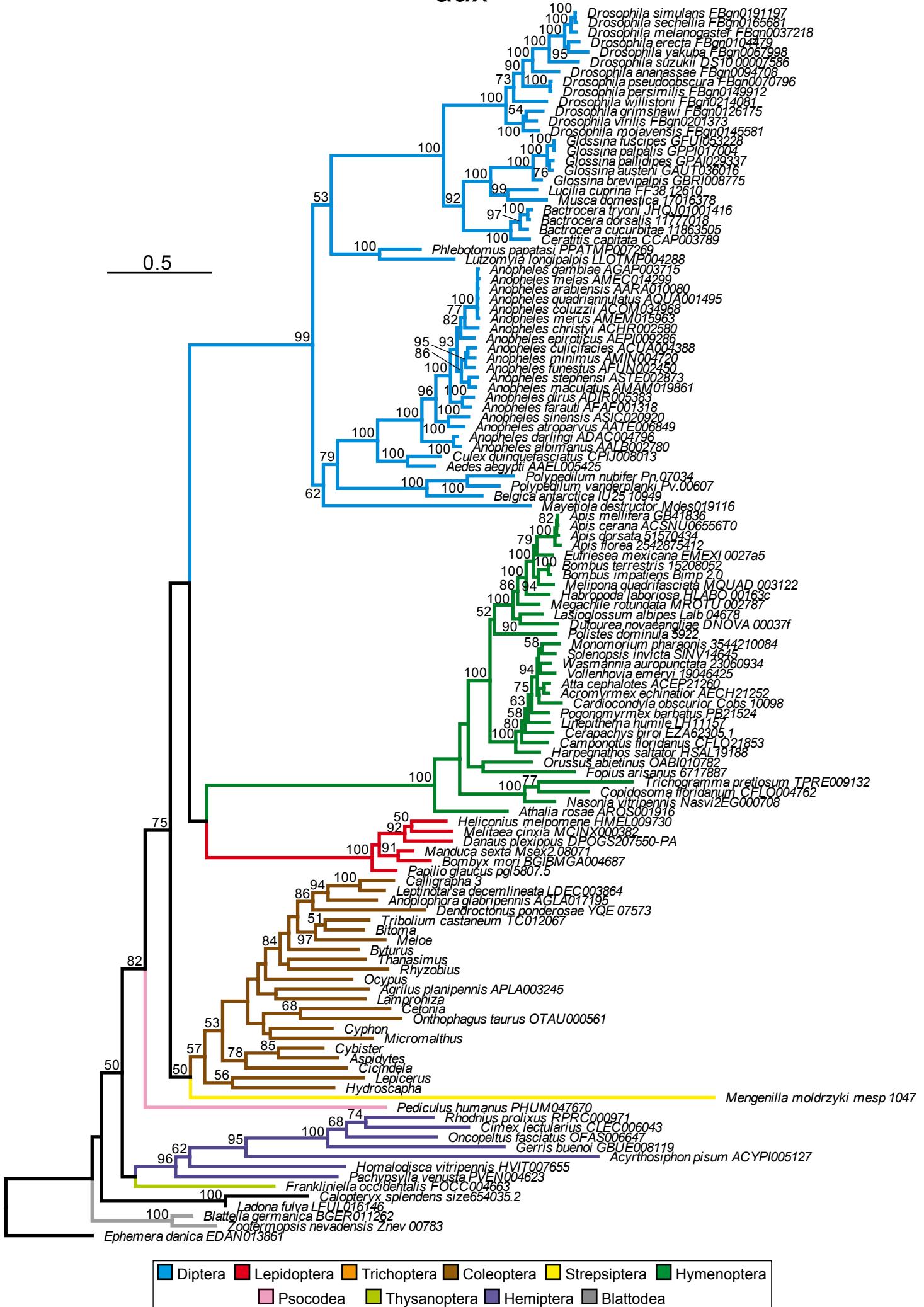
*Orthologs to the *Drosophila* paralog with sperm individualization function.

Ance

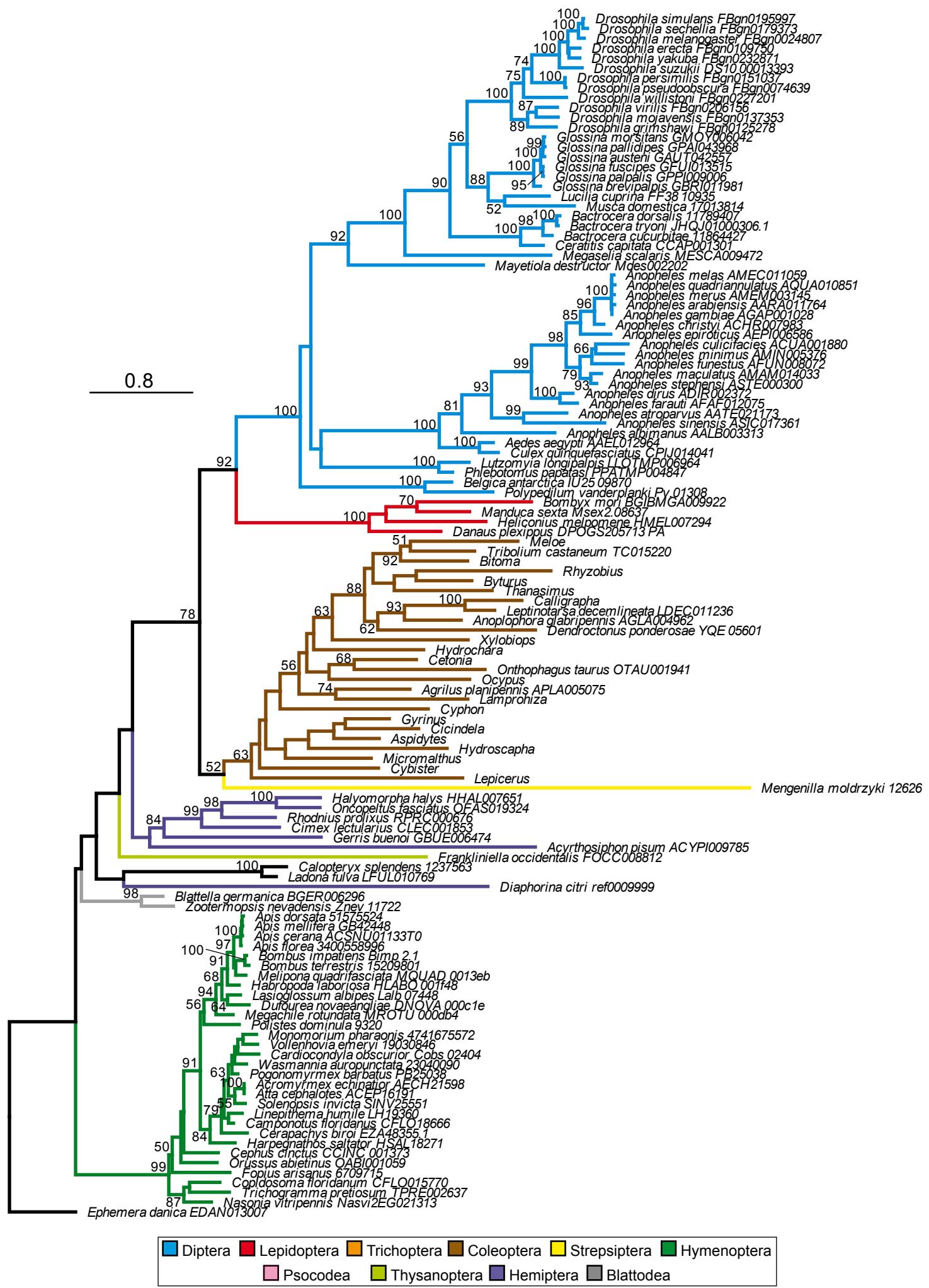


■	Diptera	■	Lepidoptera	■	Trichoptera	■	Coleoptera	■	Strepsiptera	■	Hymenoptera
■	Psocodea	■	Thysanoptera	■	Hemiptera	■	Blattodea				

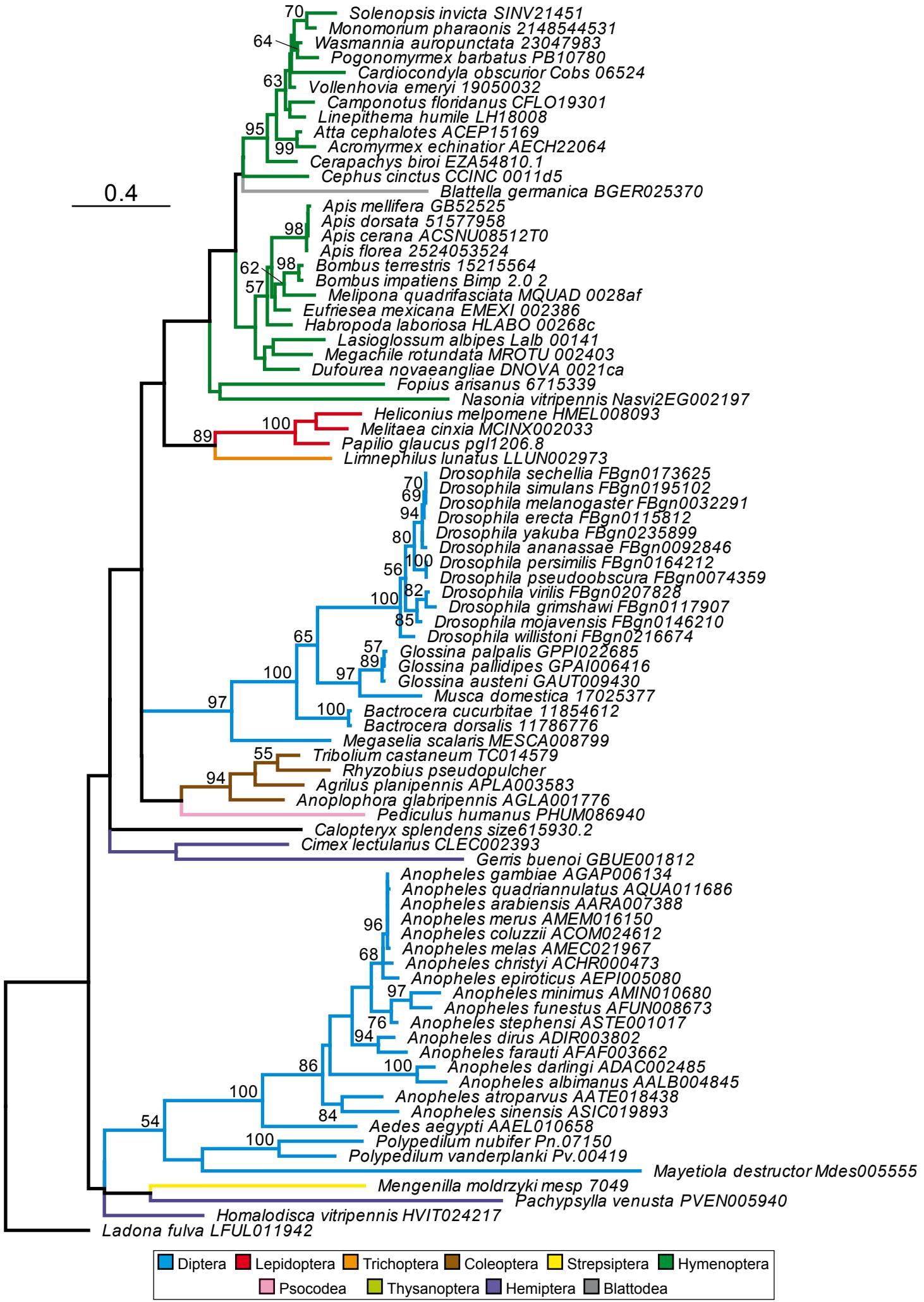
aux



blanks

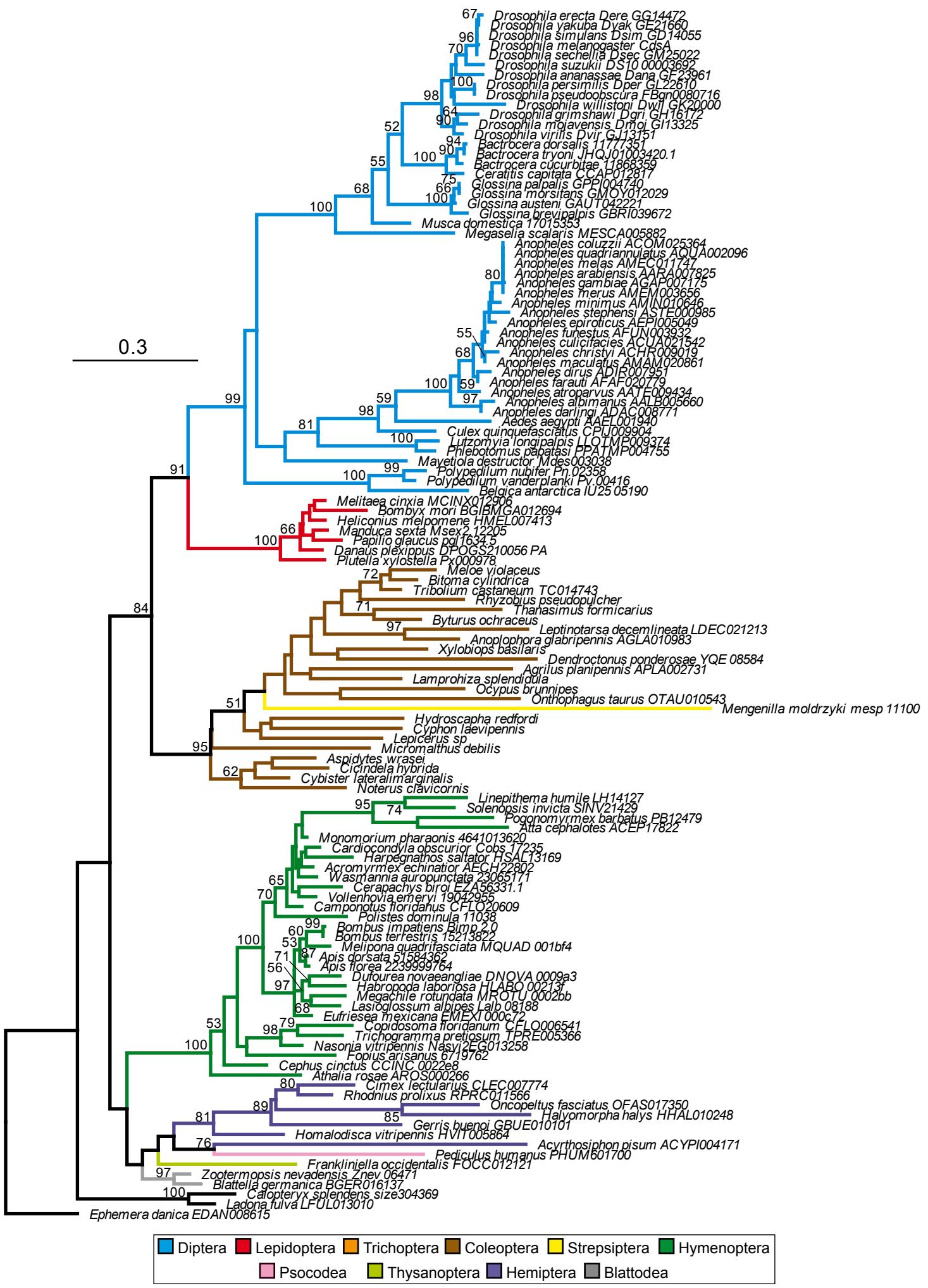


Bug22

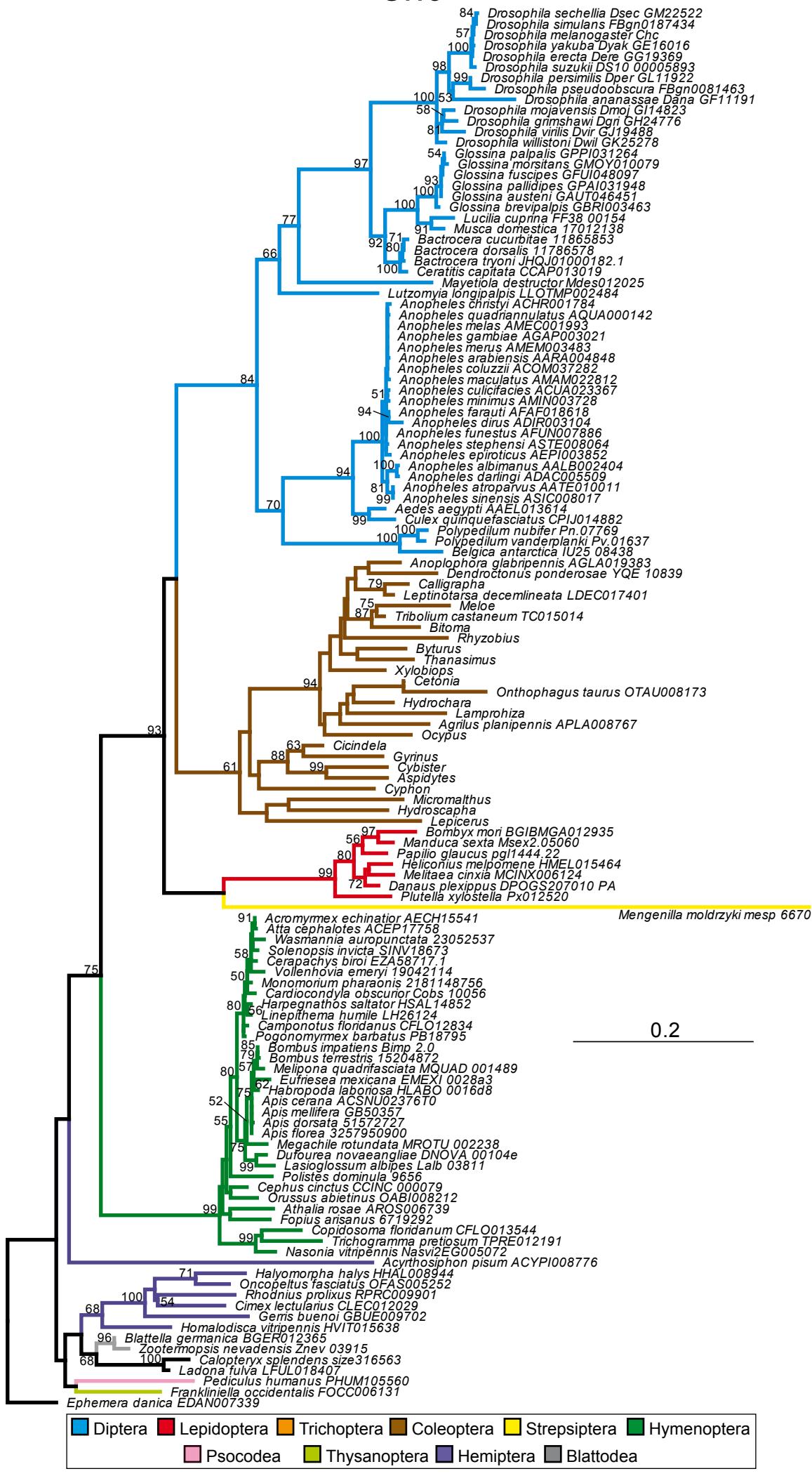


■ Diptera	■ Lepidoptera	■ Trichoptera	■ Coleoptera	■ Strepsiptera	■ Hymenoptera
■ Psocodea	■ Thysanoptera	■ Hemiptera	■ Blattodea		

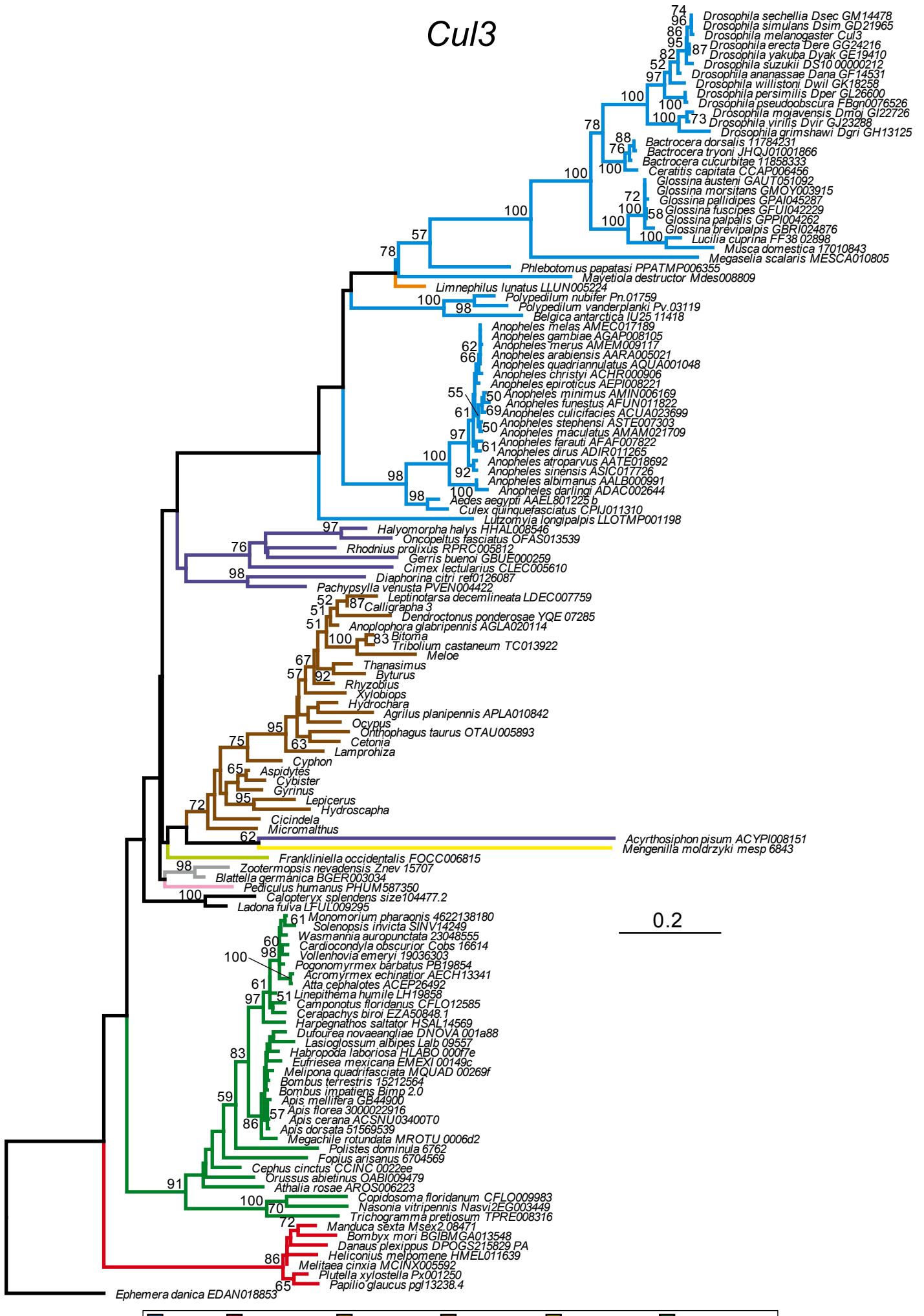
CdsA



Chc



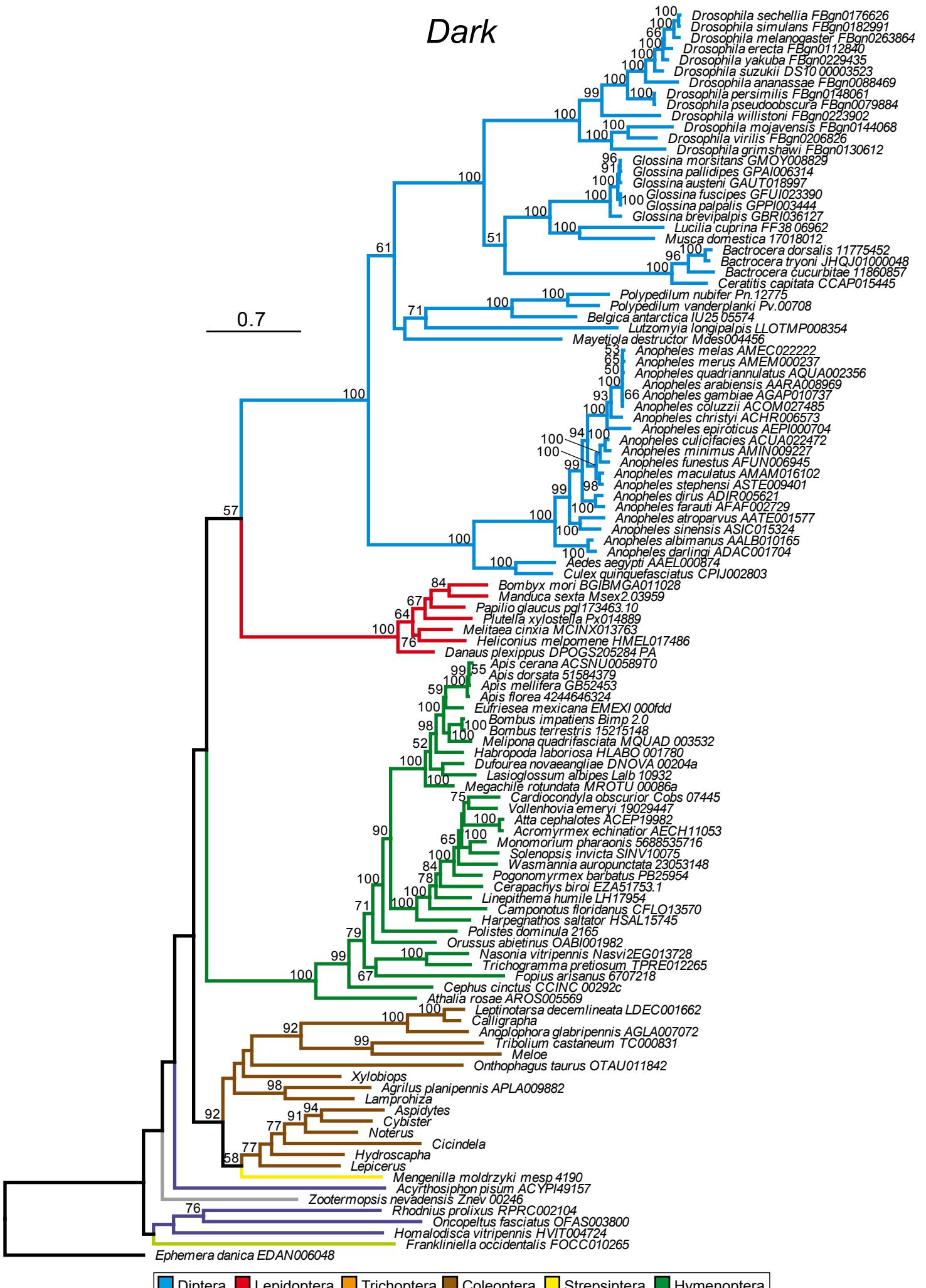
Cul3



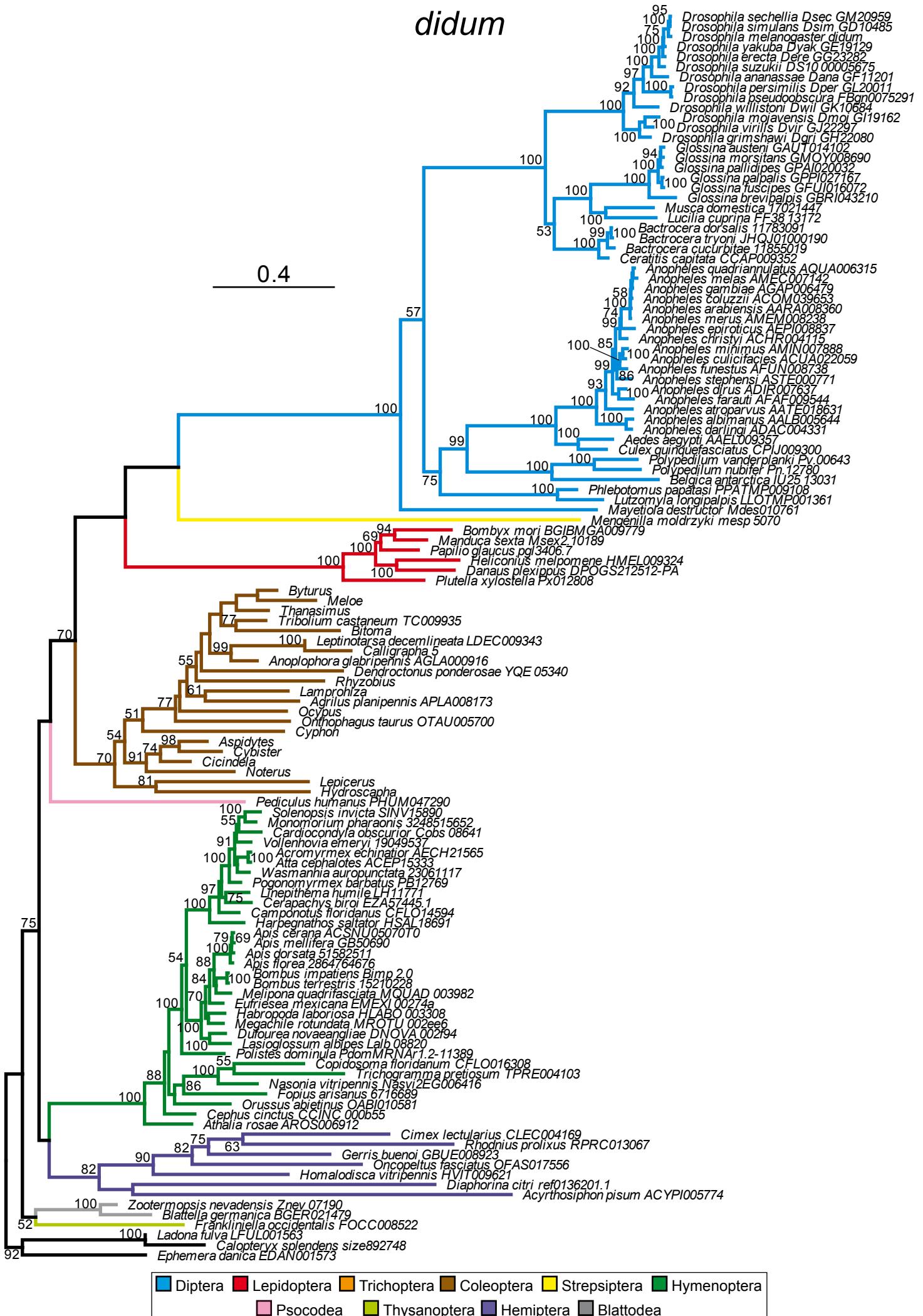
Legend:

- Diptera (Blue)
- Lepidoptera (Red)
- Trichoptera (Orange)
- Coleoptera (Brown)
- Strepsiptera (Yellow)
- Hymenoptera (Green)
- Psocodea (Pink)
- Thysanoptera (Light Green)
- Hemiptera (Purple)
- Blattodea (Grey)

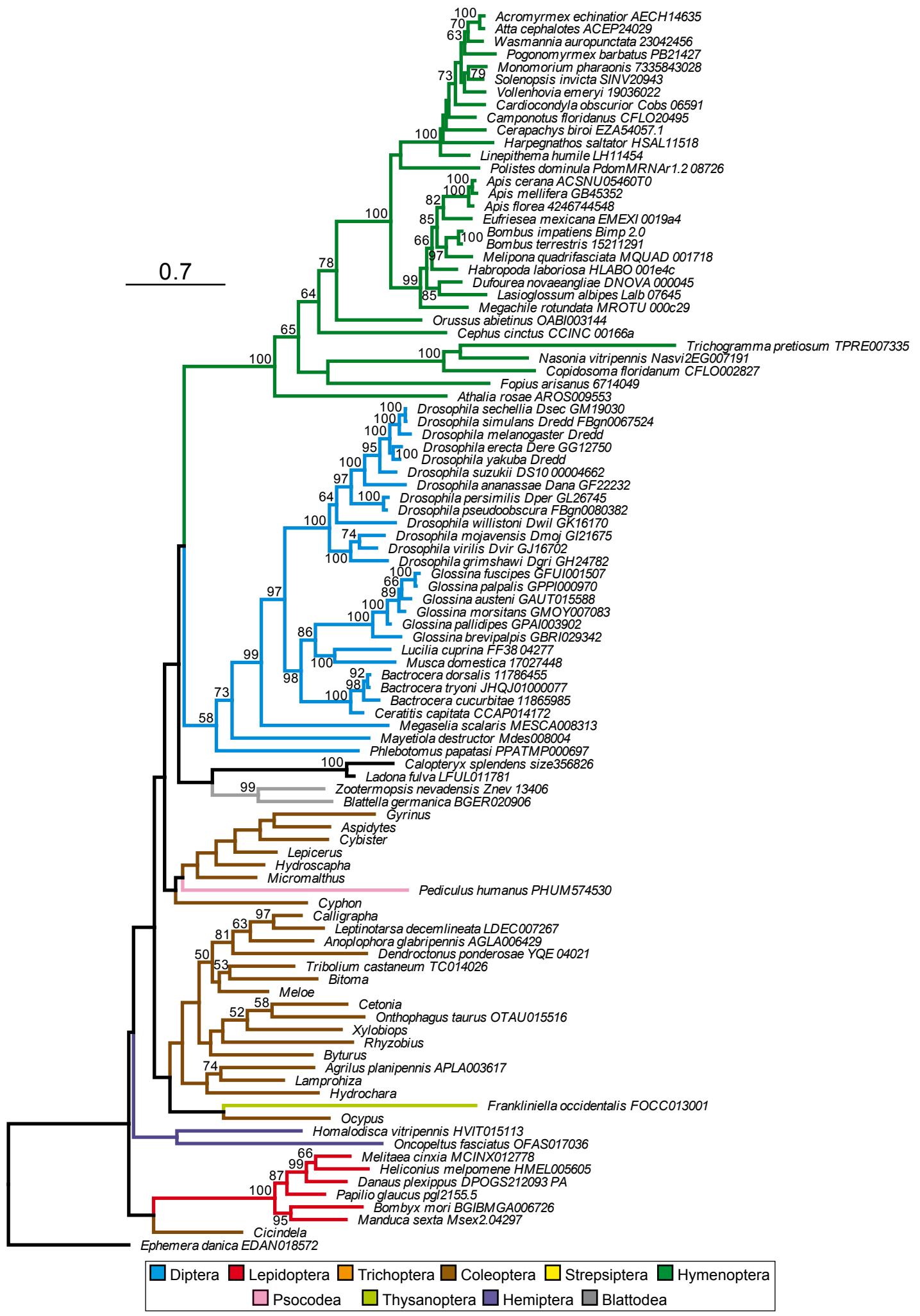
Dark



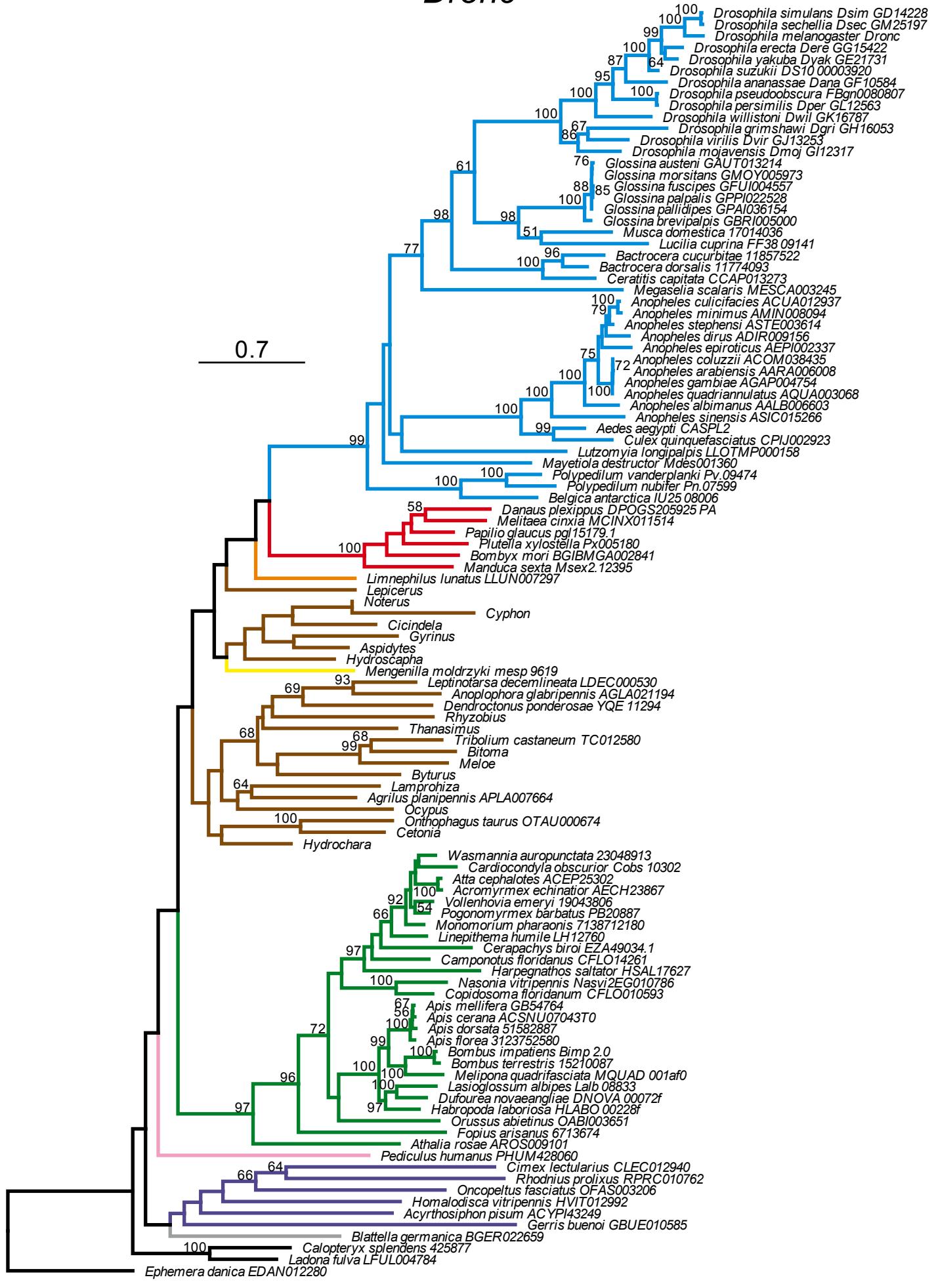
didum



Dredd

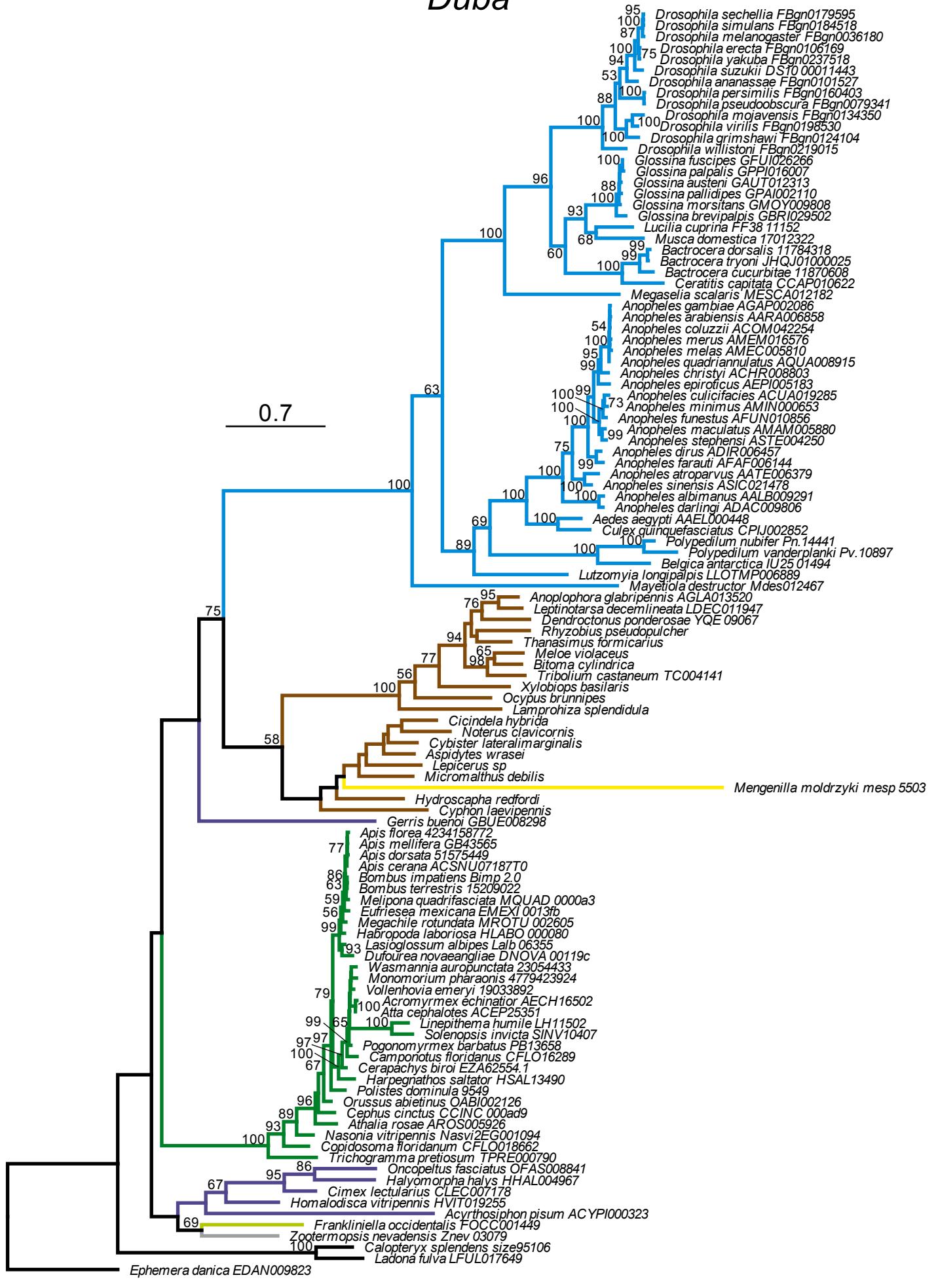


Dronc



█	Diptera	█	Lepidoptera	█	Trichoptera	█	Coleoptera	█	Strepsiptera	█	Hymenoptera
█	Psocodea			█	Thysanoptera	█	Hemiptera			█	Blattodea

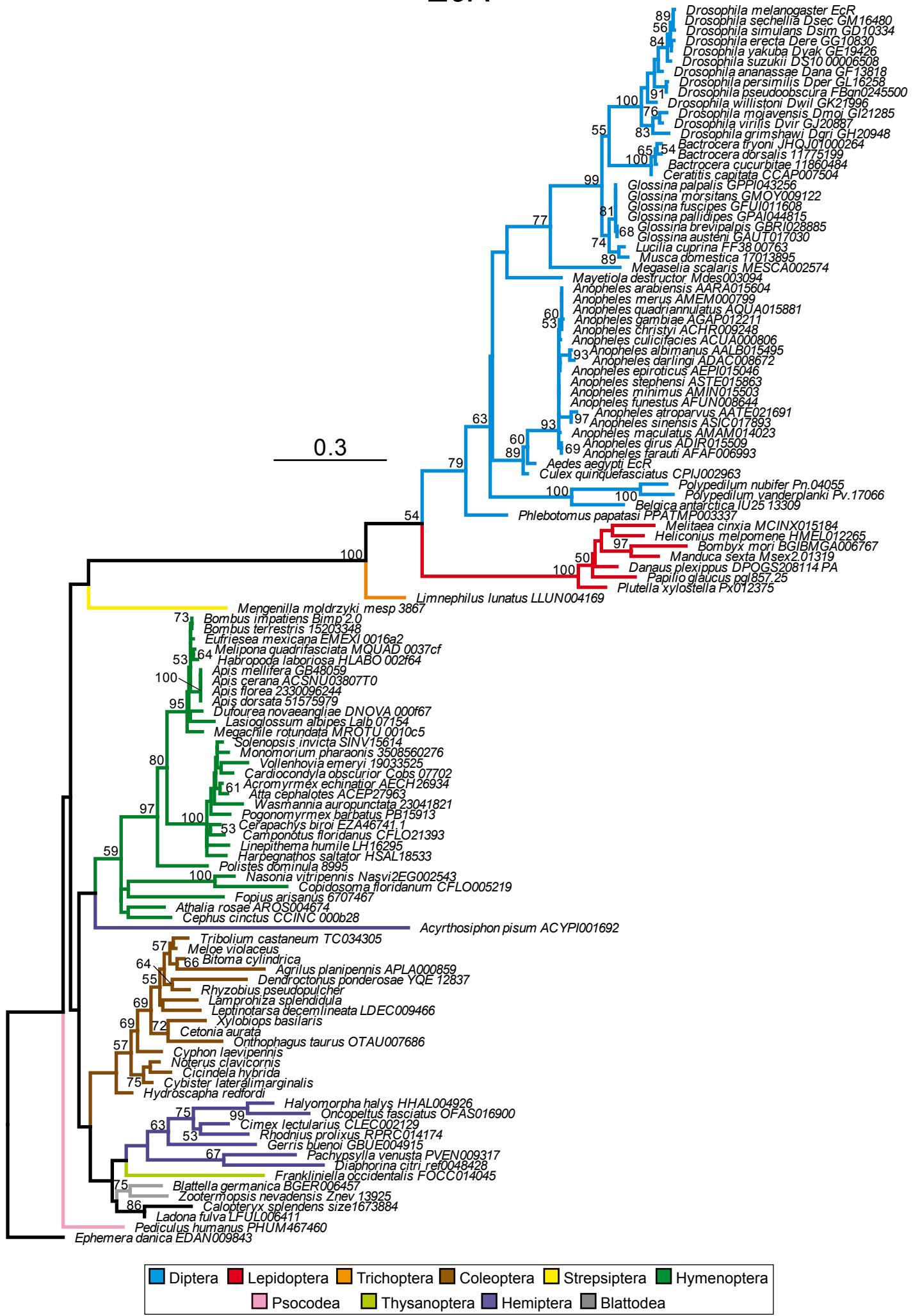
Duba



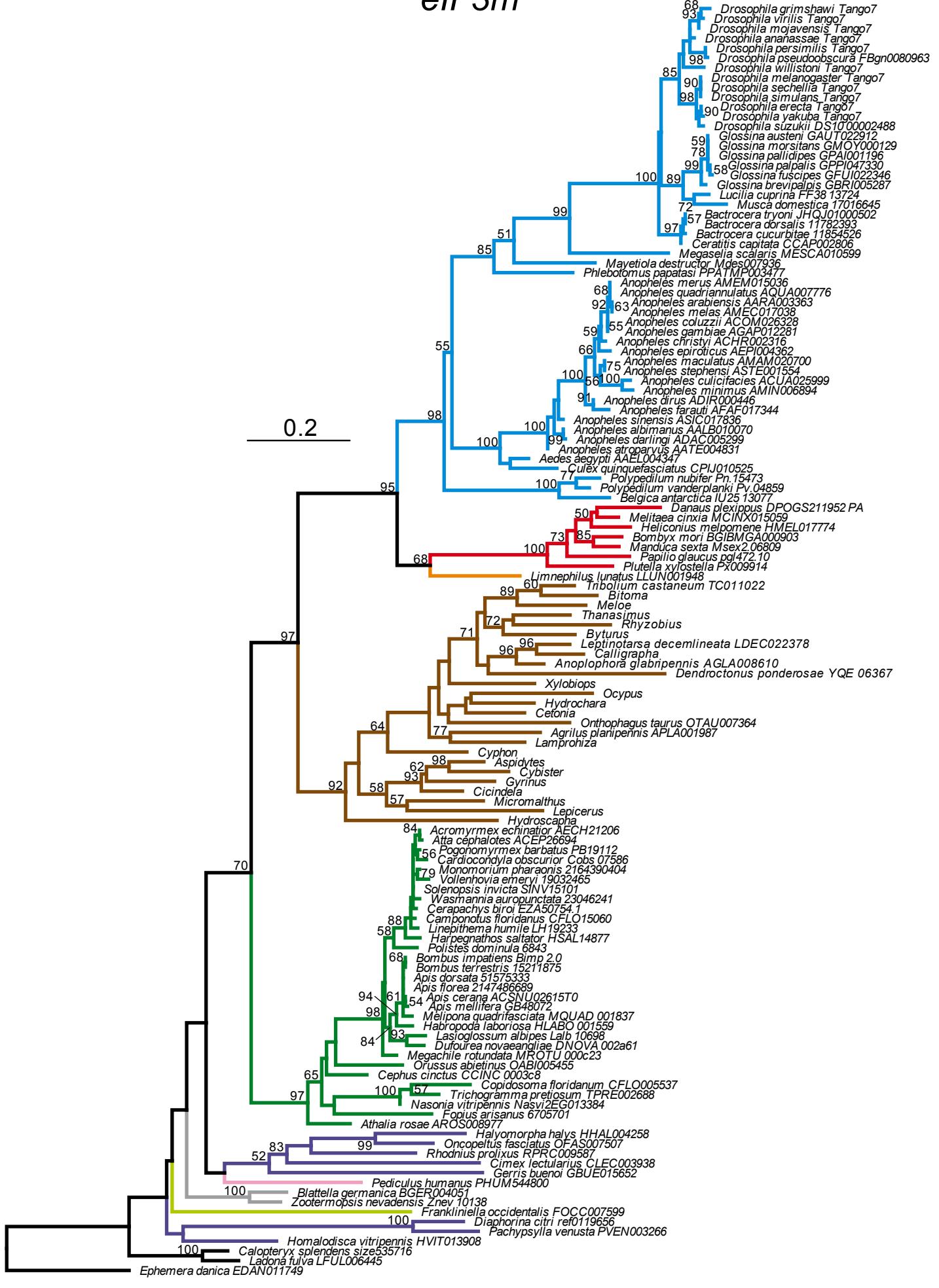
Legend:

- Diptera
- Lepidoptera
- Trichoptera
- Coleoptera
- Strepsiptera
- Hymenoptera
- Psocodea
- Thysanoptera
- Hemiptera
- Blattodea

EcR



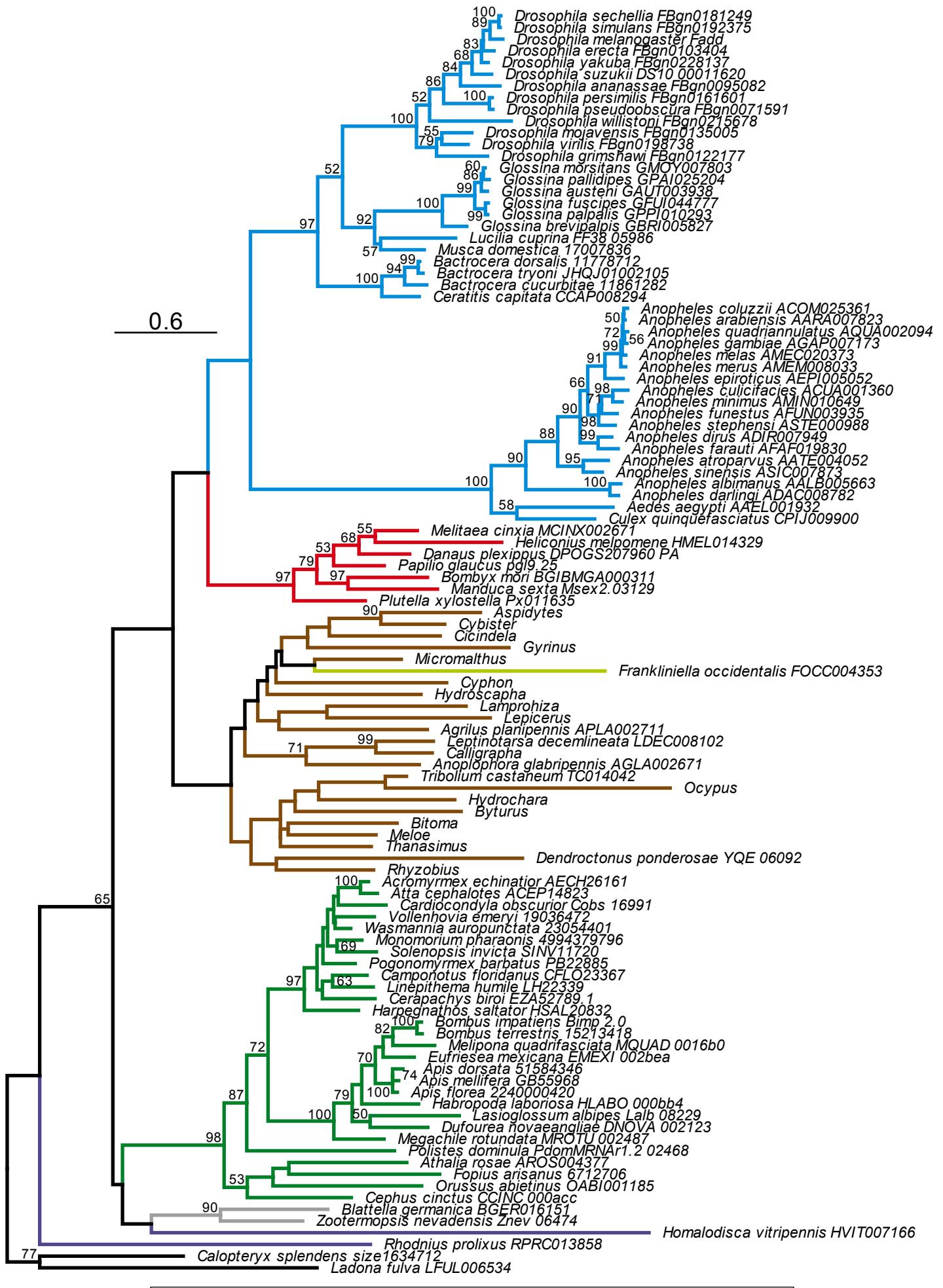
elF3m



Legend:

- Diptera
- Lepidoptera
- Trichoptera
- Coleoptera
- Strepsiptera
- Hymenoptera
- Psocodea
- Thysanoptera
- Hemiptera
- Blattodea

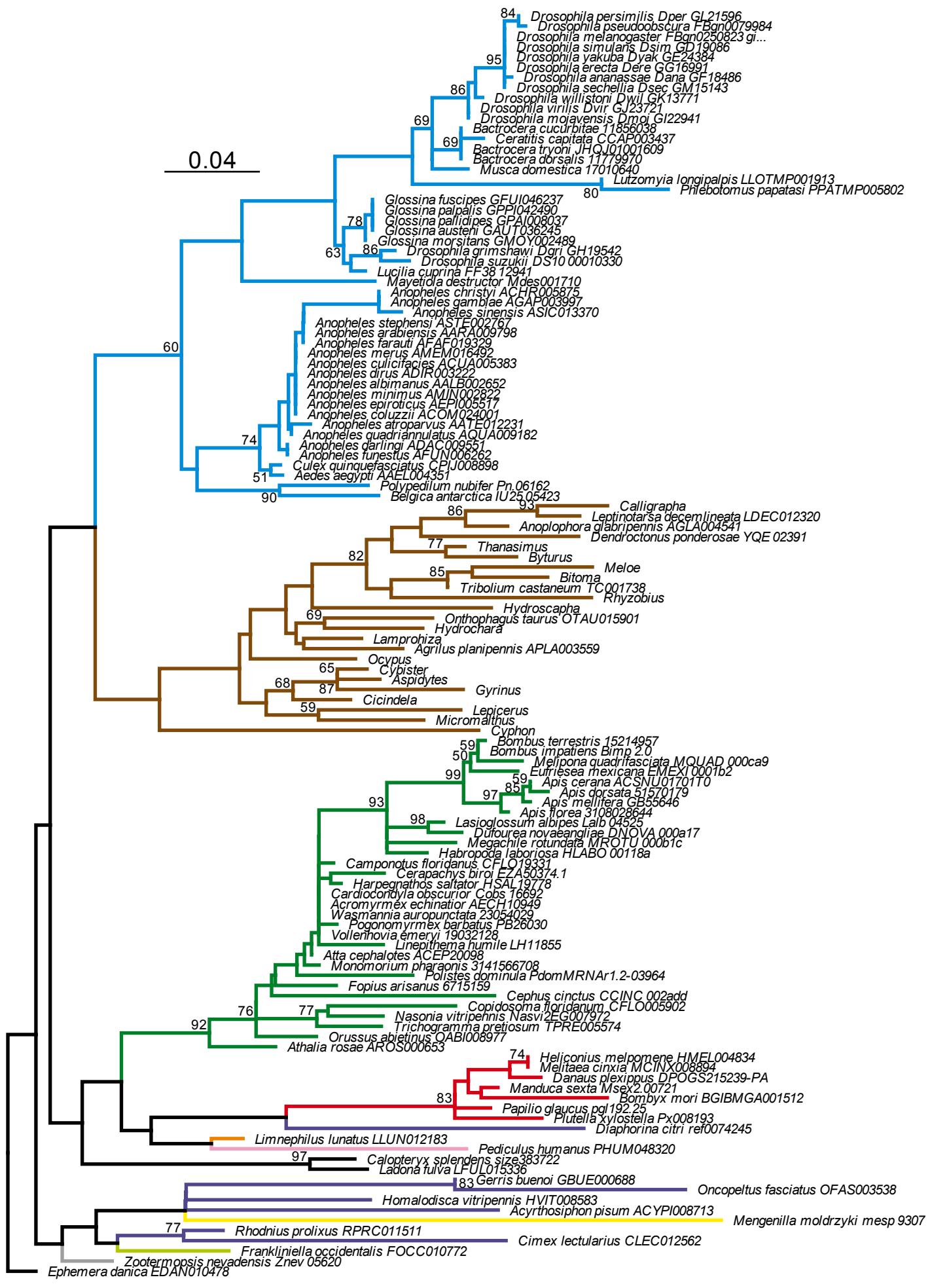
Fadd



Legend:

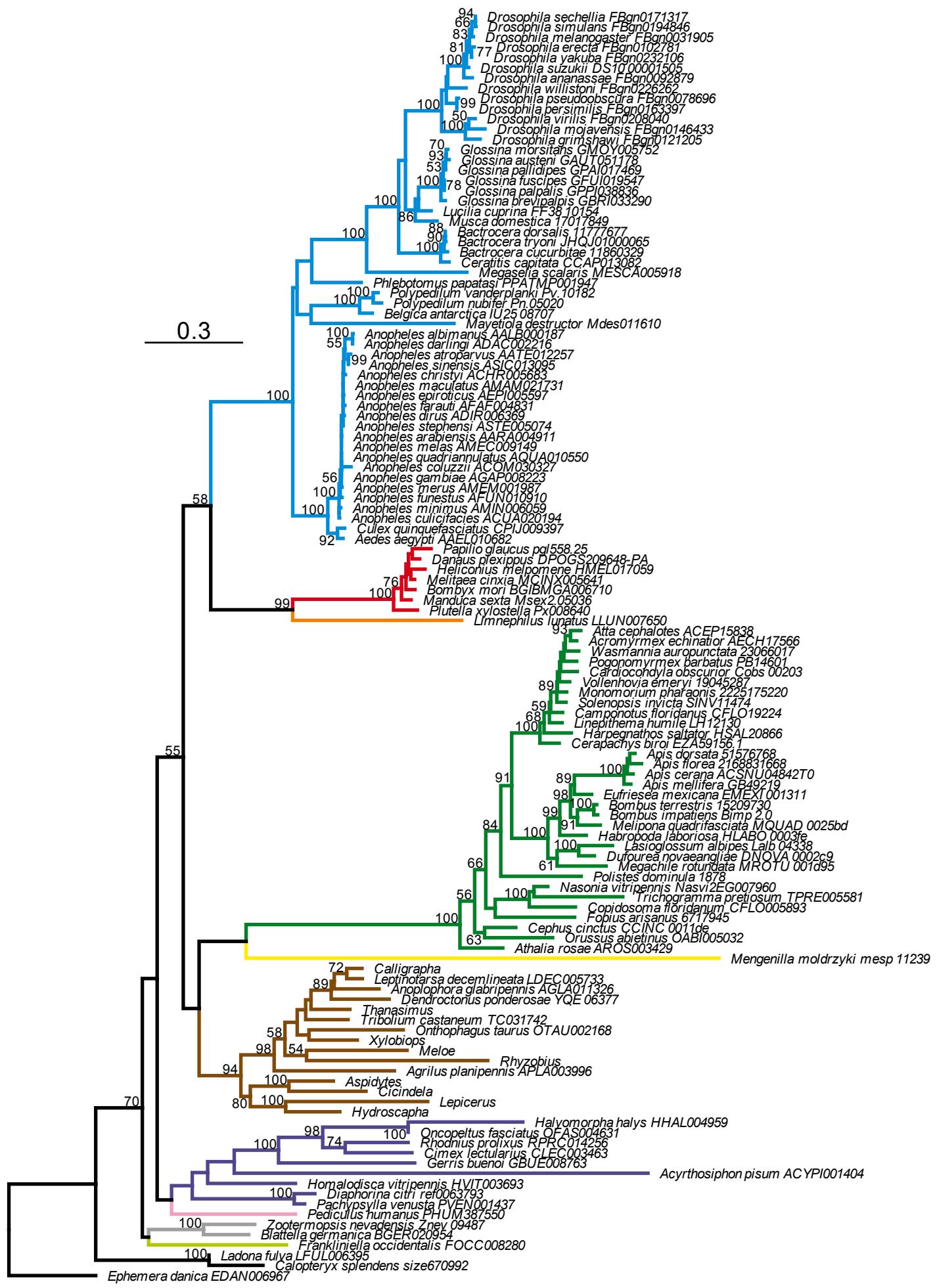
- Diptera
- Lepidoptera
- Trichoptera
- Coleoptera
- Strepsiptera
- Hymenoptera
- Psocodea
- Thysanoptera
- Hemiptera
- Blattodea

gish



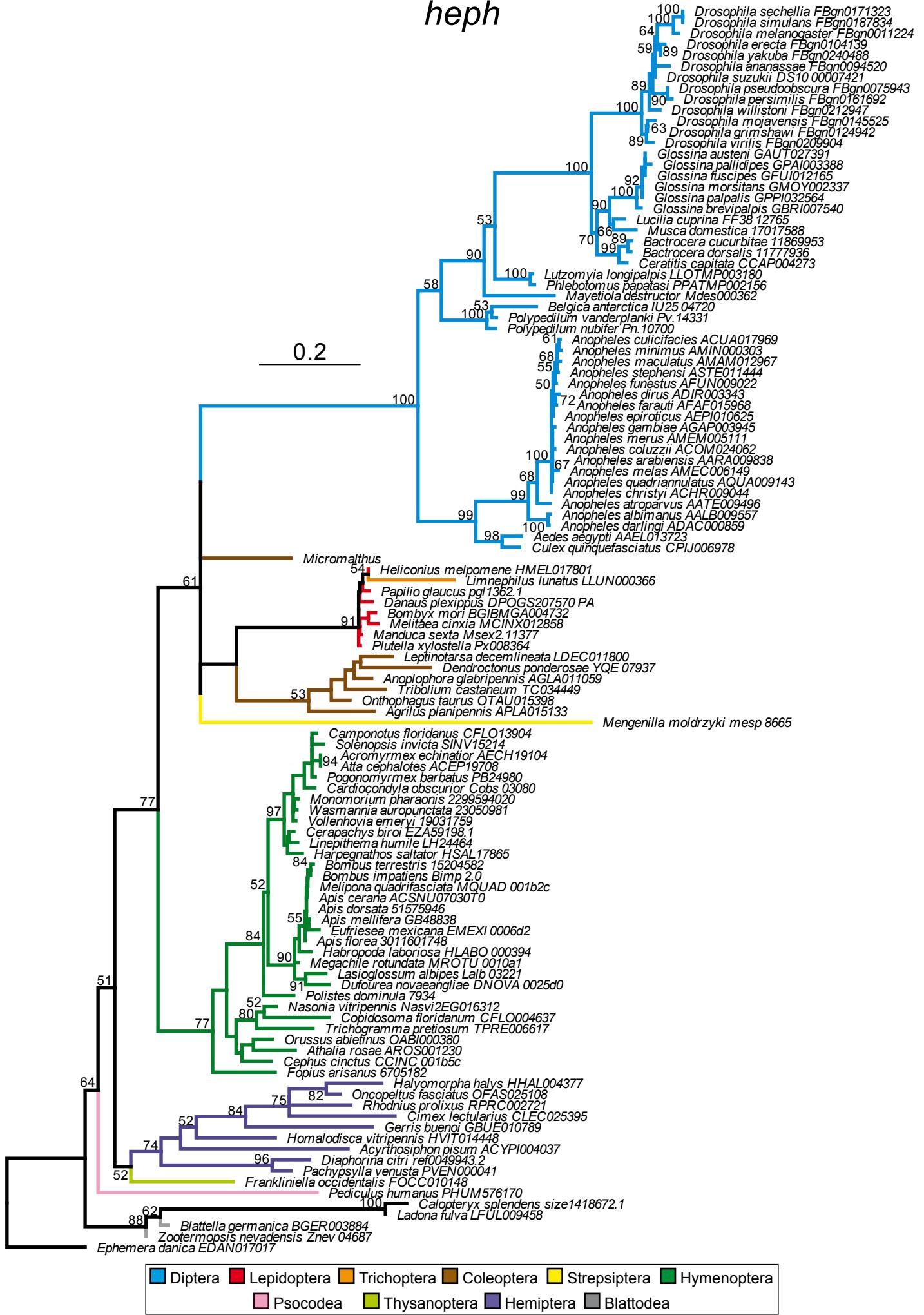
■ Diptera	■ Lepidoptera	■ Trichoptera	■ Coleoptera	■ Strepsiptera	■ Hymenoptera
■ Psocodea	■ Thysanoptera	■ Hemiptera	■ Blattodea		

gudu

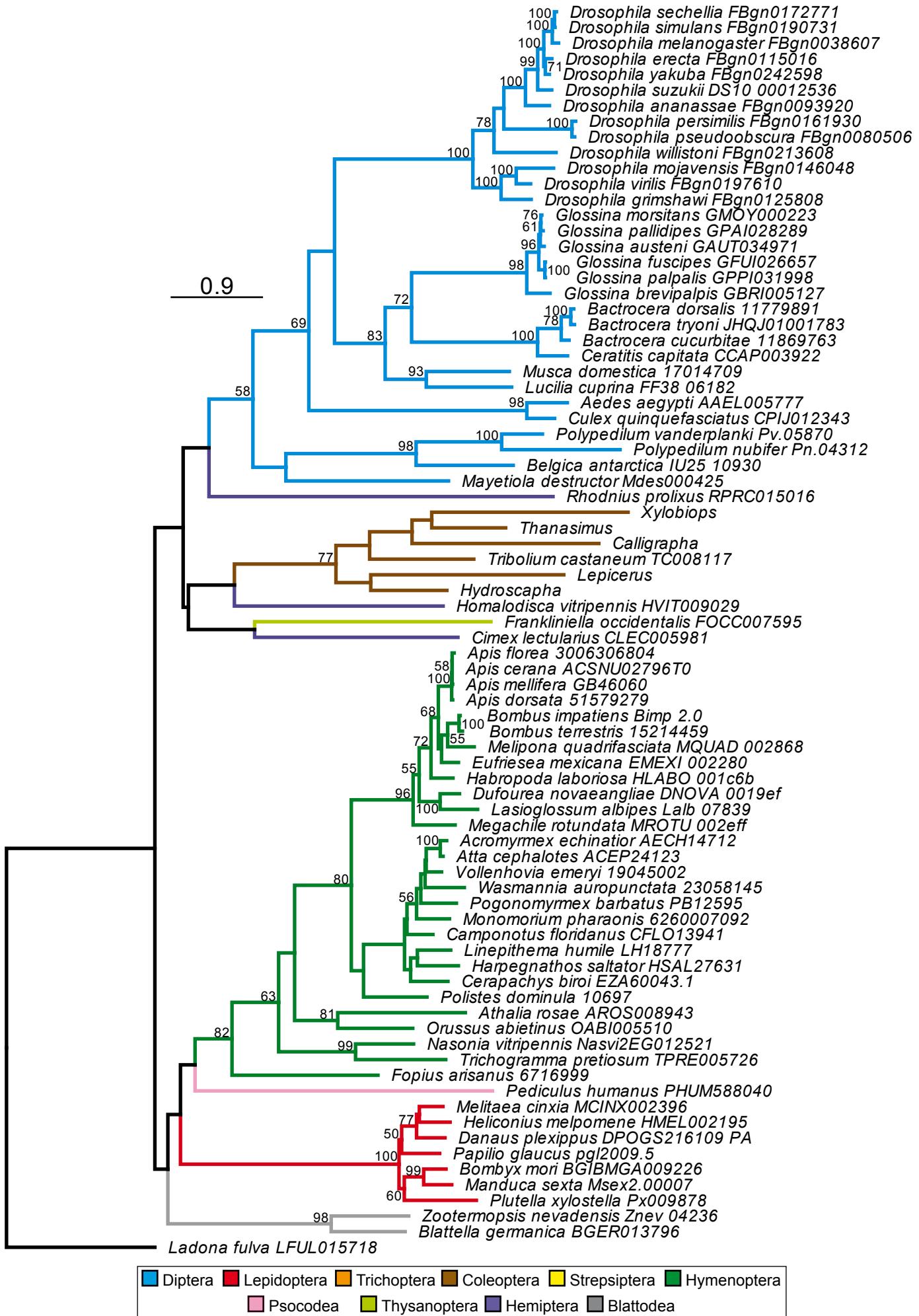


[■ Diptera ■ Lepidoptera ■ Trichoptera ■ Coleoptera ■ Strepsiptera ■ Hymenoptera
■ Psocodea ■ Thysanoptera ■ Hemiptera ■ Blattodea]

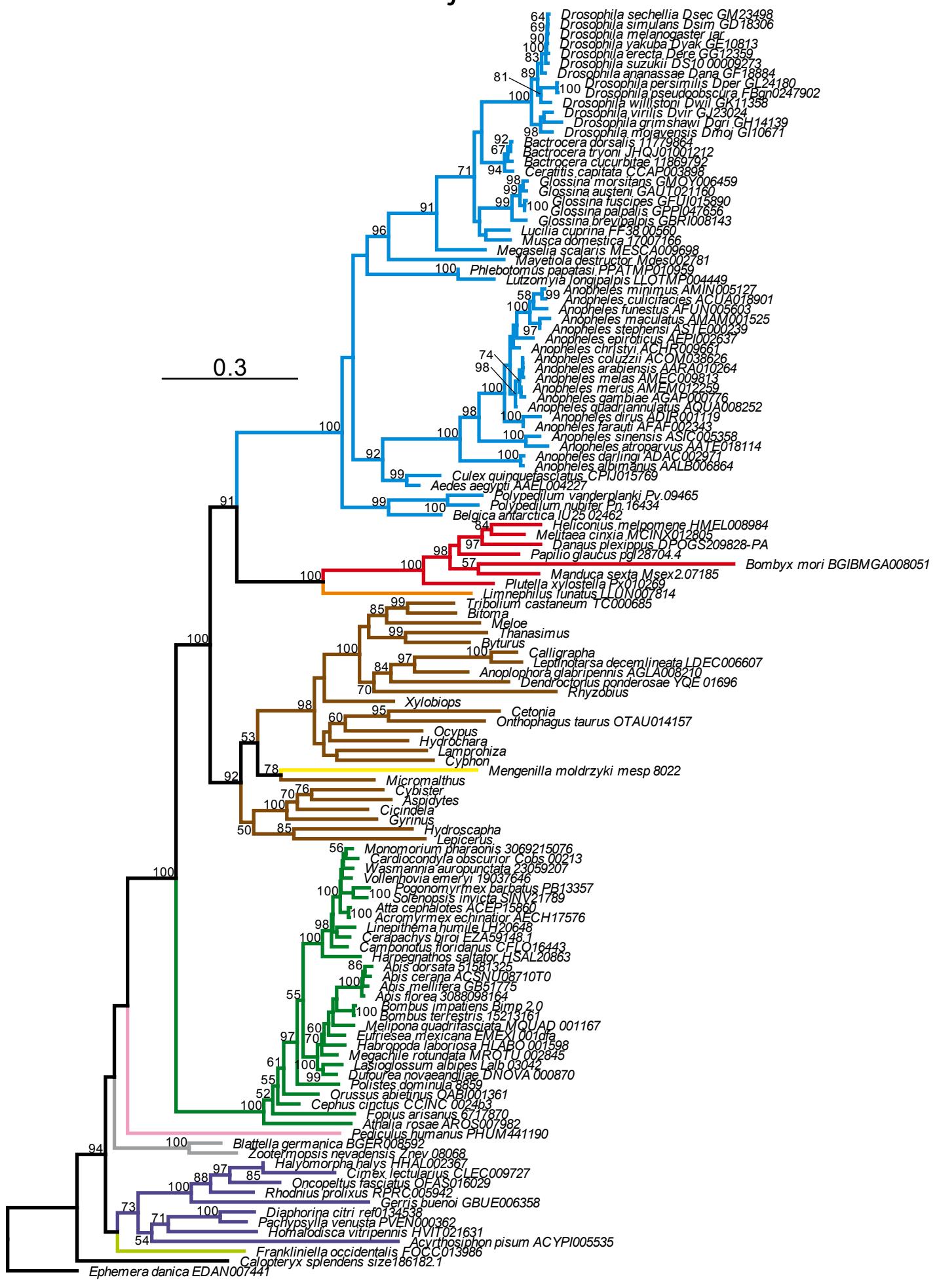
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hmw

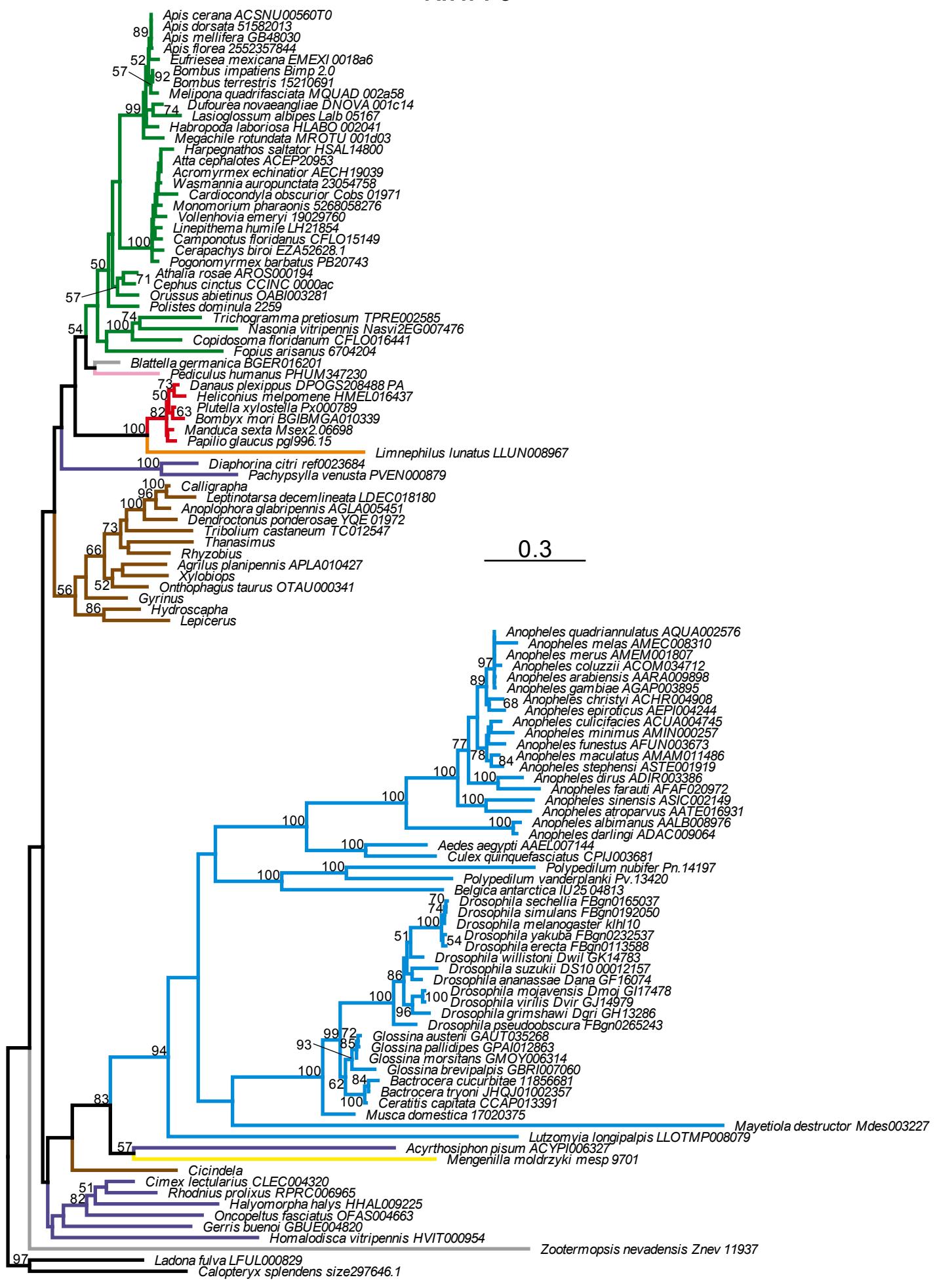


jar



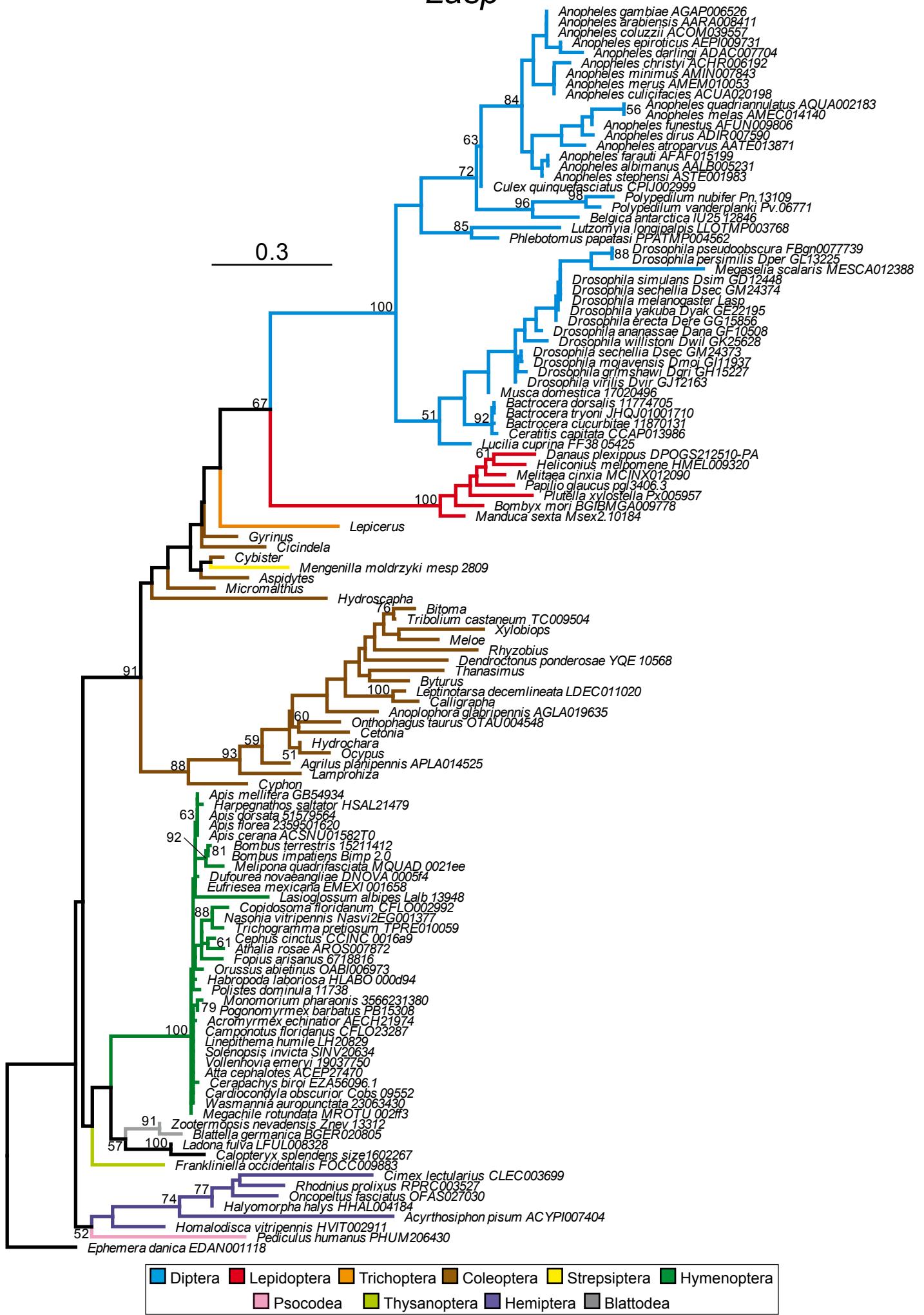
█ Diptera	█ Lepidoptera	█ Trichoptera	█ Coleoptera	█ Strepsiptera	█ Hymenoptera
█ Psocodea	█ Thysanoptera	█ Hemiptera	█ Blattodea		

klhl10

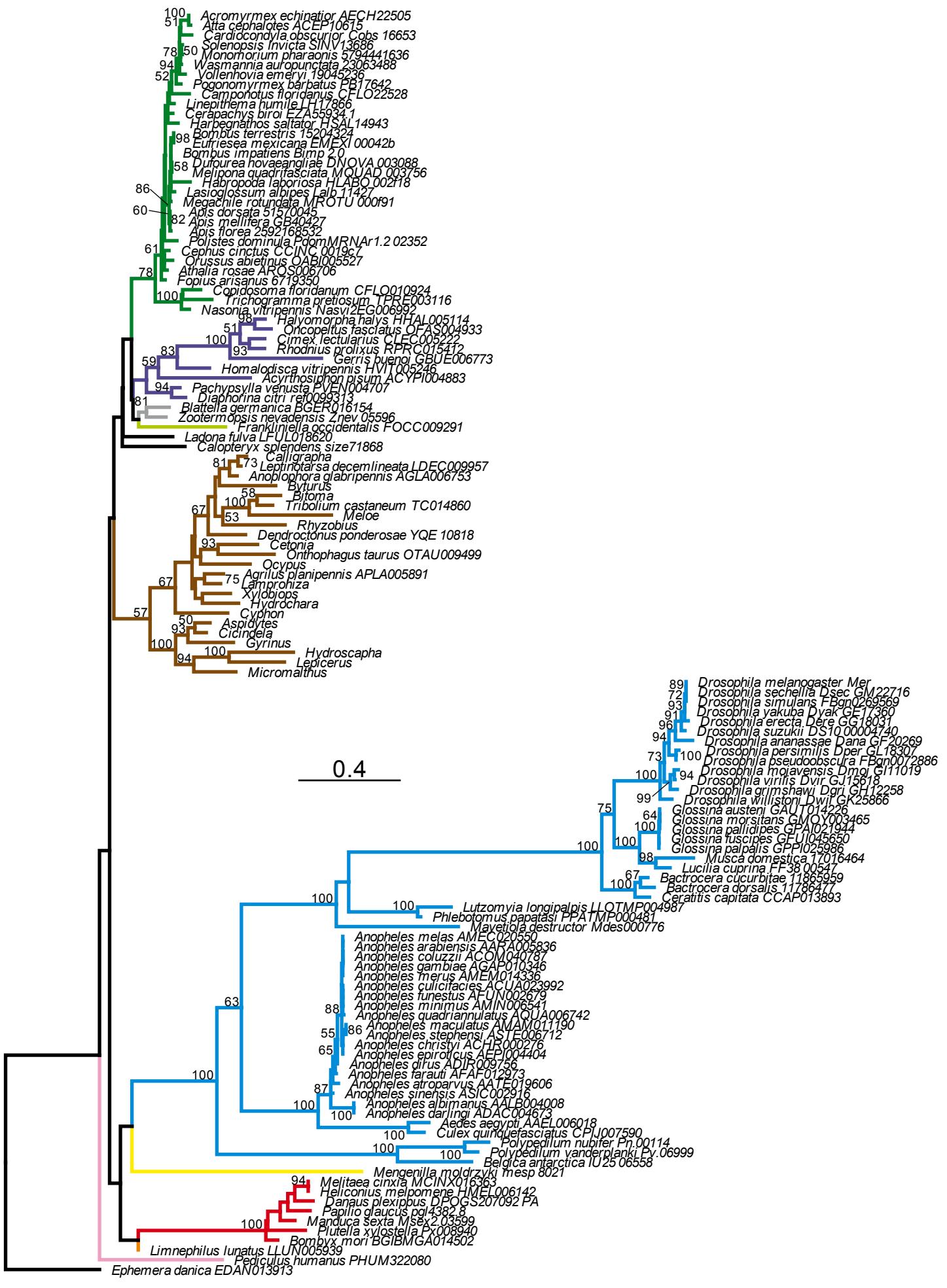


■ Diptera	■ Lepidoptera	■ Trichoptera	■ Coleoptera	■ Strepsiptera	■ Hymenoptera
■ Psocodea	■ Thysanoptera	■ Hemiptera	■ Blattodea		

Lasp



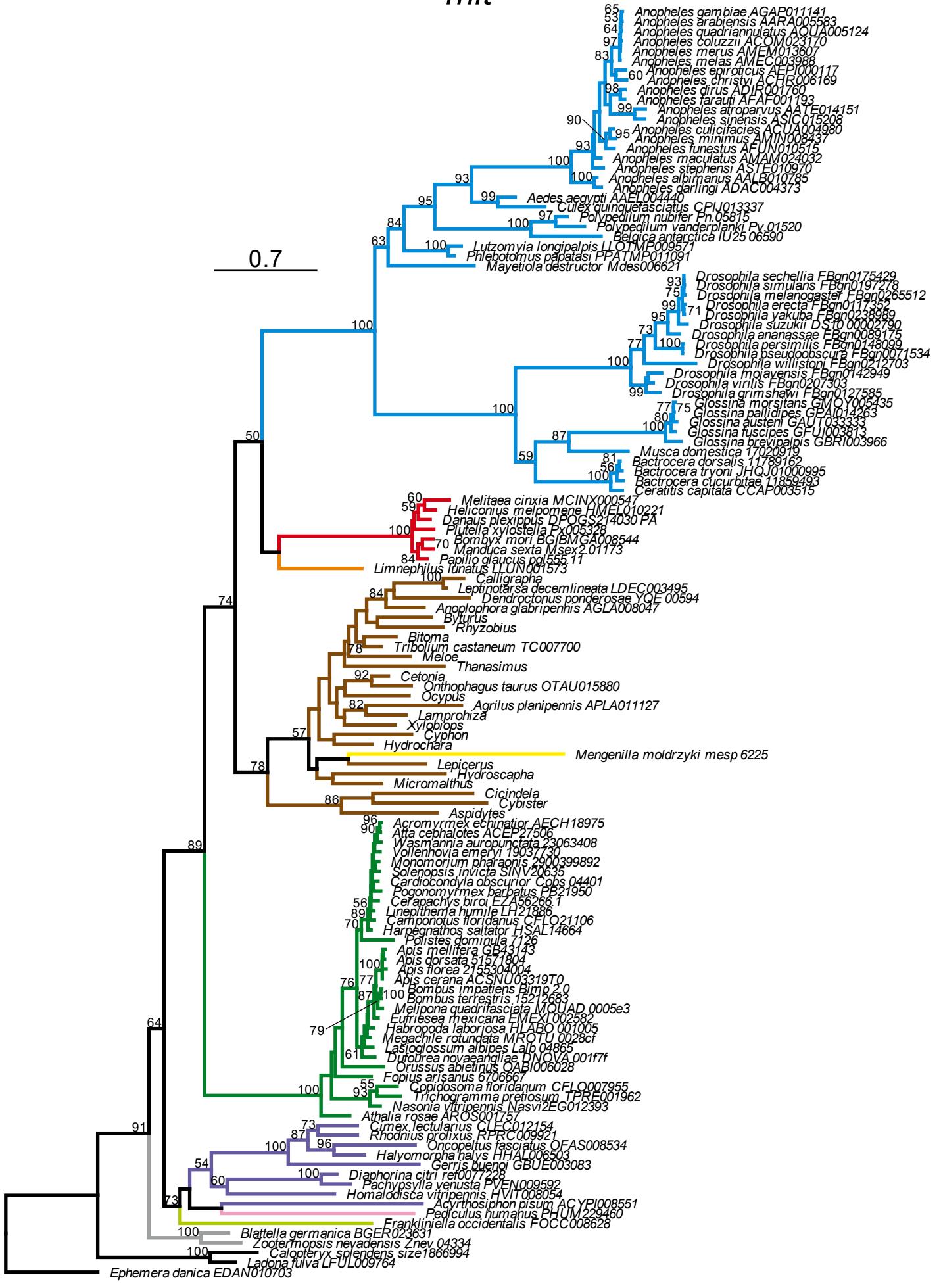
Mer



Legend:

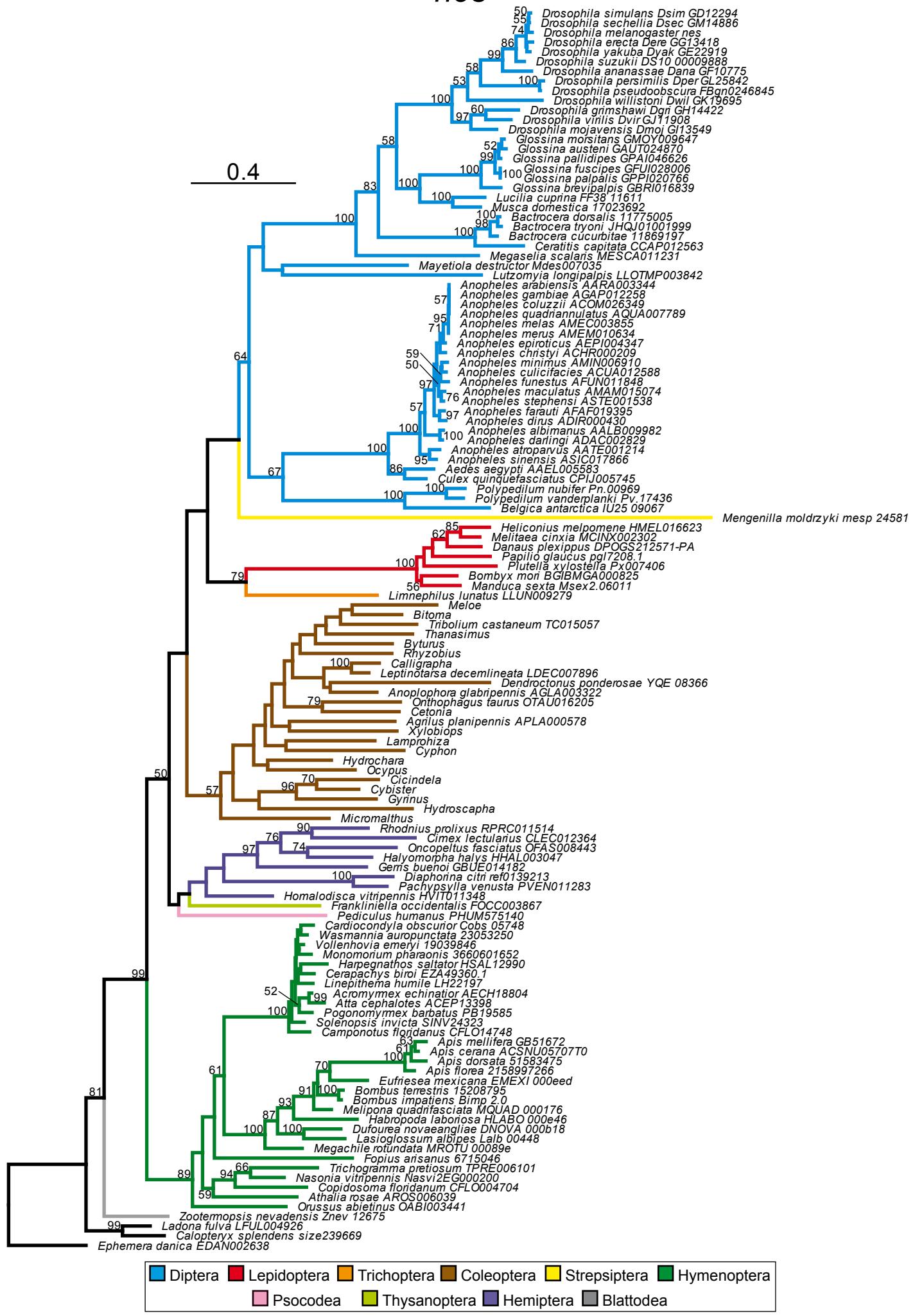
- Diptera
- Lepidoptera
- Trichoptera
- Coleoptera
- Strepsiptera
- Hymenoptera
- Psocodea
- Thysanoptera
- Hemiptera
- Blattodea

mlt

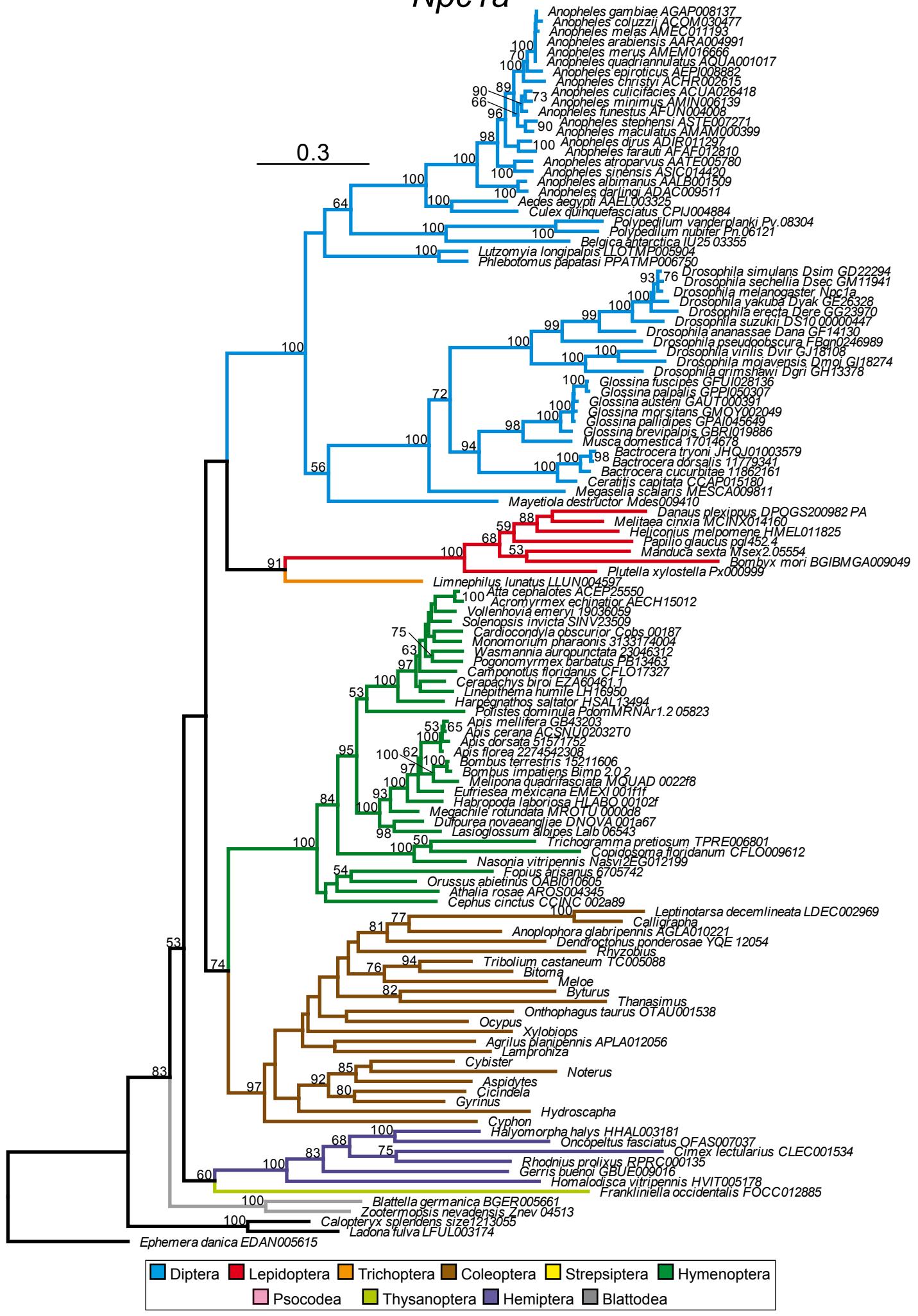


■ Diptera	■ Lepidoptera	■ Trichoptera	■ Coleoptera	■ Strepsiptera	■ Hymenoptera
■ Psocodea	■ Thysanoptera	■ Hemiptera	■ Blattodea		

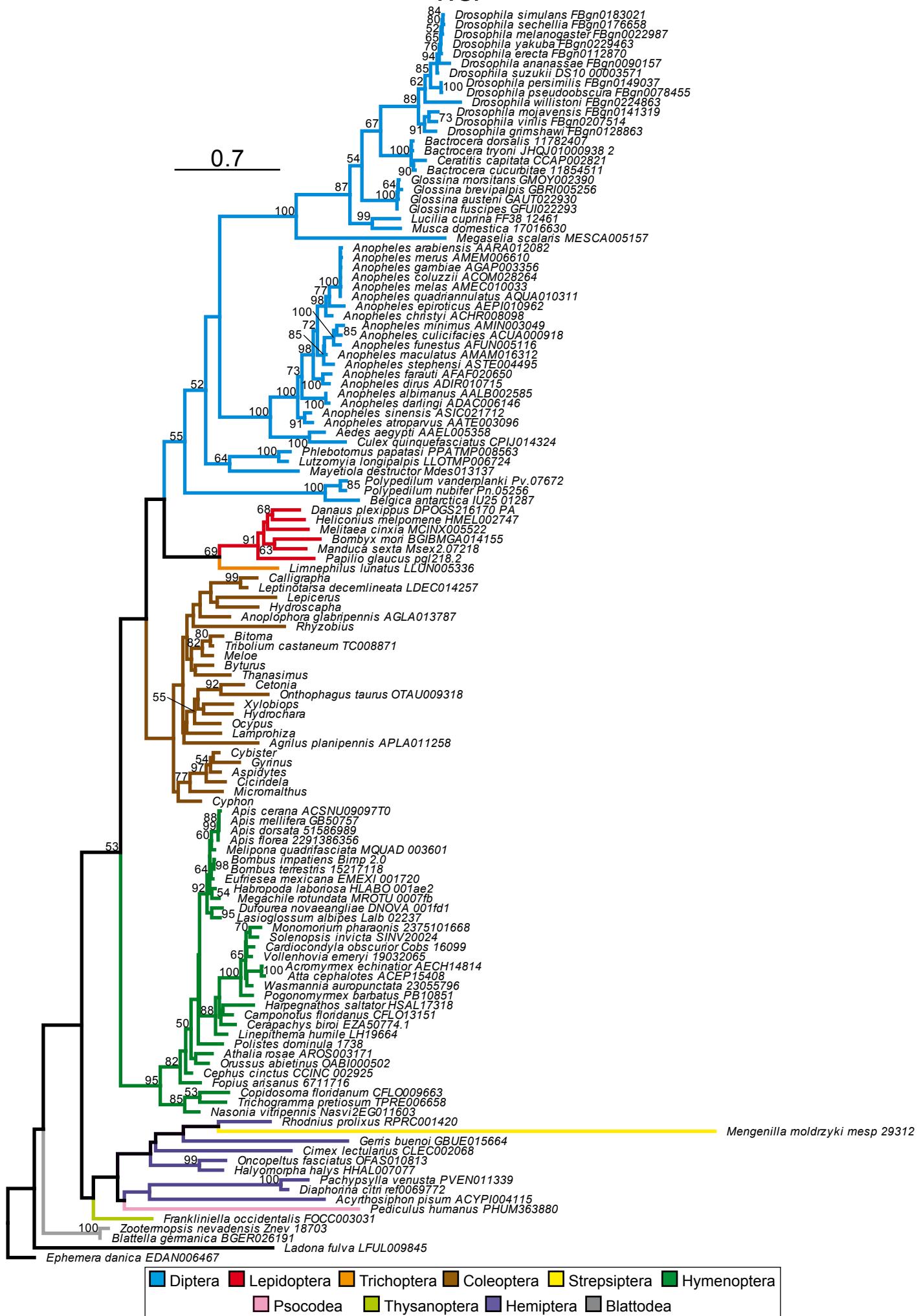
nes



Npc1a



nsr



orb2

Anopheles dirus ADIR006657
 Anopheles epipotius AEP005338
 Anopheles coluzzii ACOM041902
 Anopheles gambiae AGAP002296
 Anopheles melas AMEC021969
 Anopheles merus AMEM017168
 Anopheles farauti AFAF012177
 Anopheles funestus AFUN001997
 Anopheles minimus AMIN004575
 Anopheles stephensi ASTE003483
 Anopheles culicifacies ACUA023446
 Anopheles quadriannulatus AQUA010876
 Anopheles christyi ACHR008091
 91 Anopheles albimanus AALB008613
 Anopheles darlingi ADAC001193
 Anopheles arabiensis AAR004081
 Anopheles maculatus AMAM022187
 Anopheles sinensis ASIC014867
 Anopheles atroparvus AATE016398
 Aedes aegypti AAEL012065
 Culex quinquefasciatus CPIJ009440

100

77

97

99

84

Belgica antarctica IU25 13498

Glossina austeni GAUT025663

Glossina fuscipes GFUI018144

Glossina morsitans GMOY010451

Glossina palpalis GPP037833

Glossina pallidipes GPAI024664

Glossina brevipalpis GBR1027586

Bactrocera dorsalis 11779599

Bactrocera tryoni JHQJ01001186

Ceratitis capitata CCAP003074

Drosophila melanogaster FBgn0264307 or...

Drosophila sechellia FBgn0179766

Drosophila suzukii DS10 000003792

Drosophila yakuba FBgn0275516

Drosophila willistoni FBgn0219459

Drosophila grimshawi FBgn0123602

Drosophila persimilis FBgn0158403

Megaselia scalaris MESCA007700

0.07

Mayetiola destructor Mdes019398

97 Lutzomyia longipalpis LLOTMP005395

Phlebotomus papatasi PPATMP003779

Mengenilla moldrzyki mesp 8403

85 Heliconius melpomene HMELO14405

80 Melitaea cinxia MCINX010852

63 Danaus plexippus DPOGS204606 PA

63 Papilio glaucus pg13298.8

100 Manduca sexta Msix2.10728

Bombyx mori BGIBMGA001827

Limnephilus lunatus LLUN003351

Frankliniella occidentalis FOCC016969

Anoplophora glabripennis AGLA000375

Leptinotarsa decemlineata LDEC001560

Dendroctonus ponderosae YQE 06700

Onthophagus taurus OTAU001260

Tribolium castaneum TC031499

Agrilus planipennis APLA010005

98 Diaphorina citri ref0147107

Pachypsylia venusta PVEN001967

Lepicerus

Acromyrmex echinatior AECH13687

Atta cephalotes ACEP23096

Camponotus floridanus CFLO12111

Cardiocondyla obscurior Cobs 12213

Cerapachys biroi EZA53226.1

Harpegnathos saltator HSAL15906

Linepithema humile LH16705

Monomorium pharaonis 2147516769

Solenopsis invicta SINV19391

Vollenhovia emeryi 19034006

Cephus cinctus CCINC 001bdf

Orussus abietinus OABI005596

Wasmannia auropunctata 23055104

Polistes dominula PdomMRNAR1.2 05475

Pogonomyrmex barbatus PB10539

Bombus terrestris 15207156

Dufourea novaeangliae DNOVA 0016b0

Lasioglossum albipes Lalb 05811

Melipona quadrifasciata MQUAD 0039a9

Eufriesea mexicana EMEXI 00150f

Apis dorsata 51576810

Apis florea 2168831476

Apis mellifera GB49233

Megachile rotundata MROTU 00149b

Habropoda laboriosa HLABO 000b08

Bombus impatiens Bimp 2.0

Homalodisca vitripennis HVIT004463

Cimex lectularius CLEC006750

Rhodnius prolixus RPRC001021

Blattella germanica BGER003063

Zootermopsis nevadensis Znev 18107

Athalia rosae AROS002379

Nasonia vitripennis Nasvi2EG015611

Fopius arisanus 6711800

Acyrthosiphon pisum ACYPI006748

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Oncopeltus fasciatus OFAS018487

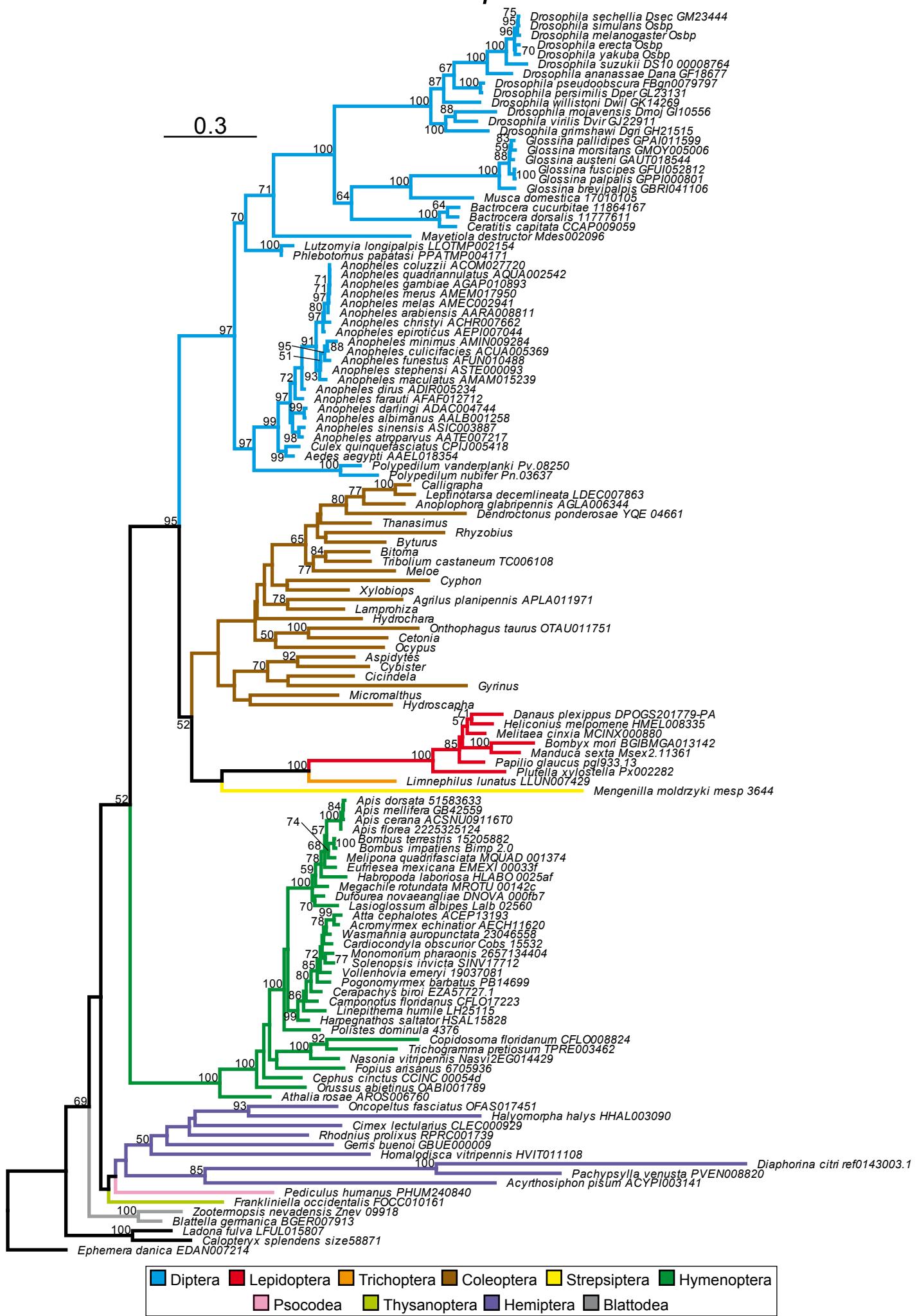
82 Ladona fulva LFUL008389

Calopteryx splendens size660018

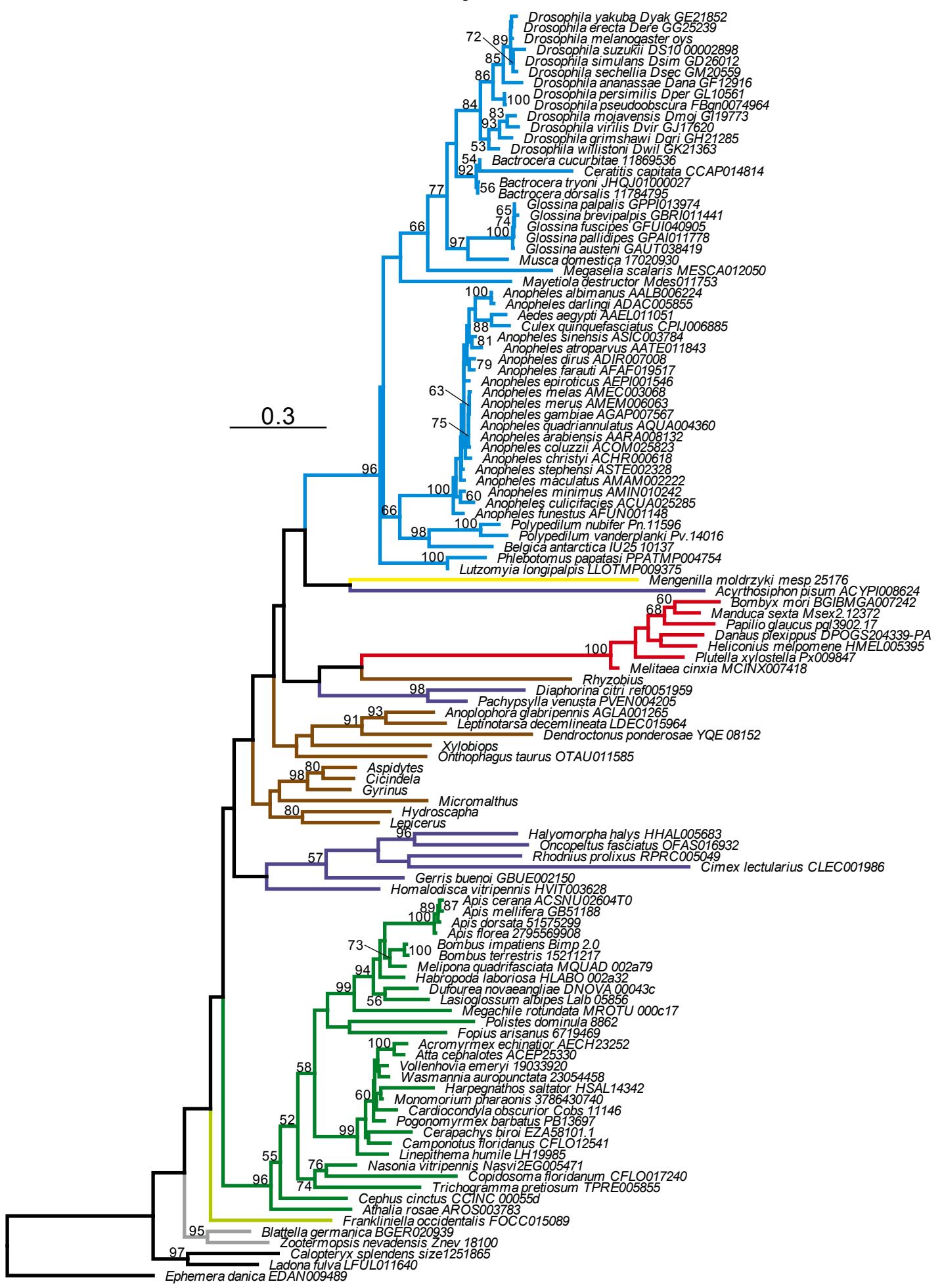
Ephemera danica EDAN007652



Osbp

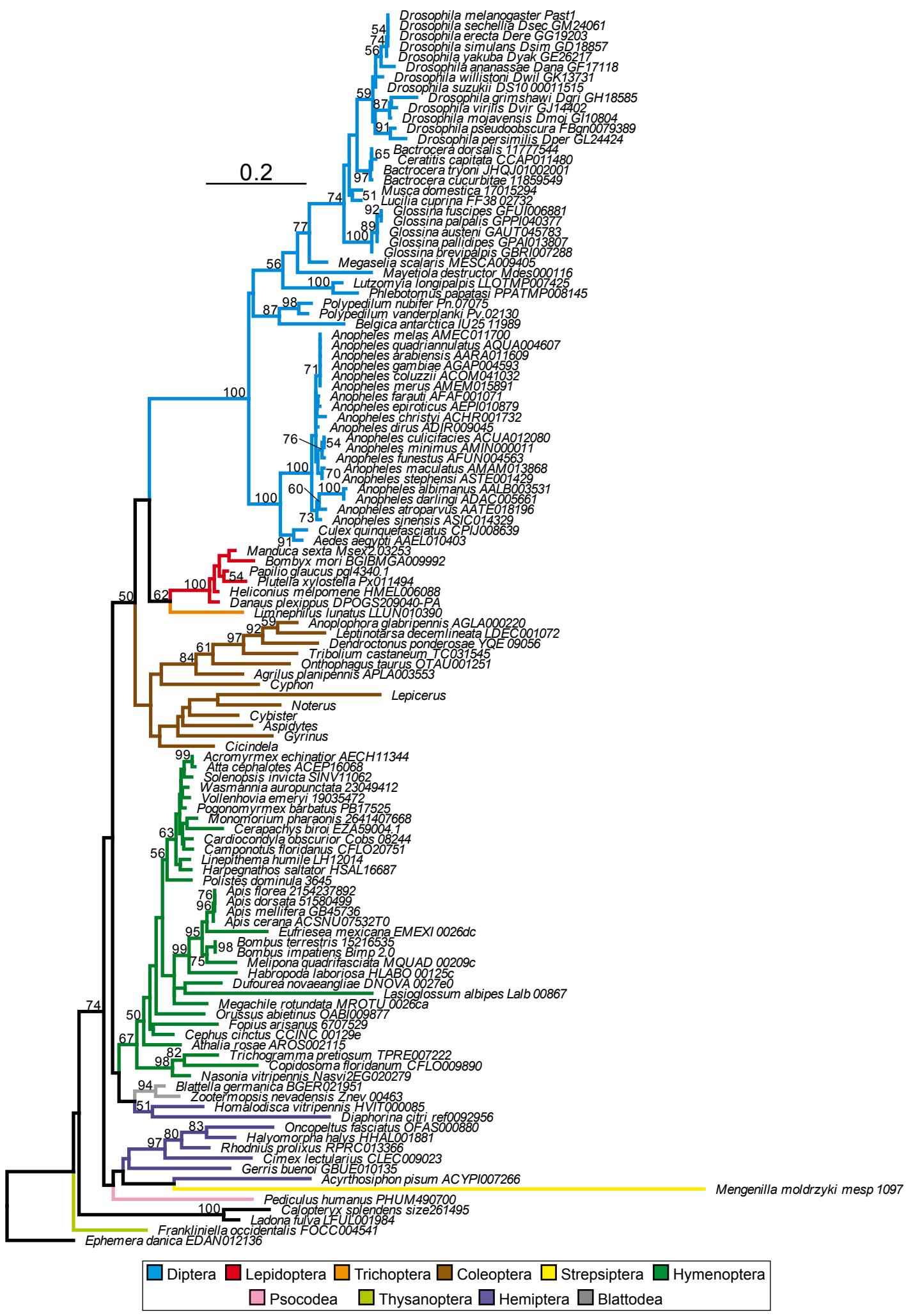


OYS

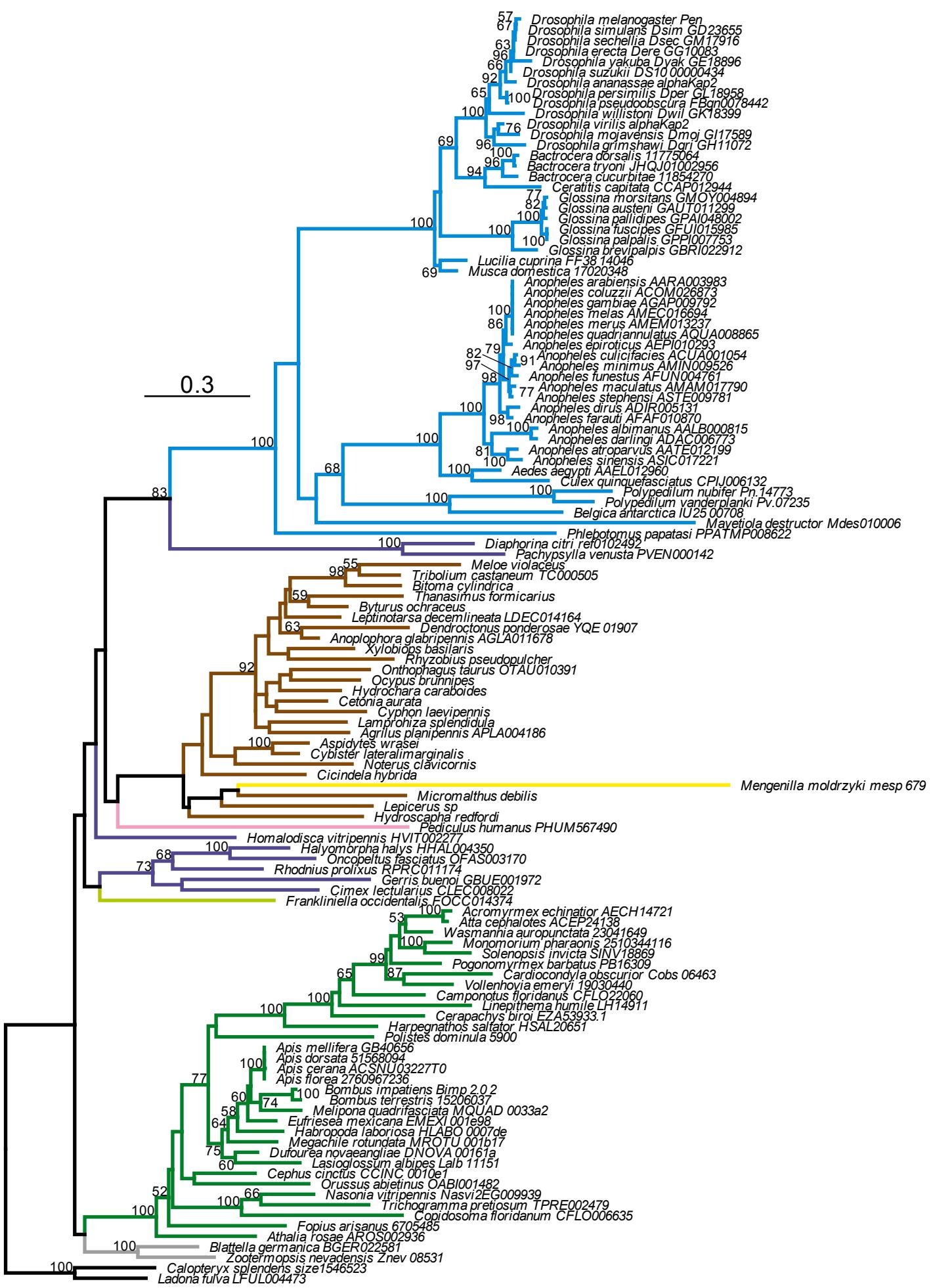


█ Diptera	█ Lepidoptera	█ Trichoptera	█ Coleoptera	█ Strepsiptera	█ Hymenoptera
█ Psocodea	█ Thysanoptera	█ Hemiptera	█ Blattodea		

Past1

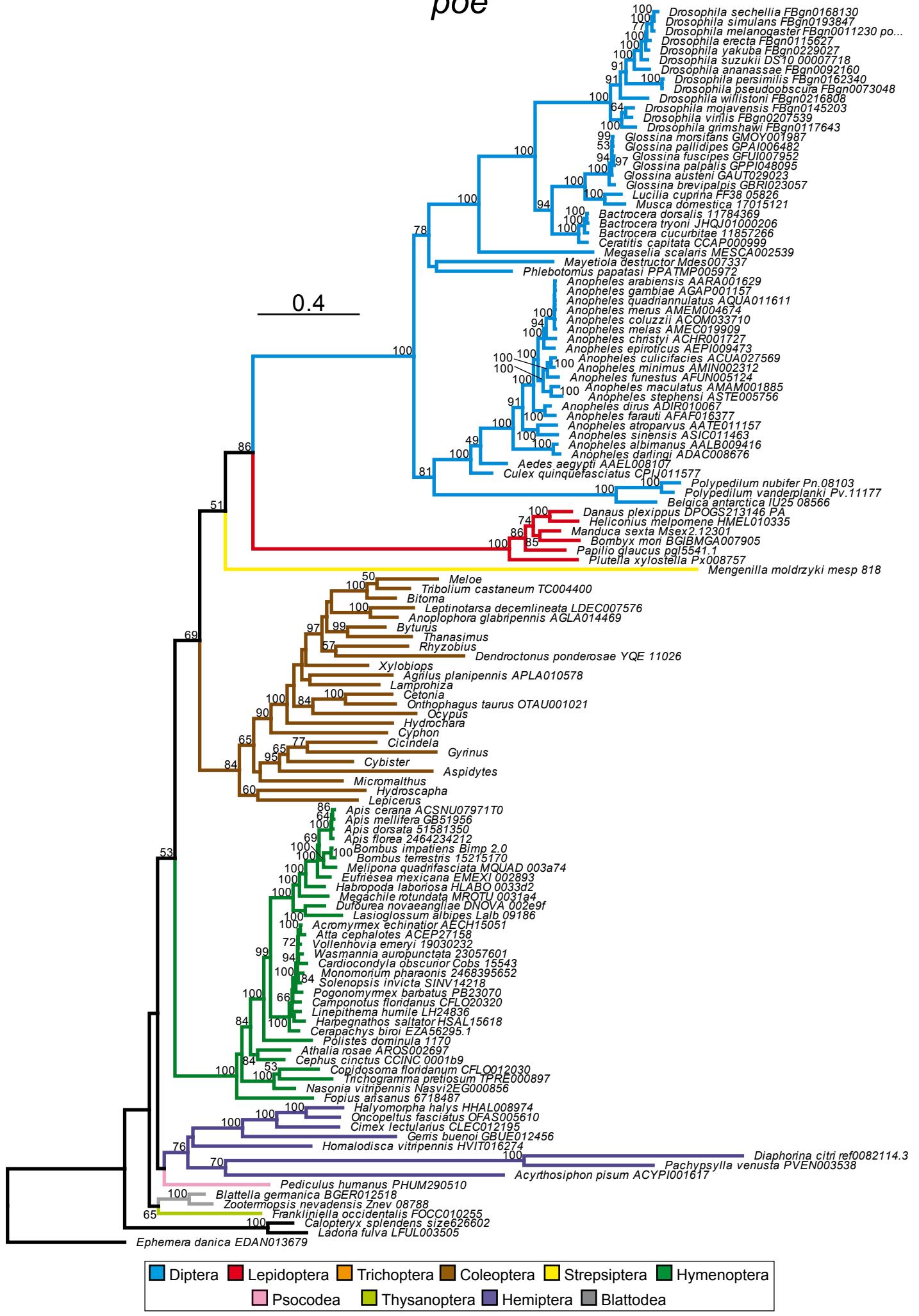


Pen

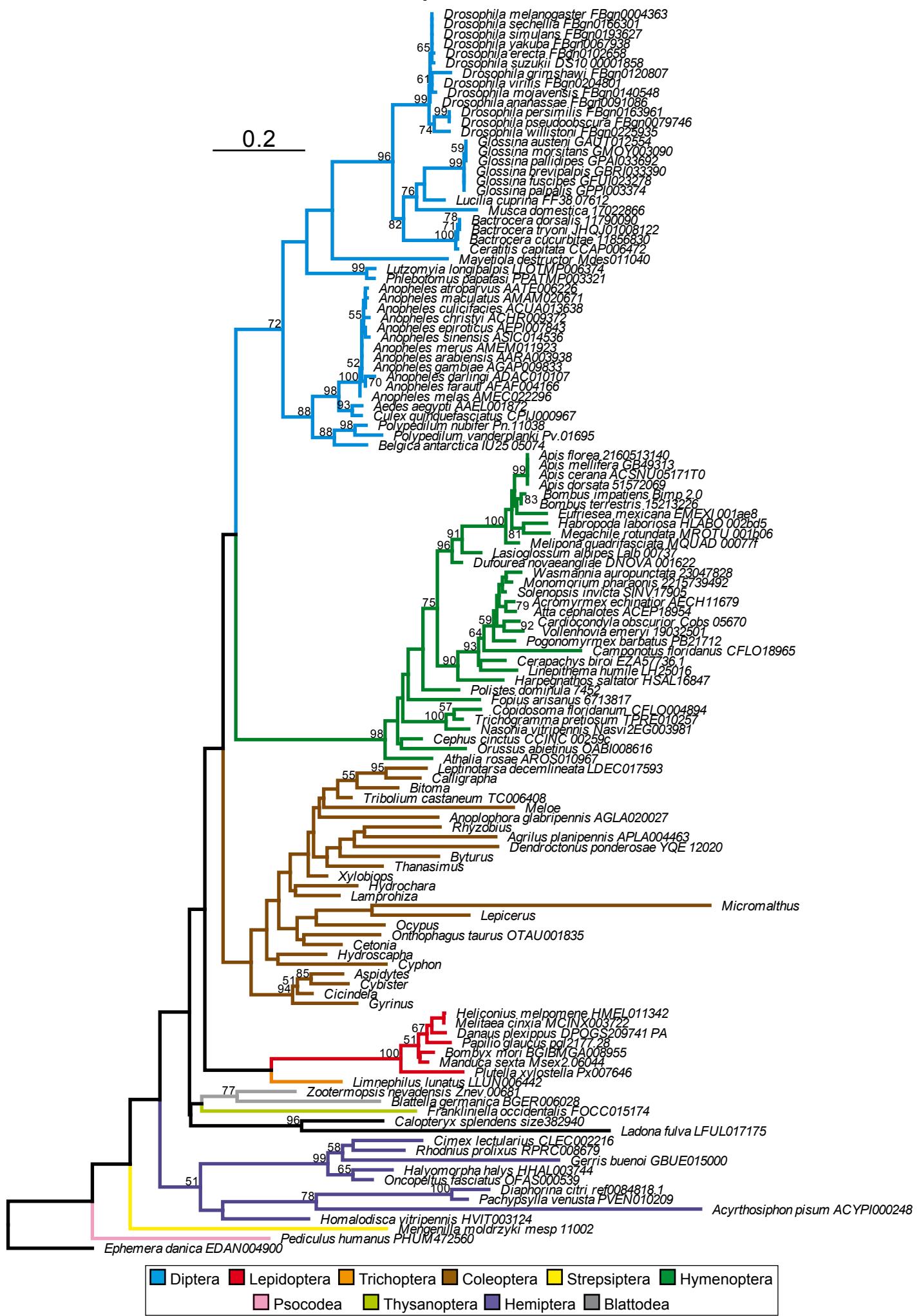


■	Diptera	■	Lepidoptera	■	Trichoptera	■	Coleoptera	■	Strepsiptera	■	Hymenoptera
■	Psocodea	■	Thysanoptera	■	Hemiptera	■	Blattodea				

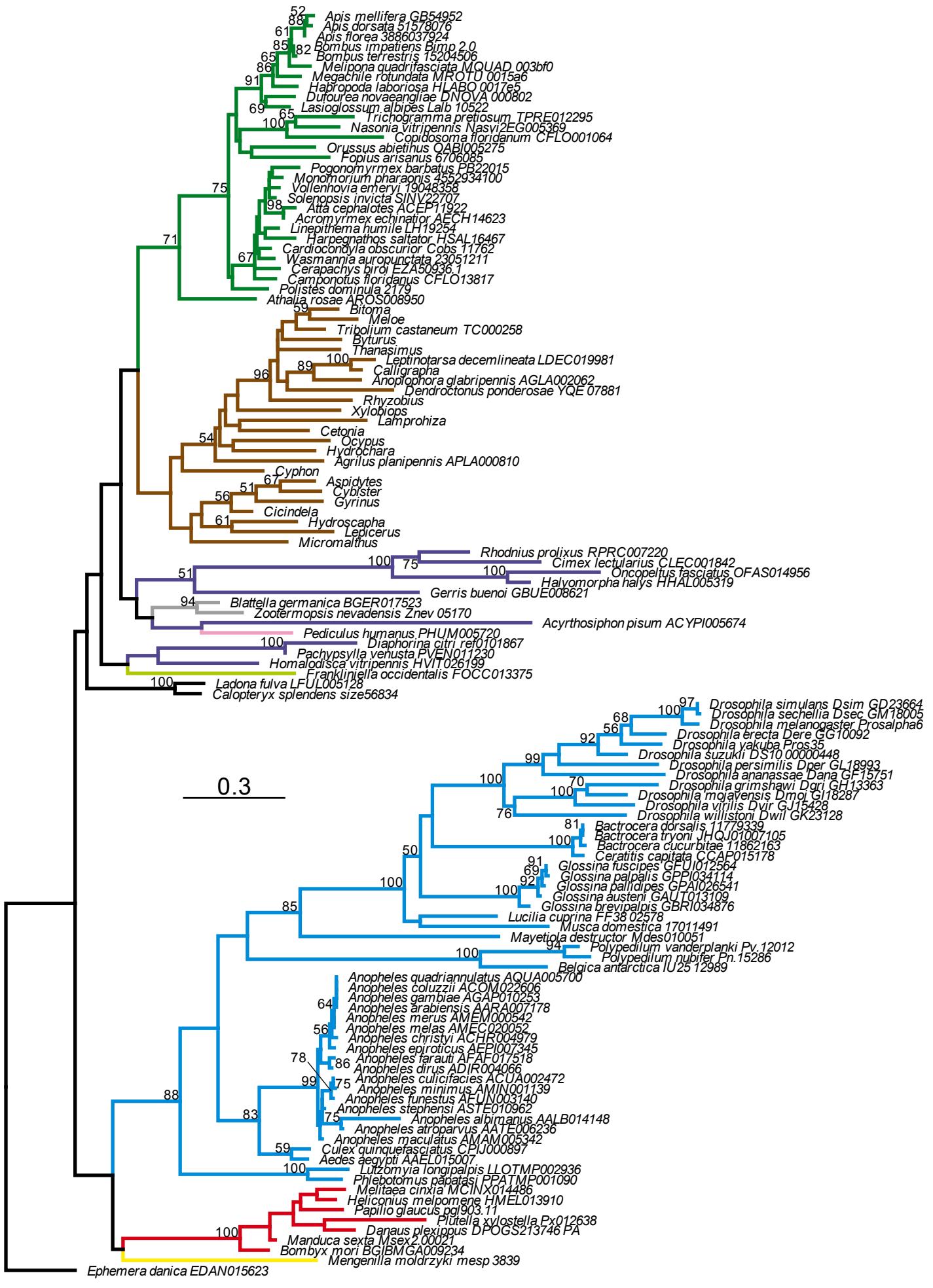
poe



porin



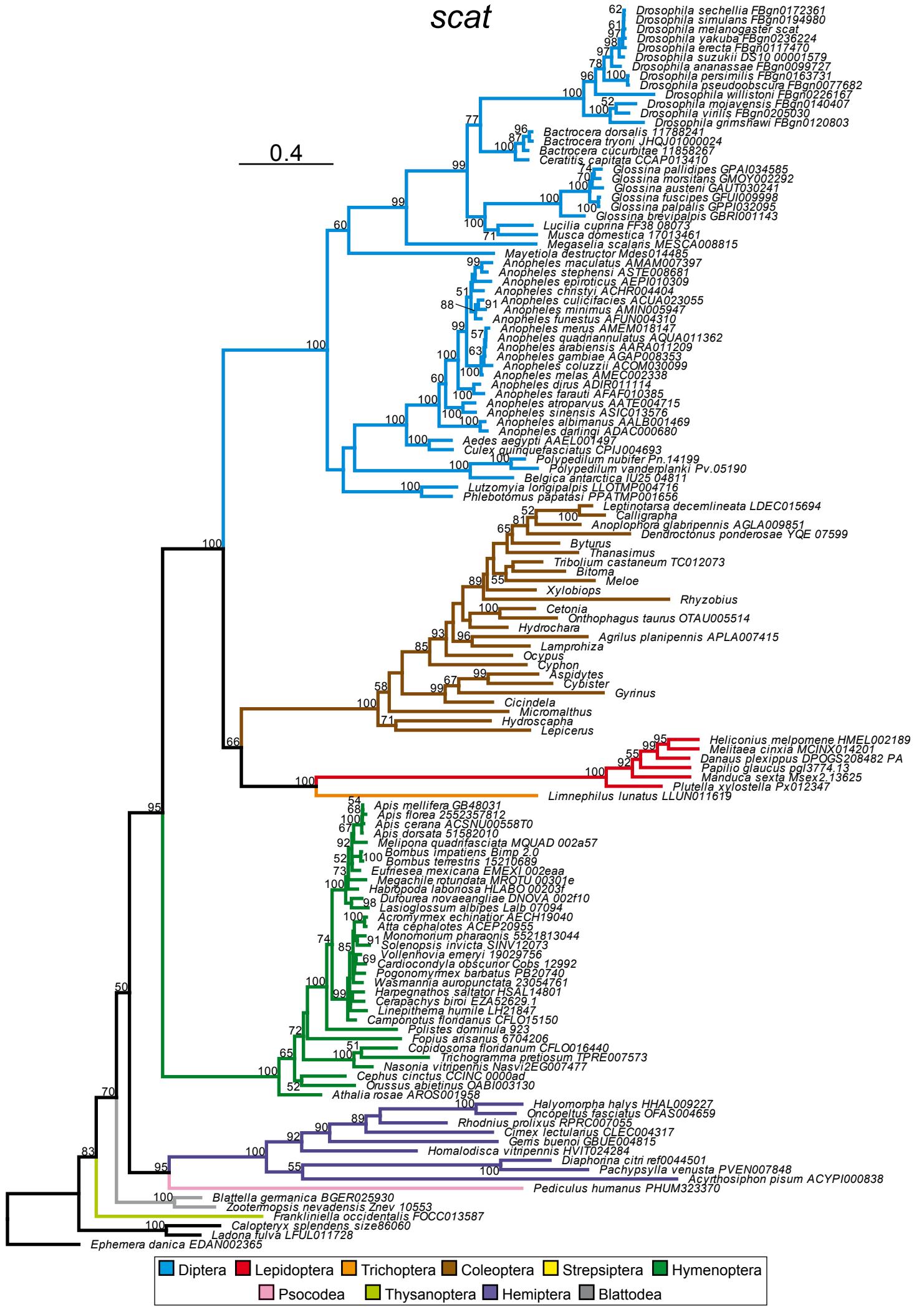
Prosalpha6T



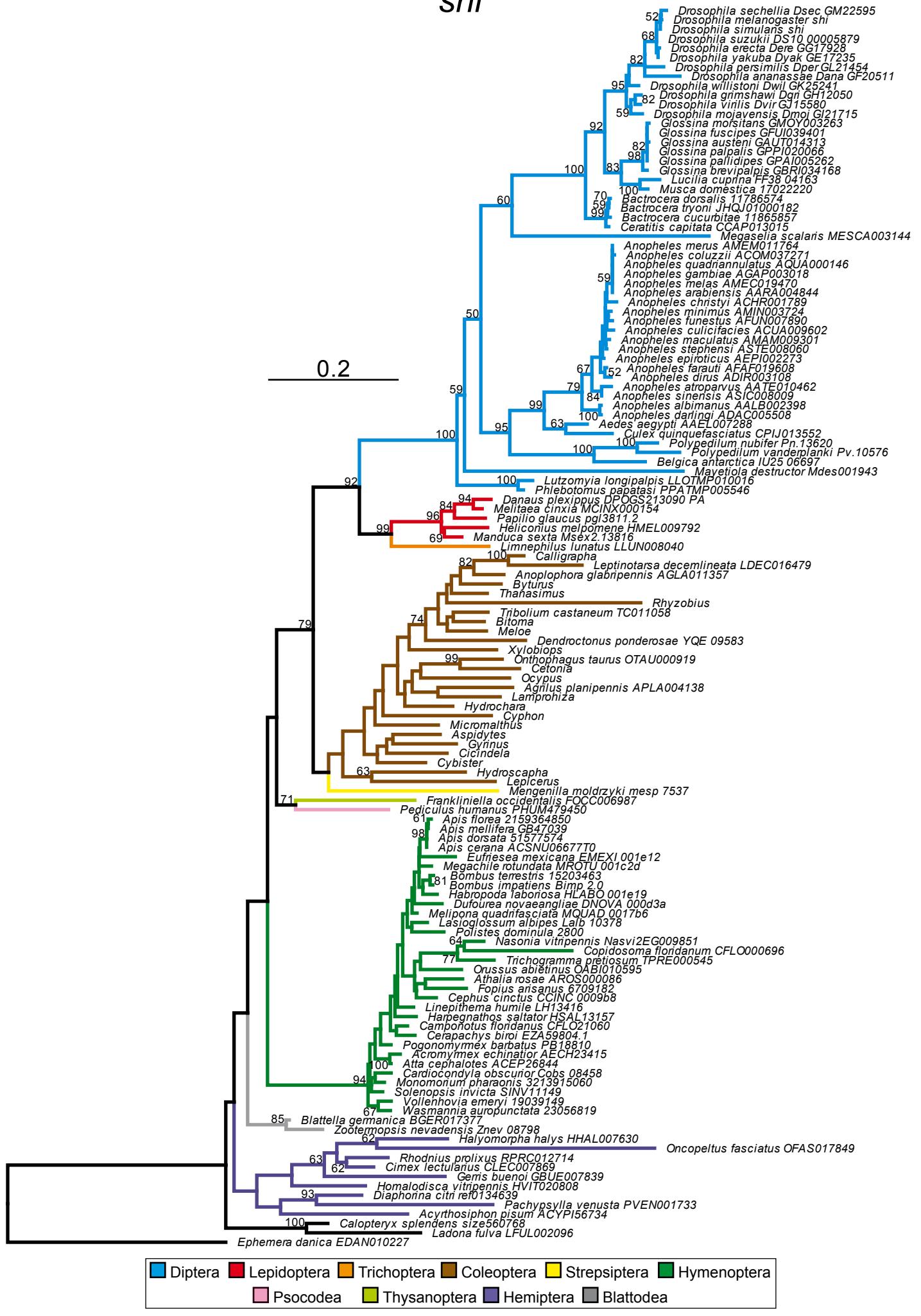
█ Diptera	█ Lepidoptera	█ Trichoptera	█ Coleoptera	█ Strepsiptera	█ Hymenoptera
█ Psocodea	█ Thysanoptera	█ Hemiptera	█ Blattodea		

scat

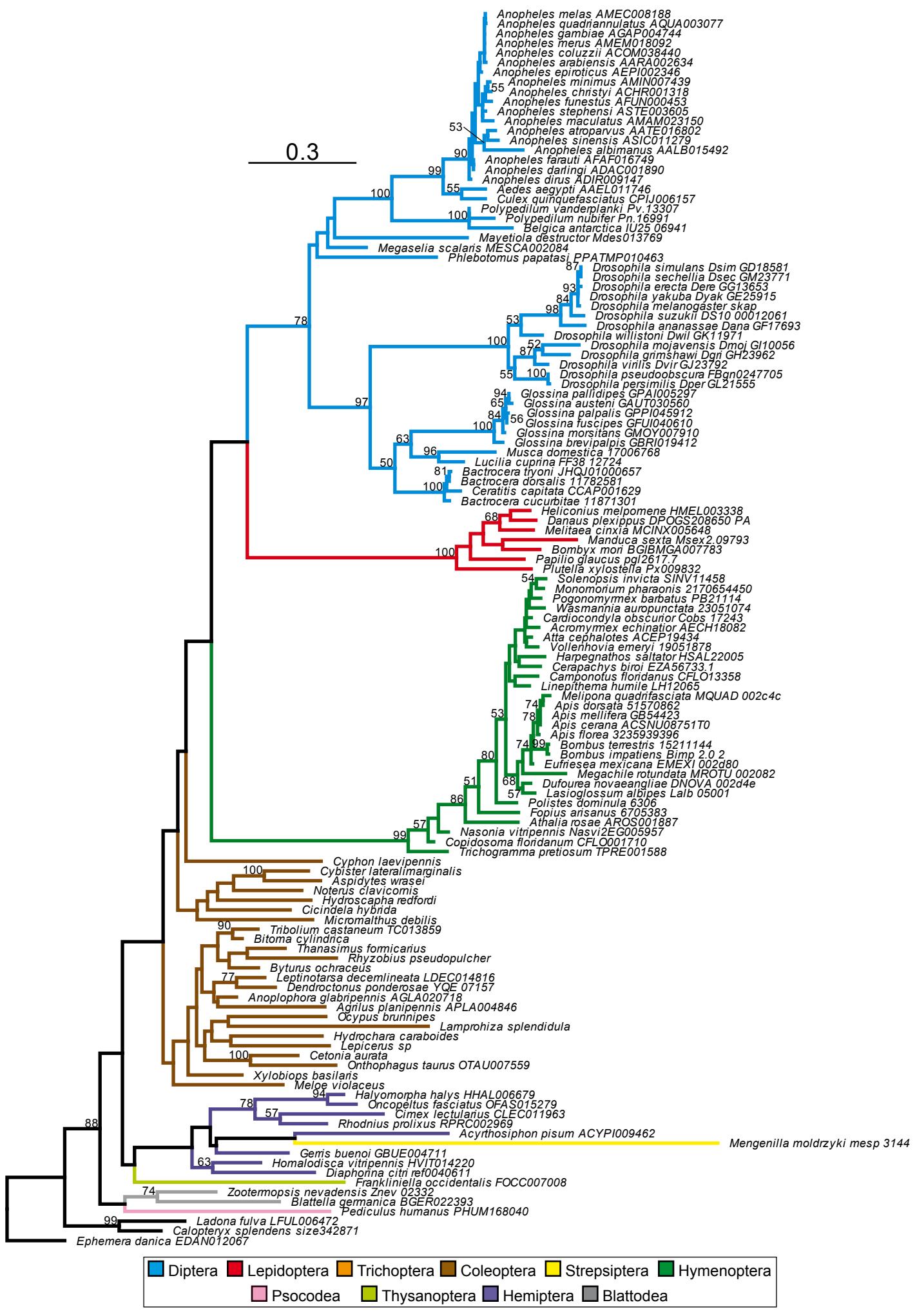
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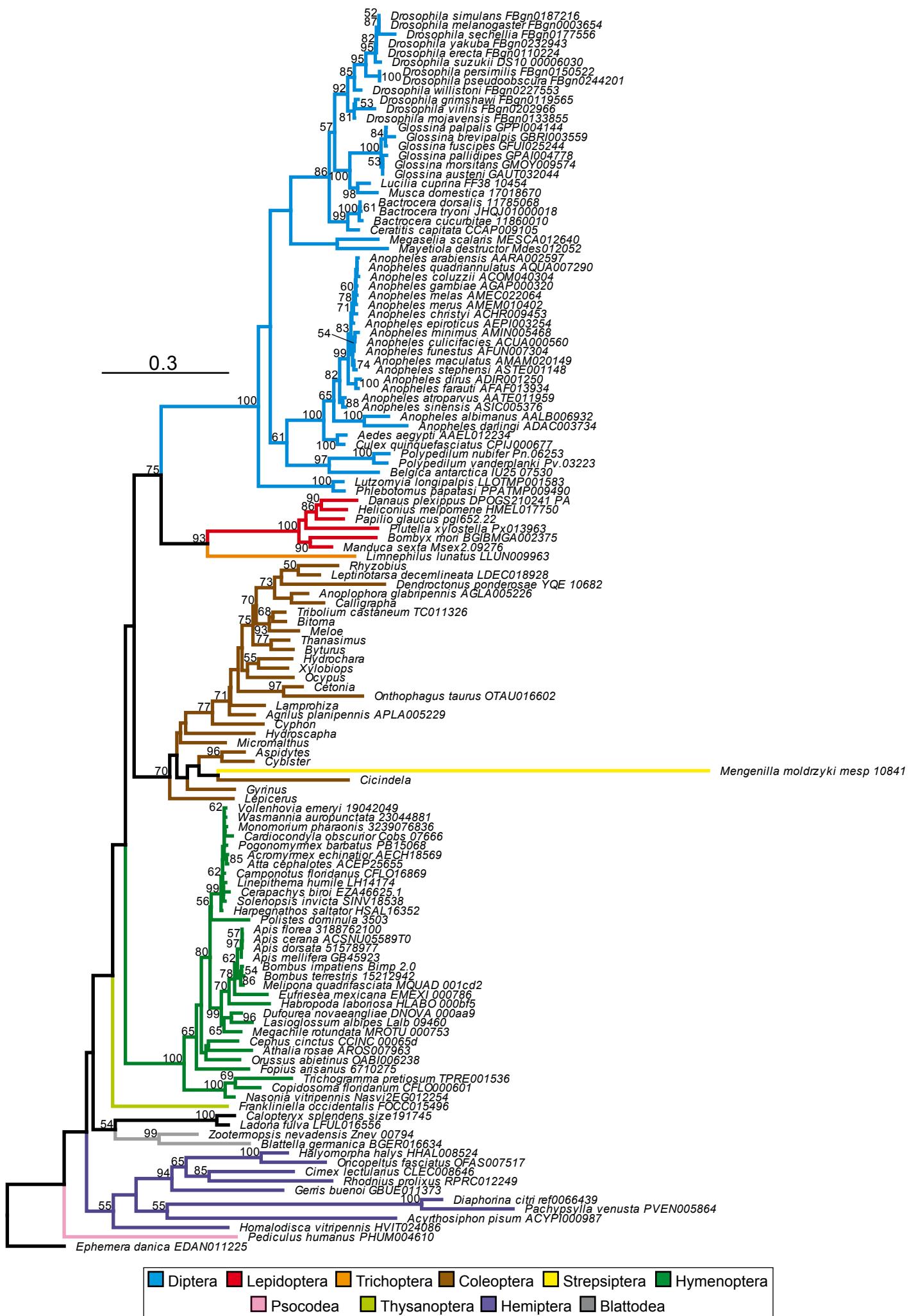
shi



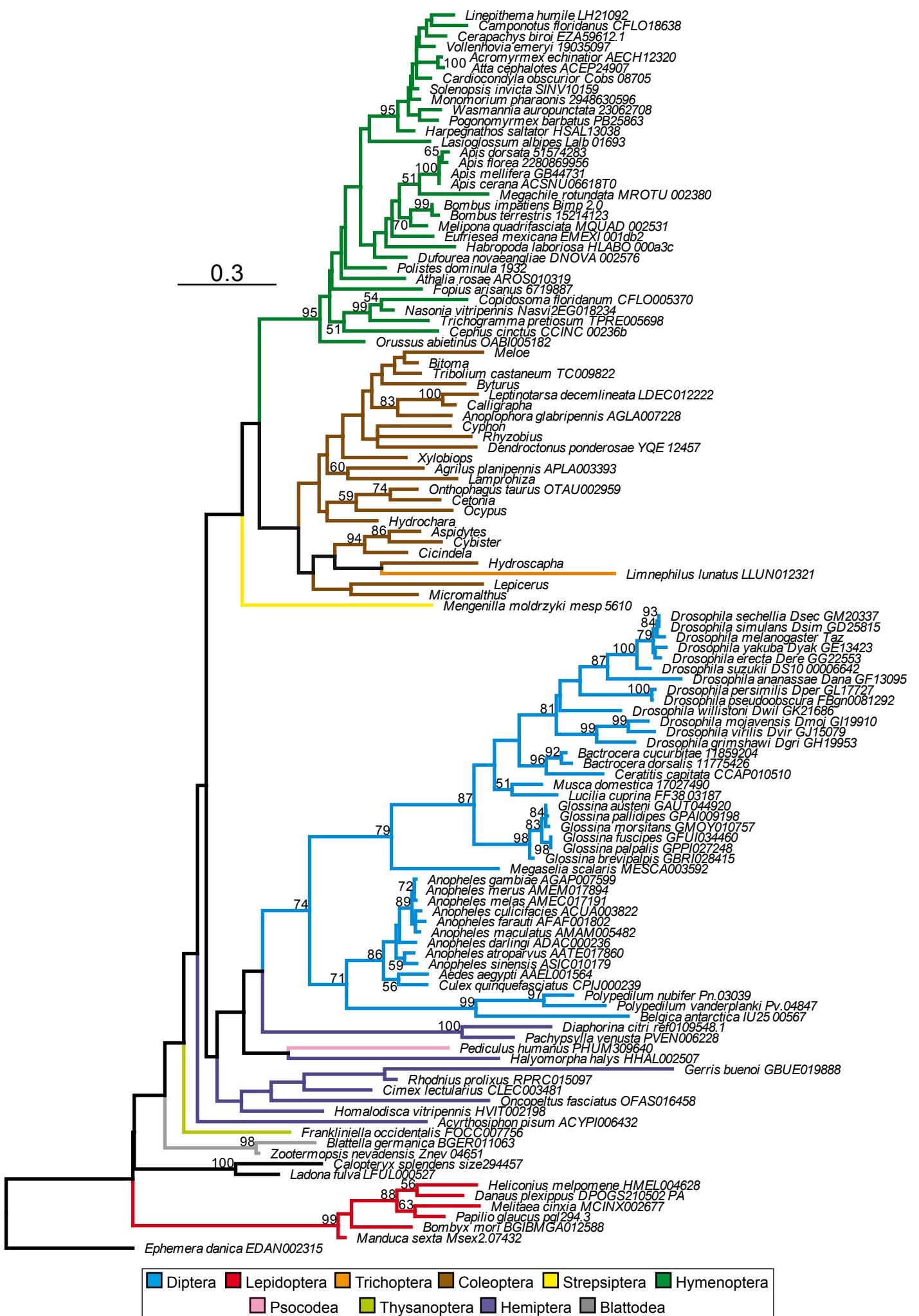
skap



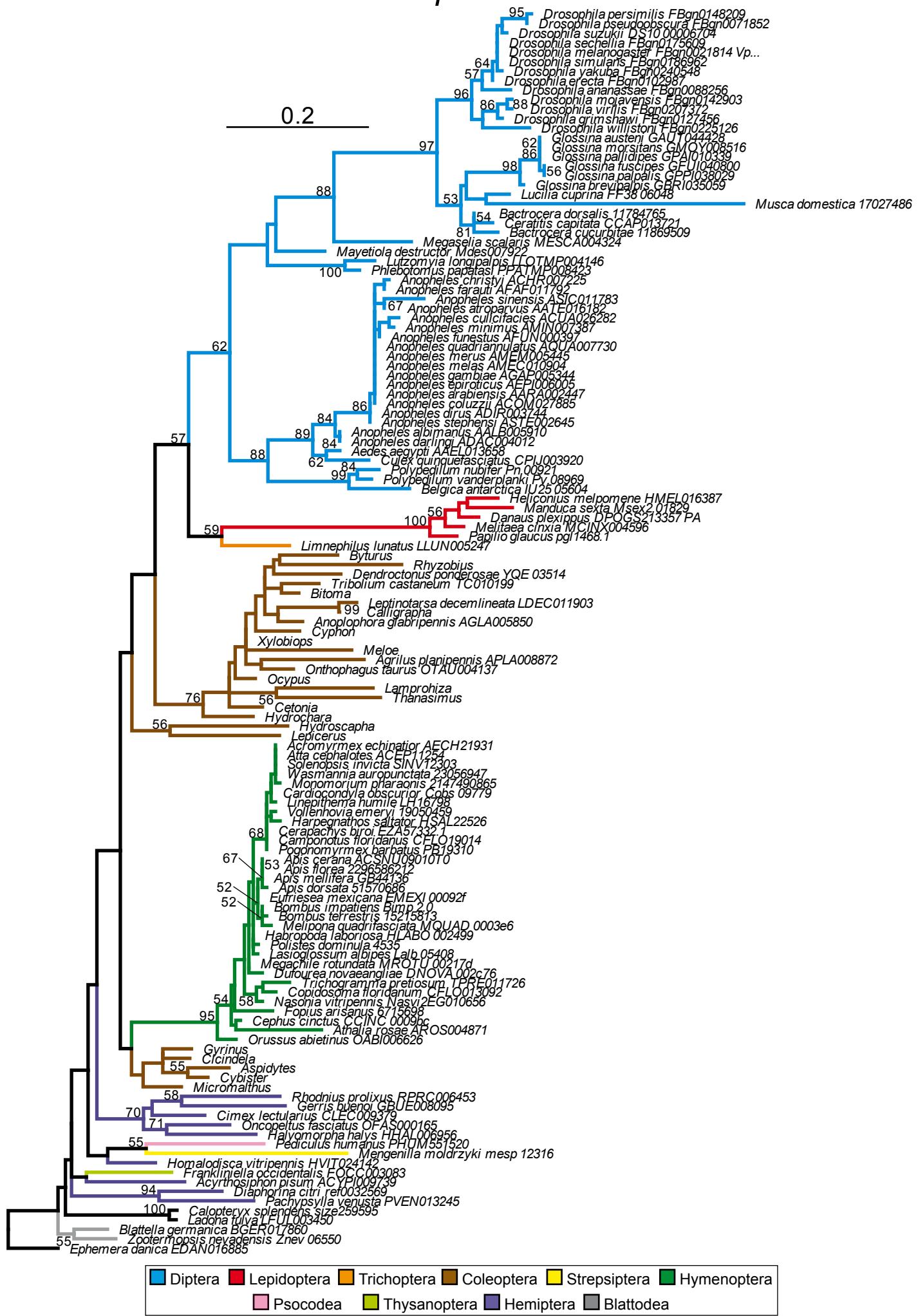
SW



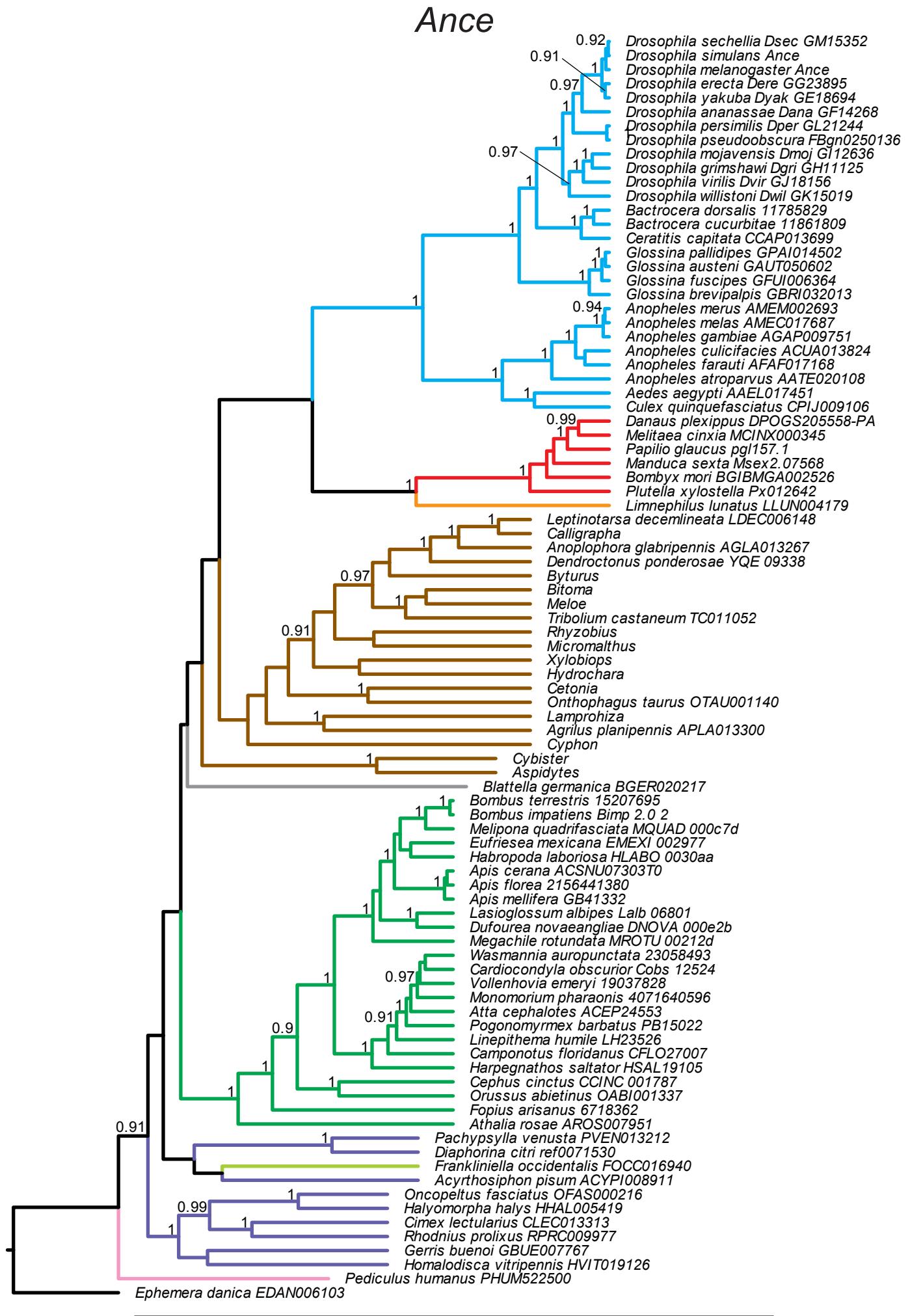
Taz



Vps28

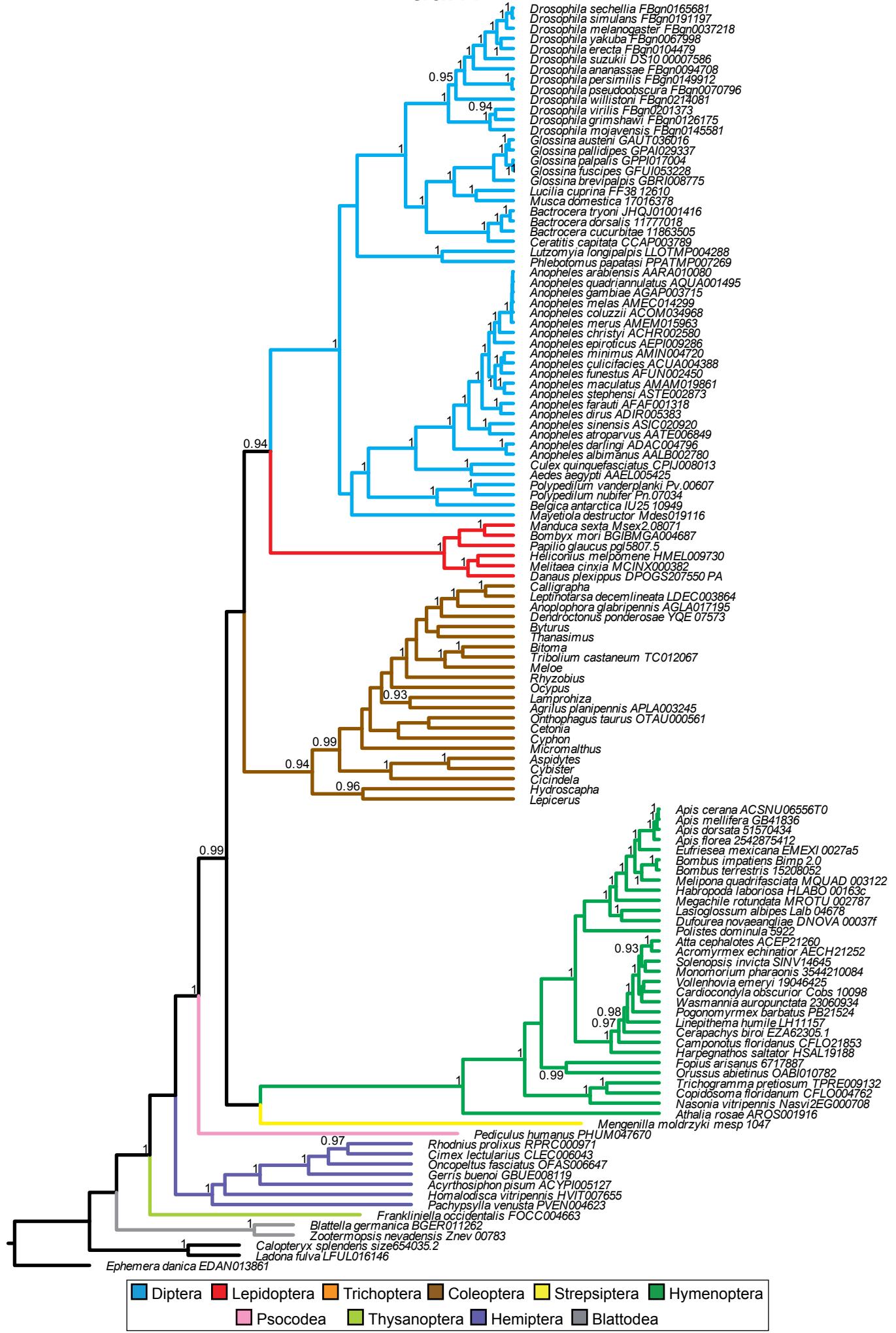


File S2. Bayesian inference trees based on the amino acid alignments of different sperm individualization proteins in insects.

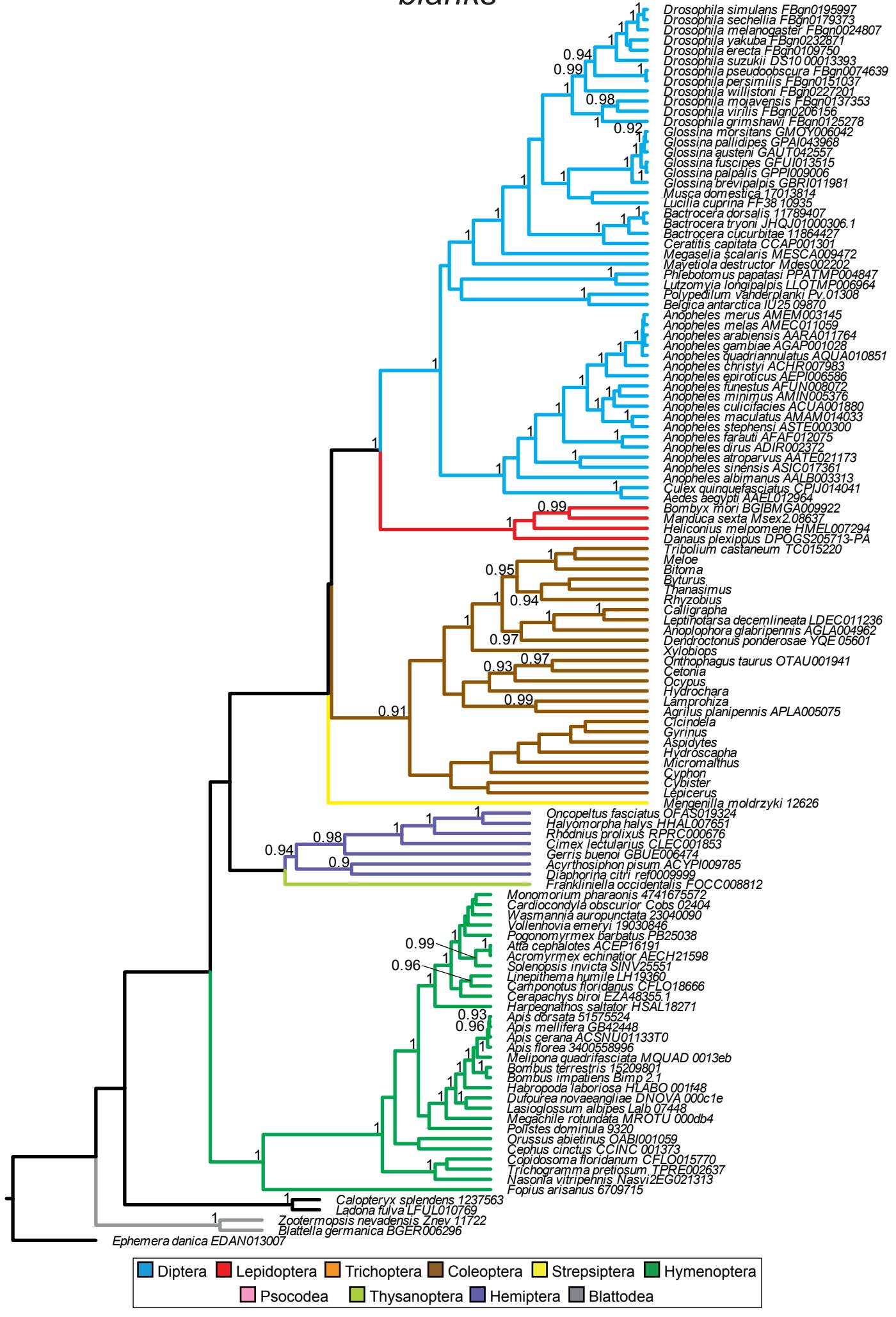


■	Diptera	■	Lepidoptera	■	Trichoptera	■	Coleoptera	■	Strepsiptera	■	Hymenoptera
■	Psocodea	■	Thysanoptera	■	Hemiptera	■	Blattodea				

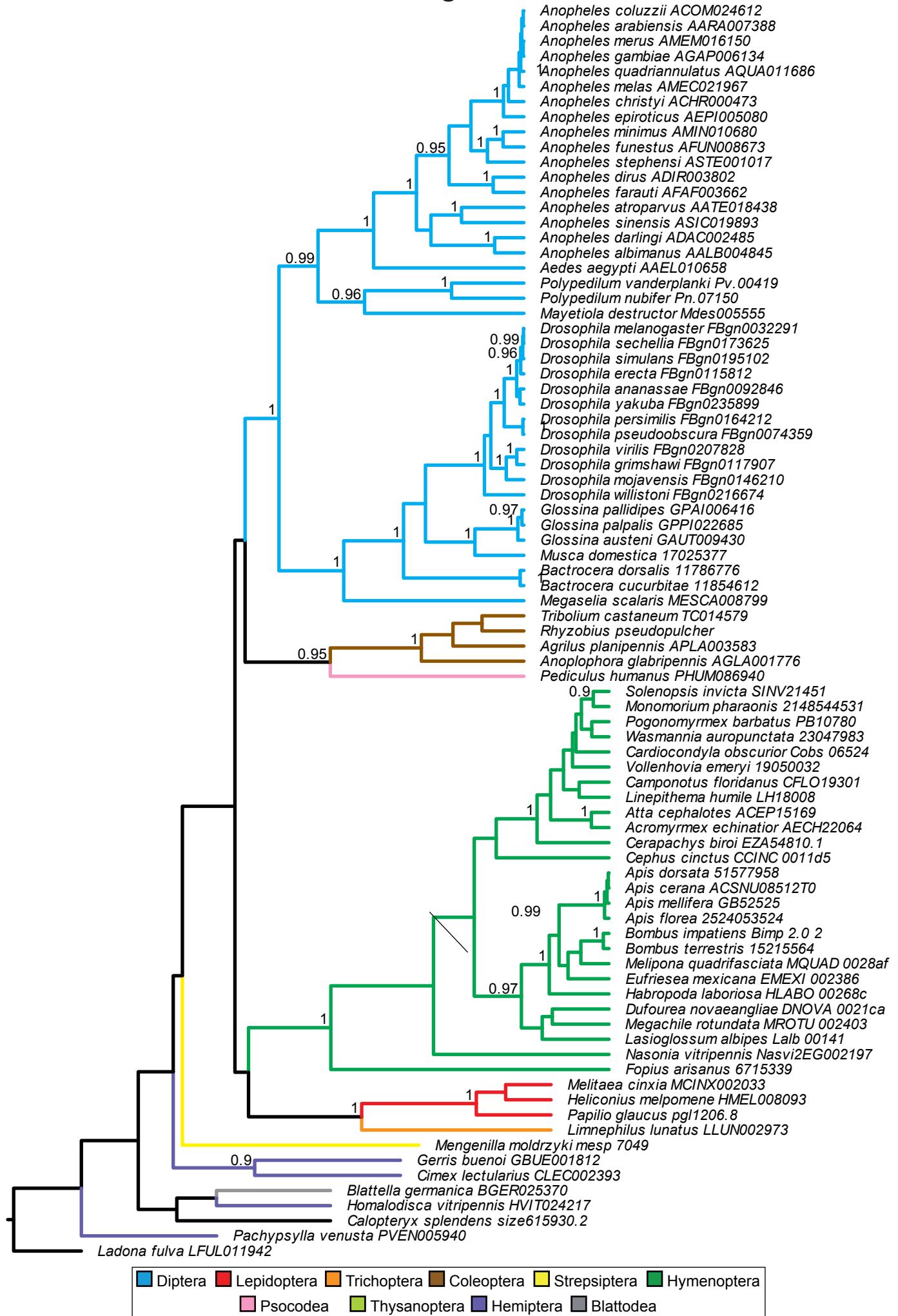
aux1



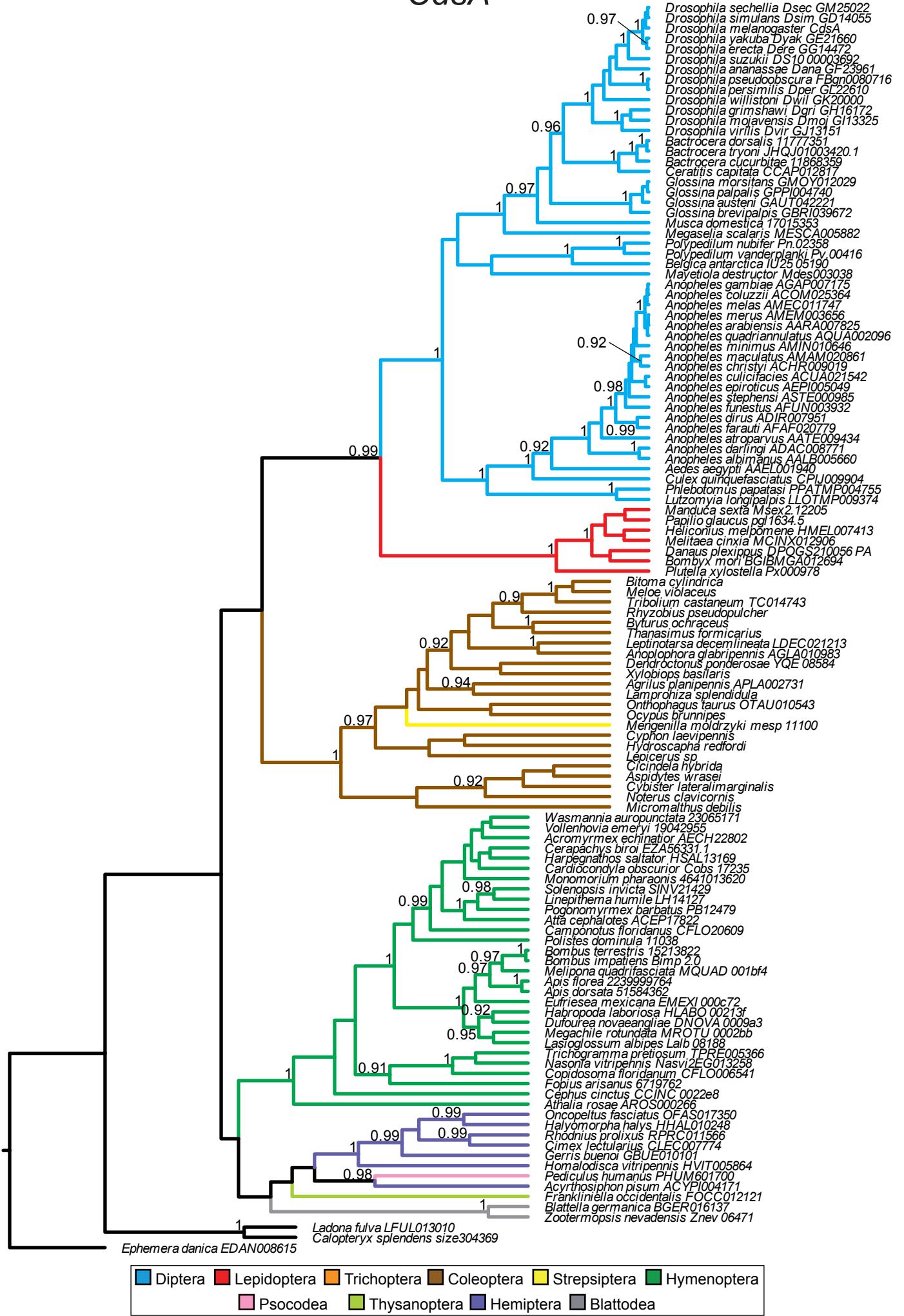
blanks



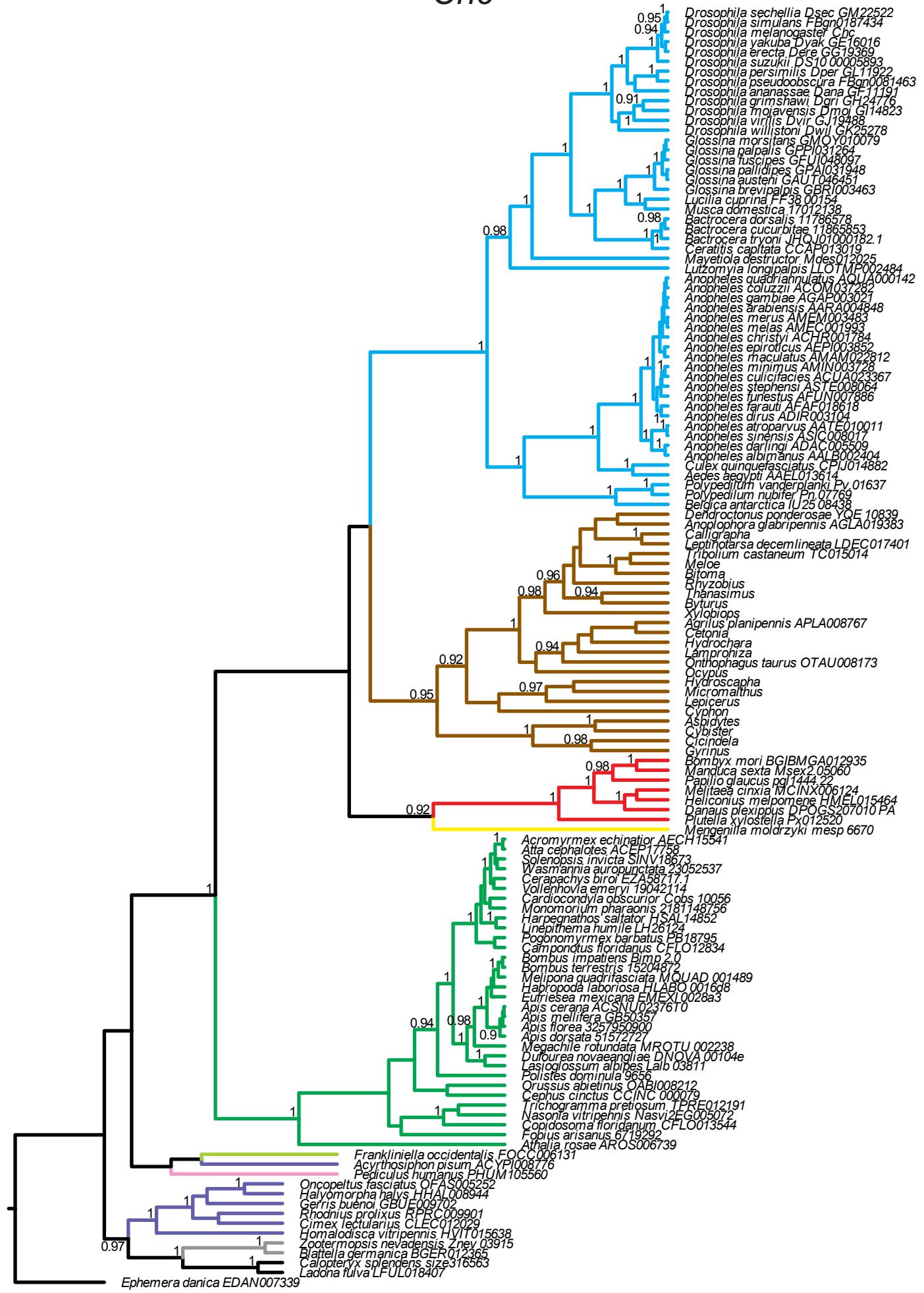
Bug22



CdsA

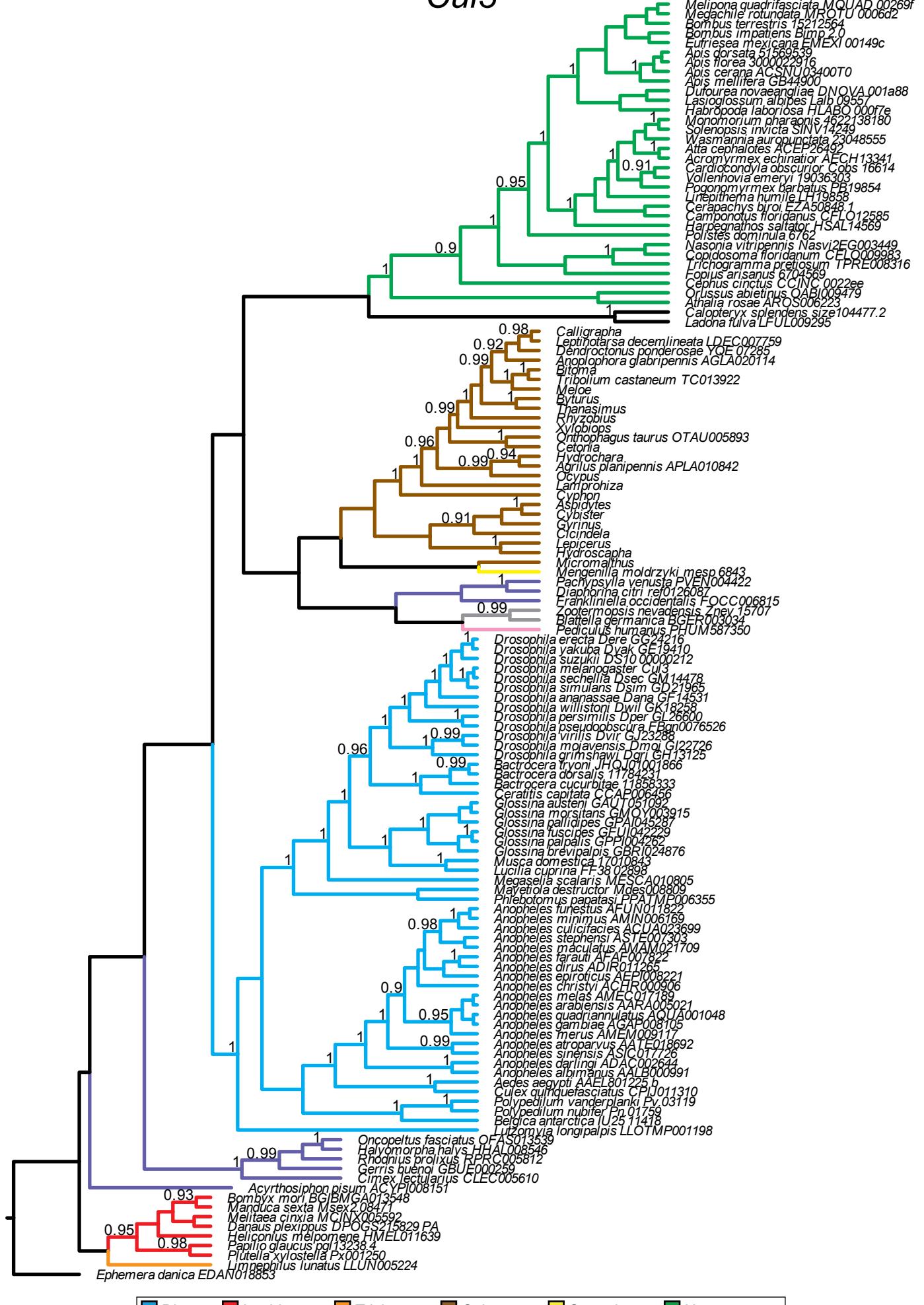


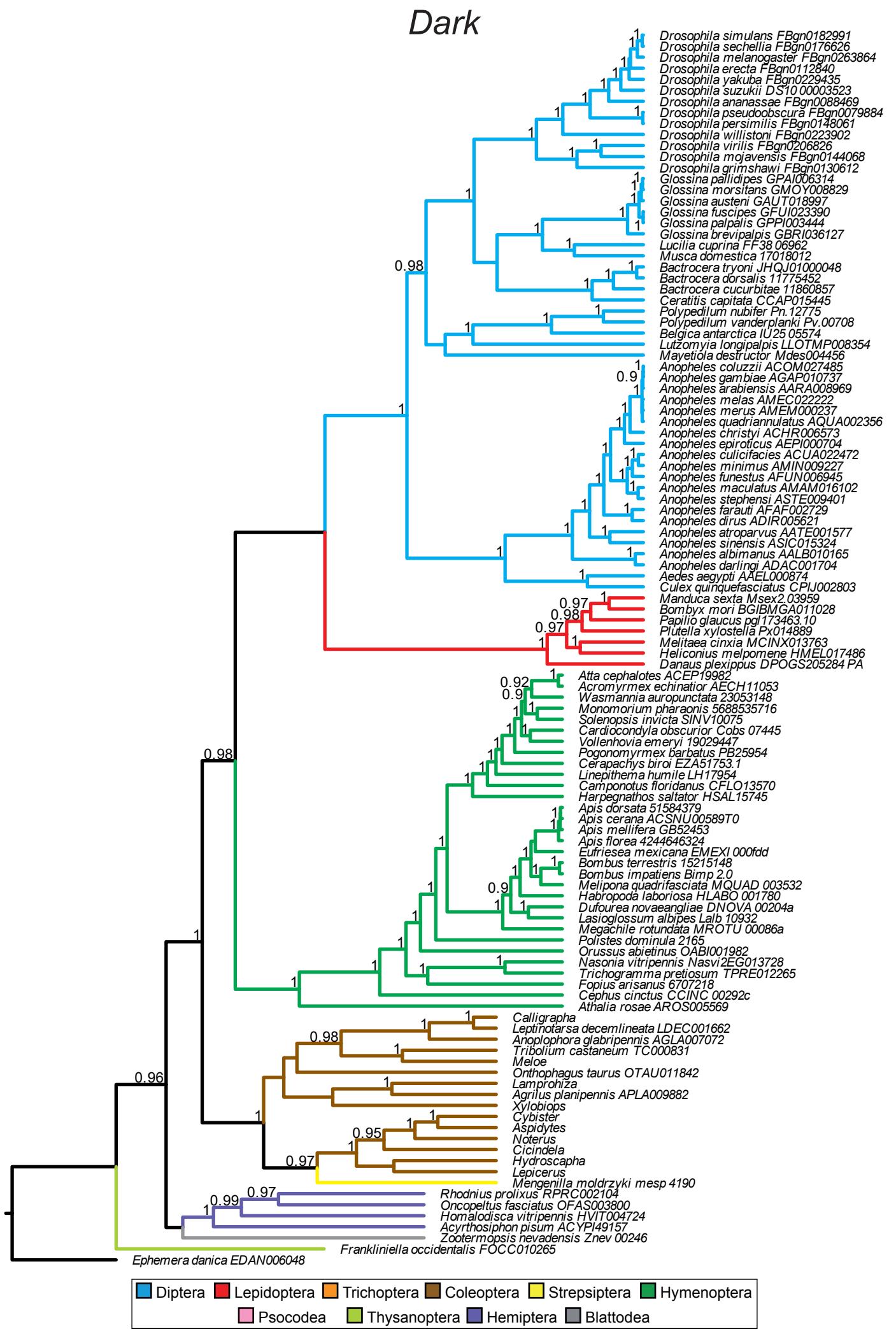
Chc



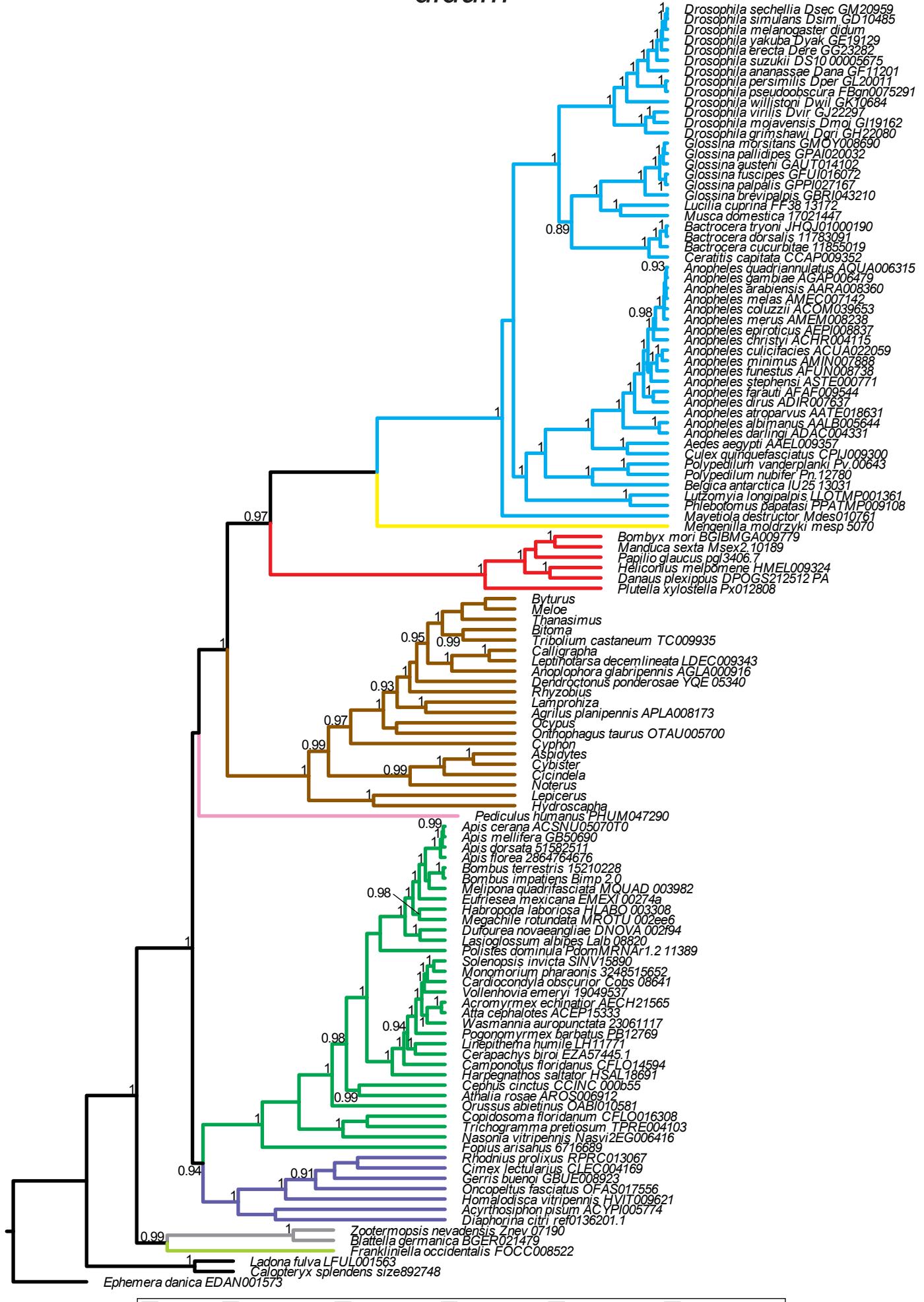
■	Diptera	■	Lepidoptera	■	Trichoptera	■	Coleoptera	■	Strepsiptera	■	Hymenoptera
■	Psocodea	■	Thysanoptera	■	Hemiptera	■	Blattodea				

Cul3



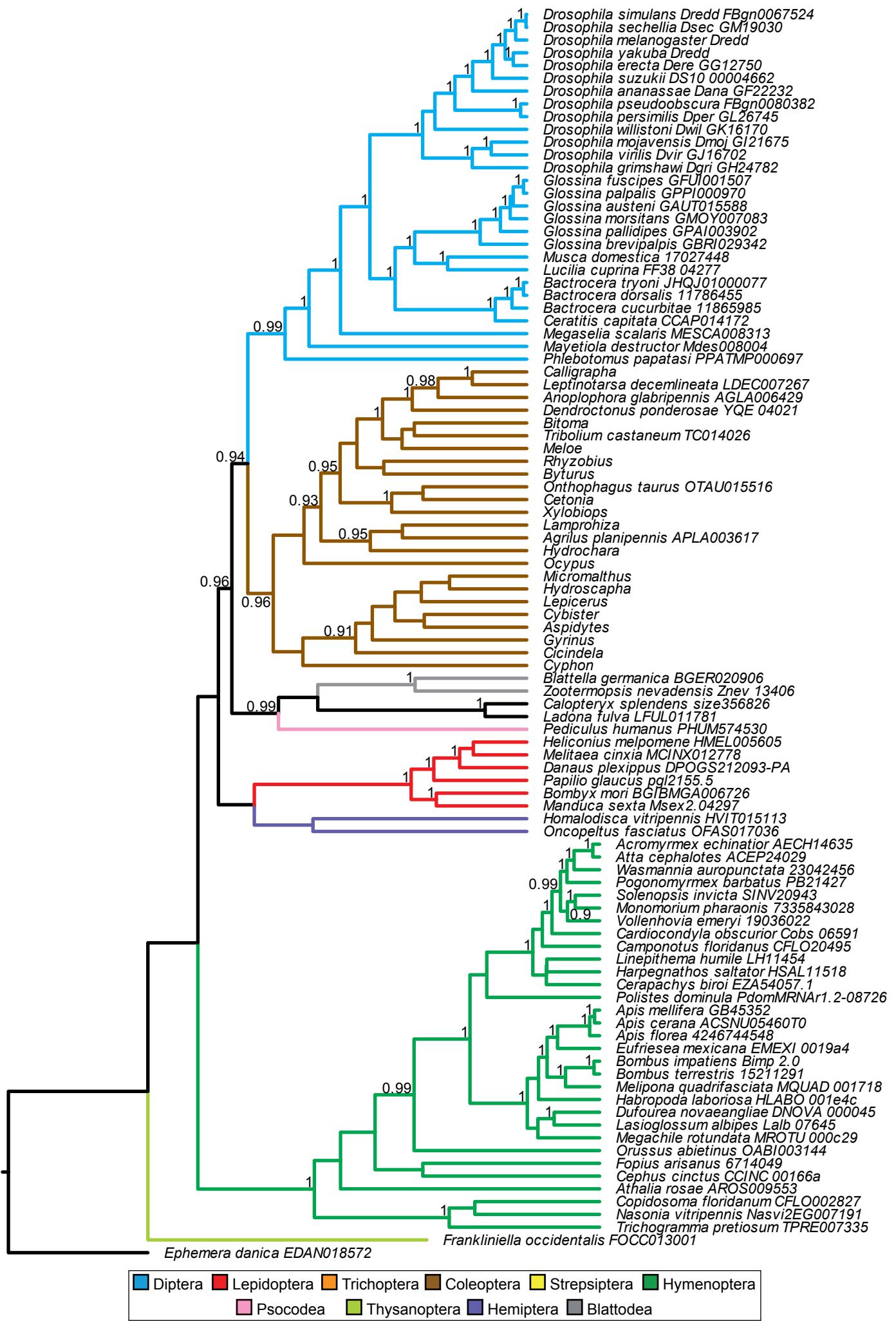


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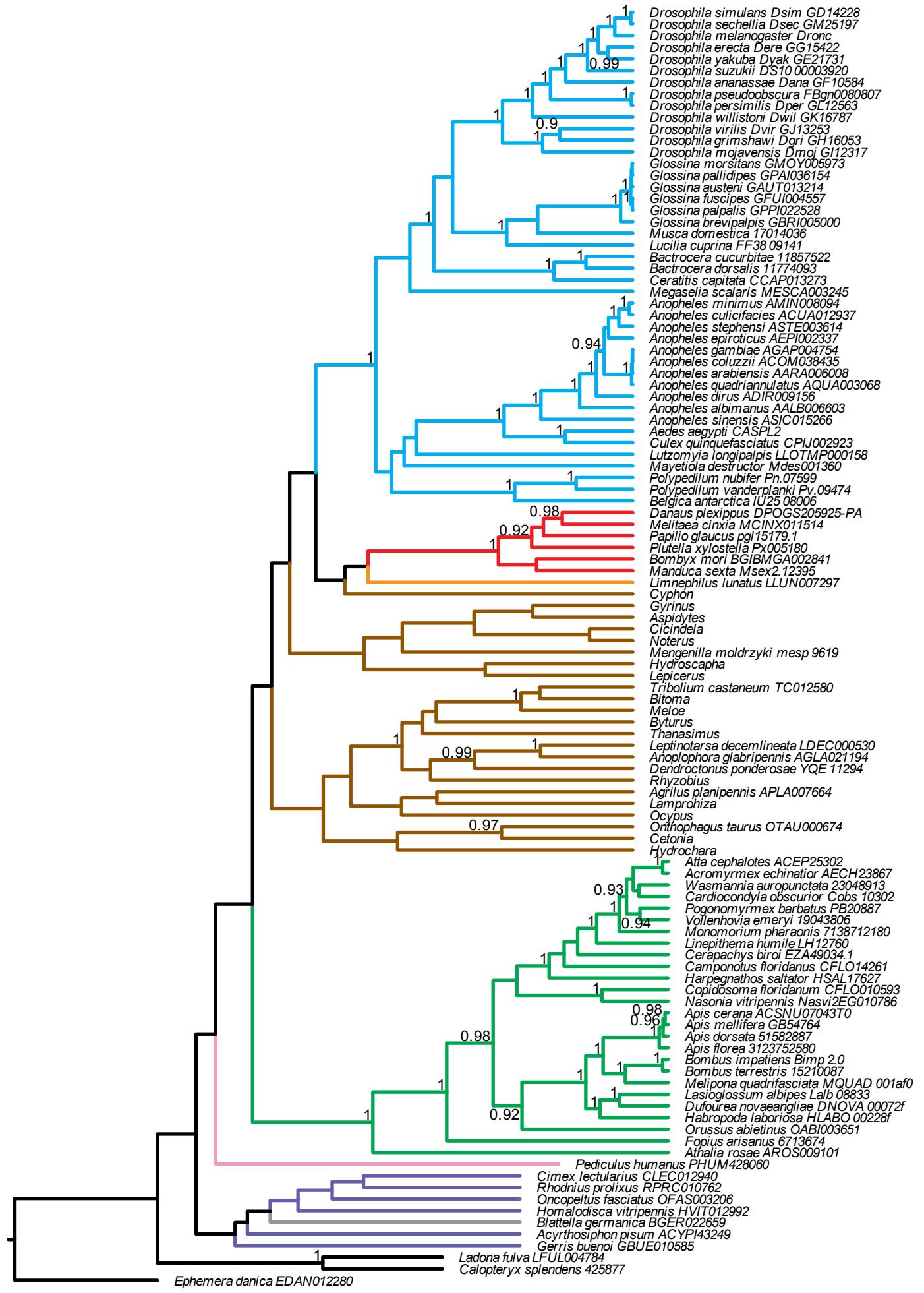


█ Diptera	█ Lepidoptera	█ Trichoptera	█ Coleoptera	█ Strepsiptera	█ Hymenoptera
█ Psocodea	█ Thysanoptera	█ Hemiptera	█ Blattodea		

Dredd

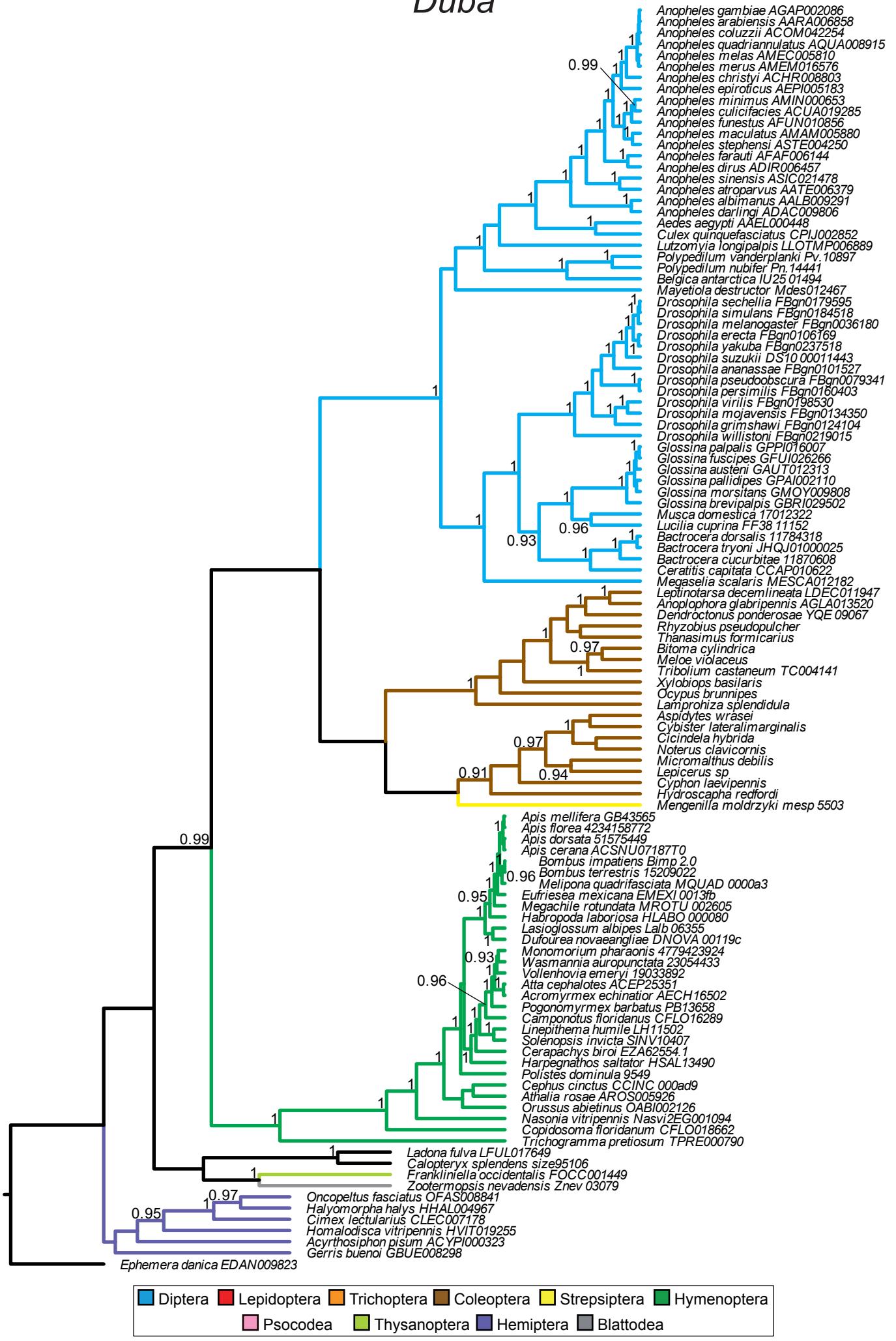


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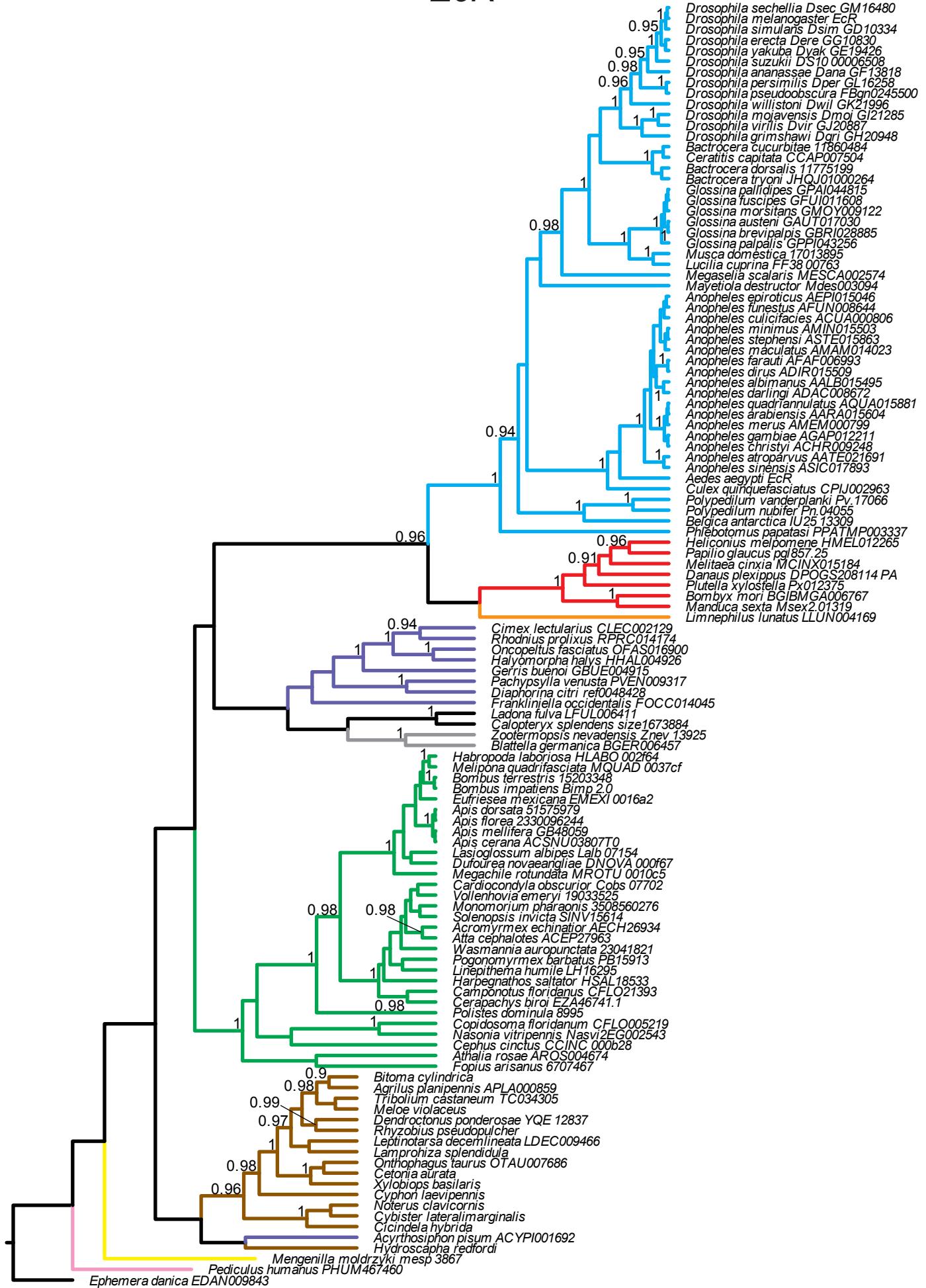


■	Diptera	■	Lepidoptera	■	Trichoptera	■	Coleoptera	■	Strepsiptera	■	Hymenoptera
■	Psocodea	■	Thysanoptera	■	Hemiptera	■	Blattodea				

Duba

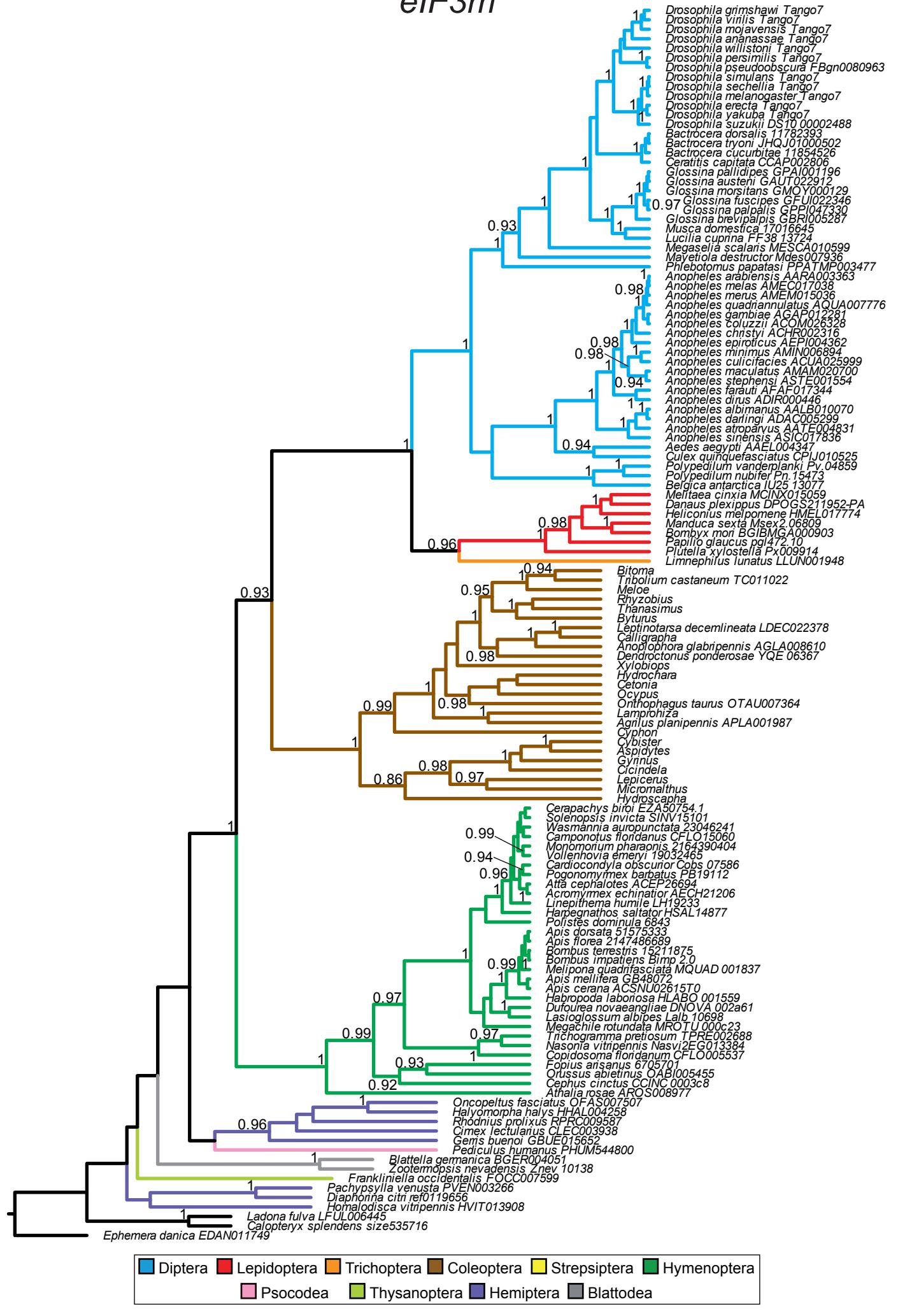


EcR

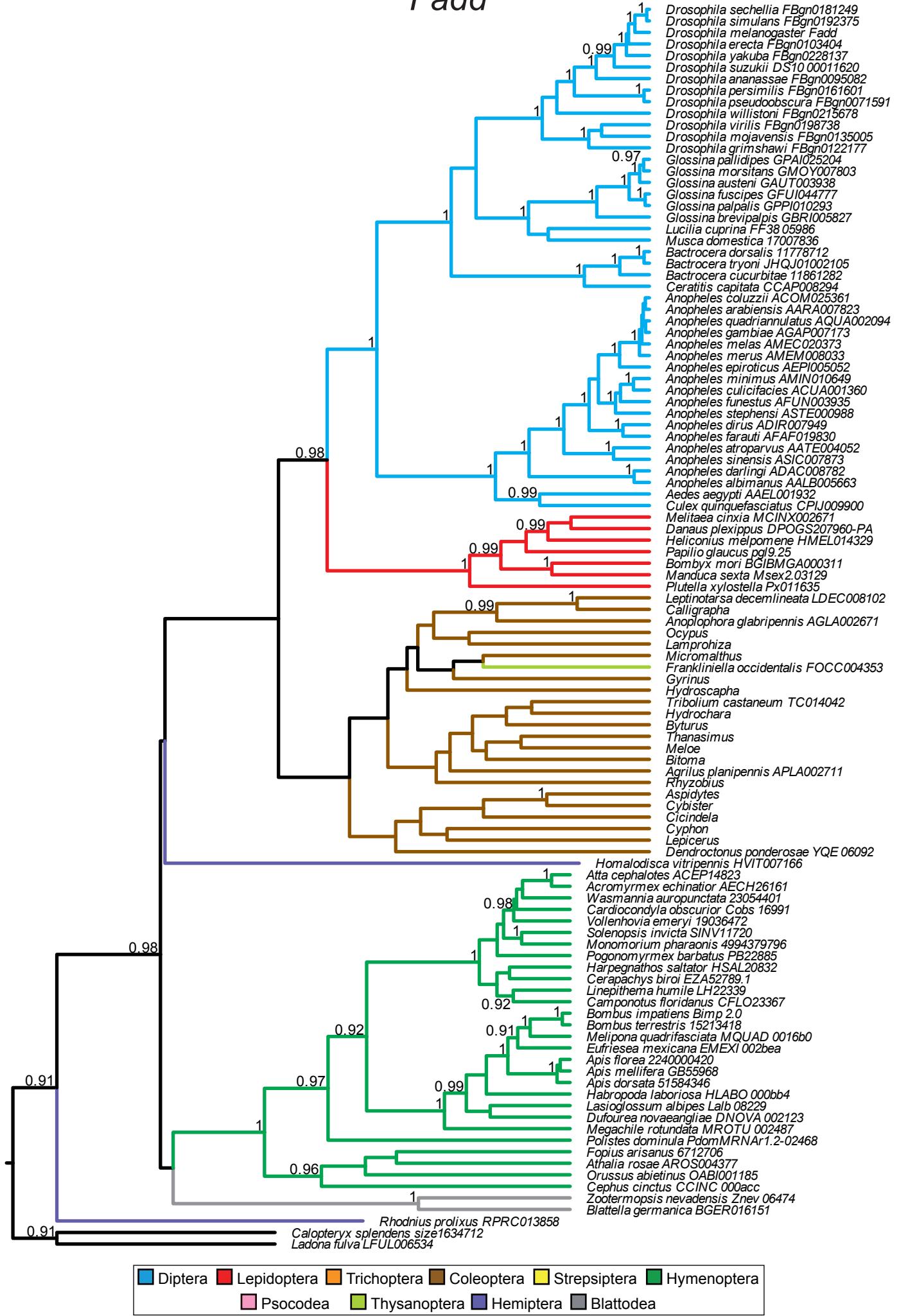


Diptera	Lepidoptera	Trichoptera	Coleoptera	Strepsiptera	Hymenoptera
Psocodea	Thysanoptera	Hemiptera	Blattodea		

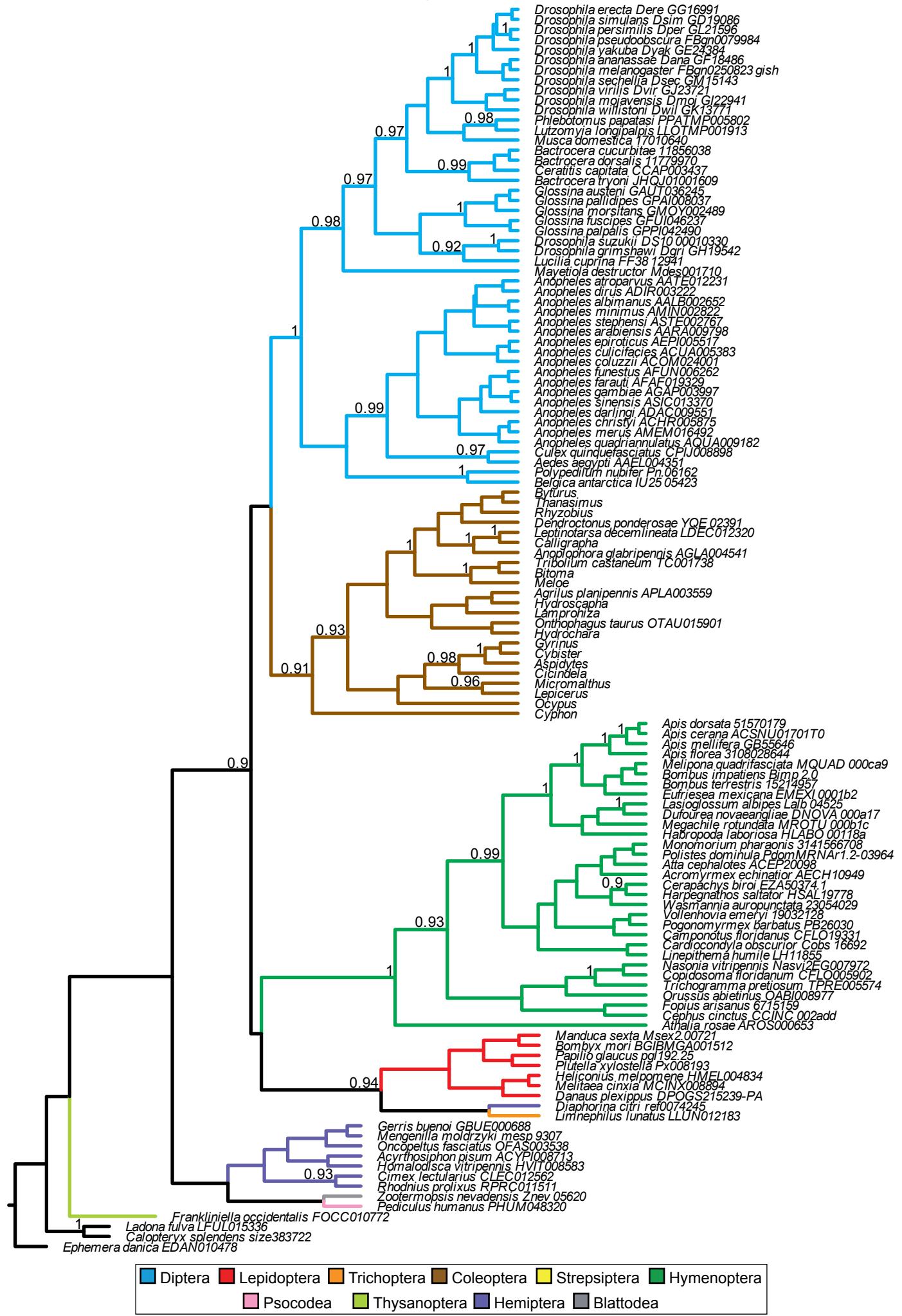
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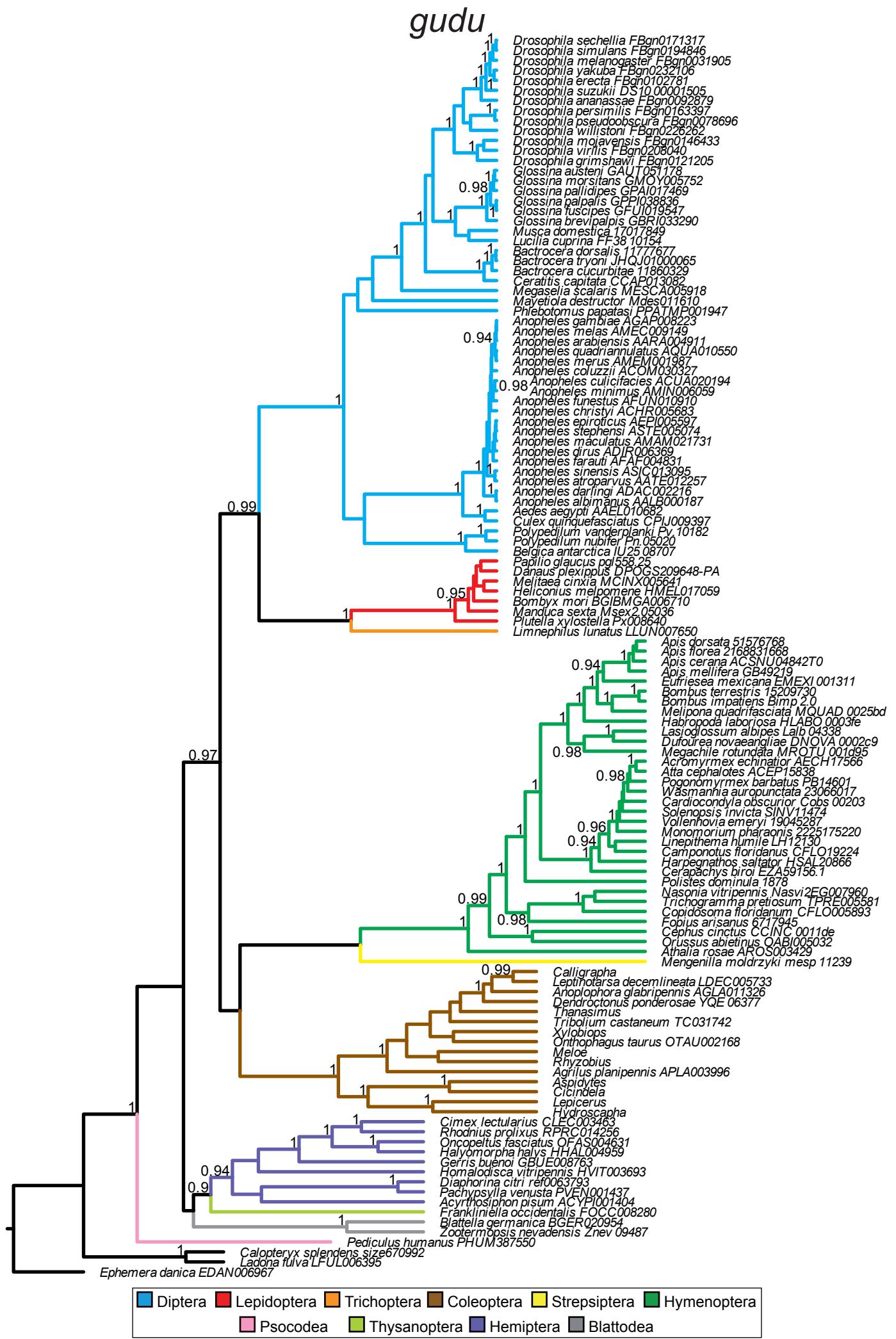


Fadd

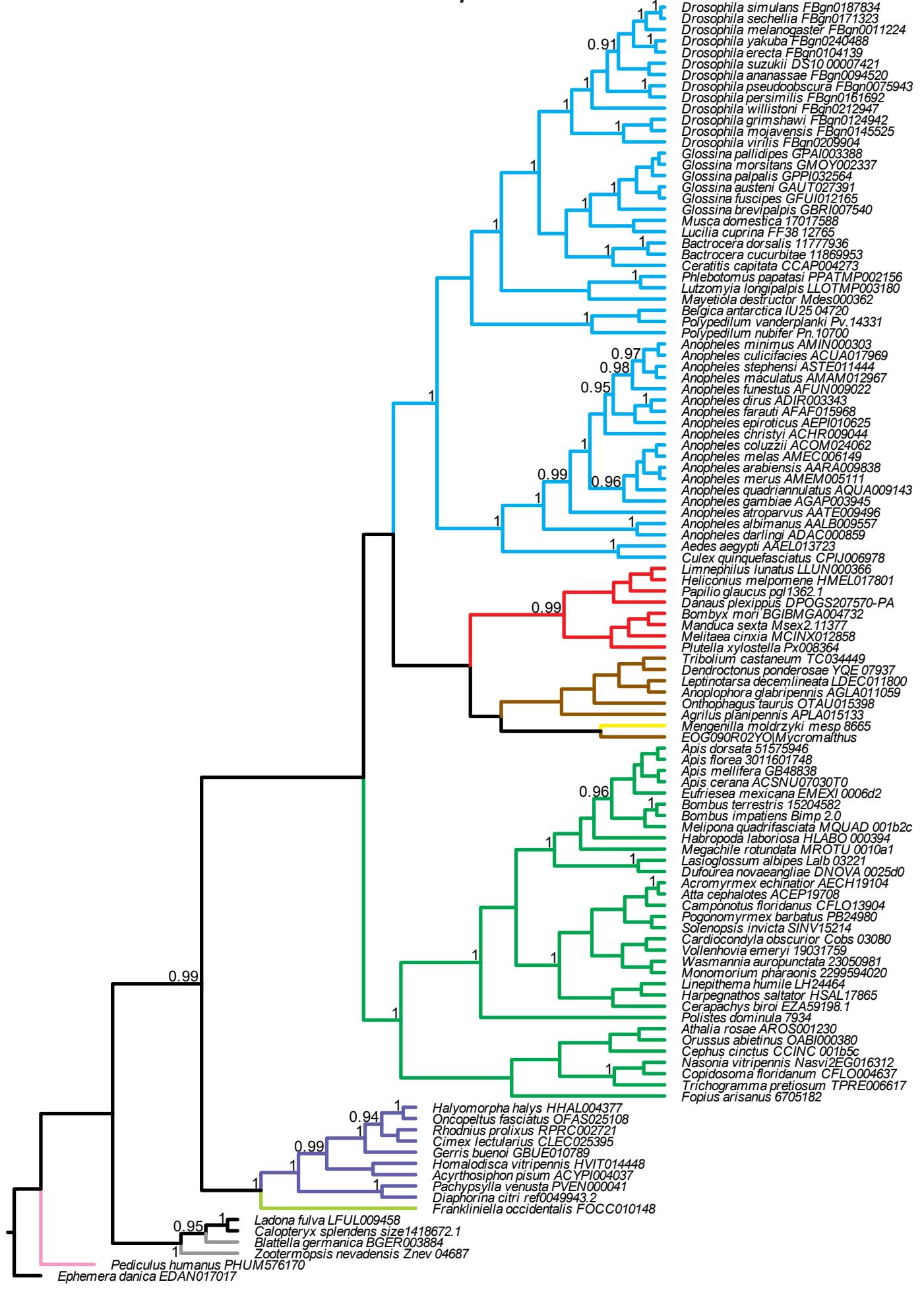


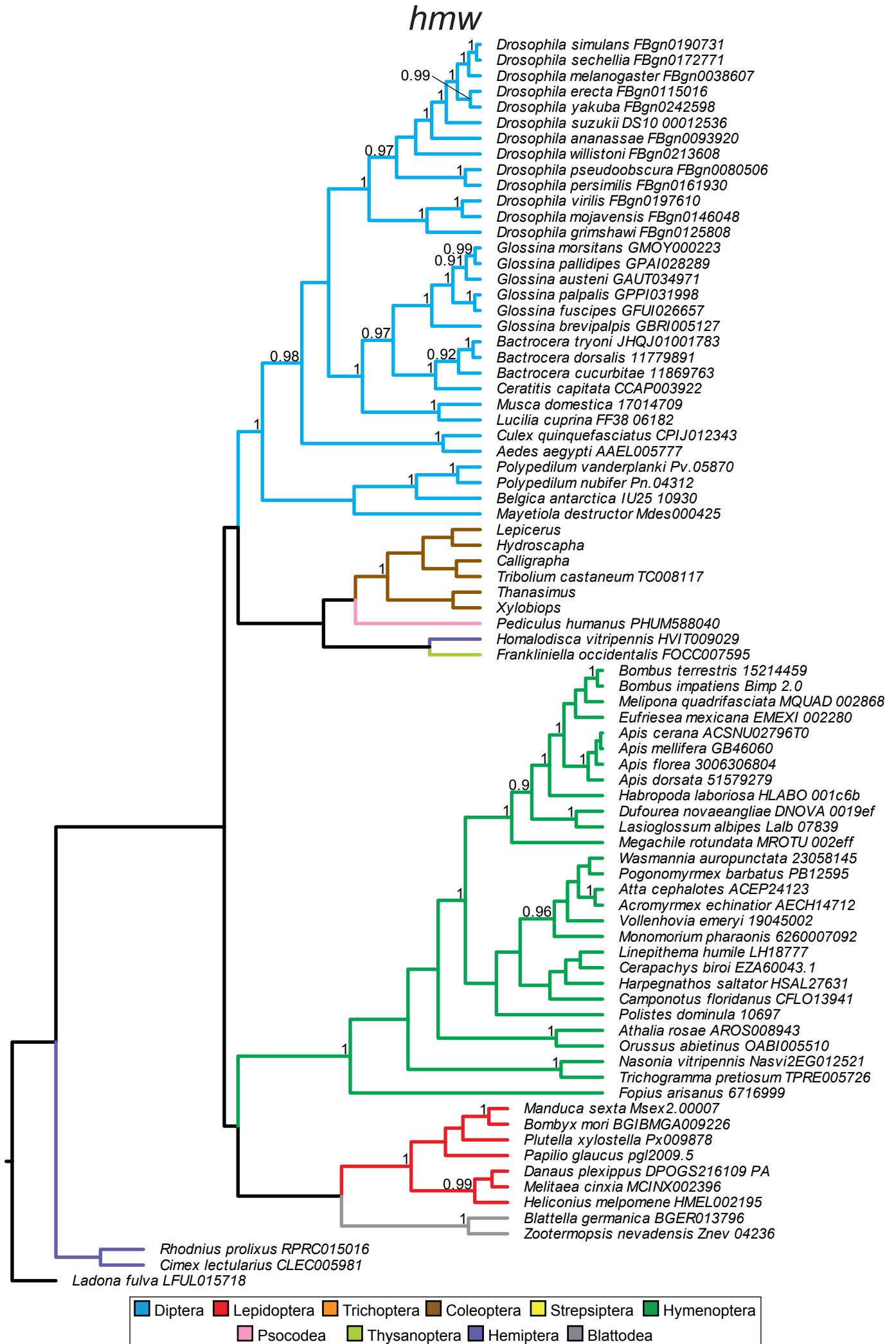
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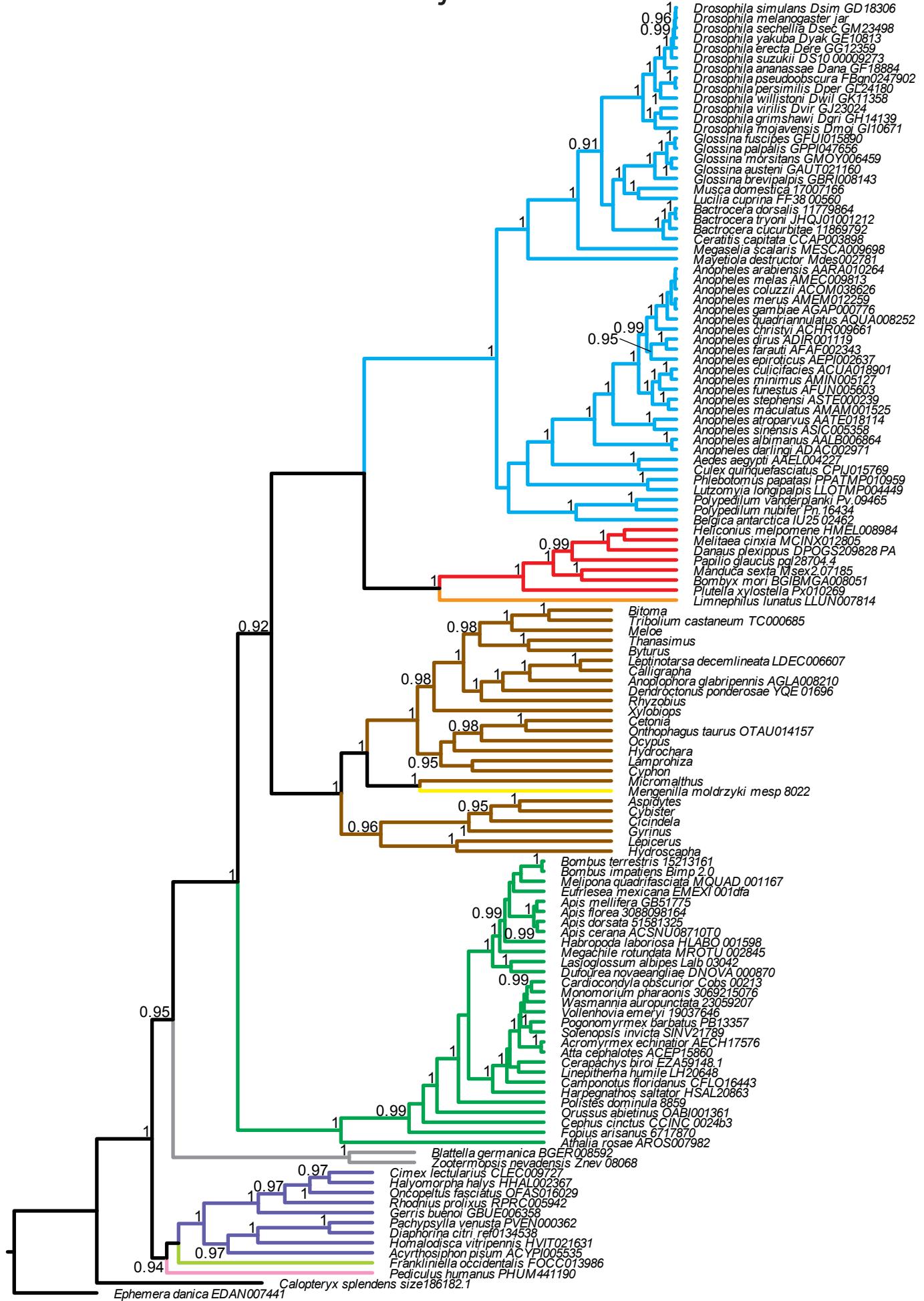


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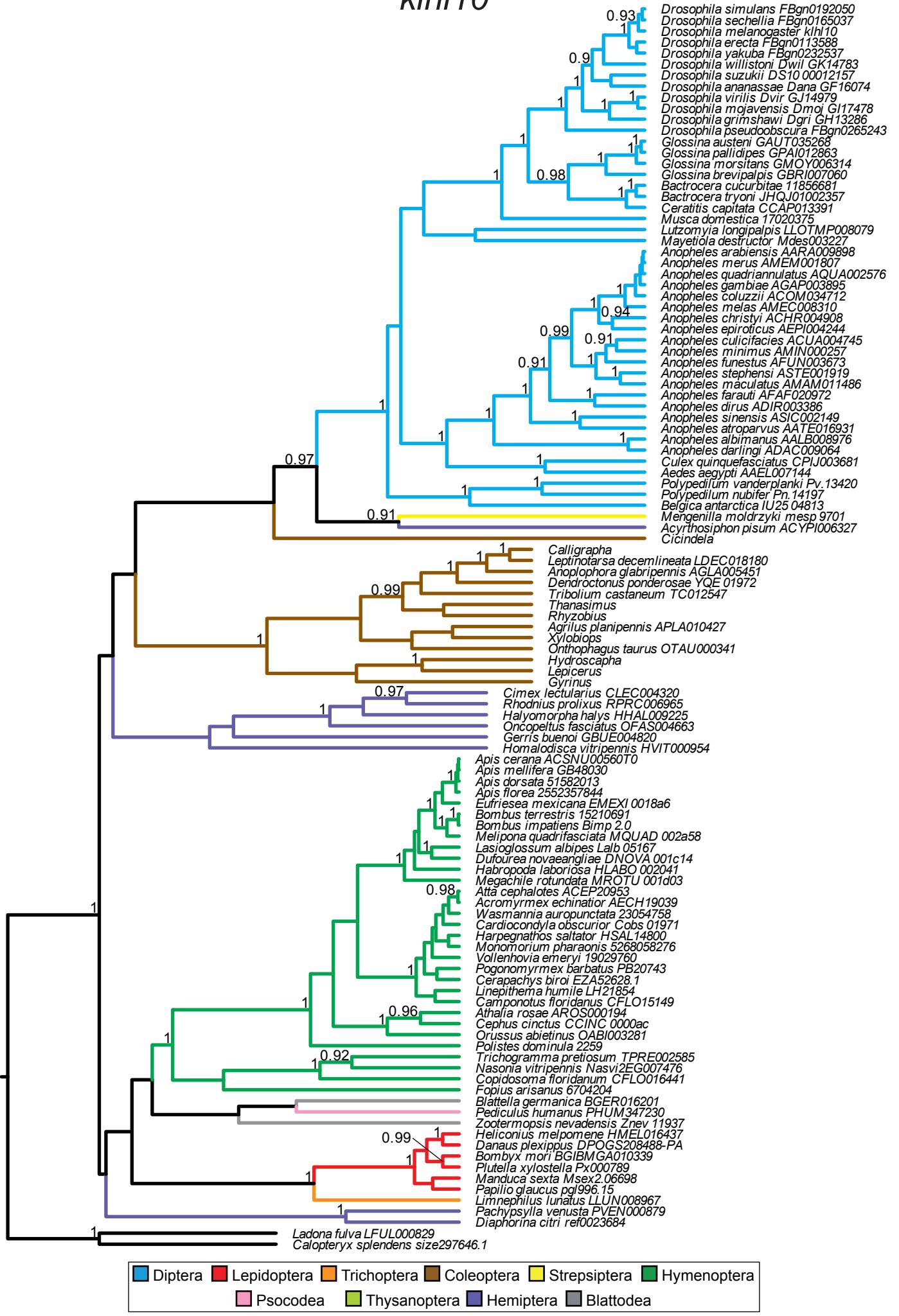


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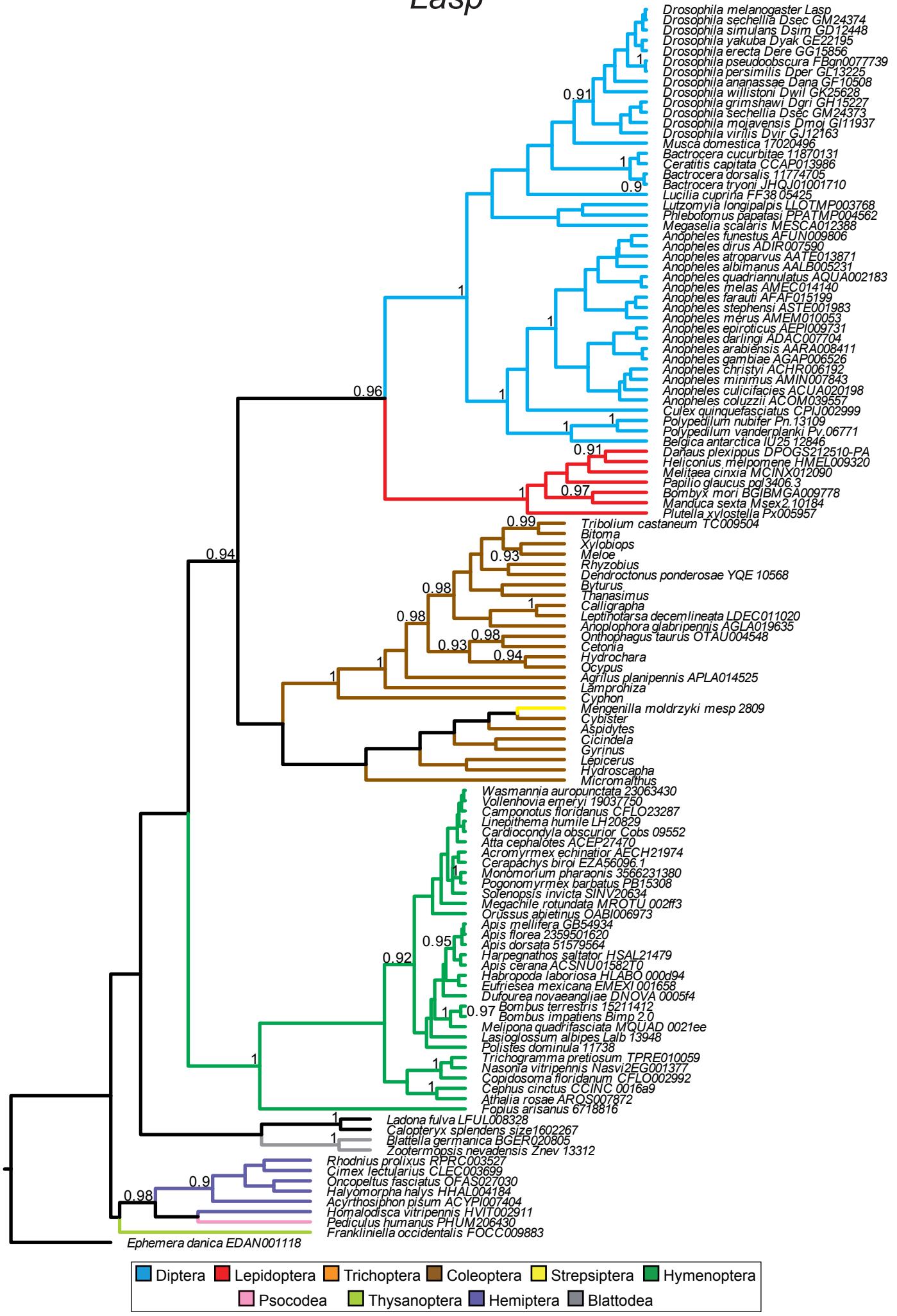


Diptera	Lepidoptera	Trichoptera	Coleoptera	Strepsiptera	Hymenoptera
Psocodea	Thysanoptera	Hemiptera	Blattodea		

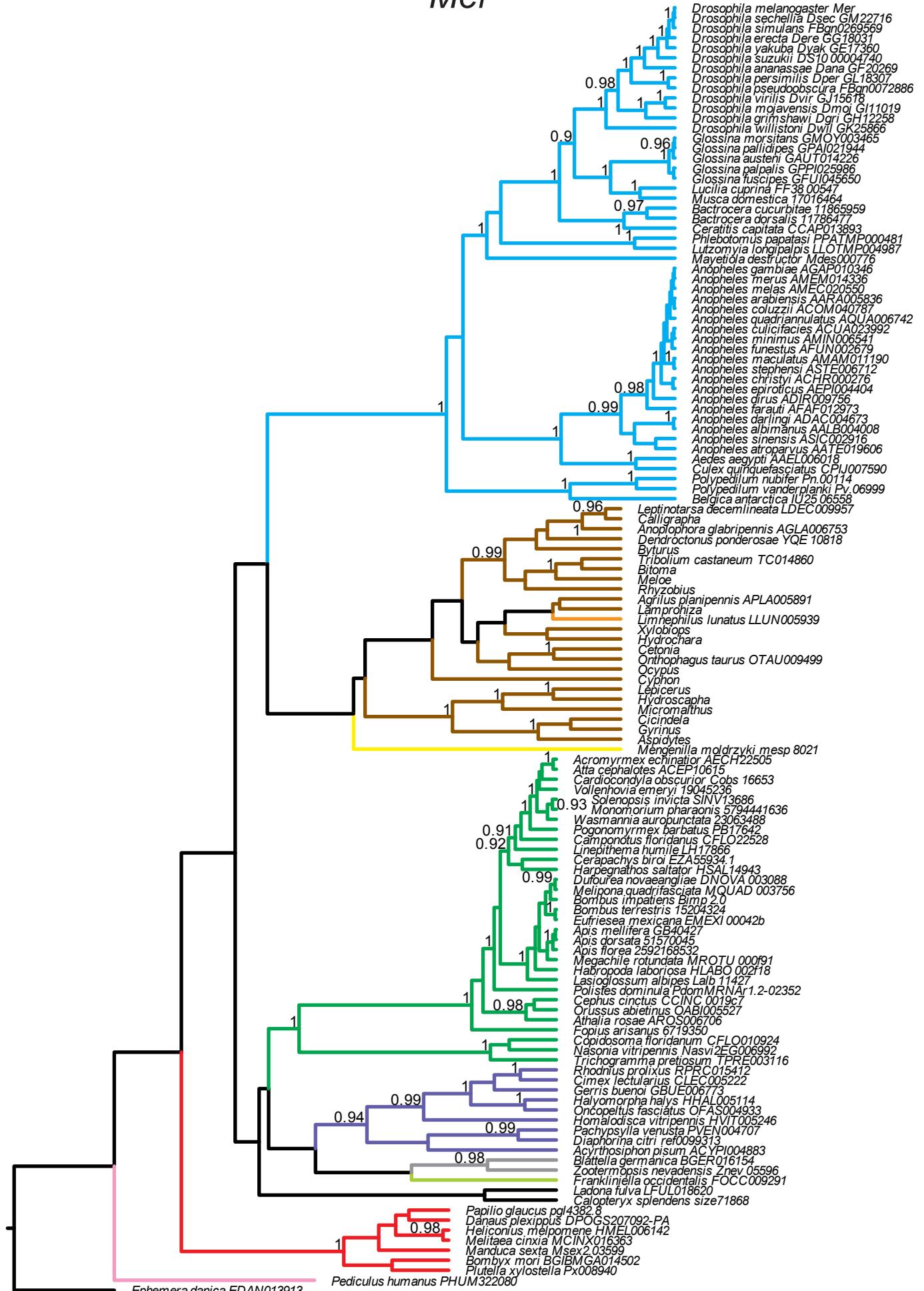
klhl10



Lasp

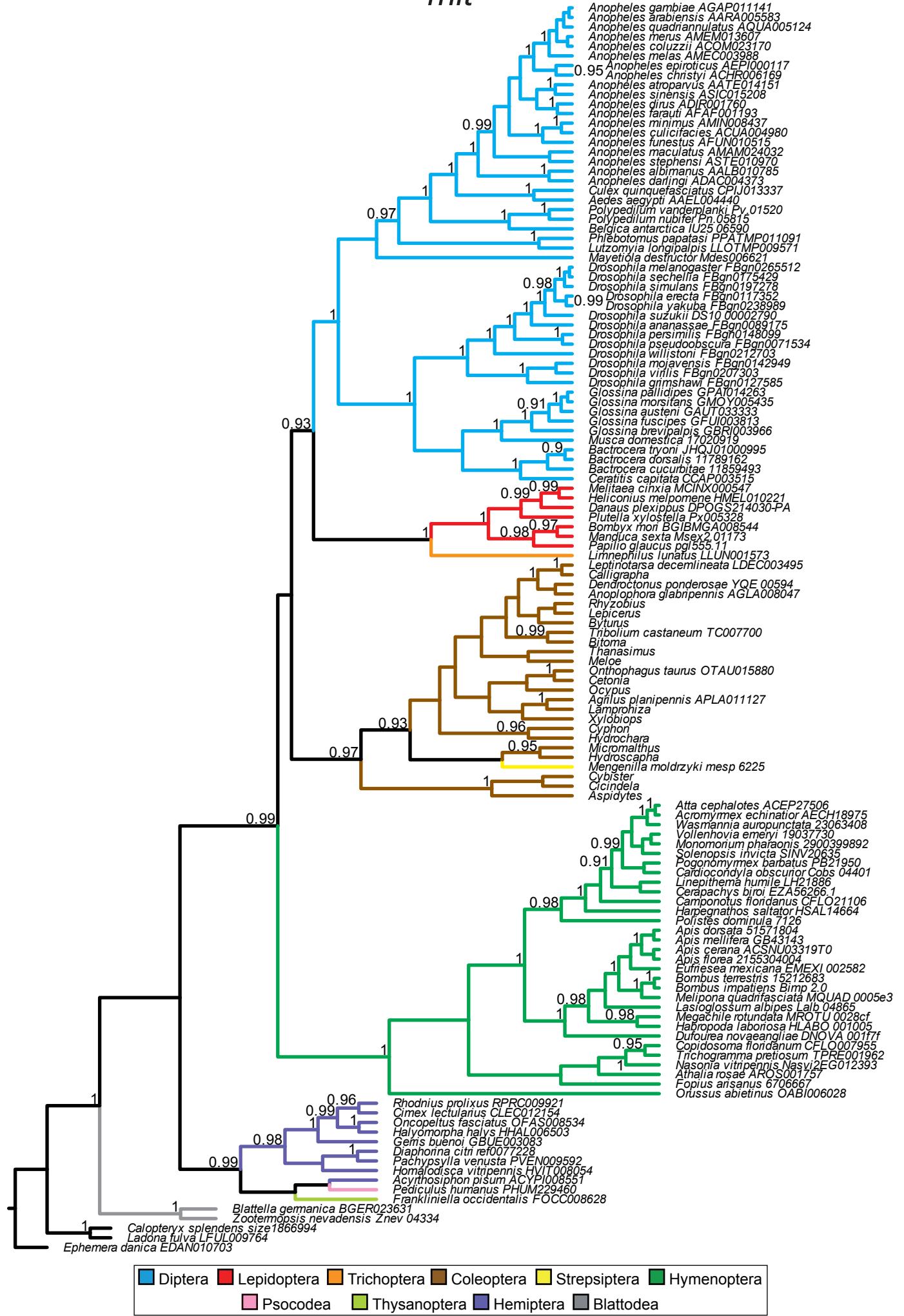


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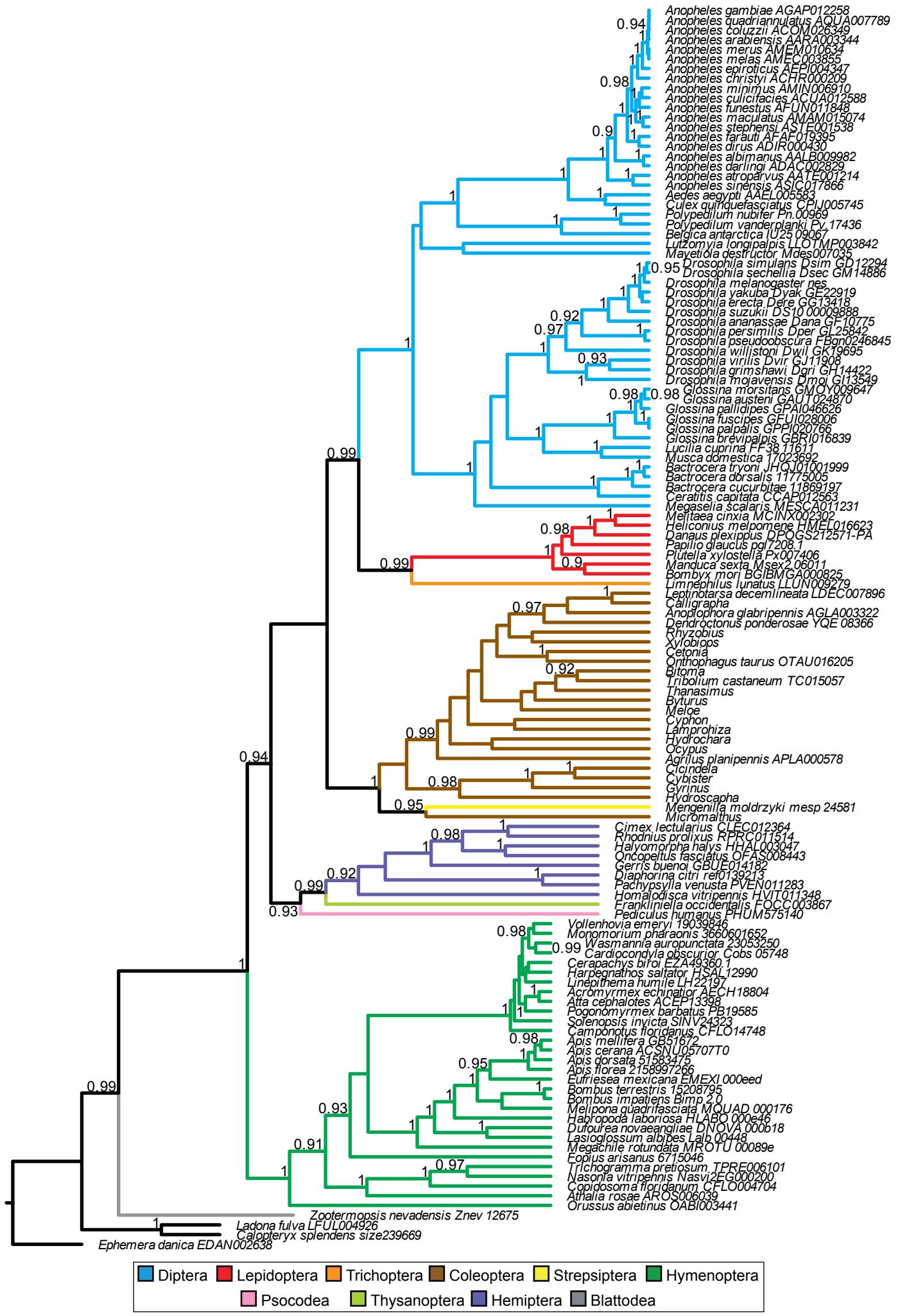


■ Diptera	■ Lepidoptera	■ Trichoptera	■ Coleoptera	■ Strepsiptera	■ Hymenoptera
■ Psocodea	■ Thysanoptera	■ Hemiptera	■ Blattodea		

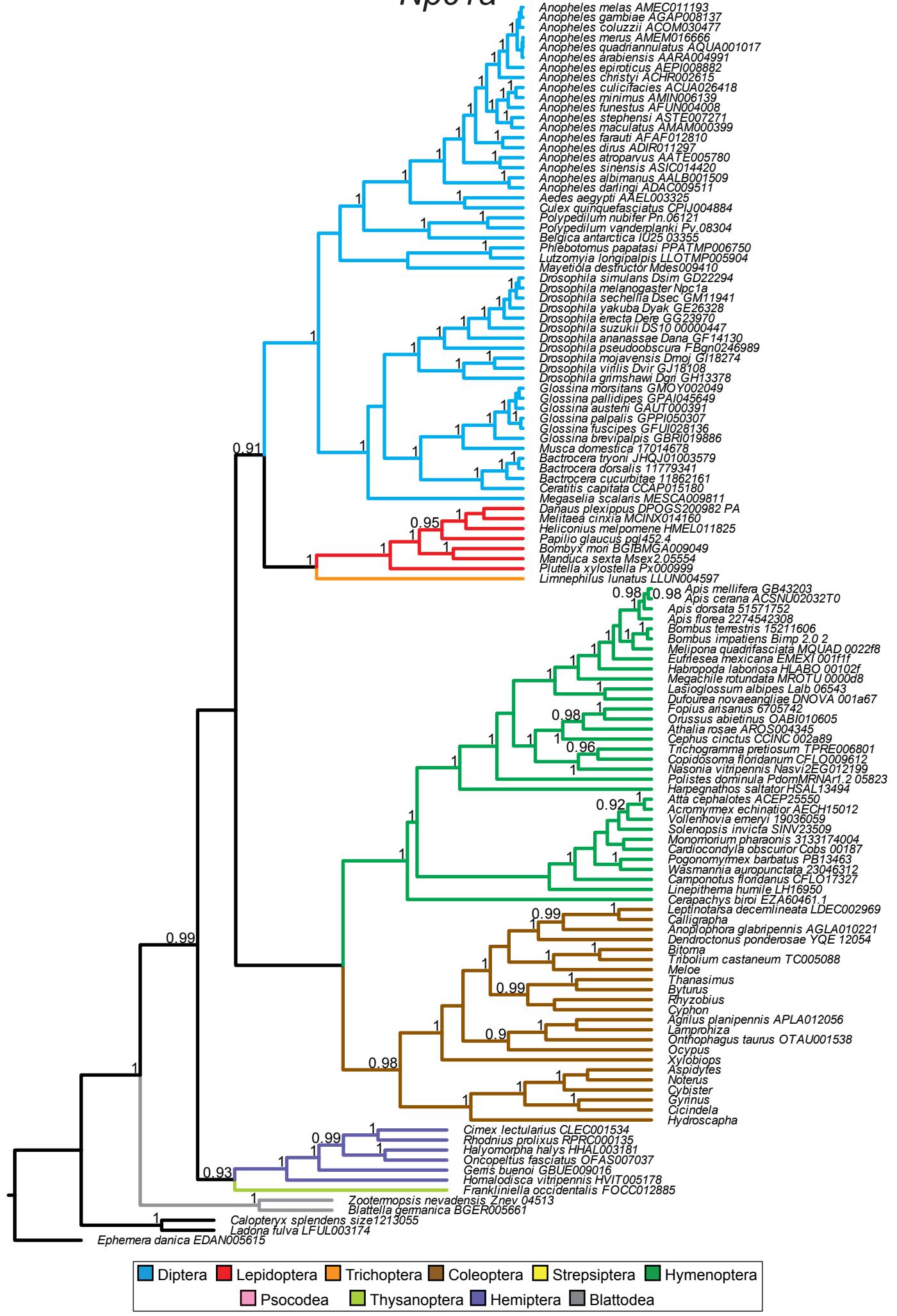
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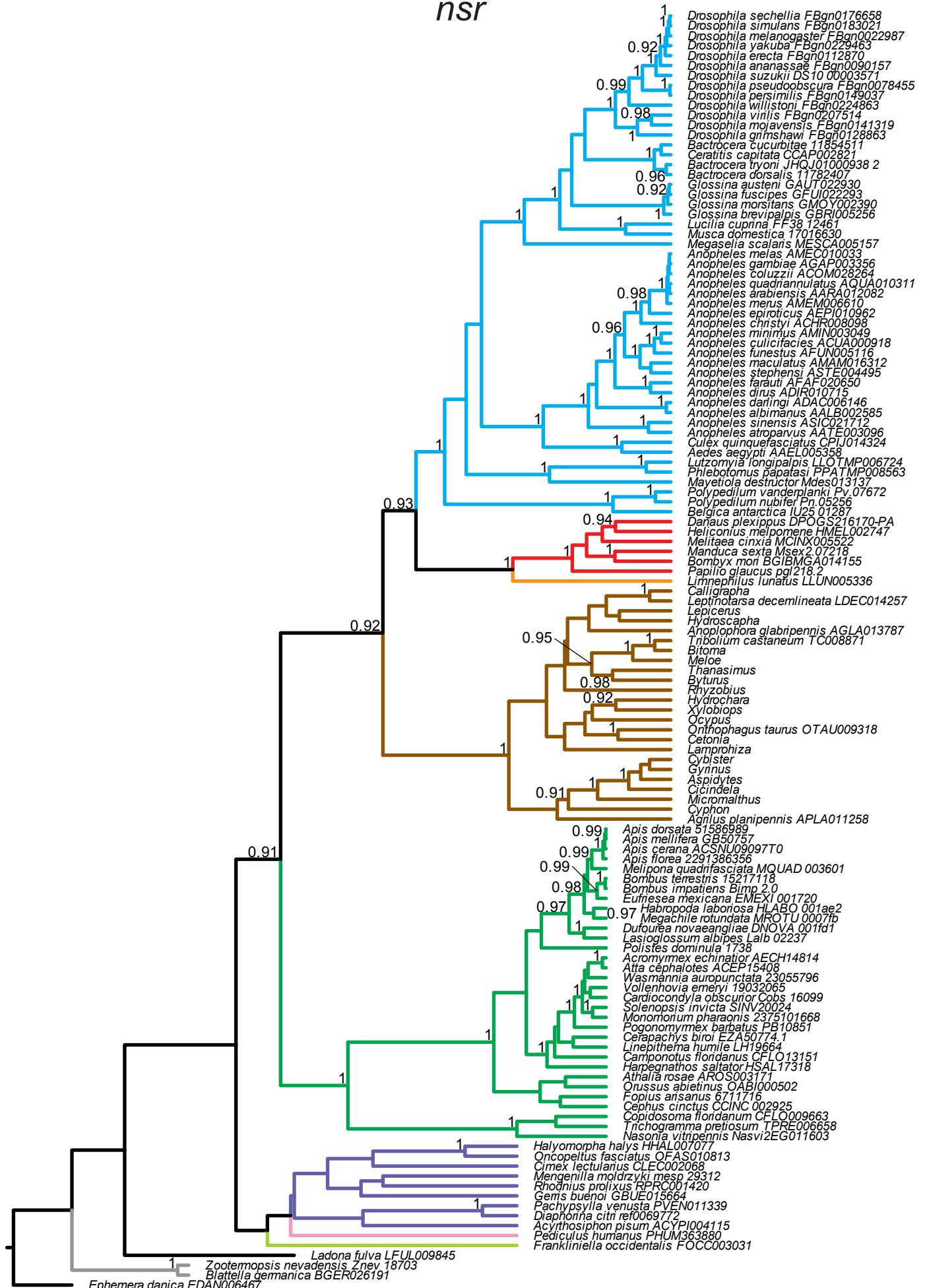
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Npc1a

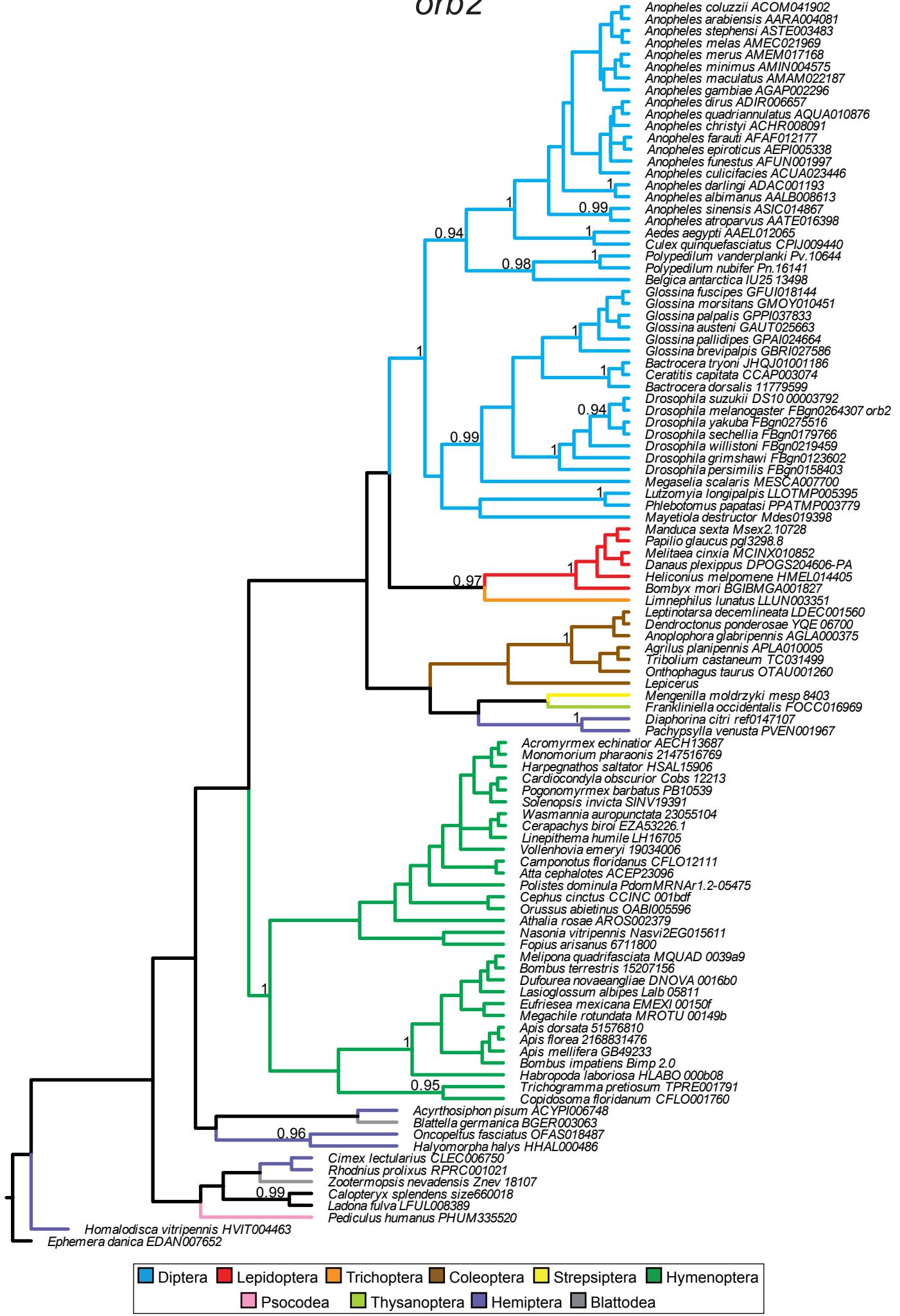


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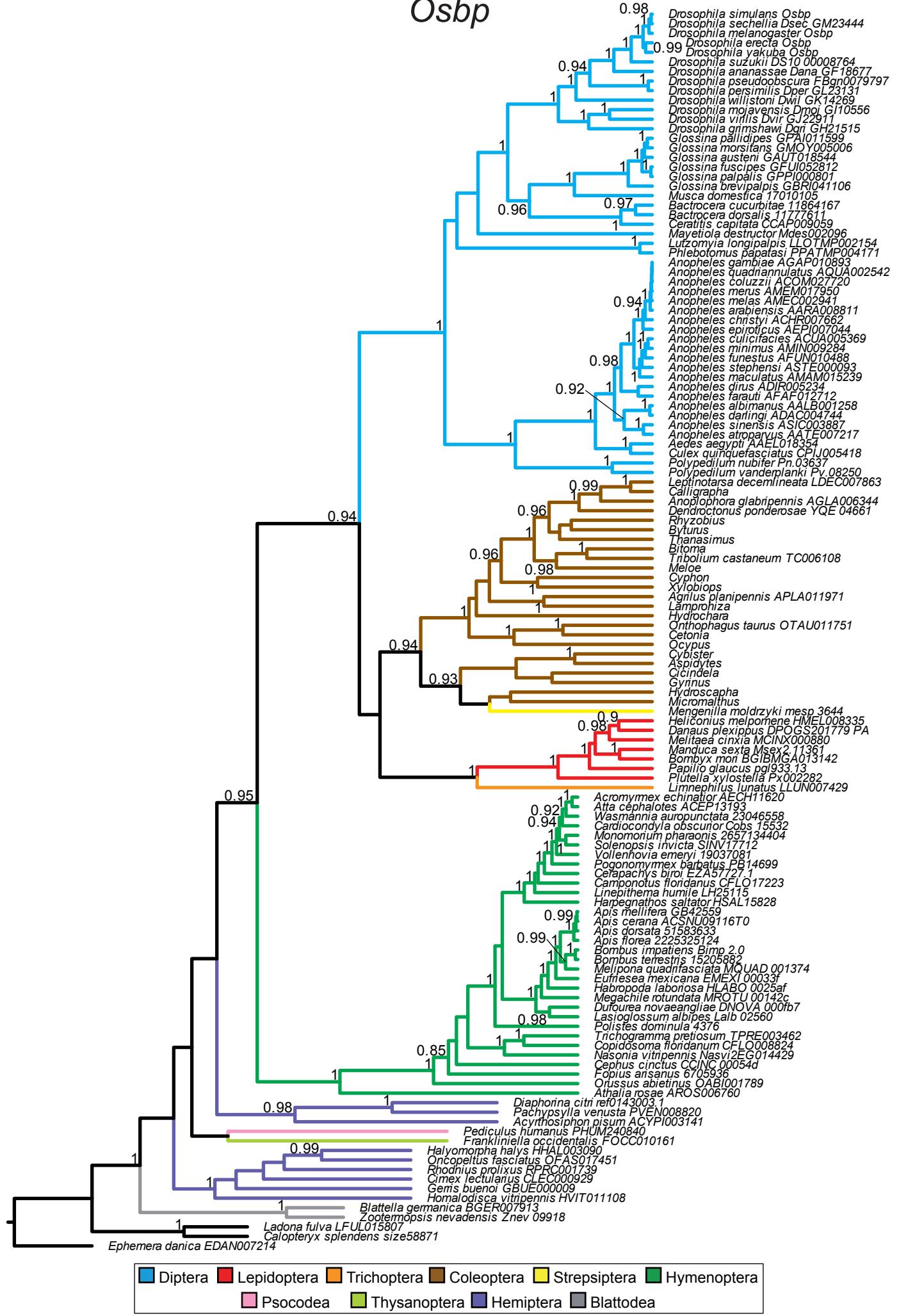


█ Diptera	█ Lepidoptera	█ Trichoptera	█ Coleoptera	█ Strepsiptera	█ Hymenoptera	
█ Psocodea	█ Thysanoptera	█ Hemiptera	█ Blattodea			

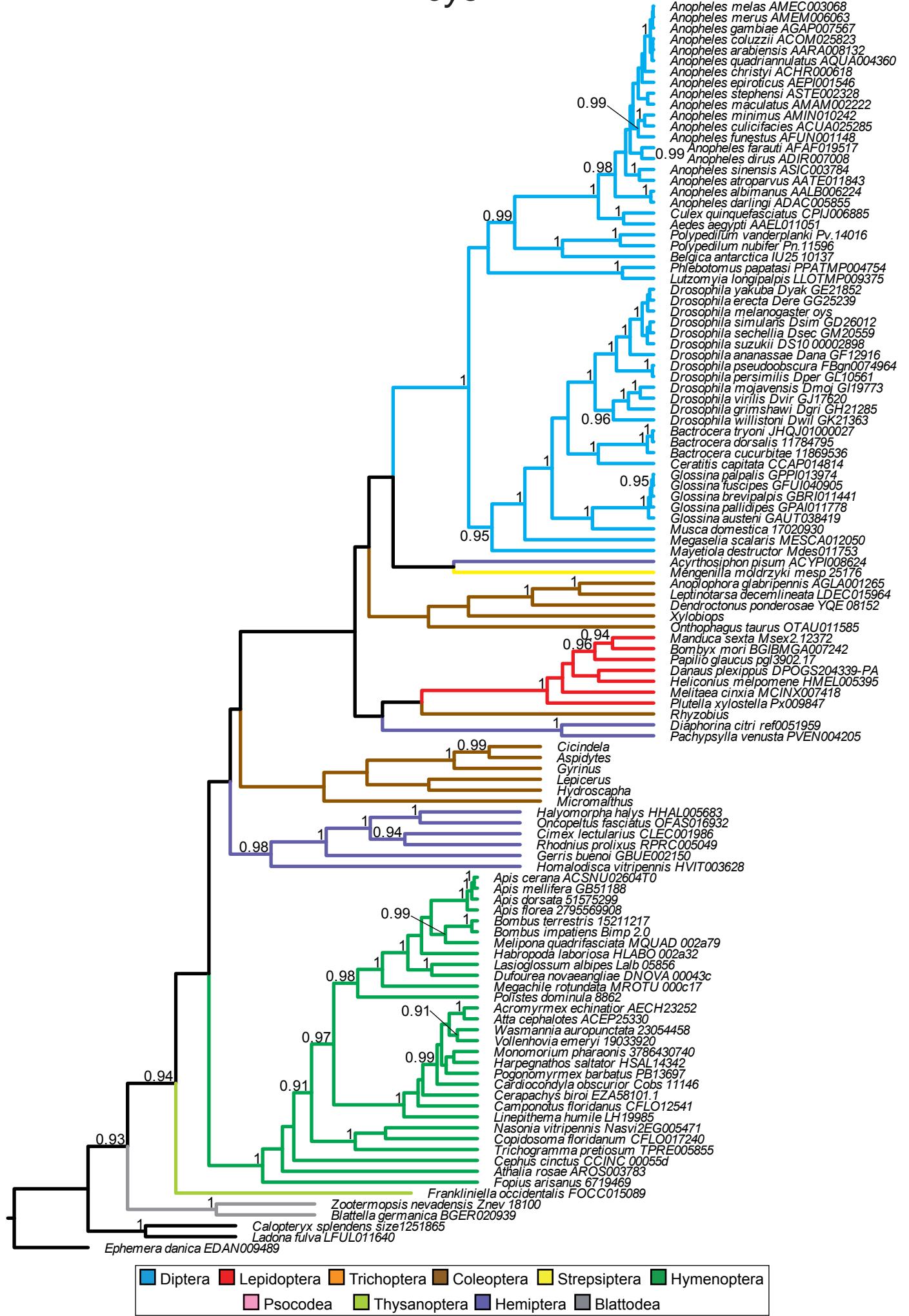
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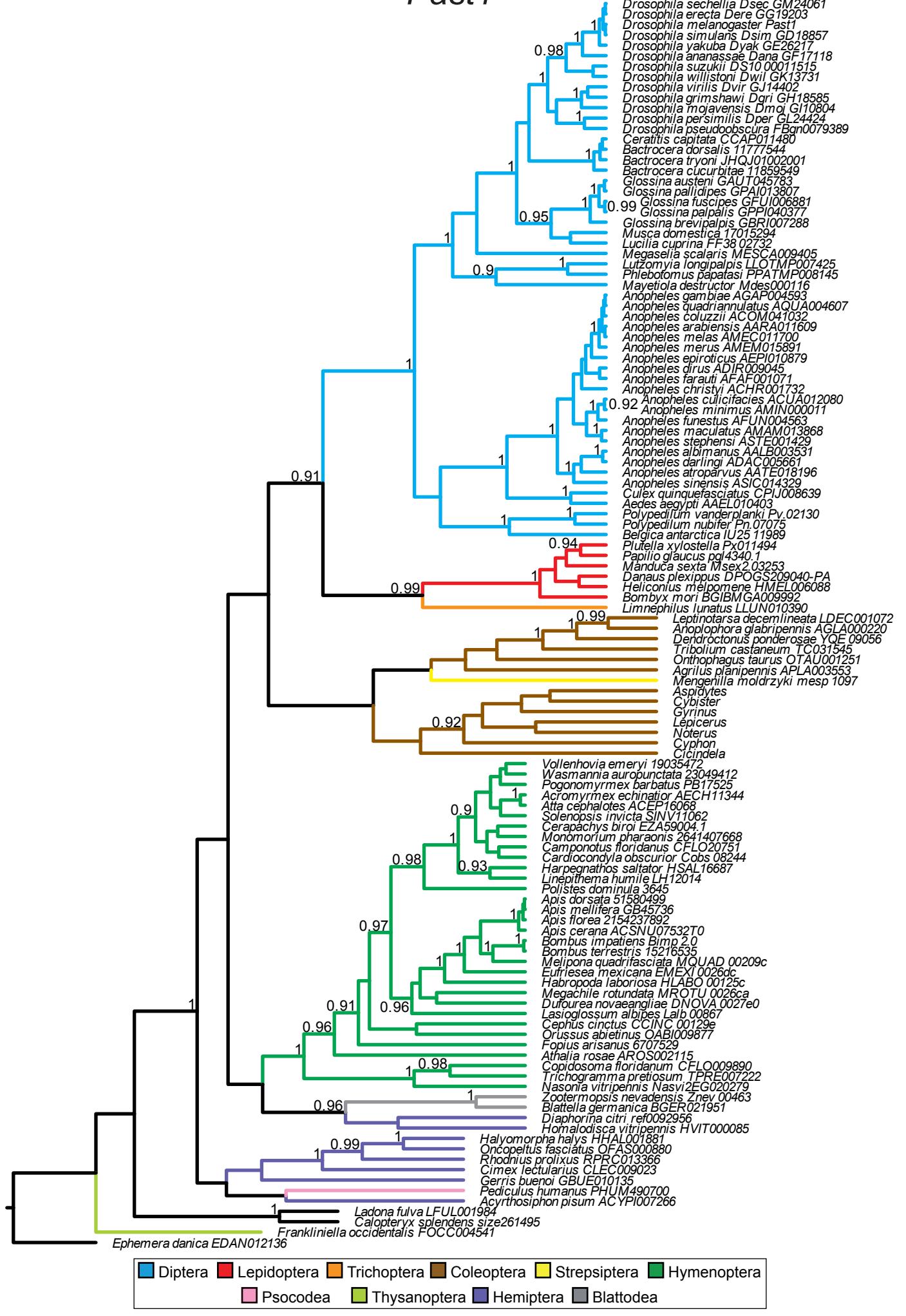
Osbp



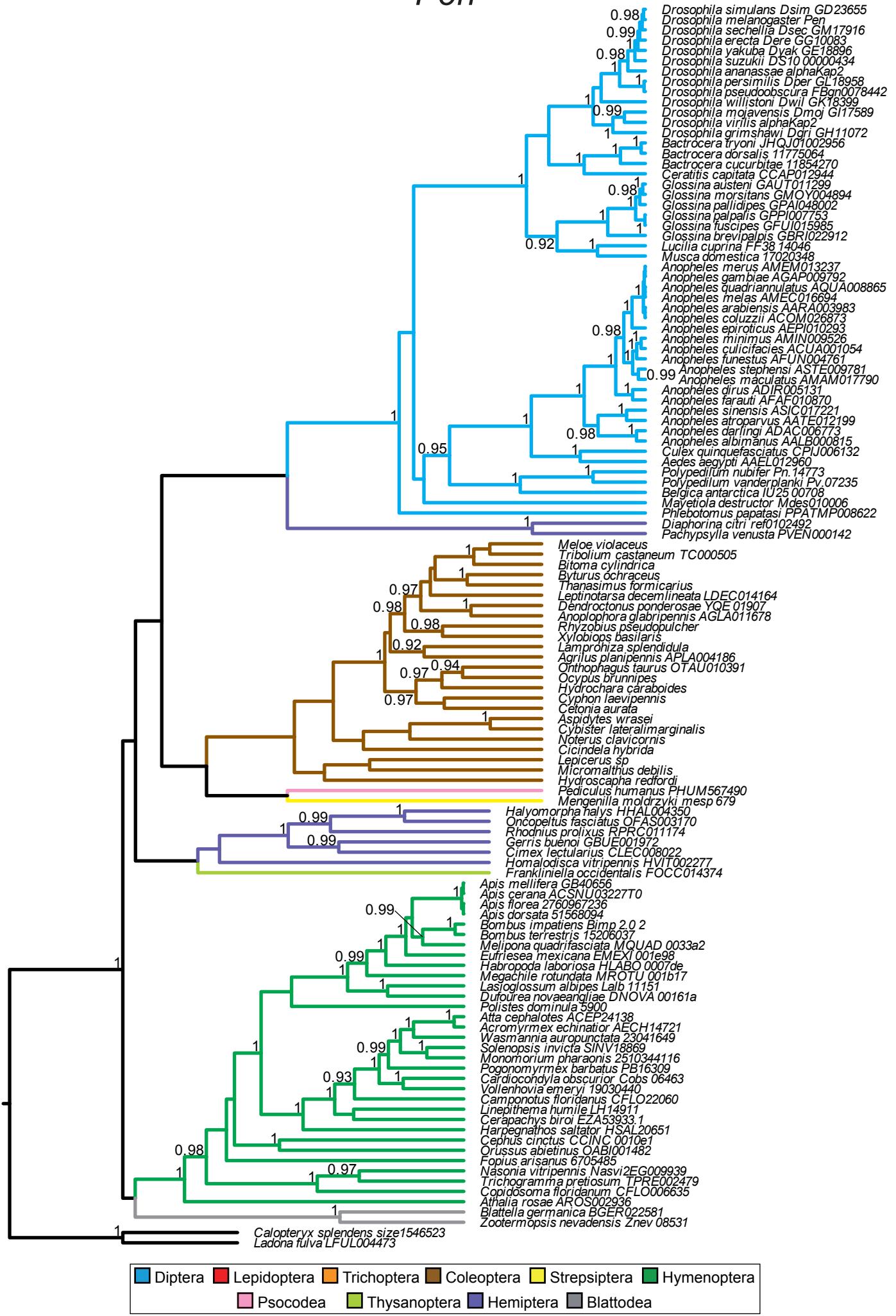
oys



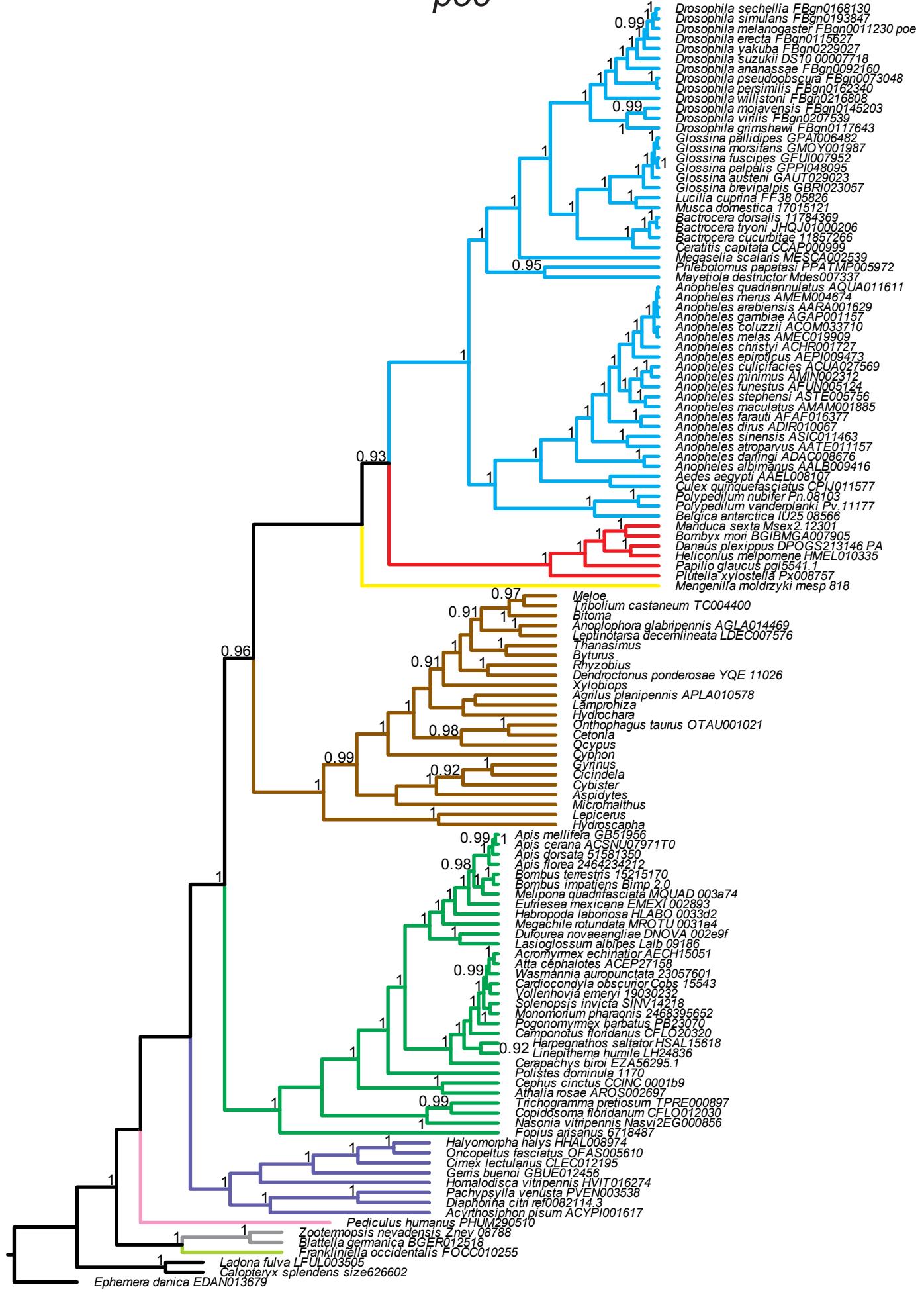
Past1



Pen

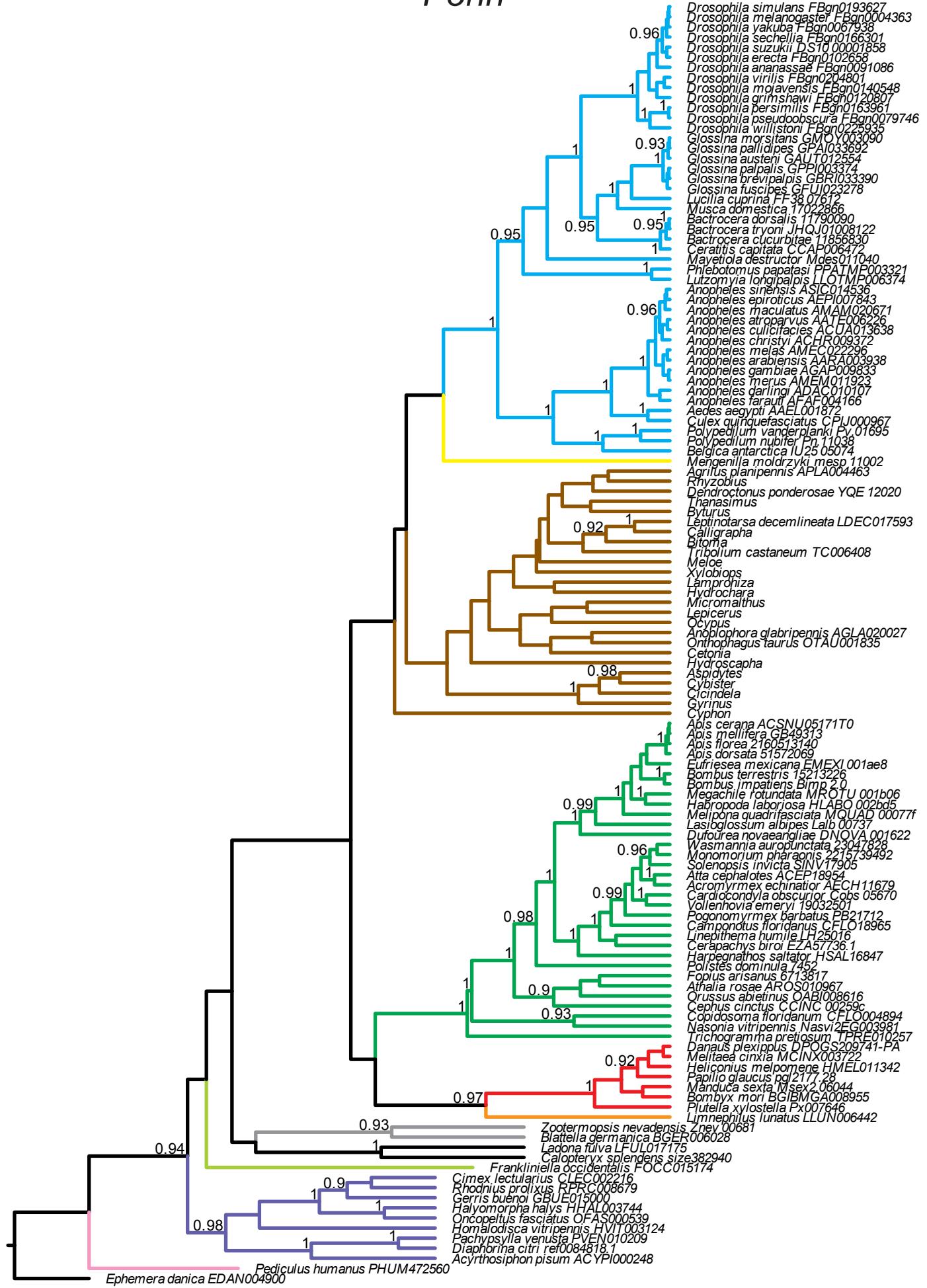


poe



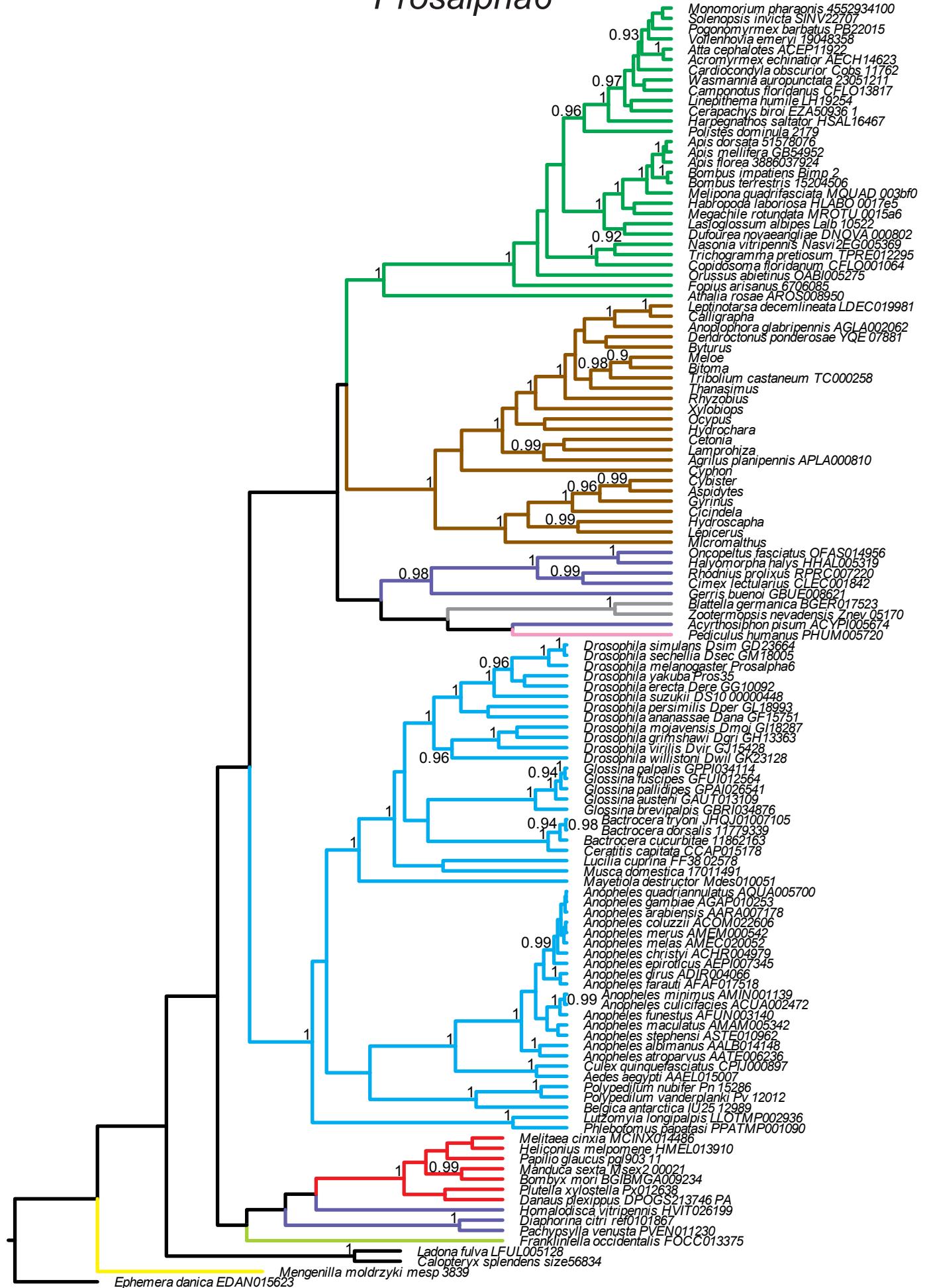
█ Diptera	█ Lepidoptera	█ Trichoptera	█ Coleoptera	█ Strepsiptera	█ Hymenoptera
█ Psocodea	█ Thysanoptera	█ Hemiptera	█ Blattodea		

Porin



■	Diptera	■	Lepidoptera	■	Trichoptera	■	Coleoptera	■	Strepsiptera	■	Hymenoptera
■	Psocodea	■	Thysanoptera	■	Hemiptera	■	Blattodea				

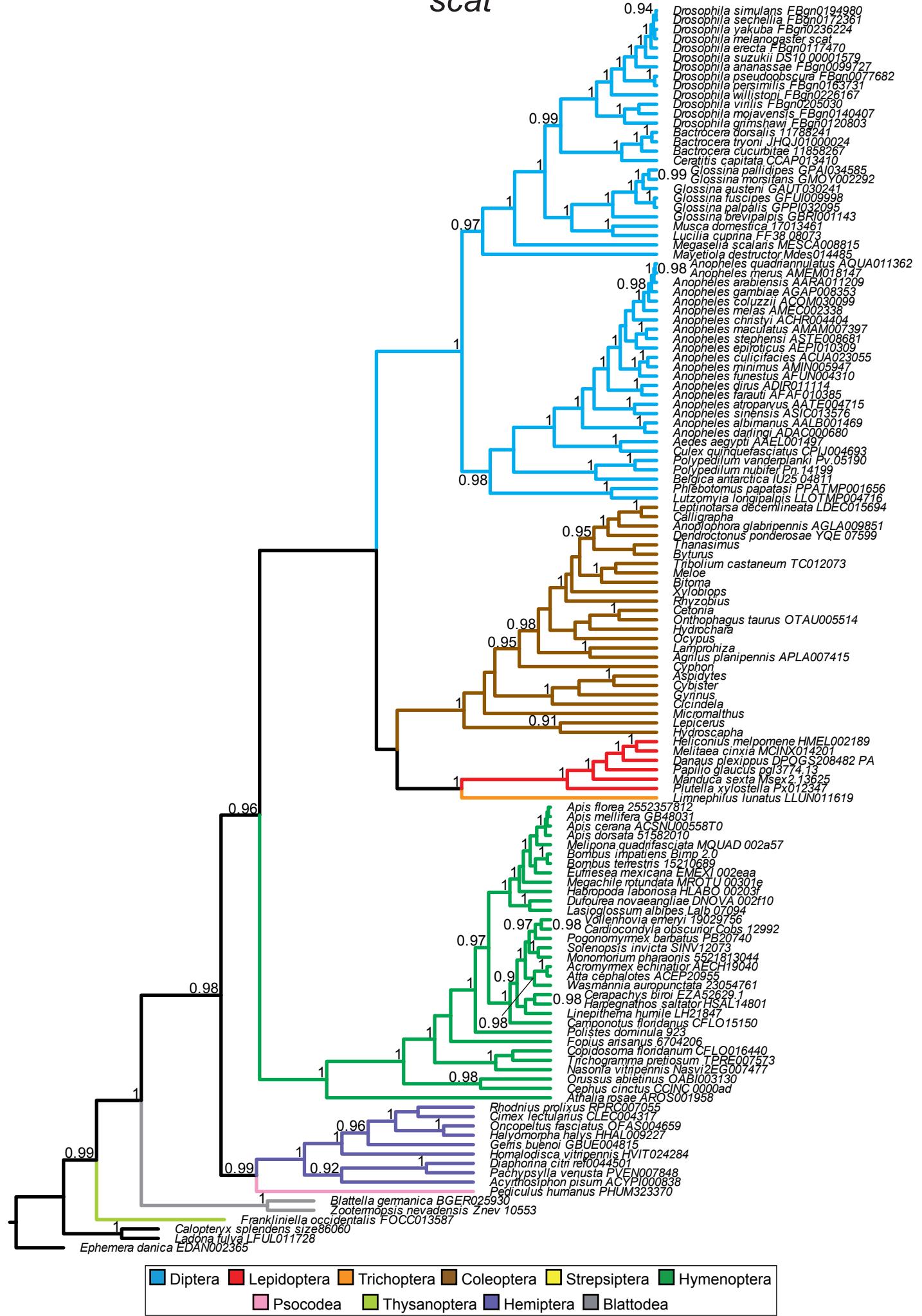
Prosalpha6



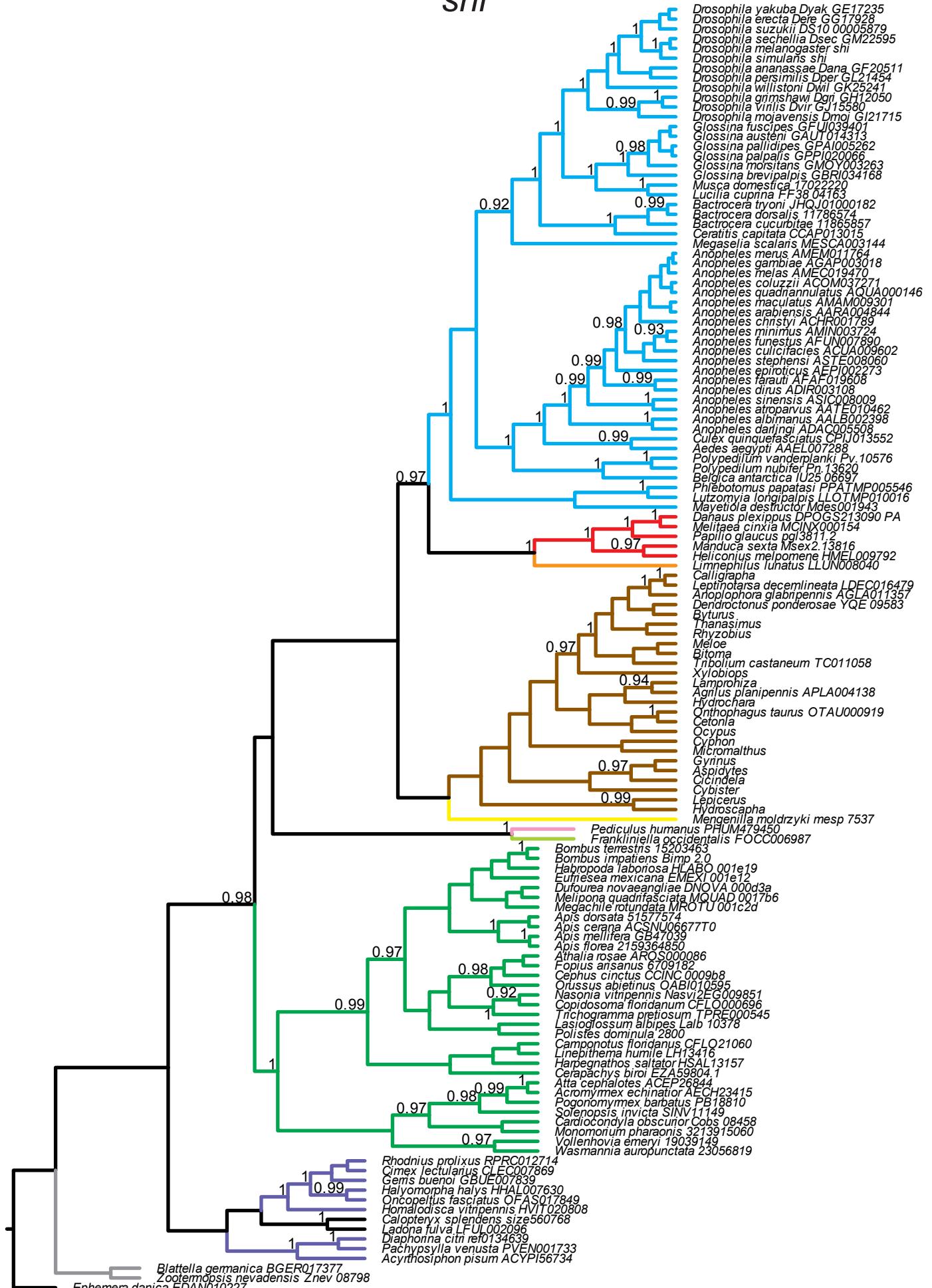
Legend:

- Diptera
- Lepidoptera
- Trichoptera
- Coleoptera
- Strepsiptera
- Hymenoptera
- Psocodea
- Thysanoptera
- Hemiptera
- Blattodea

scat



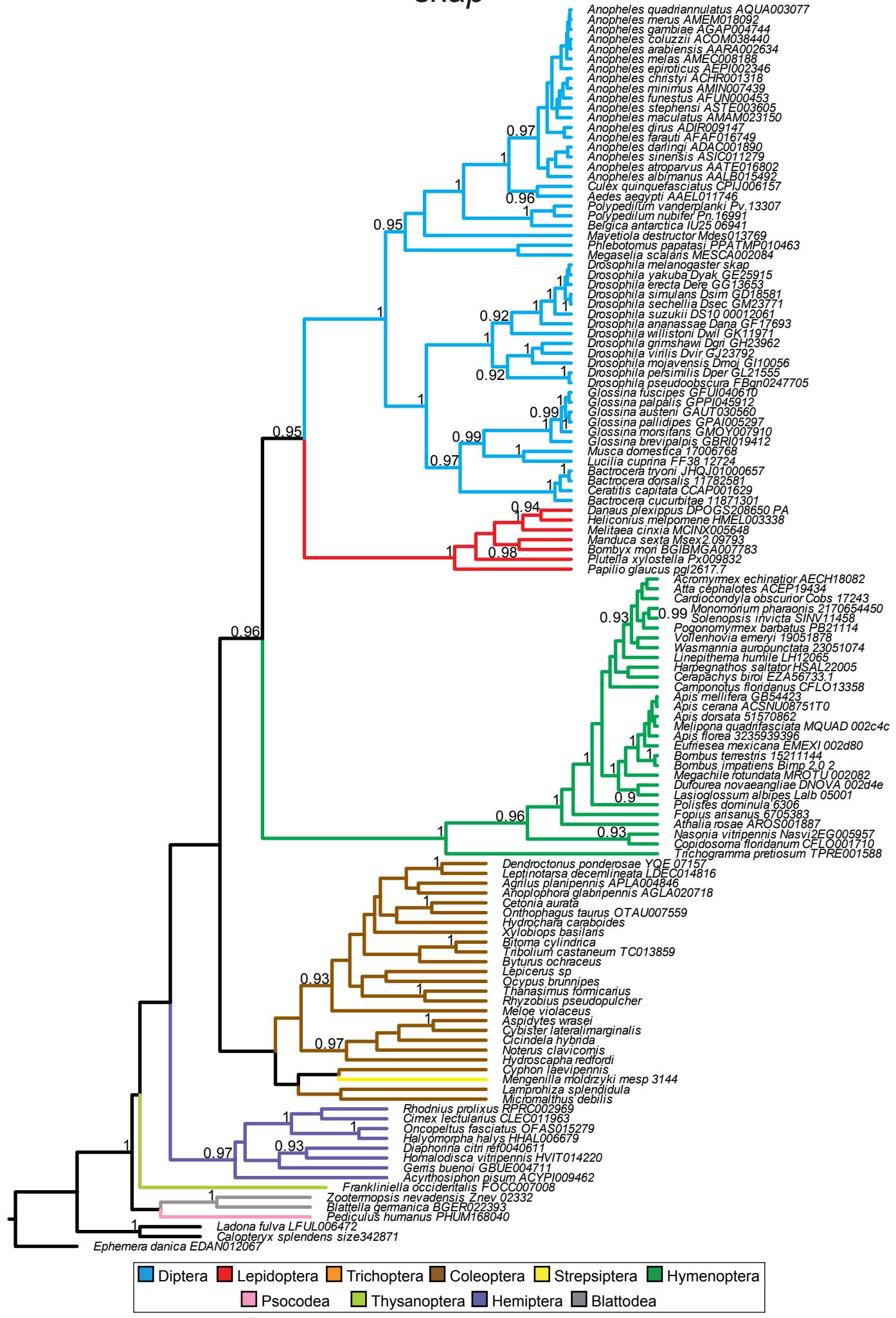
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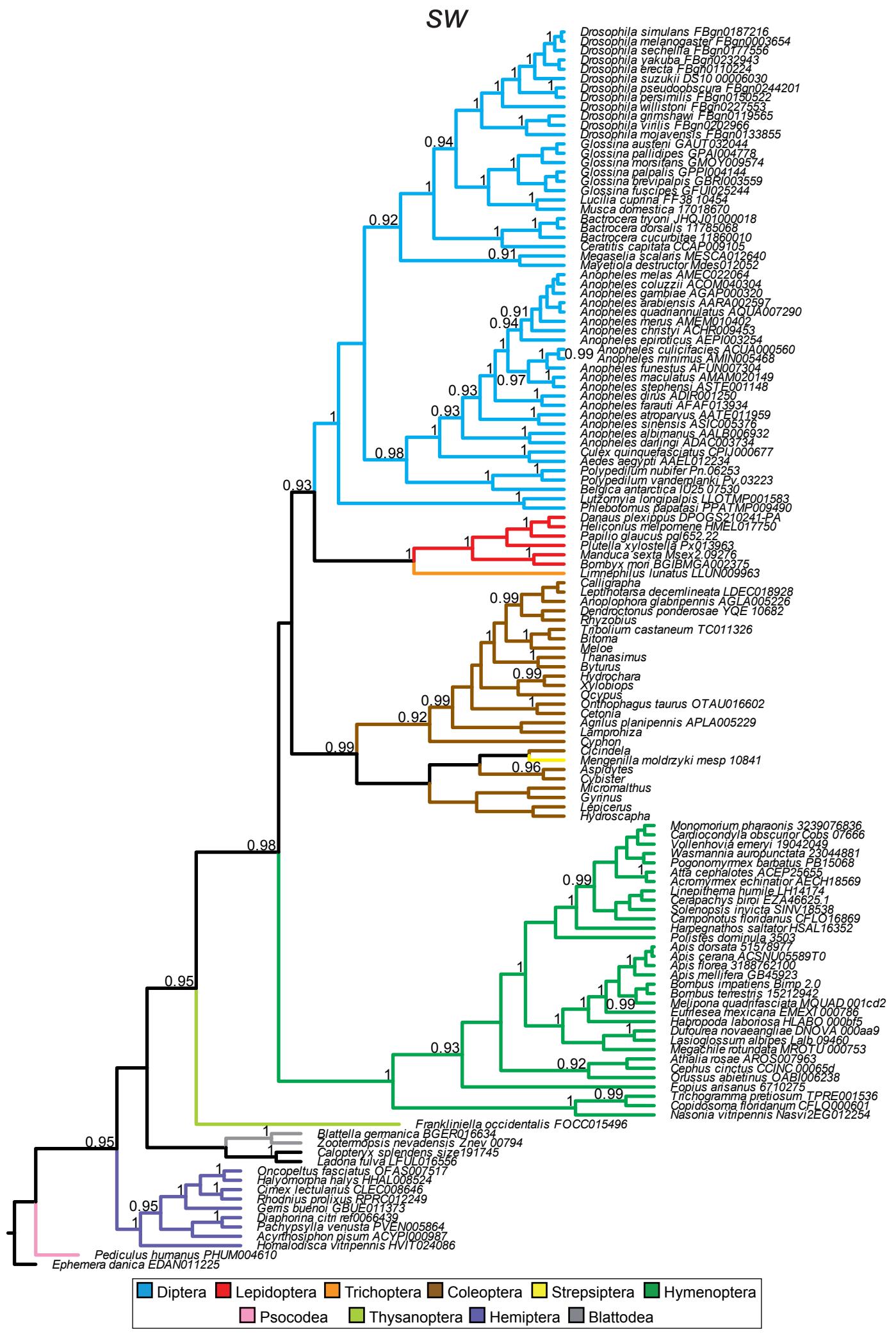


Legend:

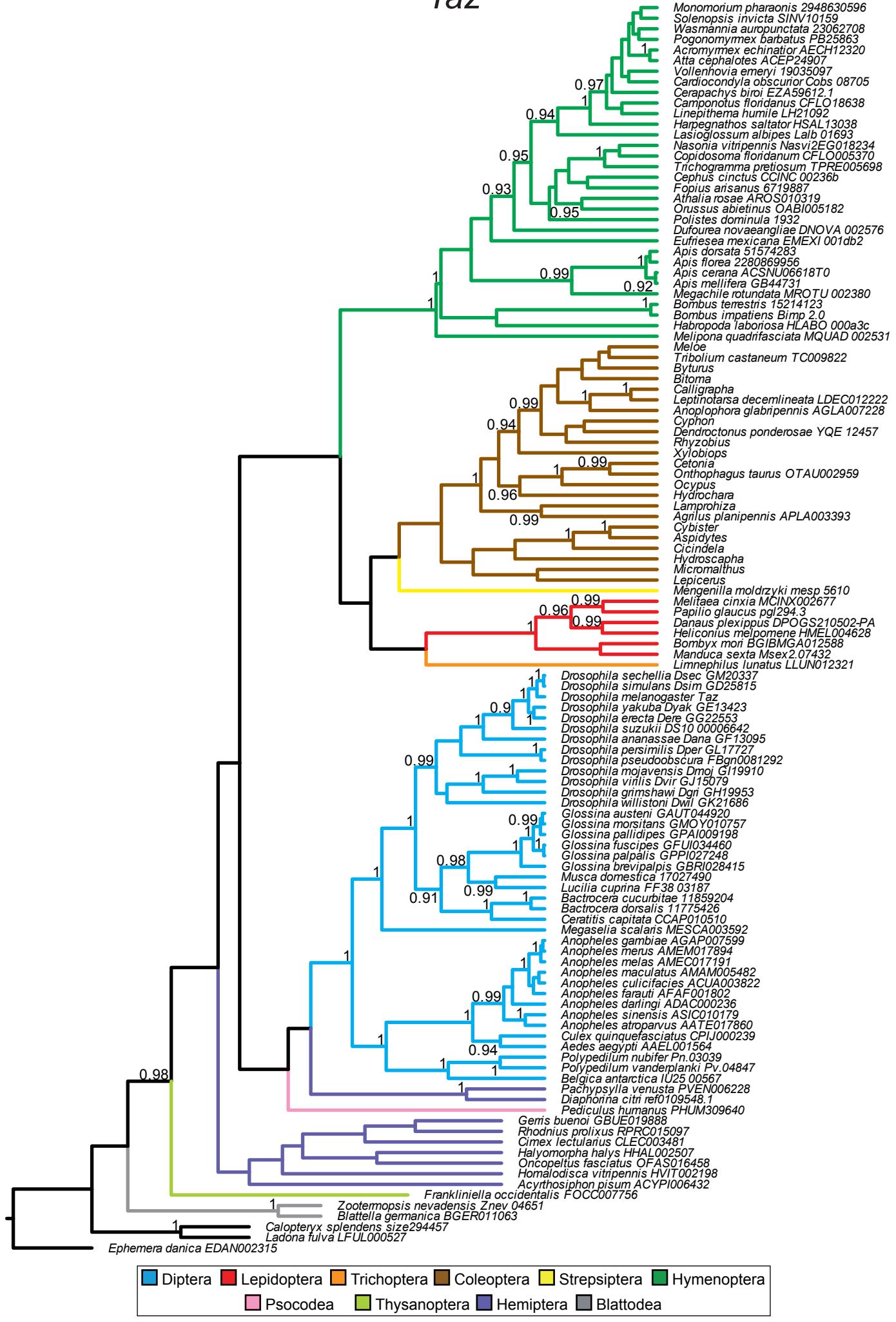
- Diptera
- Lepidoptera
- Trichoptera
- Coleoptera
- Strepsiptera
- Hymenoptera
- Psocodea
- Thysanoptera
- Hemiptera
- Blattodea

skap

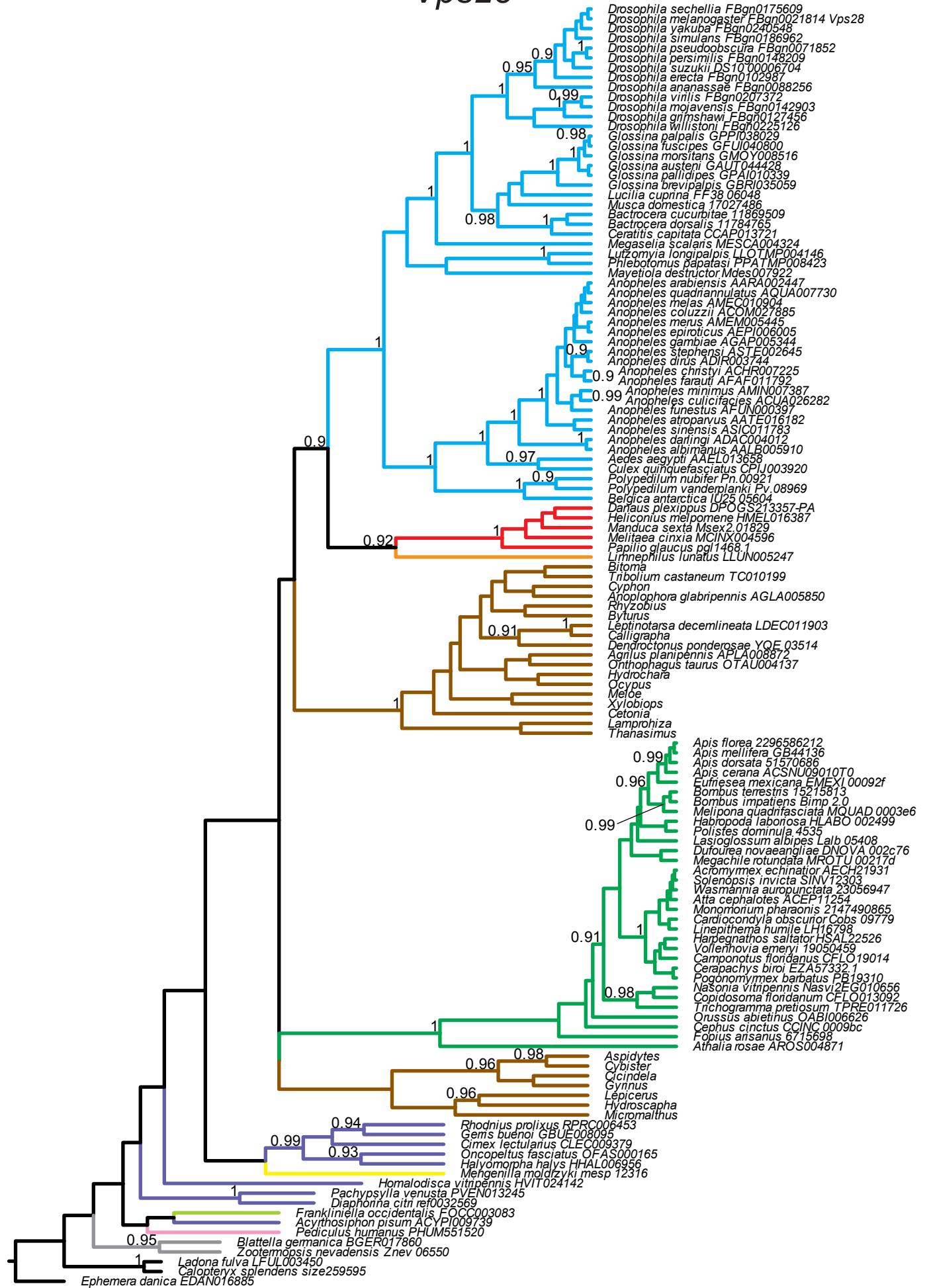




Taz



Vps28

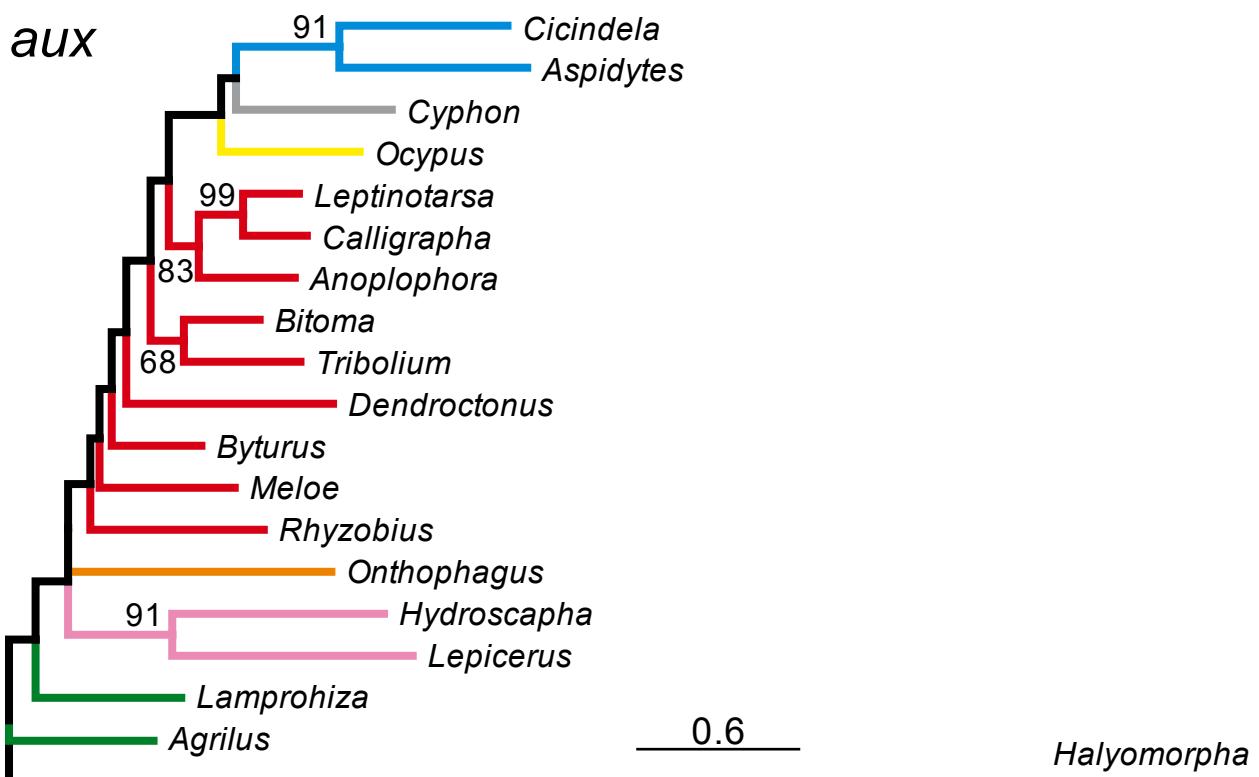
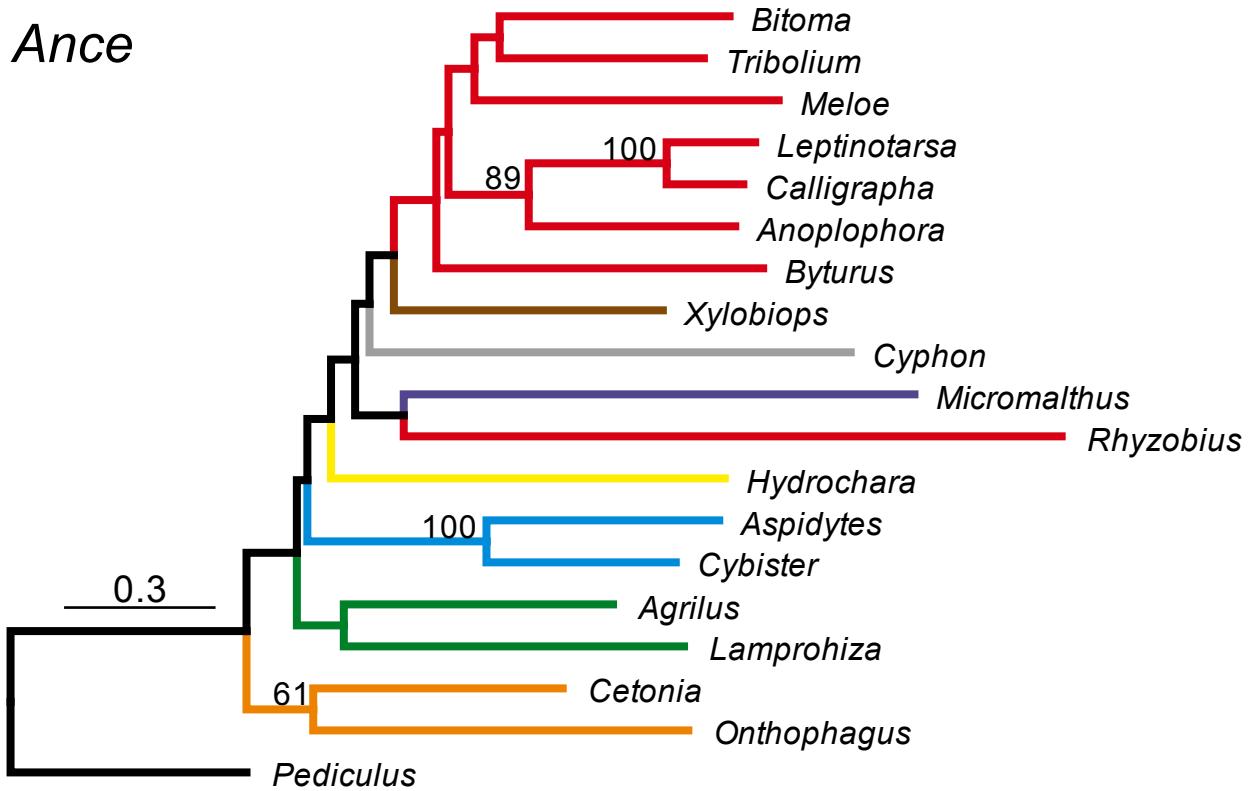


Legend:

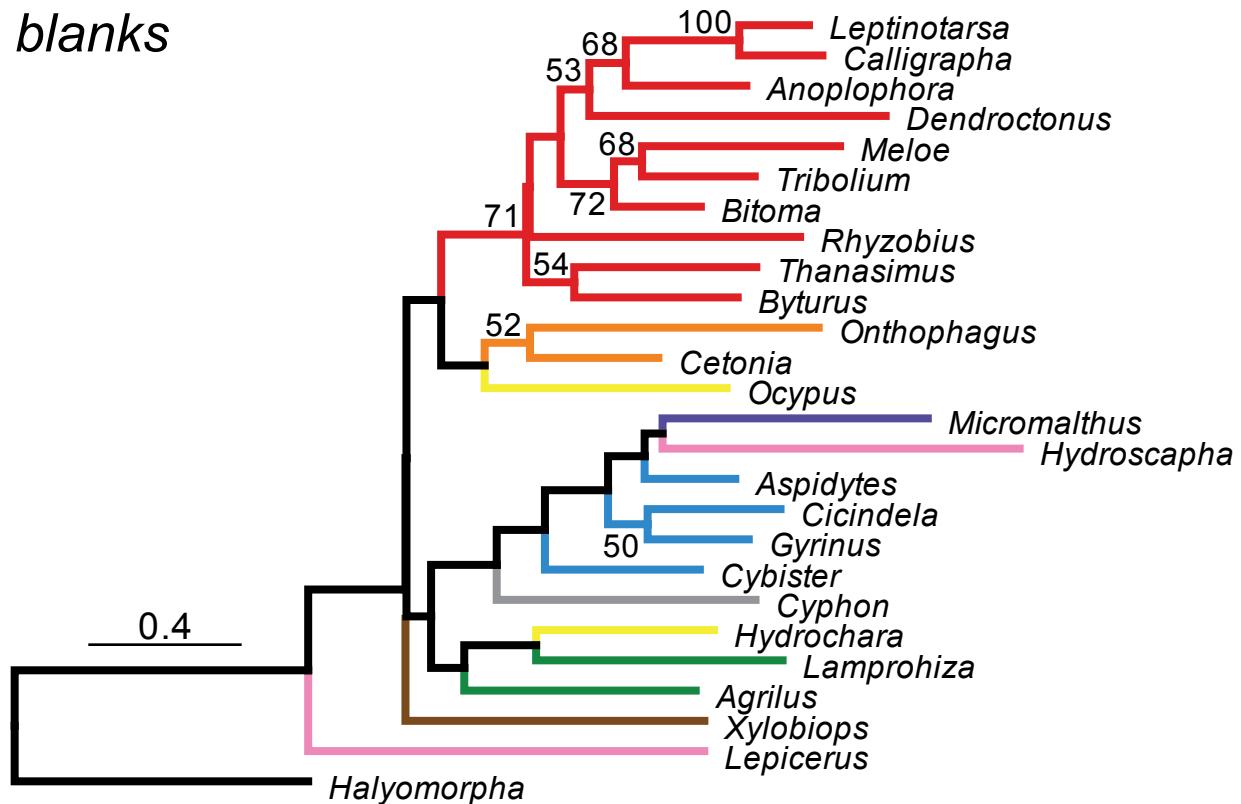
- Diptera (Blue)
- Lepidoptera (Red)
- Trichoptera (Orange)
- Coleoptera (Brown)
- Strepsiptera (Yellow)
- Hymenoptera (Green)
- Psocodea (Pink)
- Thysanoptera (Light Green)
- Hemiptera (Purple)
- Blattodea (Grey)

File S3. Maximum likelihood trees based on the nucleotide alignments of different sperm individualization genes in beetles.

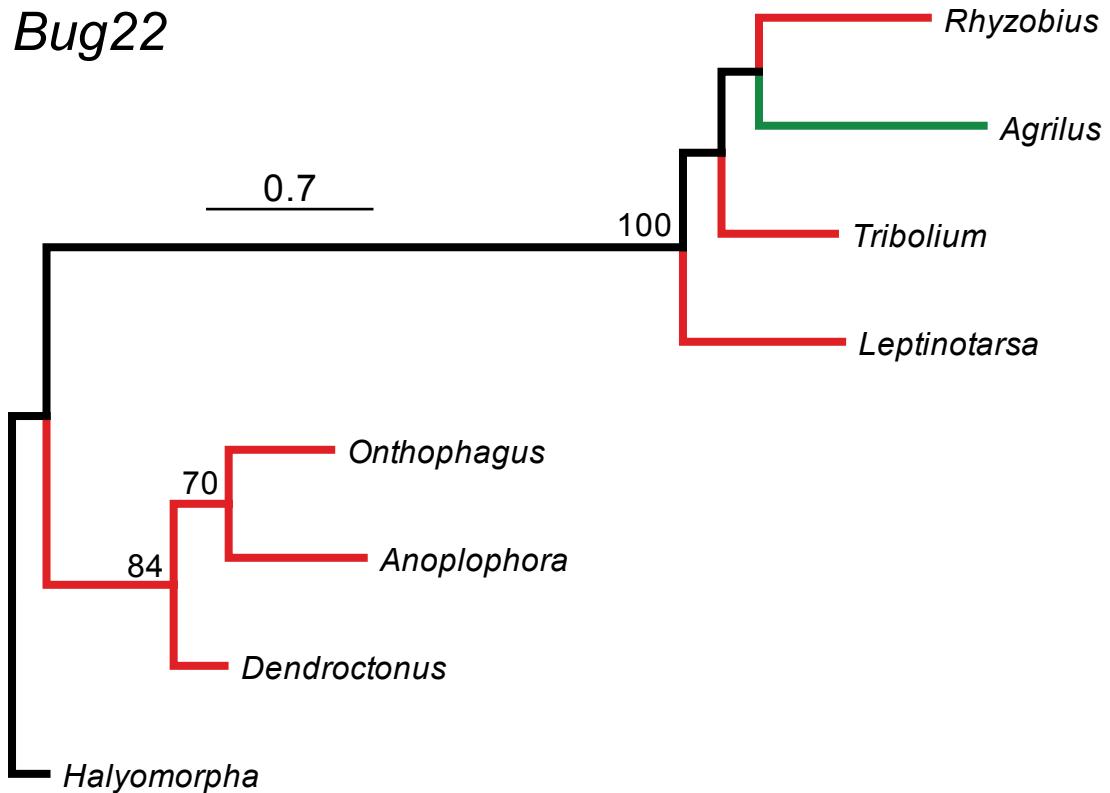
Tree	Gene	Model	Gamma	Invariant	Log likelihood
1	<i>Ance</i>	GTR	0.660	0.146	-24961.88327
2	<i>aux</i>	GTR	0.386	0.070	-27681.59804
3	<i>blanks</i>	GTR	0.931	0.100	-12607.08759
4	<i>Bug22</i>	GTR	0.222	NA	-3454.61489
5	<i>CdsA</i>	GTR	0.290	0.154	-17968.57896
6	<i>Chc</i>	GTR	0.368	0.379	-55858.11062
7	<i>Ctp</i>	GTR	0.096	NA	-1384.6439
8	<i>Cul3</i>	TN93	0.175	0.204	-28997.57548
9	<i>Dark</i>	GTR	1.265	0.092	-20388.14695
10	<i>didum</i>	GTR	0.759	0.209	-60072.64694
11	<i>Dredd</i>	GTR	1.197	0.096	-14618.72638
12	<i>Dronc</i>	GTR	1.355	0.099	-15698.08633
13	<i>Duba</i>	GTR	0.527	0.176	-12010.48828
14	<i>EcR</i>	GTR	0.449	0.365	-12199.45136
15	<i>eIF3m</i>	GTR	0.329	0.137	-18855.00527
16	<i>Fadd</i>	GTR	1.321	0.084	-4356.88960
17	<i>gish</i>	GTR	0.211	0.170	-15923.19717
18	<i>gudu</i>	GTR	0.618	0.135	-22338.05316
19	<i>heph</i>	TN93	0.396	0.275	-8479.41719
20	<i>hmw</i>	GTR	0.898	NA	-1707.47296
21	<i>jar</i>	GTR	0.708	0.241	-52172.98272
22	<i>klhl10</i>	GTR	0.504	0.239	-17745.77407
23	<i>Lasp</i>	GTR	0.474	0.351	-5407.13219
24	<i>Mer</i>	GTR	0.598	0.356	-22473.10341
25	<i>mlt</i>	GTR	0.593	0.196	-19352.46023
26	<i>nes</i>	GTR	0.911	0.148	-25494.50312
27	<i>Npc1a</i>	GTR	0.724	0.204	-58520.58794
28	<i>nsr</i>	GTR	0.287	0.143	-11564.48392
29	<i>orb2</i>	GTR	0.327	0.450	-4091.42072
30	<i>Osbp</i>	GTR	0.699	0.244	-29993.57419
31	<i>oys</i>	GTR	0.773	0.158	-15795.25364
32	<i>Past1</i>	GTR	0.474	0.325	-14648.80870
33	<i>Pen</i>	GTR	0.676	0.232	-26388.05898
34	<i>poe</i>	GTR	0.590	0.253	-50399.32806
35	<i>porin</i>	GTR	0.674	0.191	-15348.95453
36	<i>Prosalpha6T</i>	GTR	0.659	0.312	-13745.91664
37	<i>scat</i>	GTR	0.556	0.147	-34071.26981
38	<i>shi</i>	GTR	0.552	0.395	-34985.87502
39	<i>skap</i>	GTR	0.596	0.317	-20864.74113
40	<i>sw</i>	GTR	0.473	0.265	-21539.32783
41	<i>Taz</i>	GTR	0.717	0.284	-11982.00743
42	<i>Vps28</i>	GTR	0.241	0.154	-7981.57649



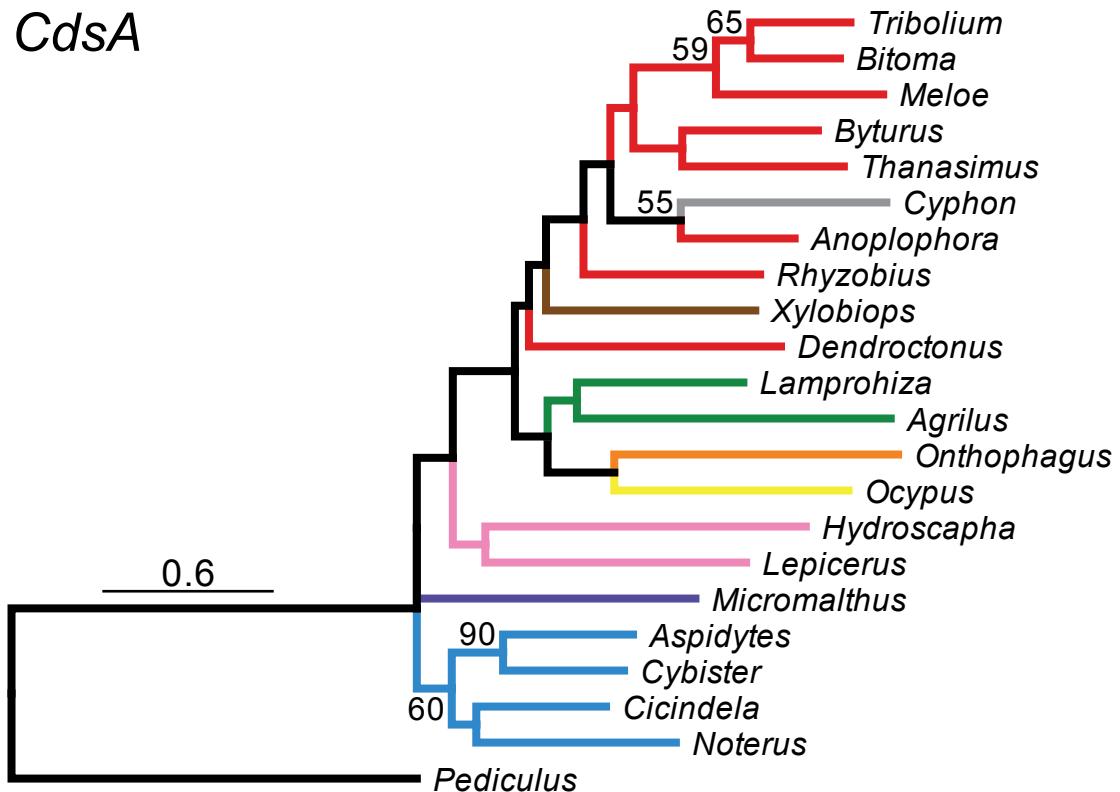
blanks



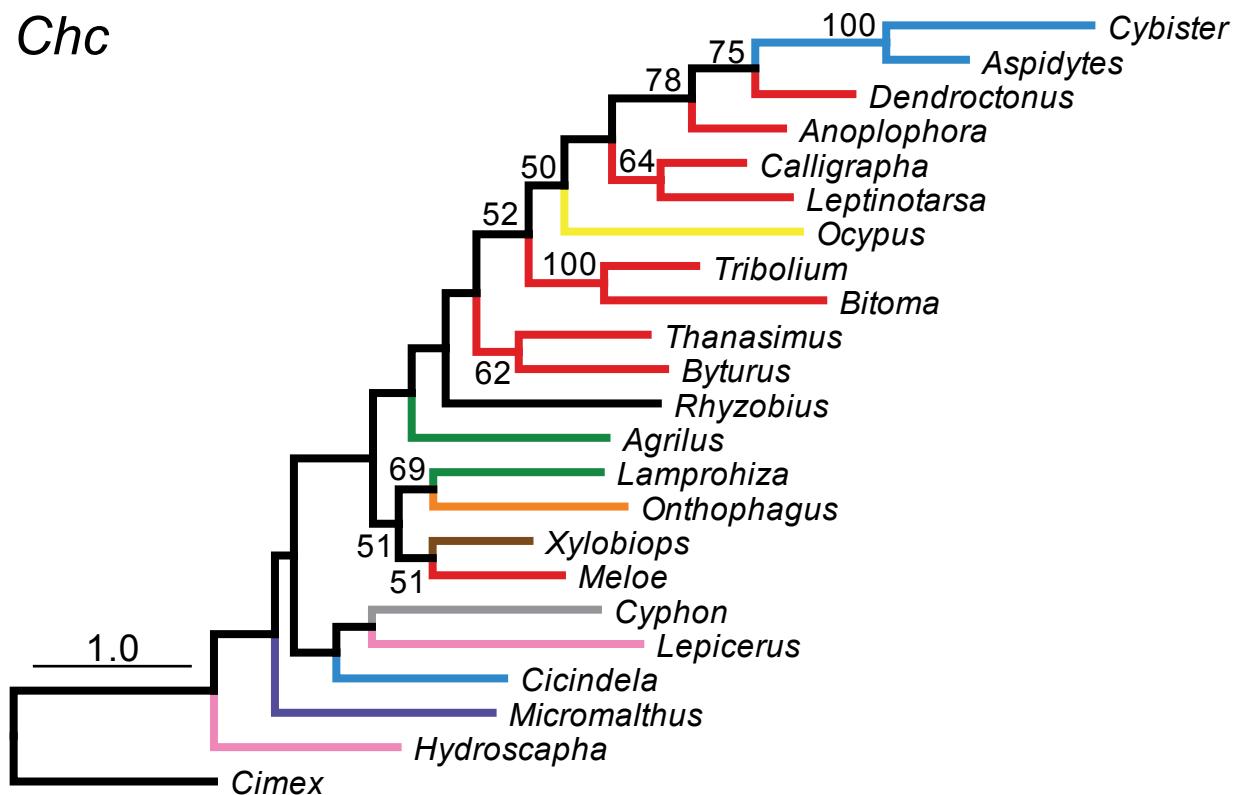
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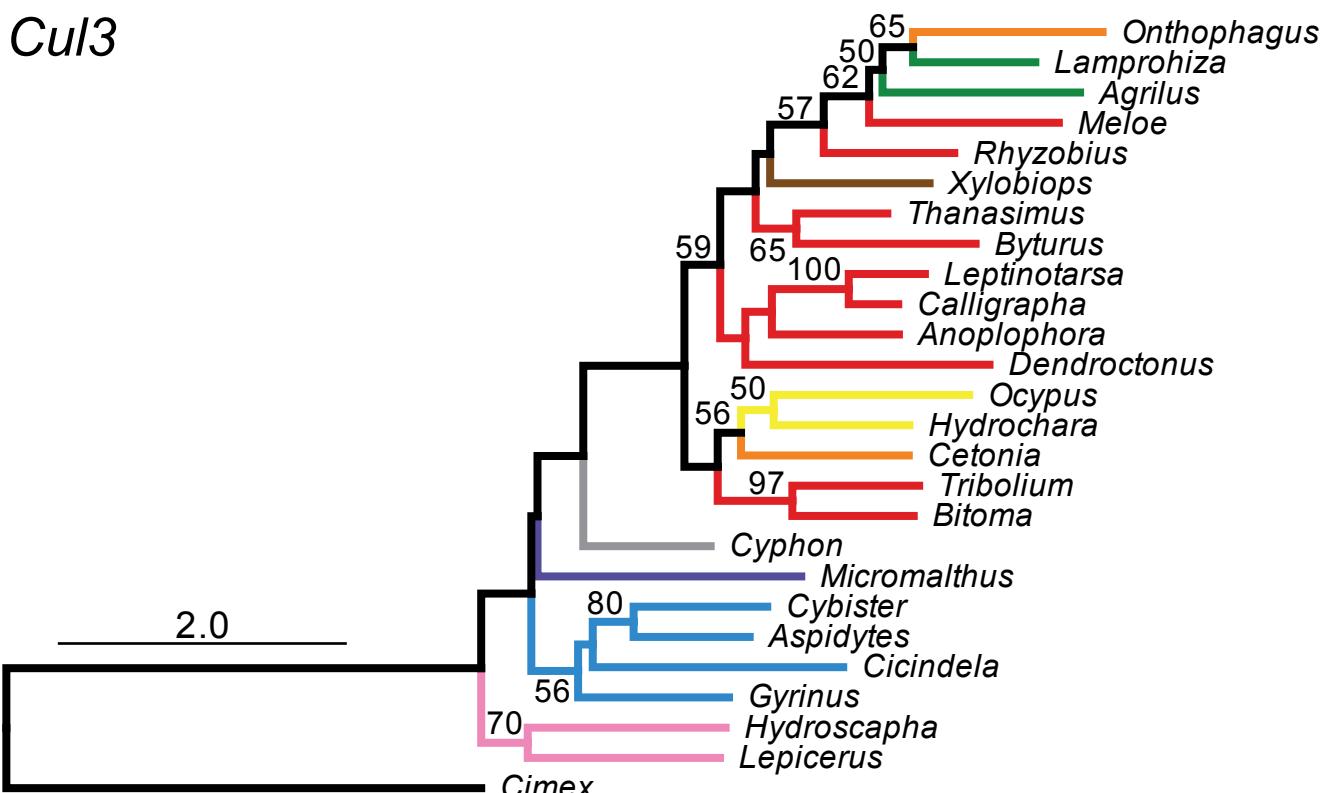
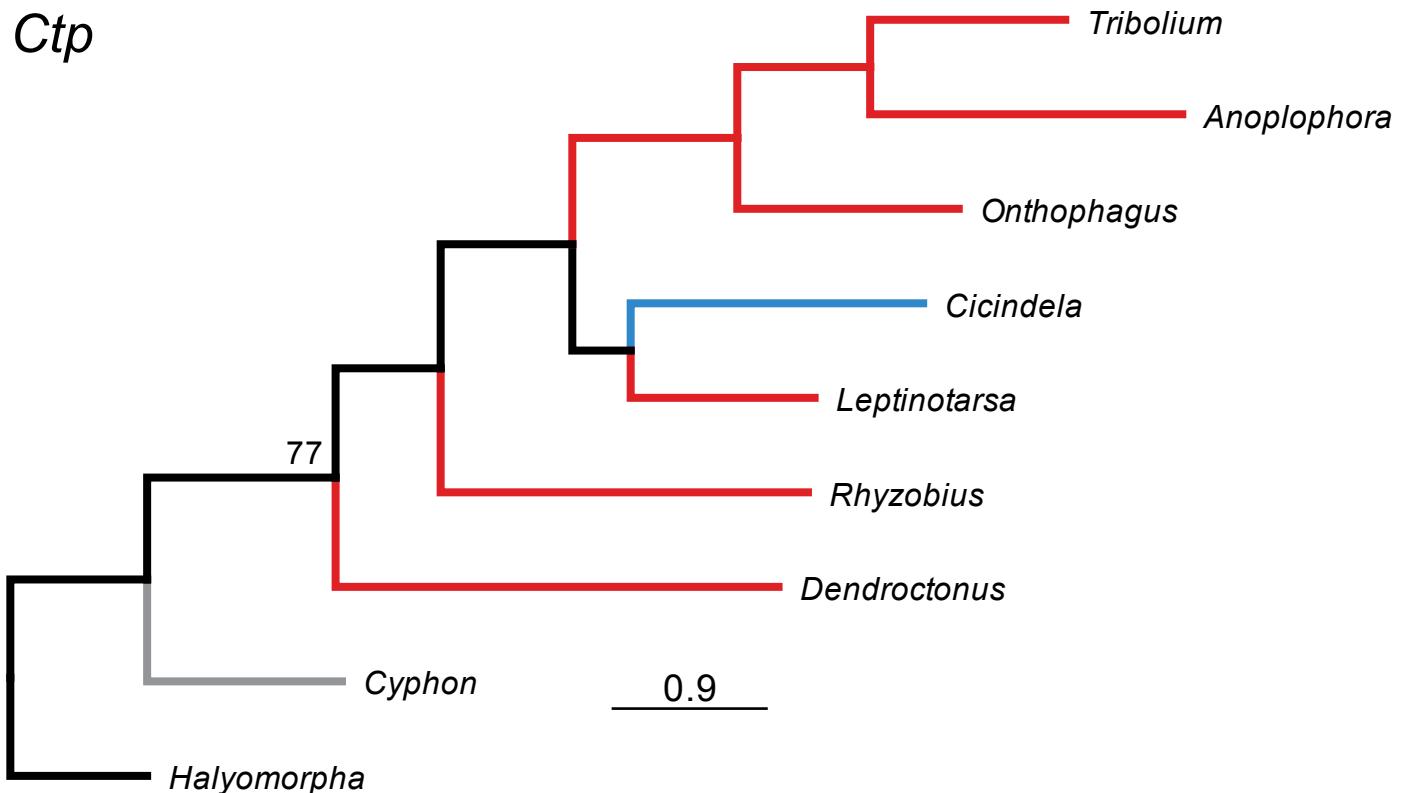


CdsA

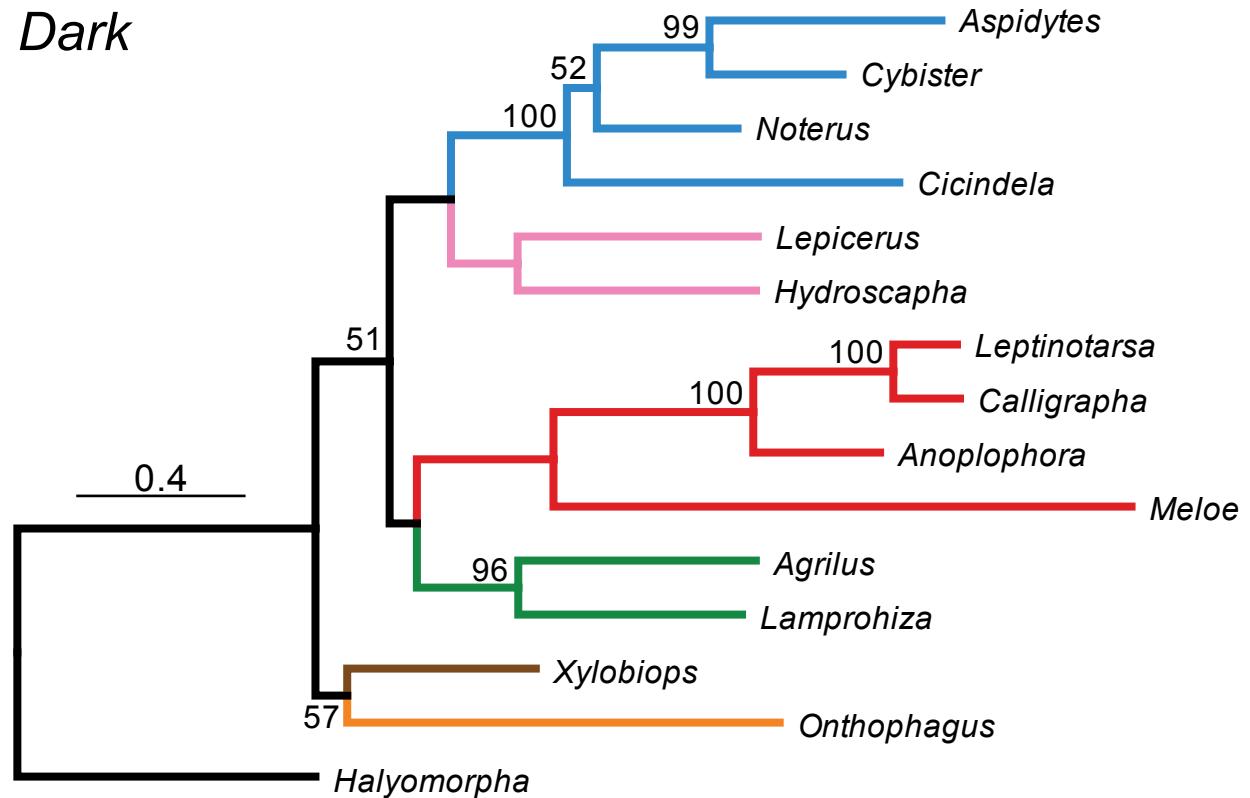


Chc

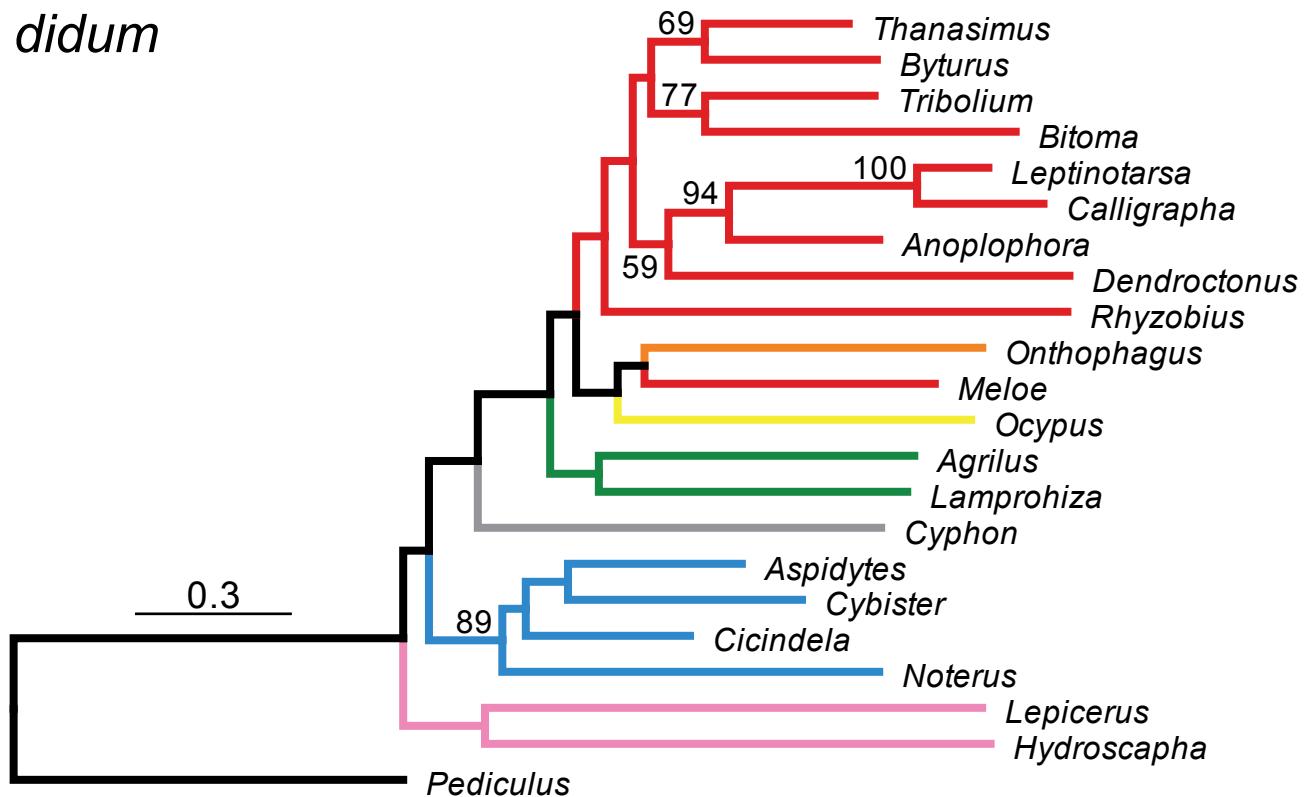




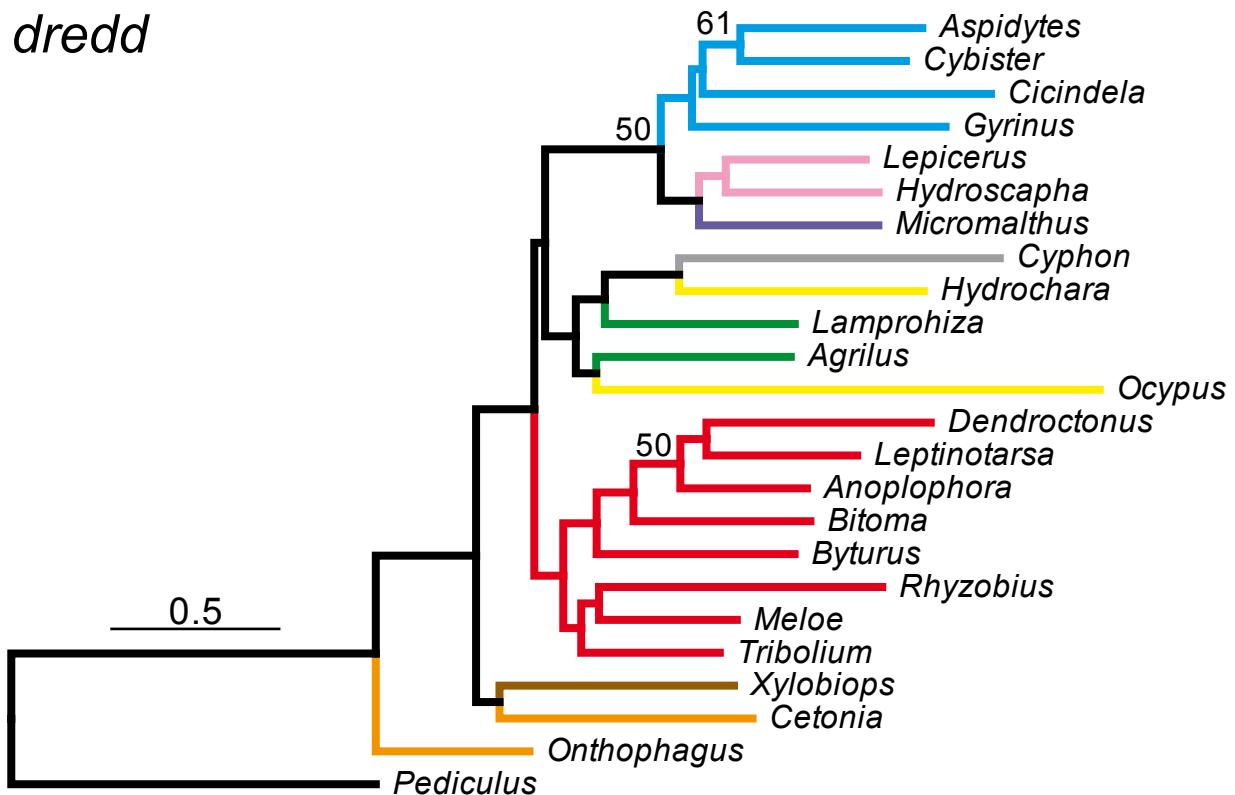
Dark



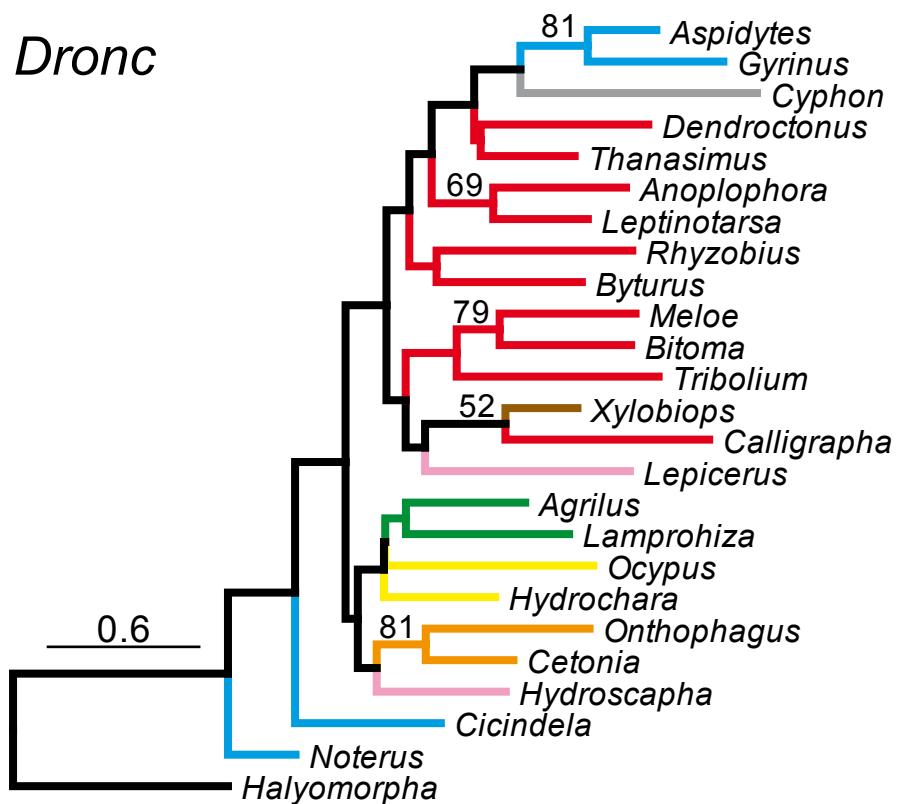
didum



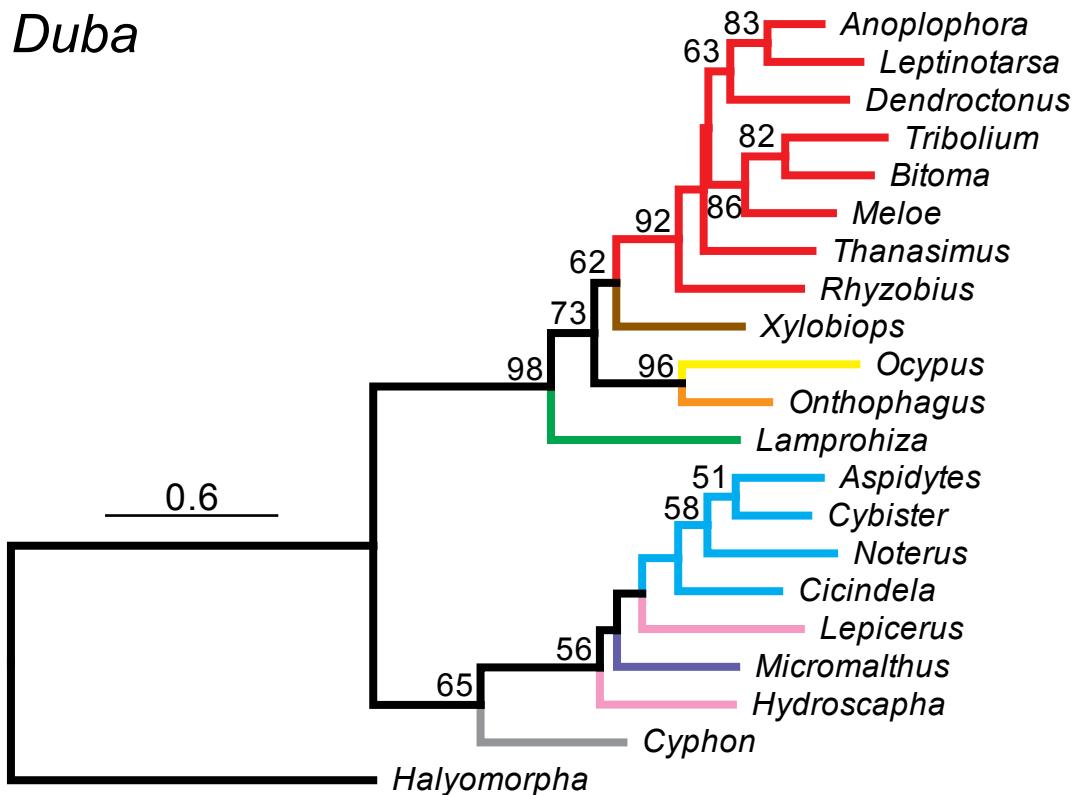
dredd



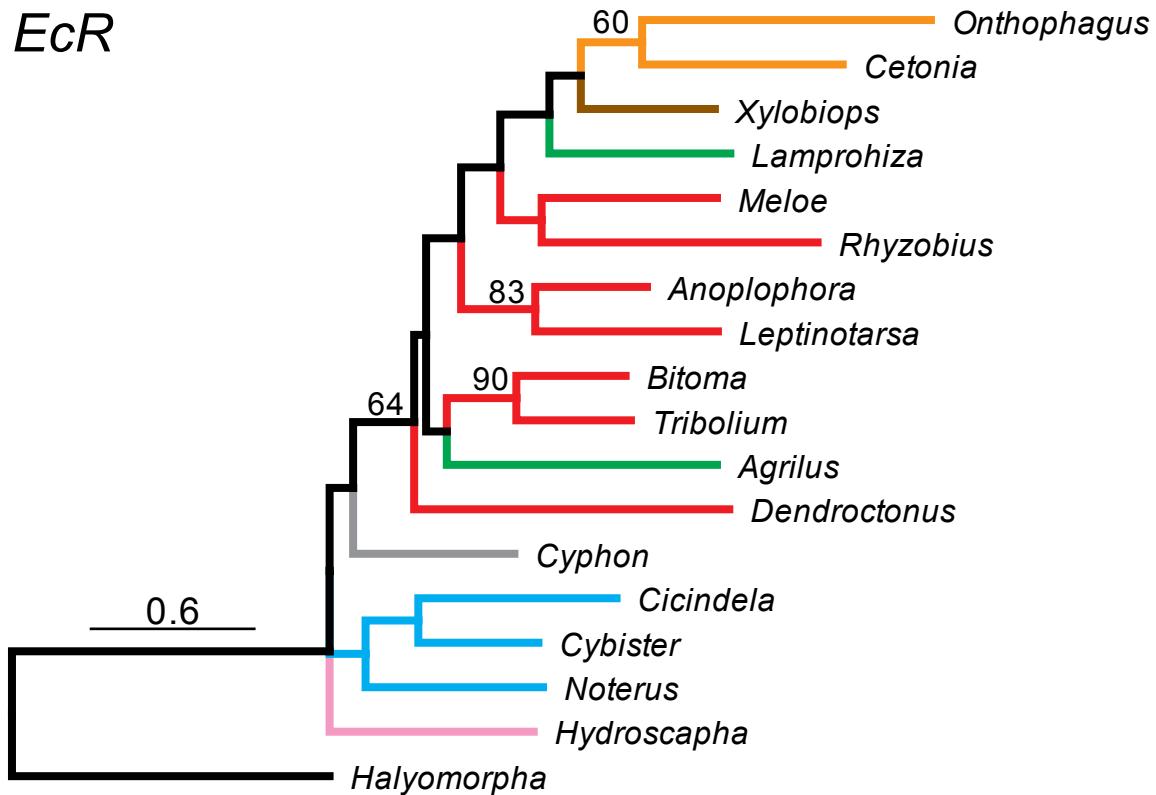
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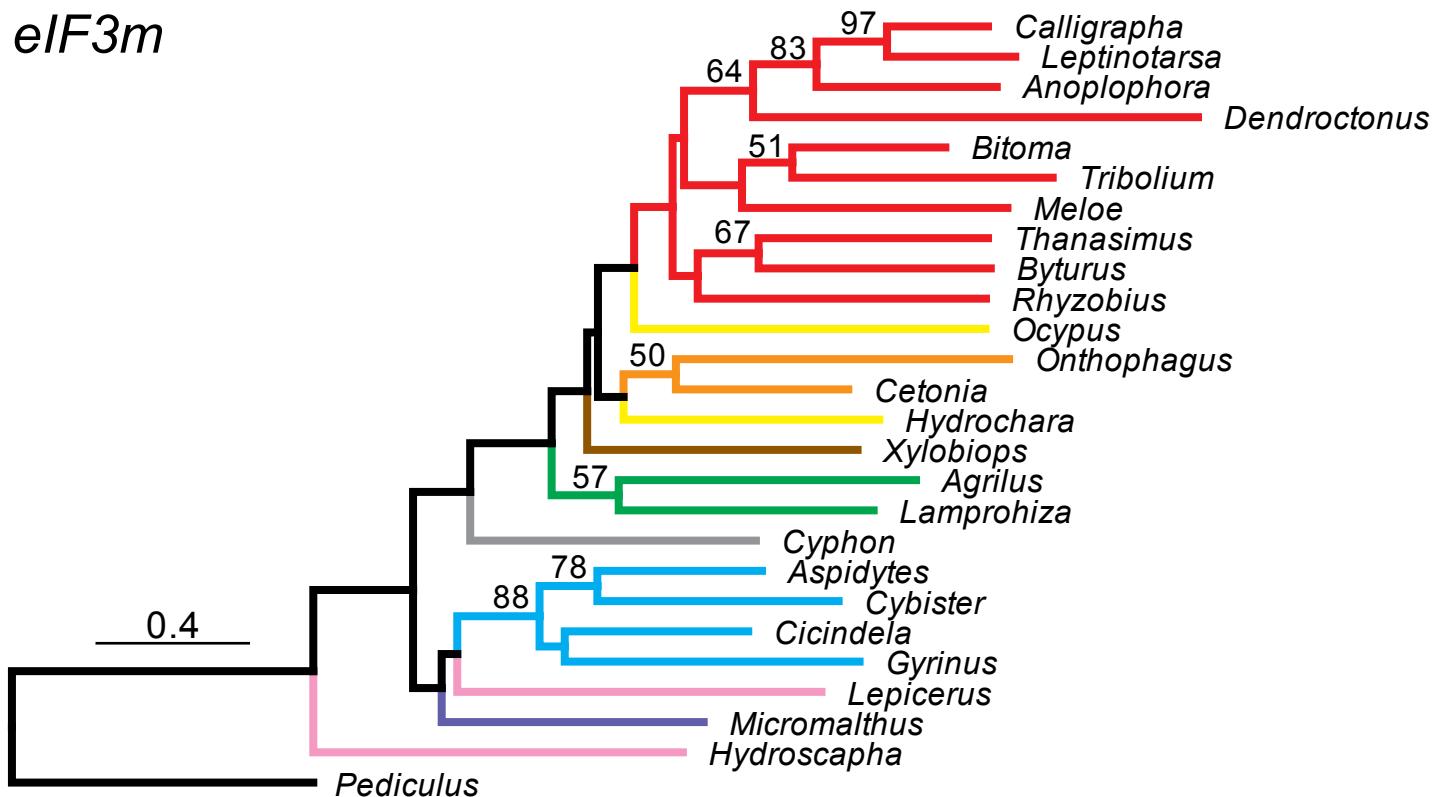
Duba



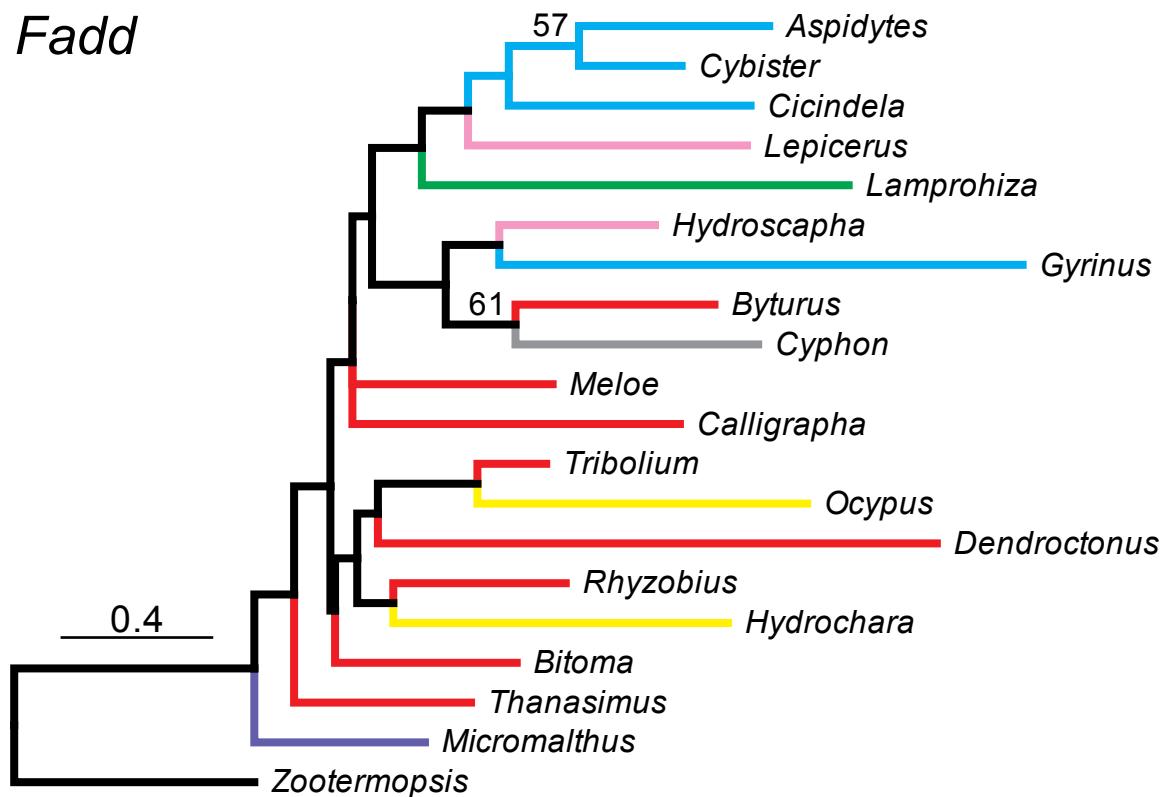
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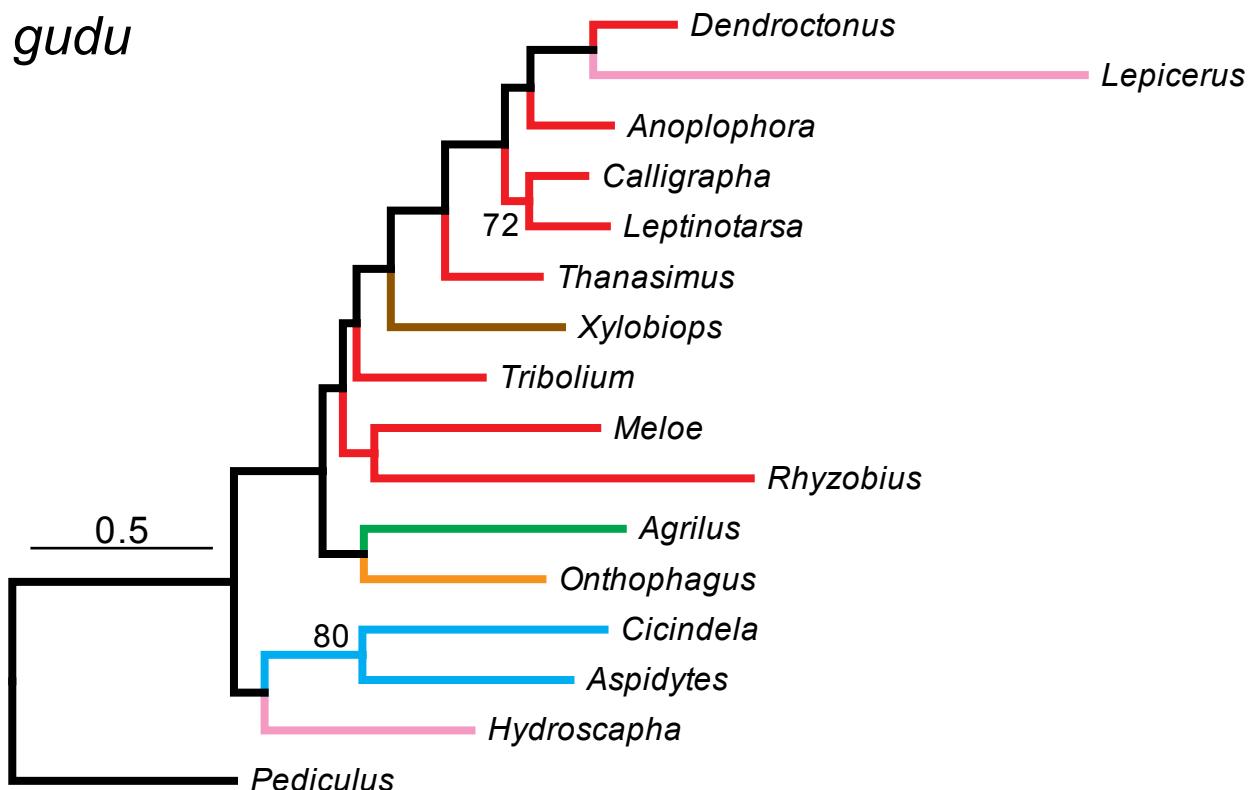
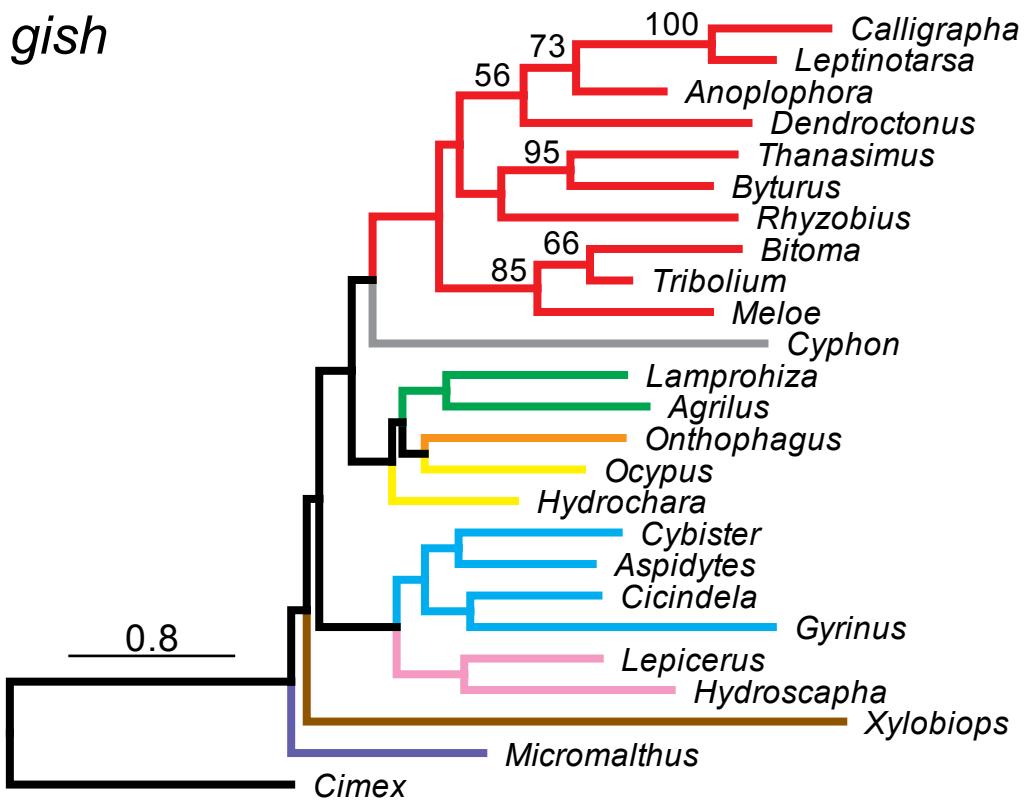


elf3m



Fadd





heph

78

Onthophagus

Agrilus

Leptinotarsa

Dendroctonus

Tribolium

Anoplophora

0.5

Halyomorpha

hmw

0.3

Onthophagus

Lepicerus

Hydroscapha

Thanasimus

Tribolium

Calligrapha

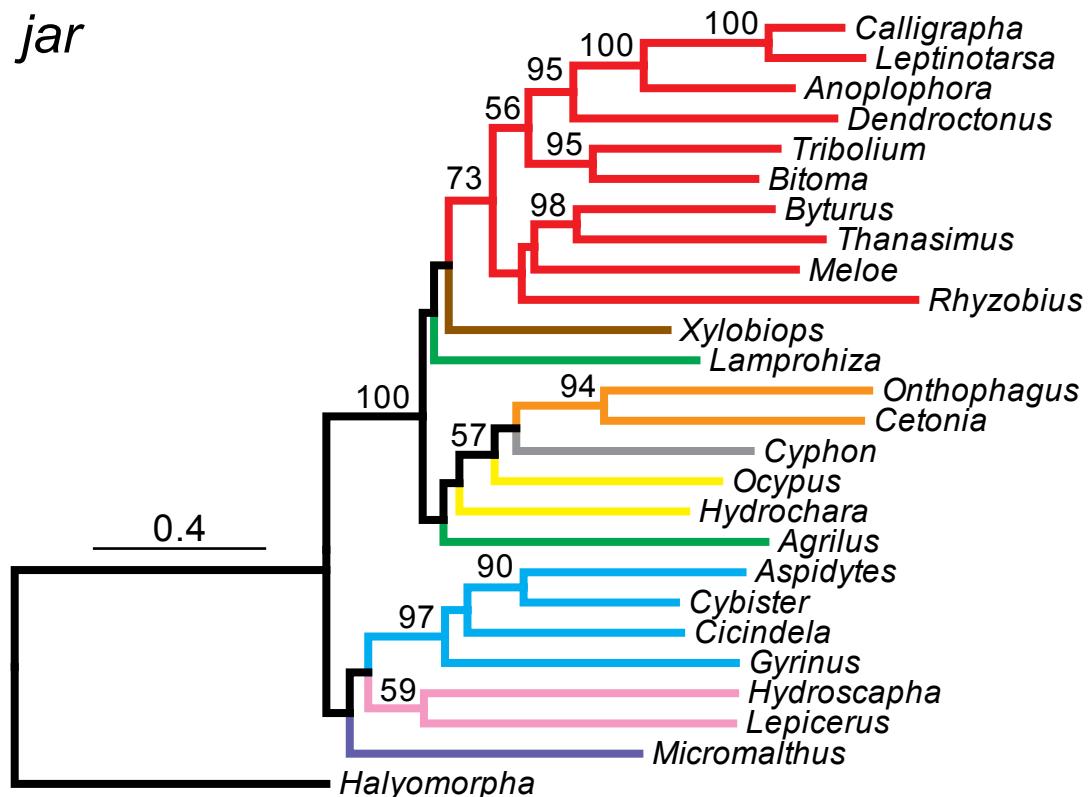
Dendroctonus

Xylobiops

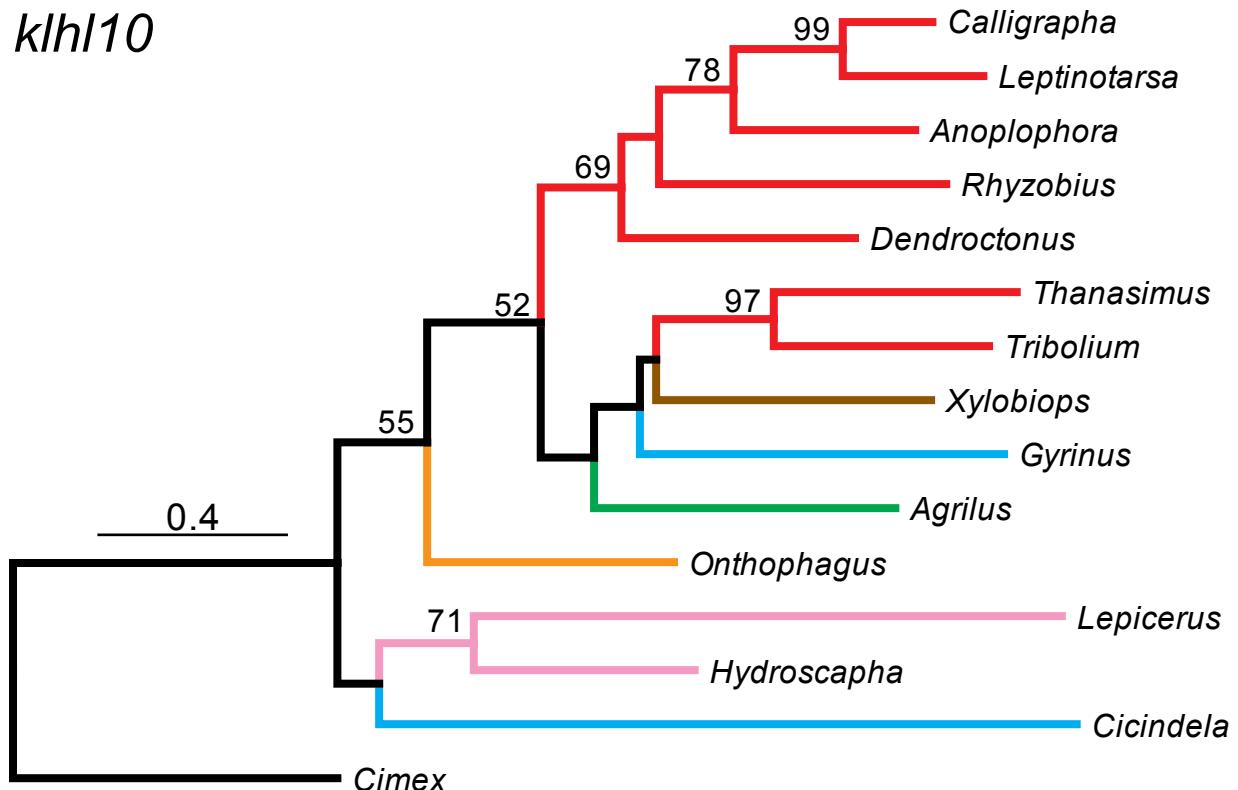
Cimex

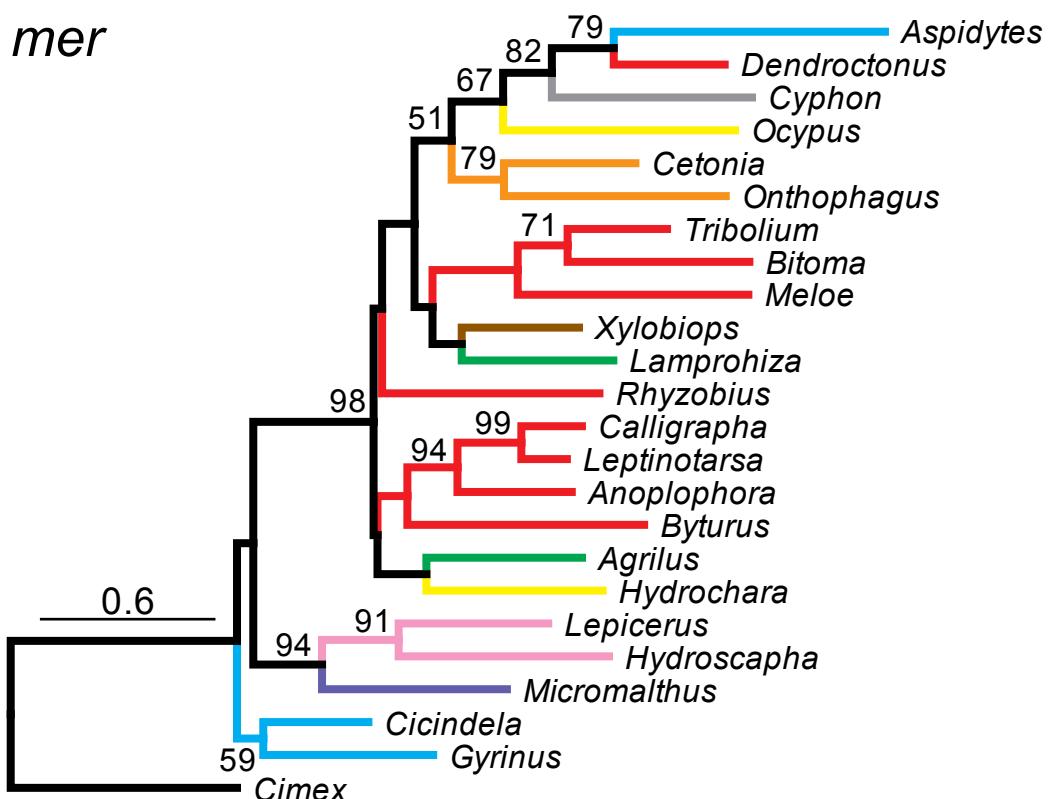
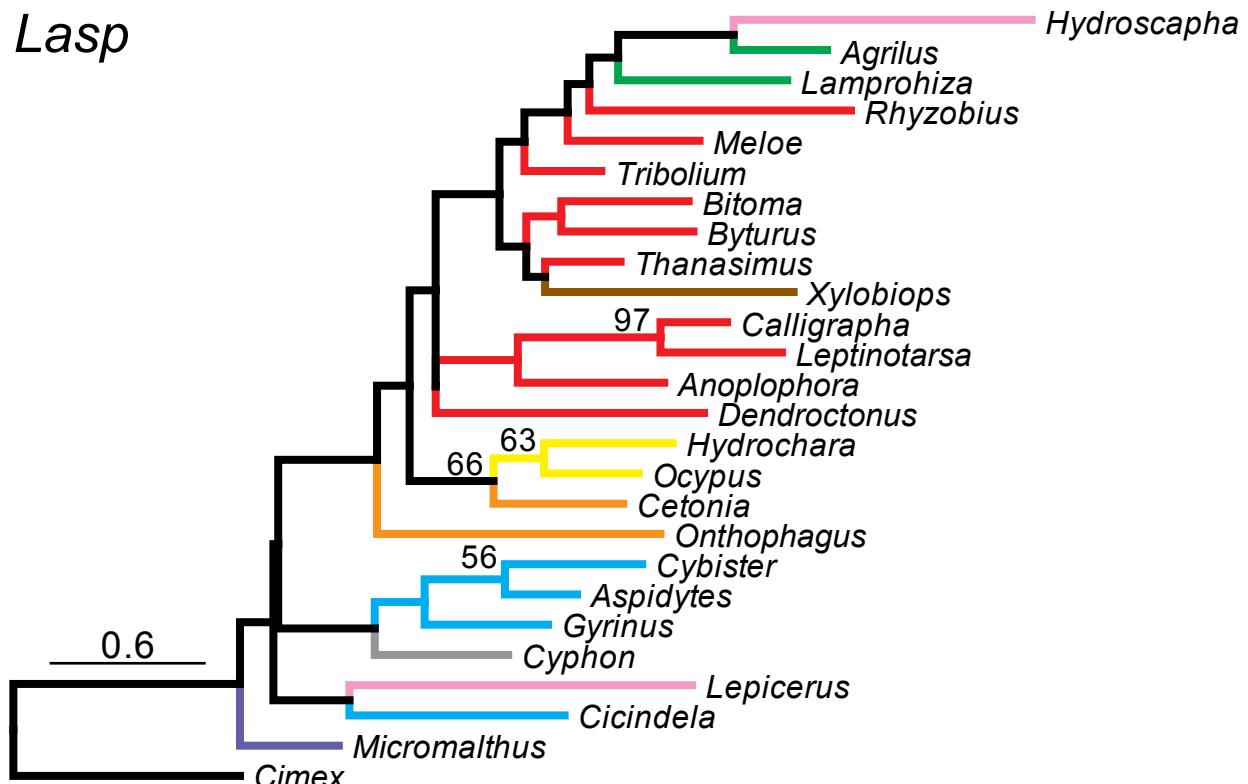
■ Archostemata	■ Myxophaga	■ Adephaga	■ Elateriformia
■ Bostrichiformia	■ Staphyliniformia	■ Scarabaeiformia	■ Cucujiformia

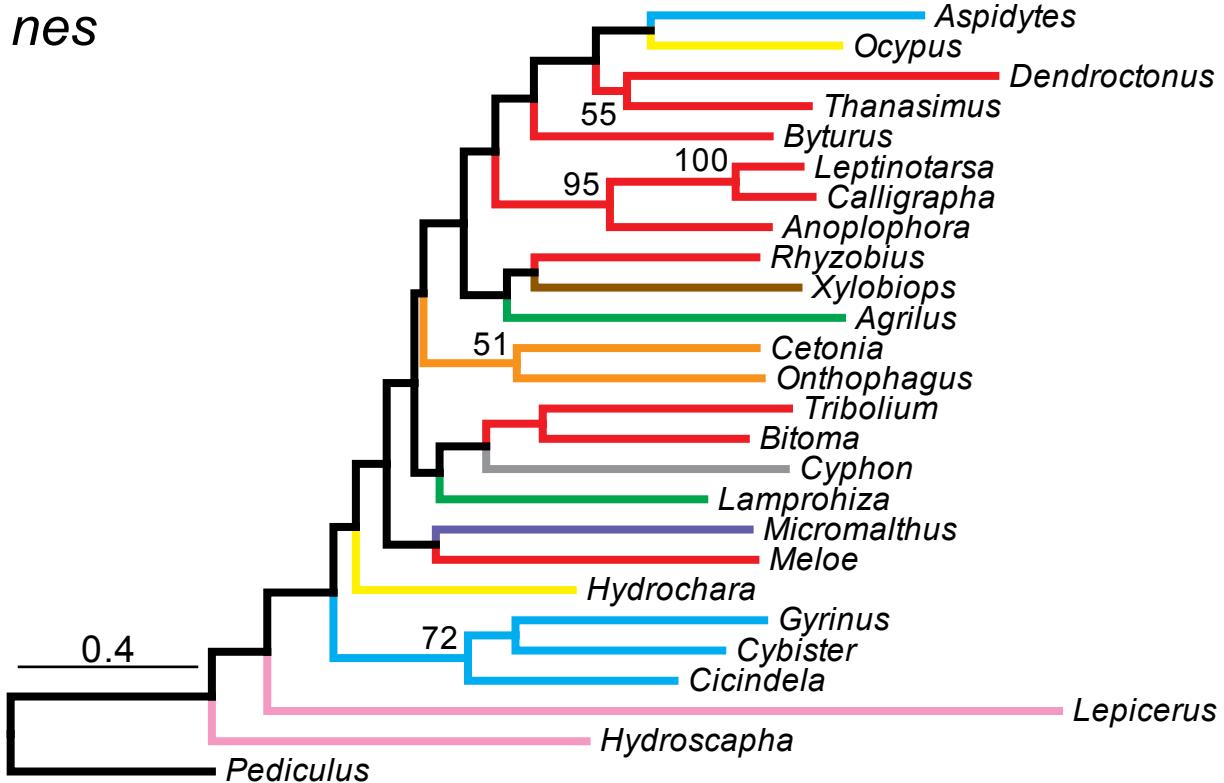
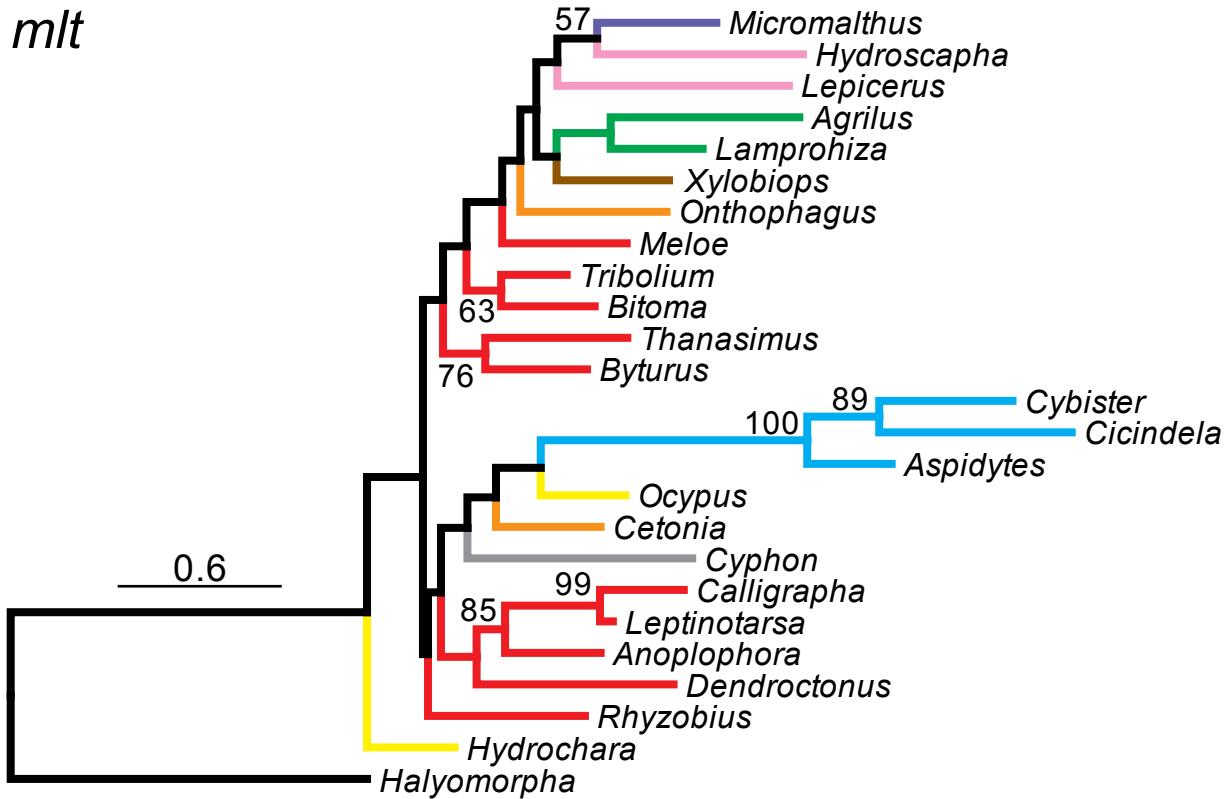
jar



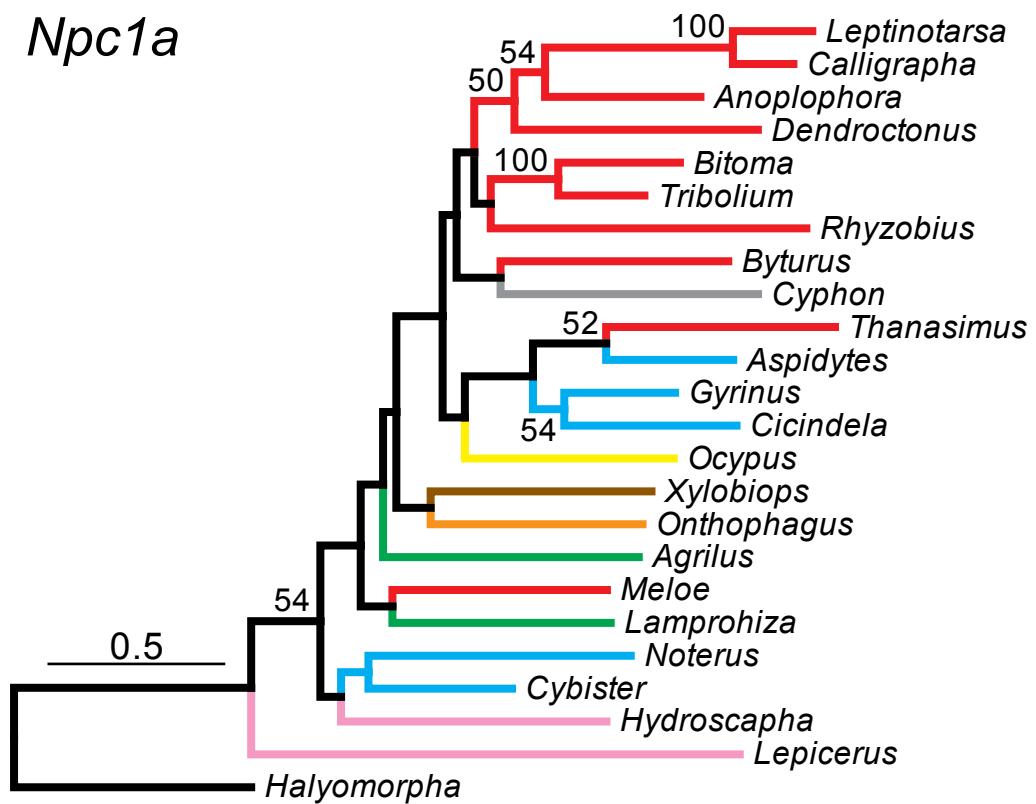
klhl10



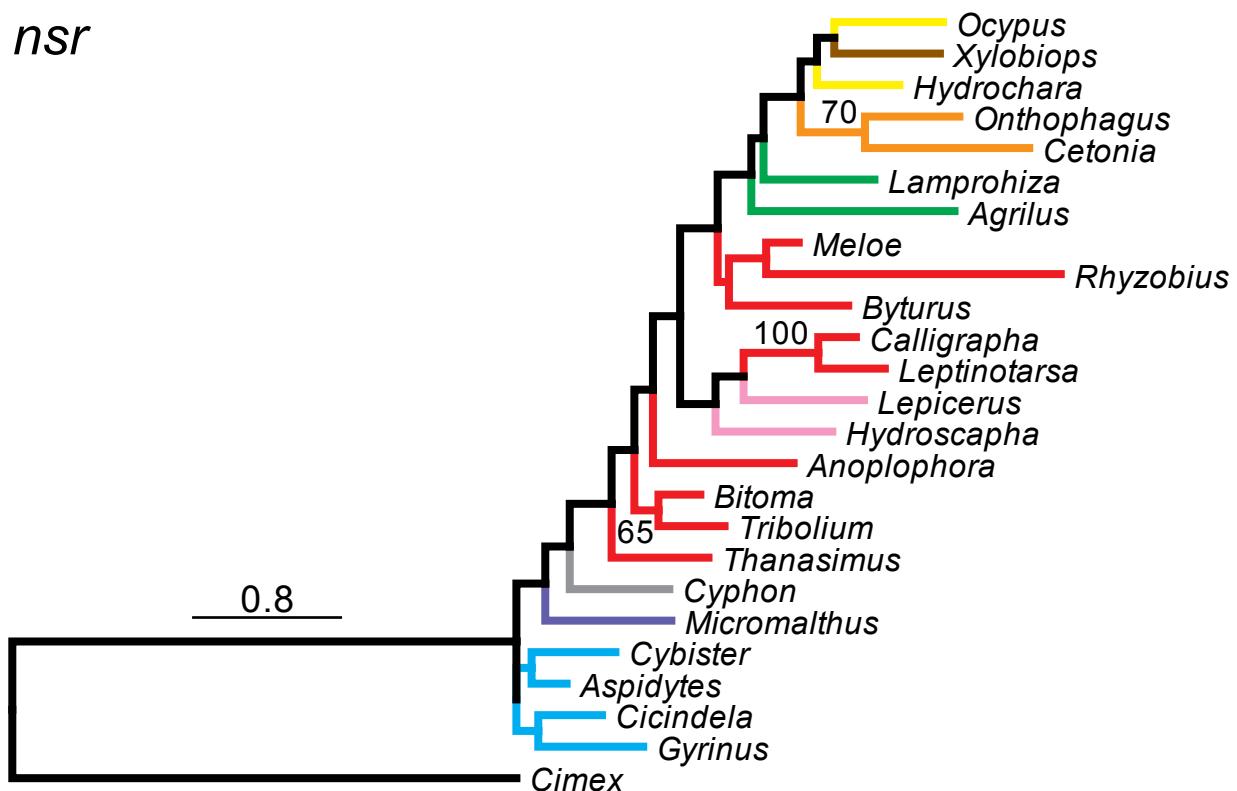




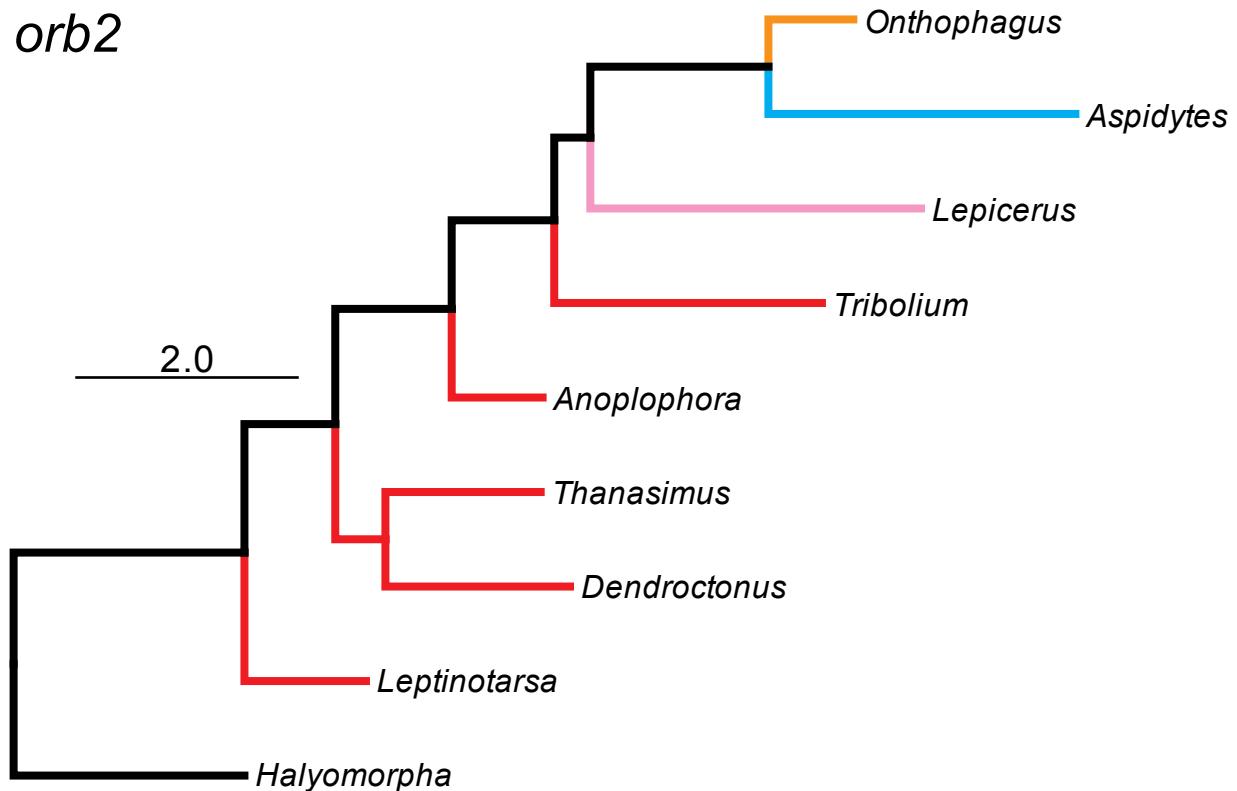
Npc1a



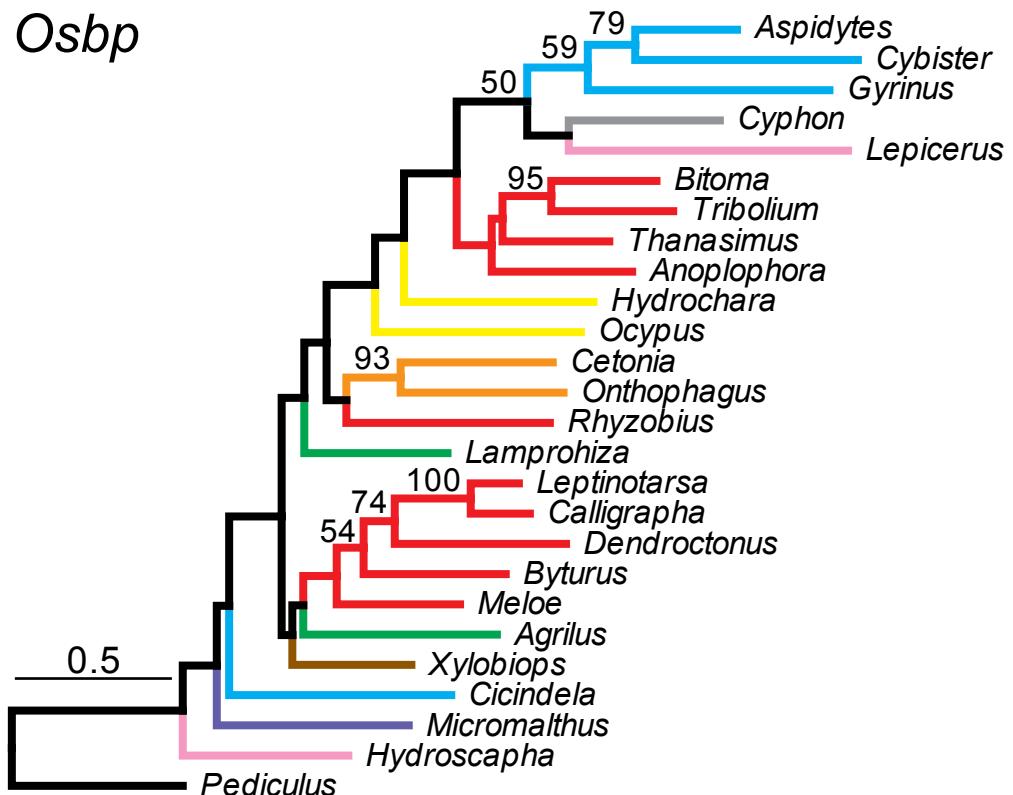
nsr



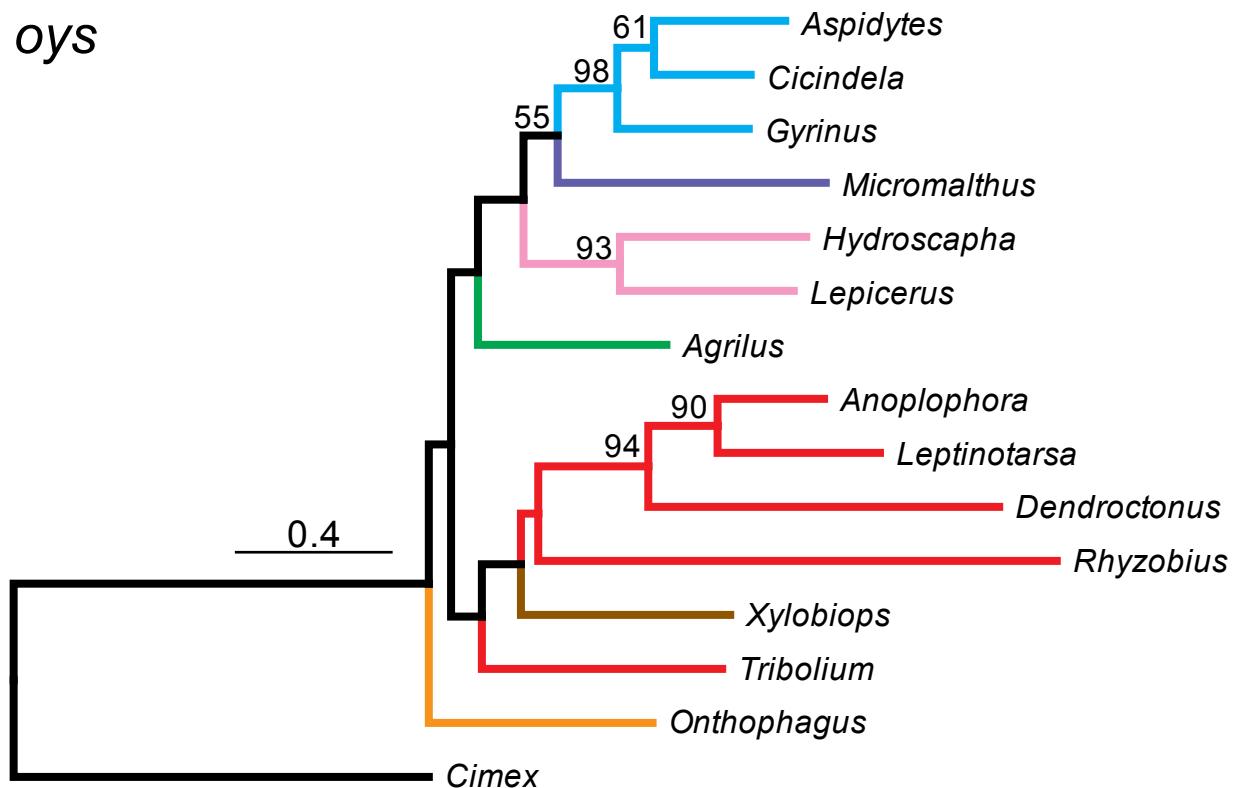
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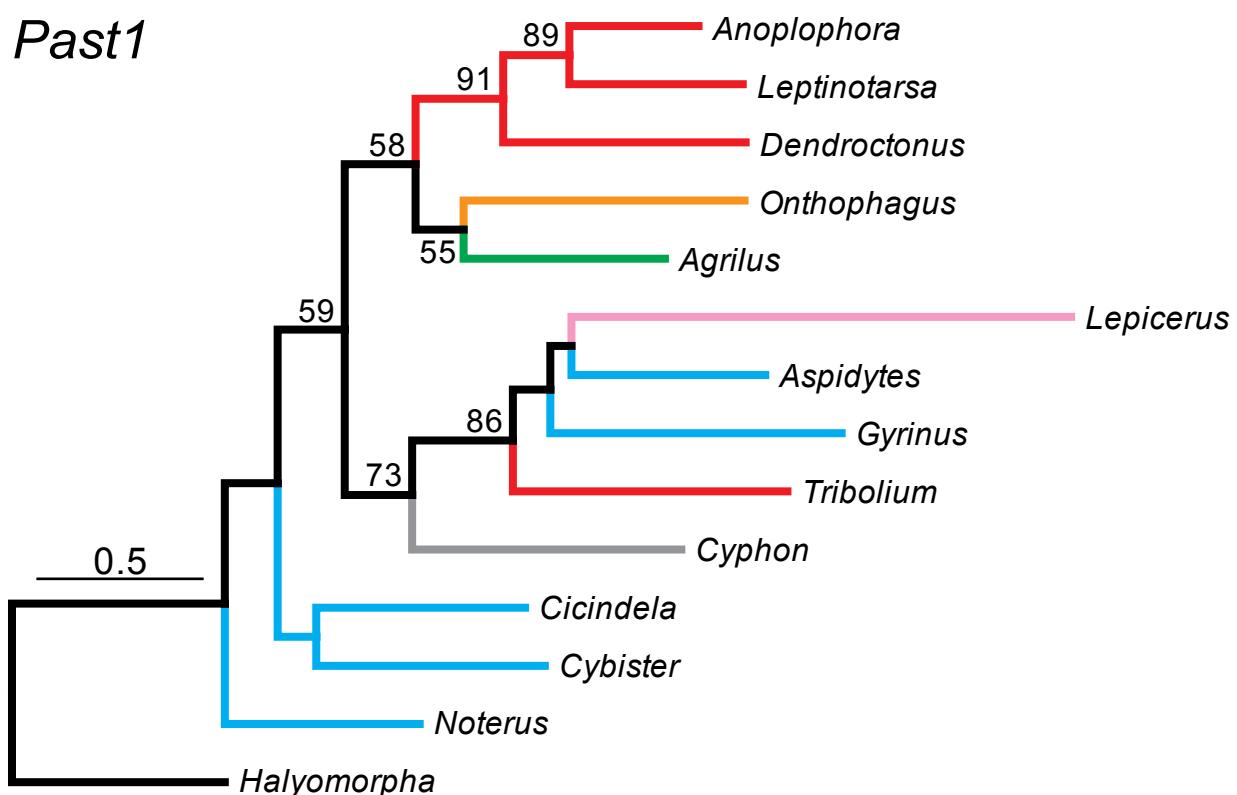
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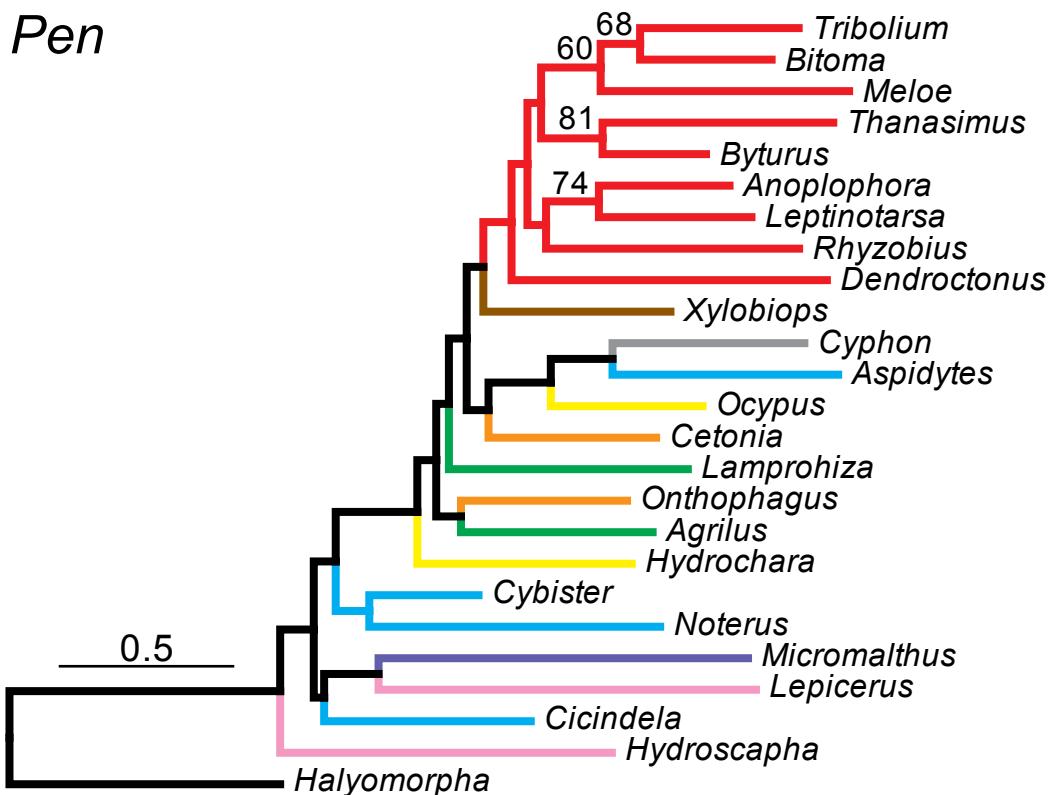
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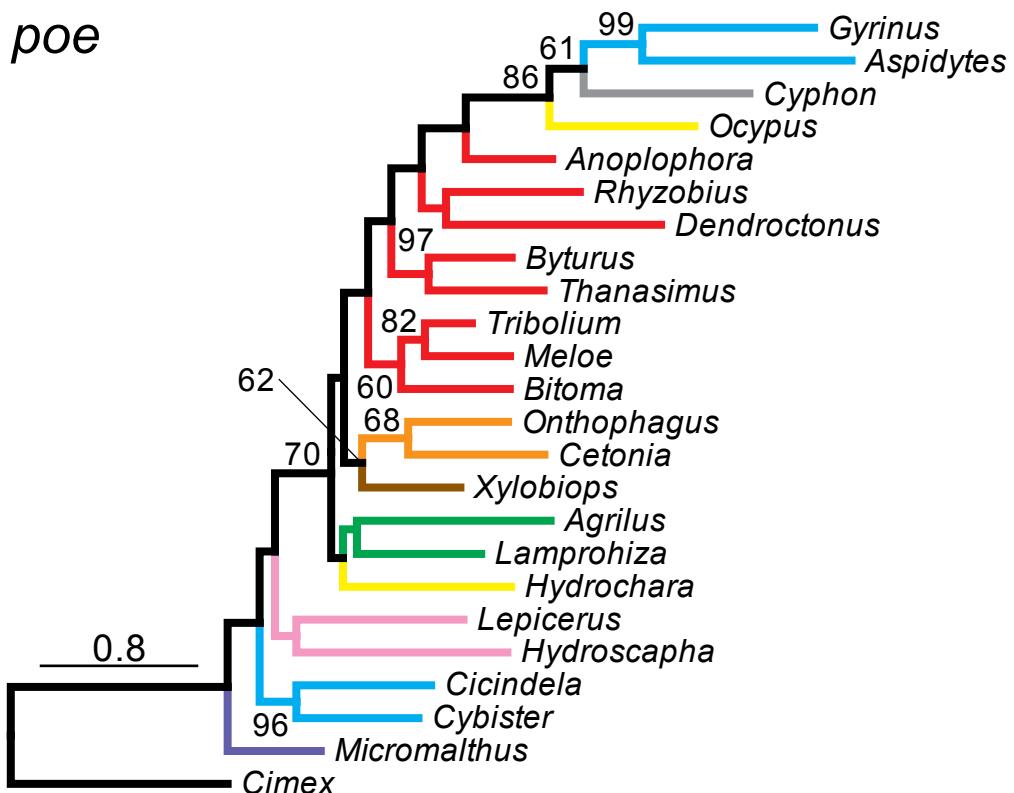
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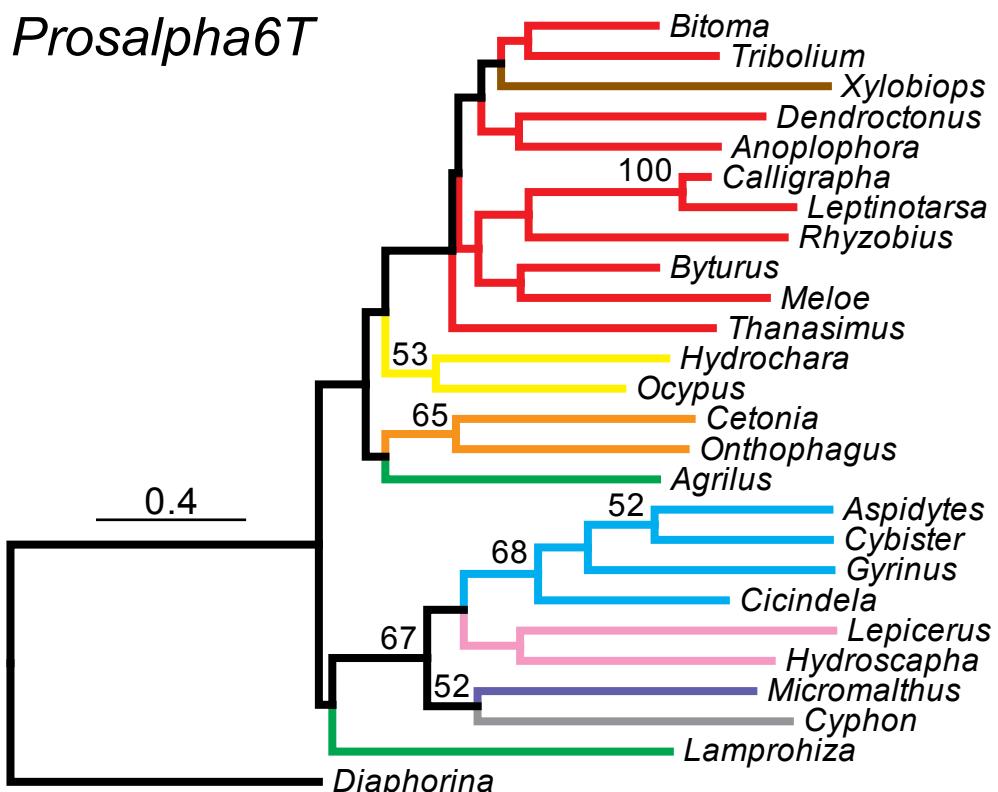
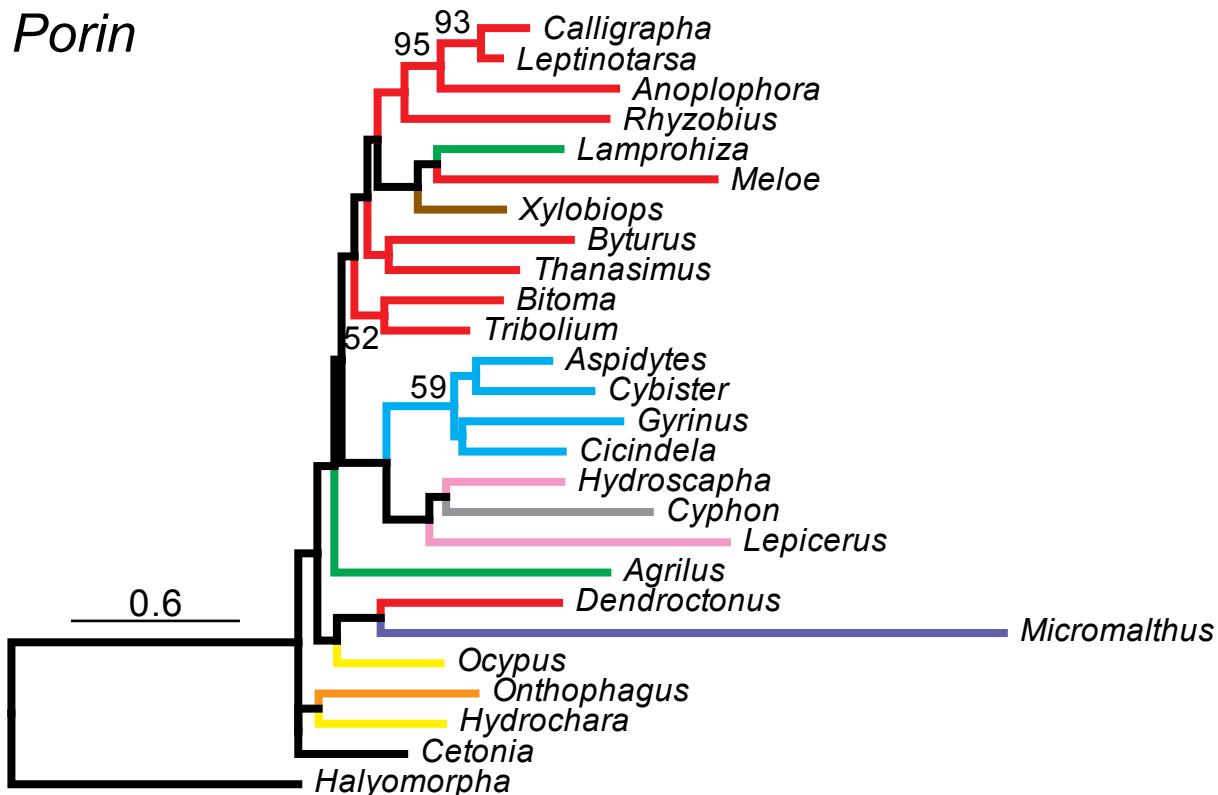
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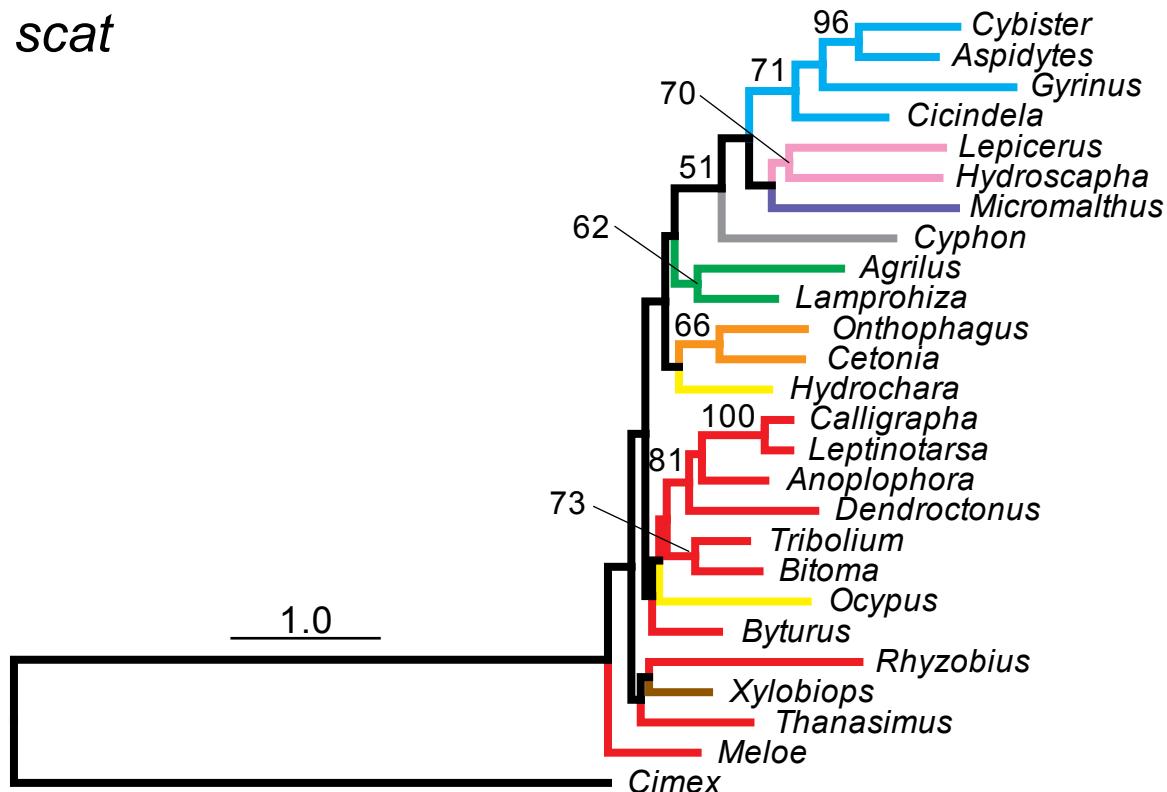
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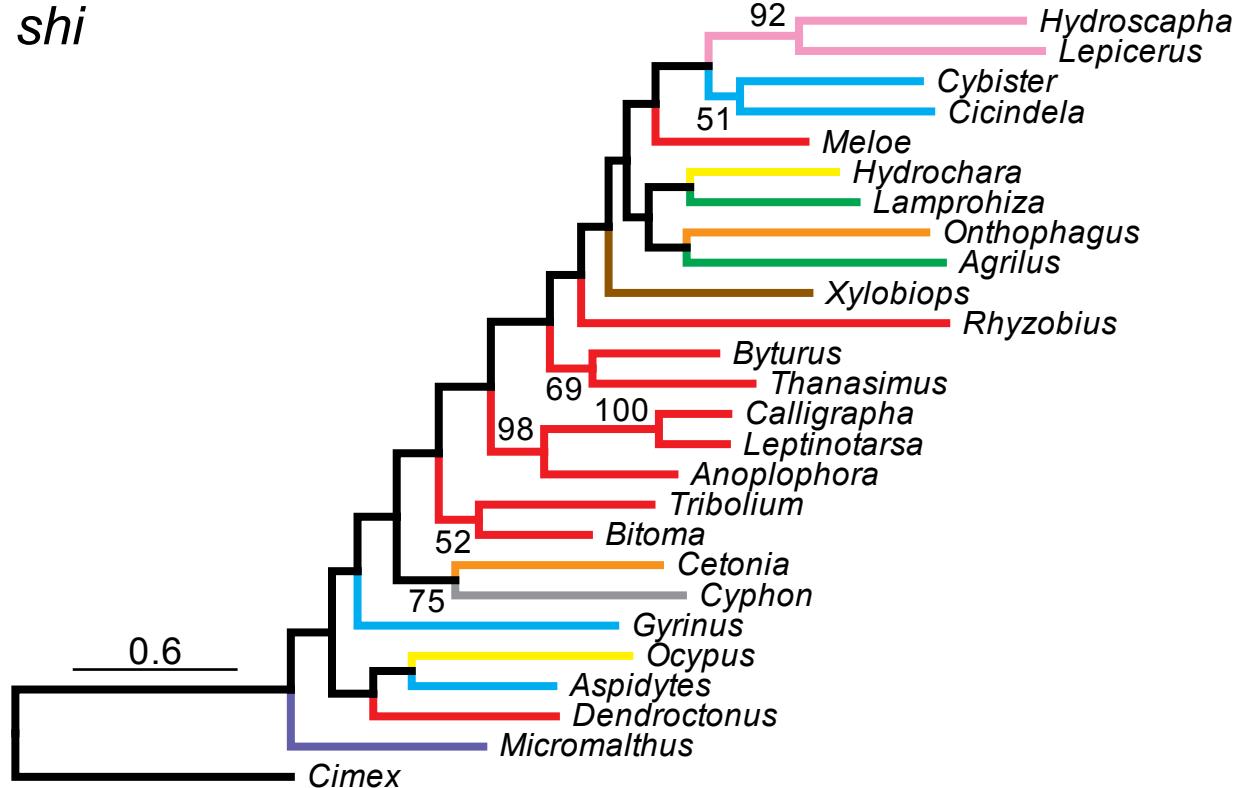
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Bostrichiformia	Staphyliniformia	Scarabaeiformia	Cucujiformia



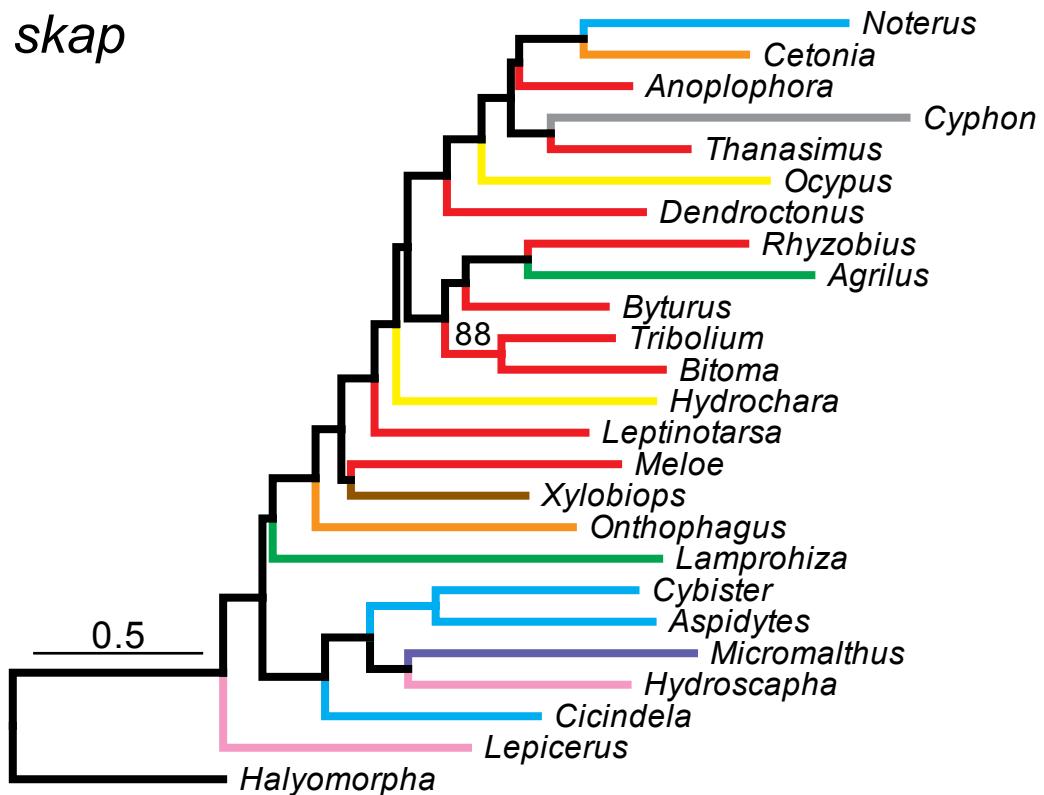
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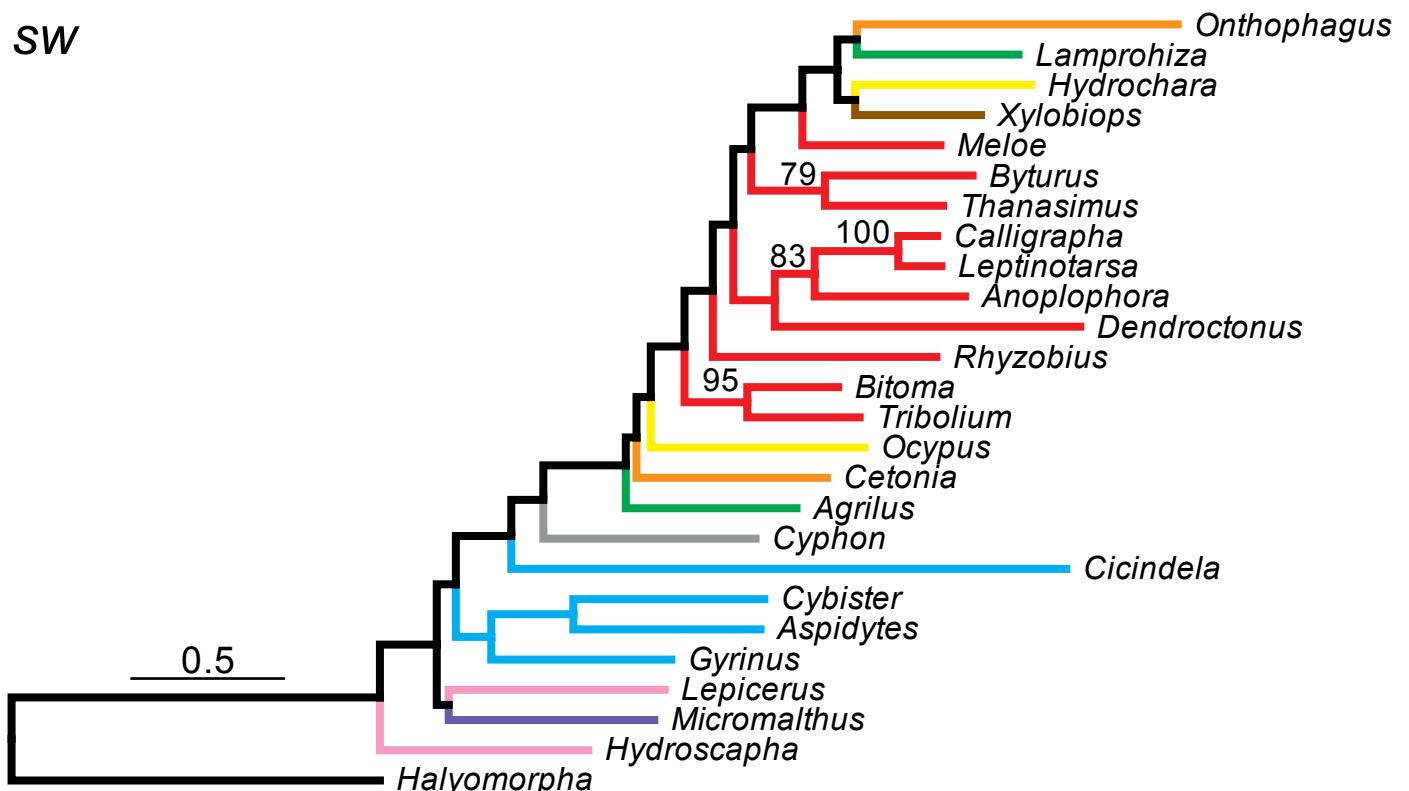
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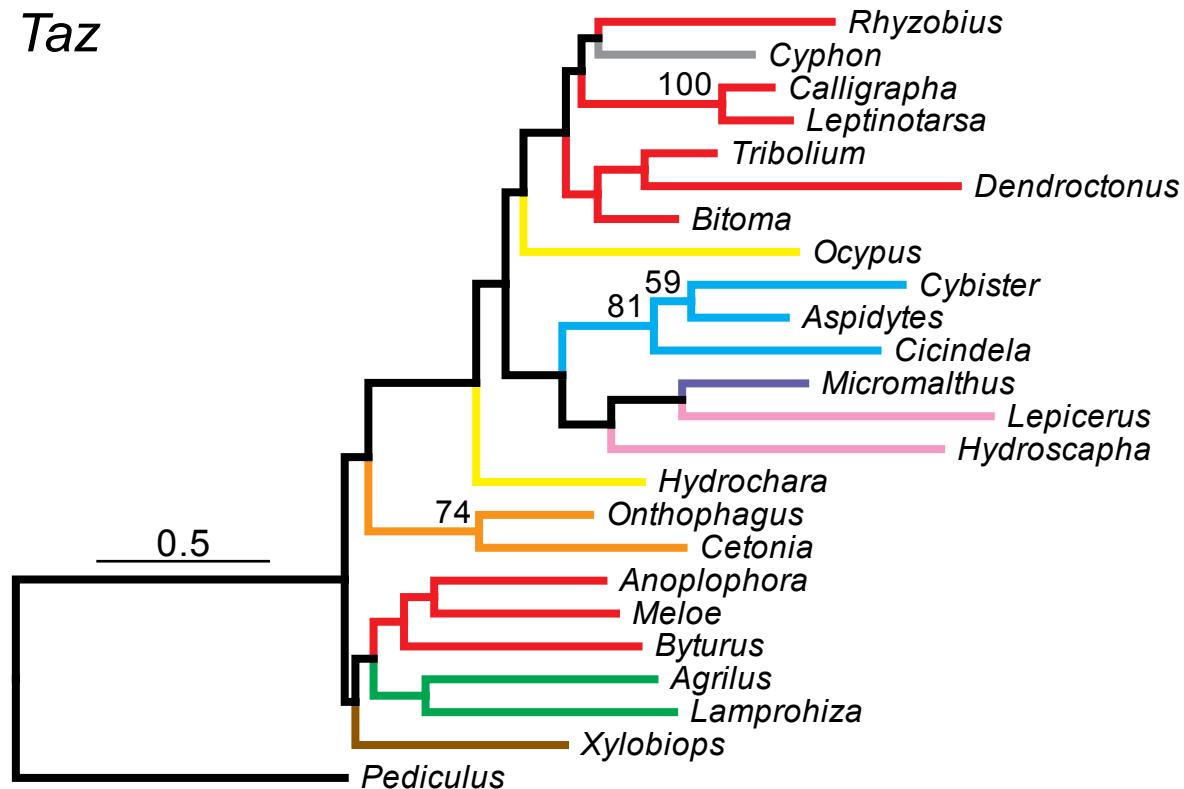
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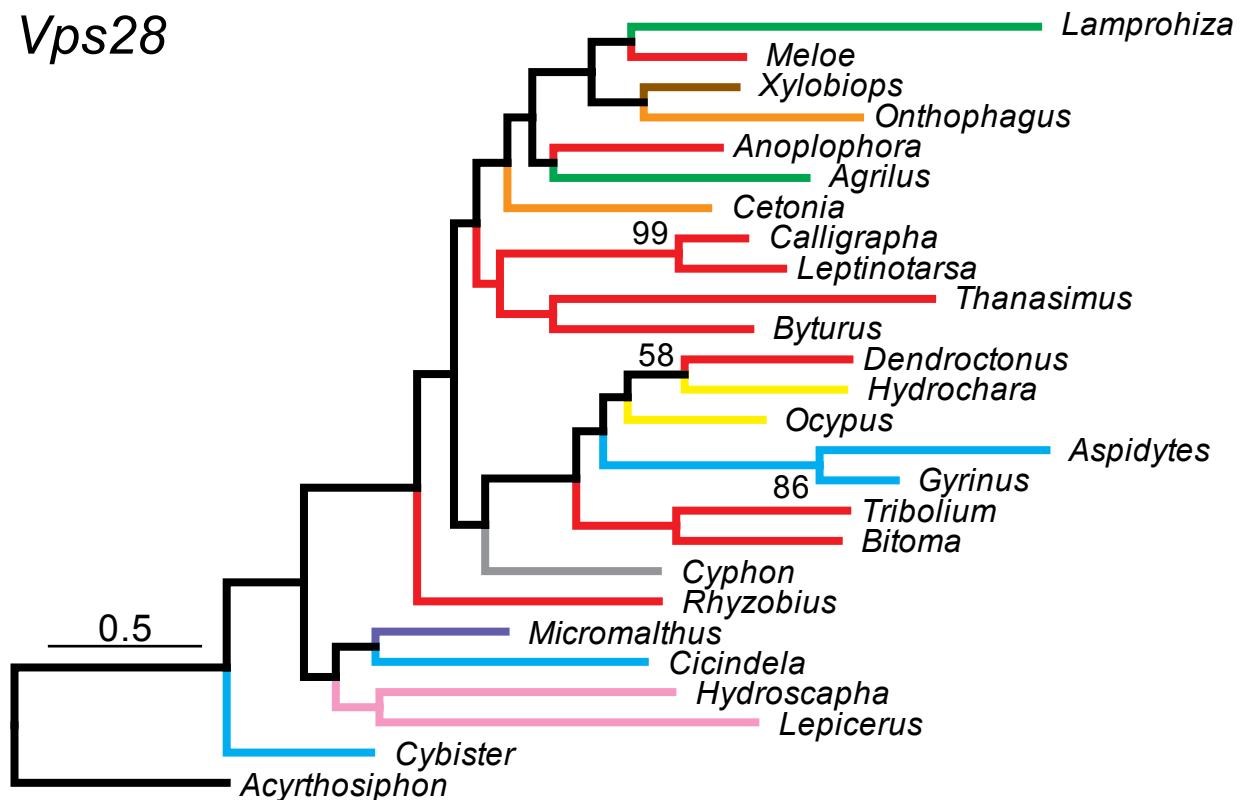
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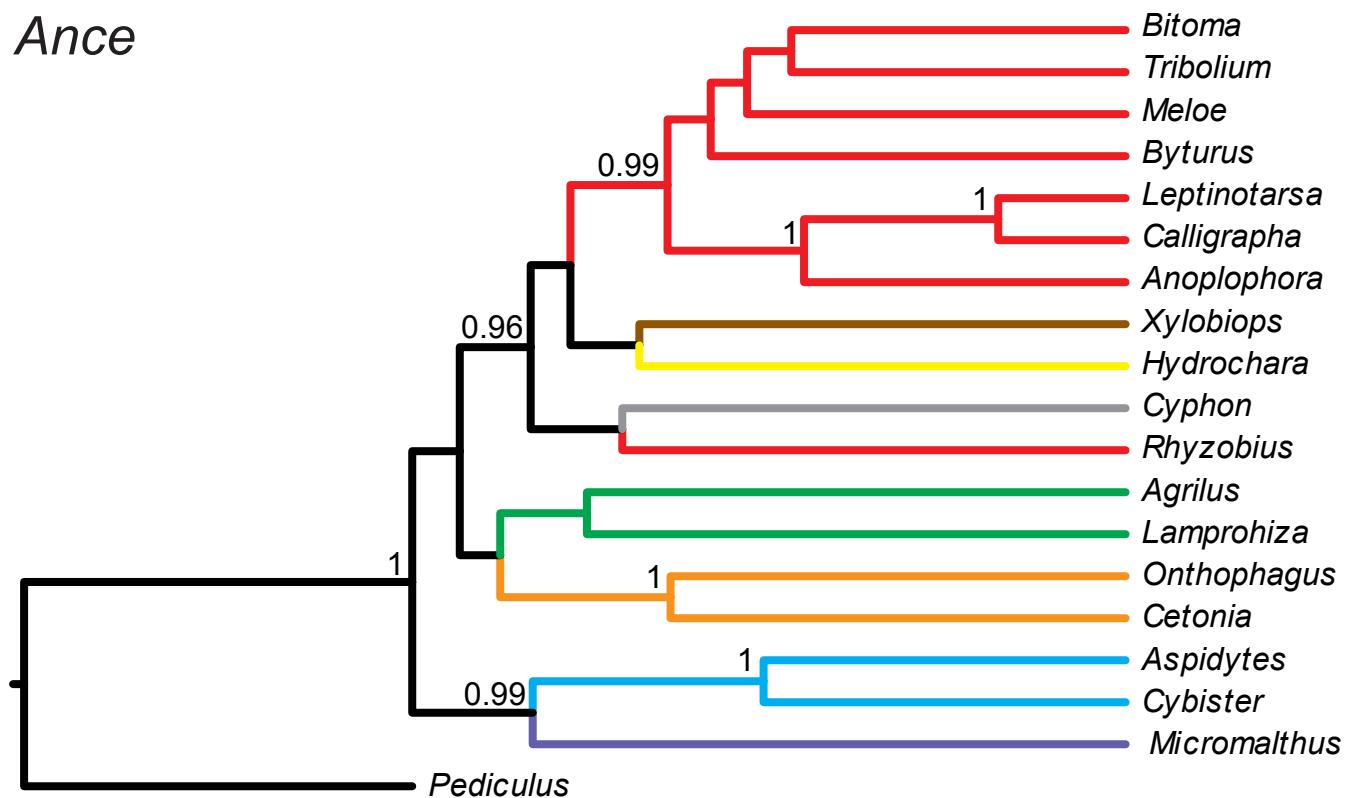


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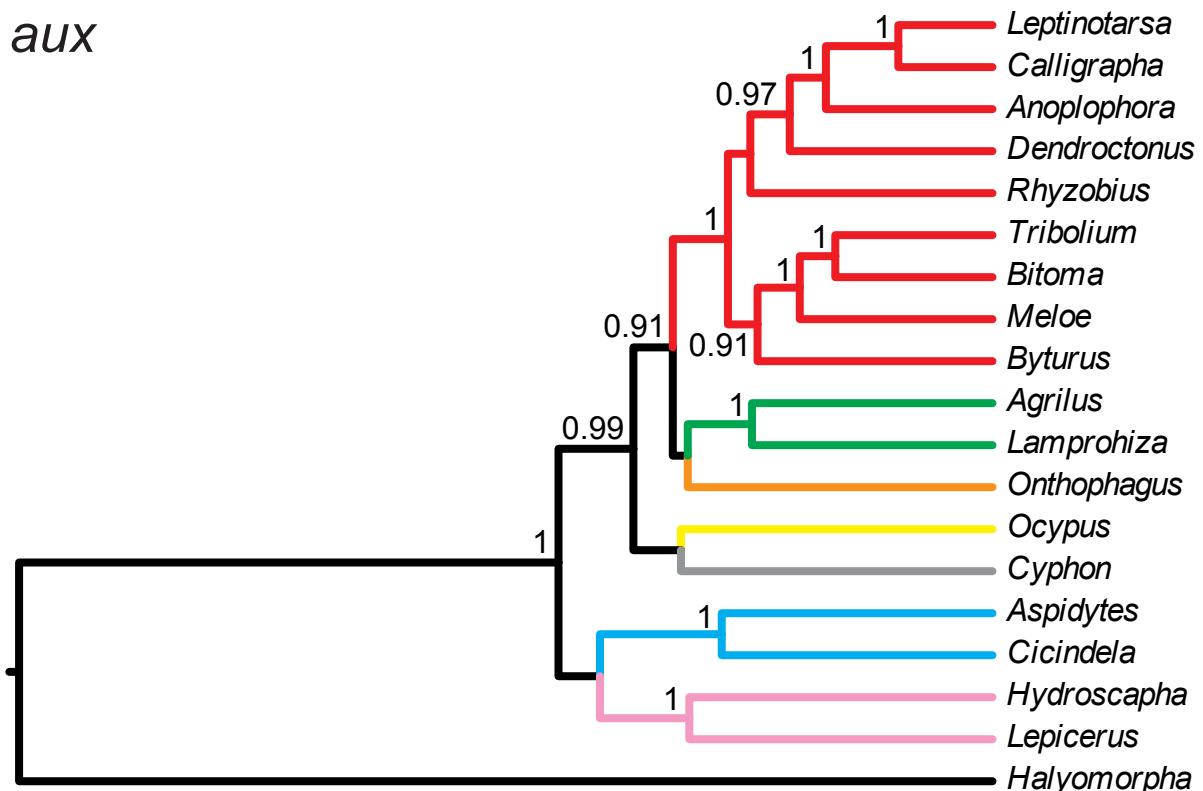


File S4. Bayesian inference trees based on the nucleotide alignments of different sperm individualization genes in beetles.

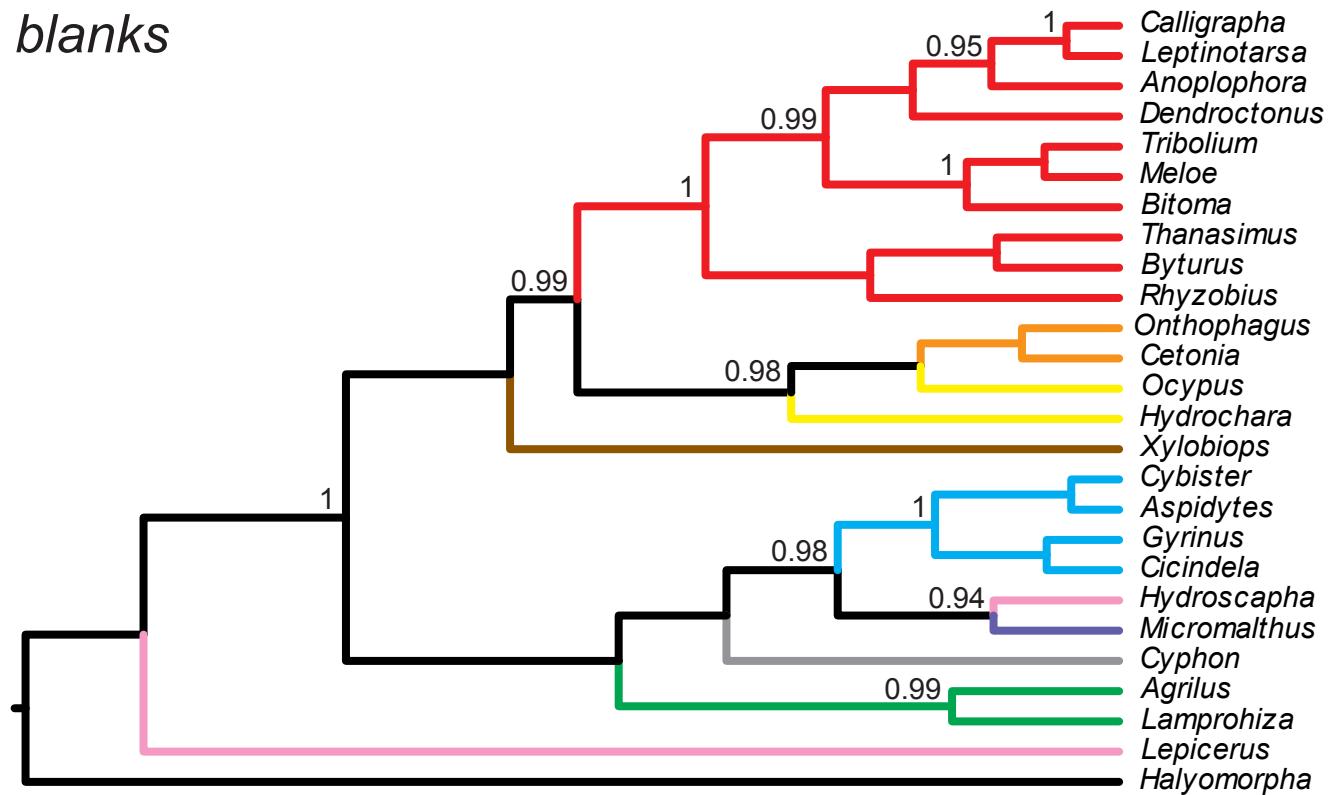
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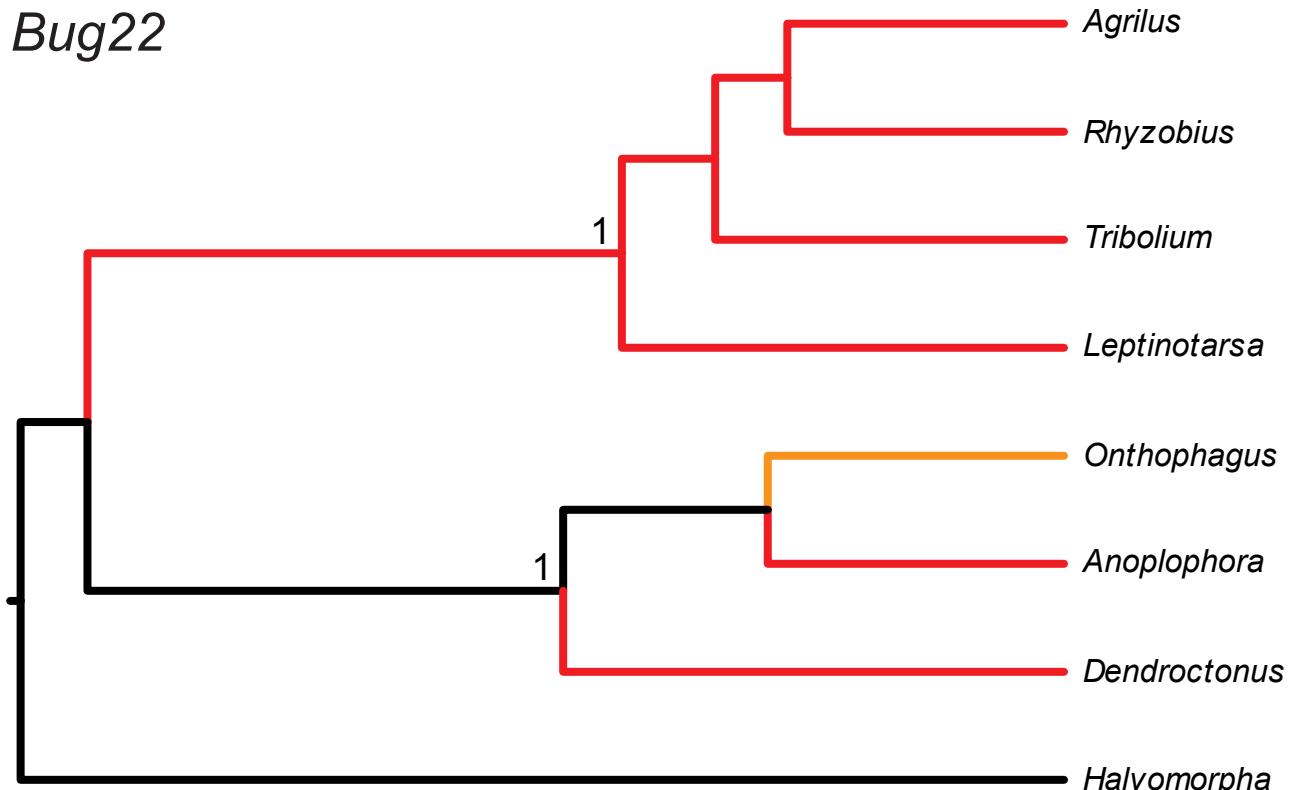
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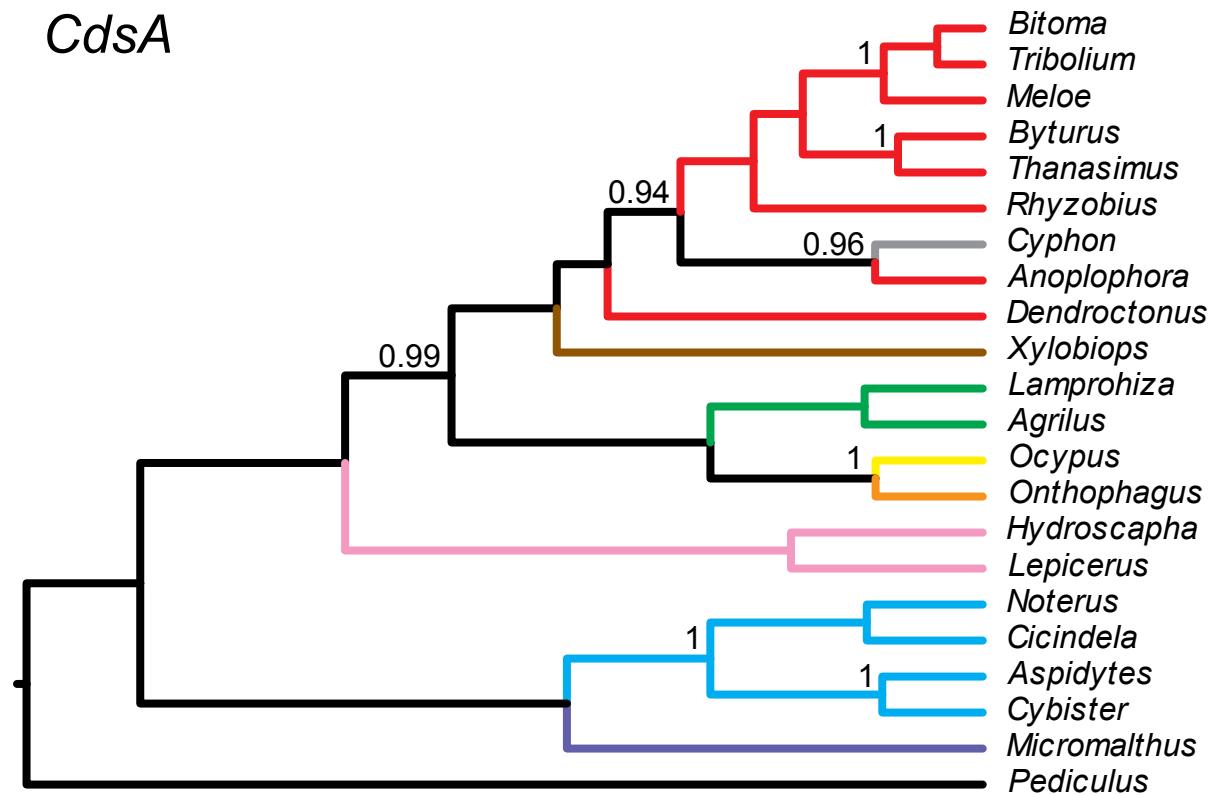
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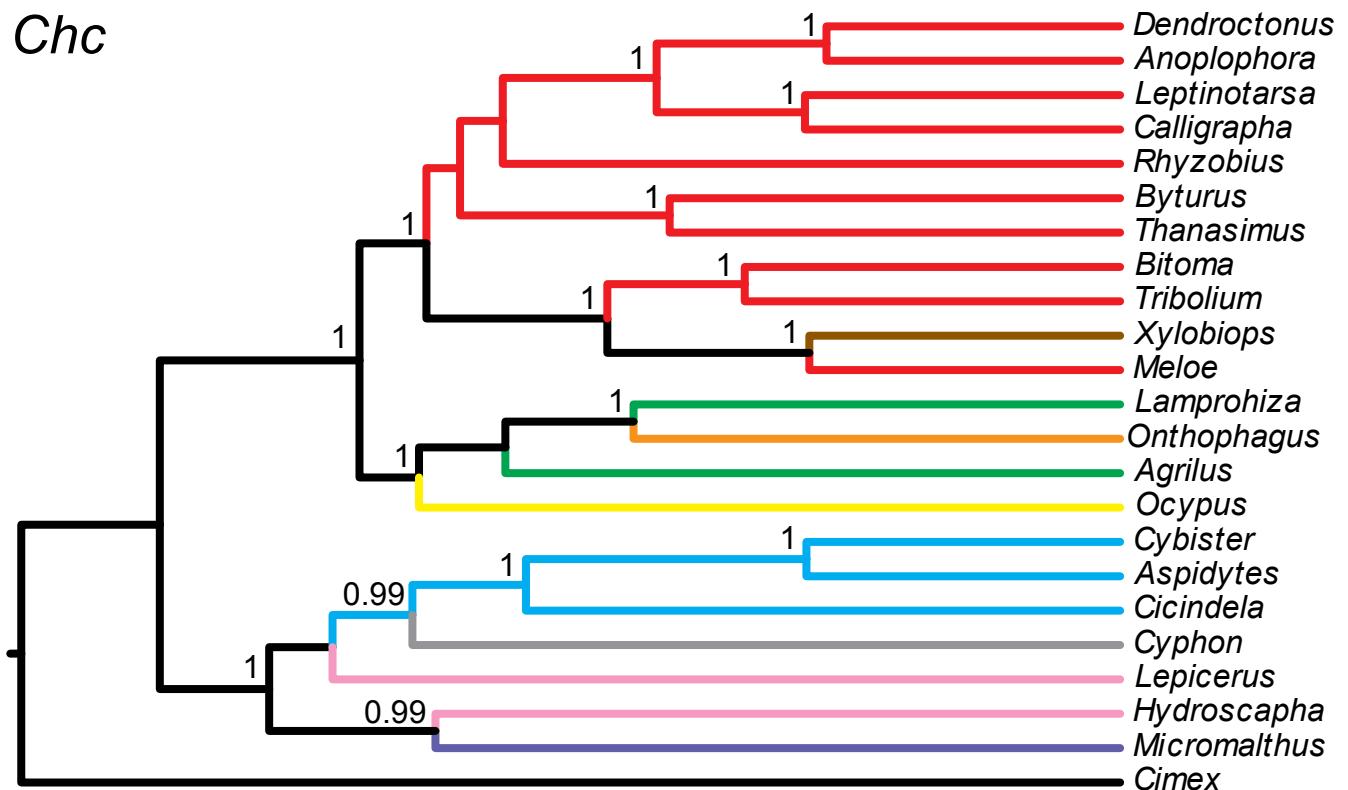
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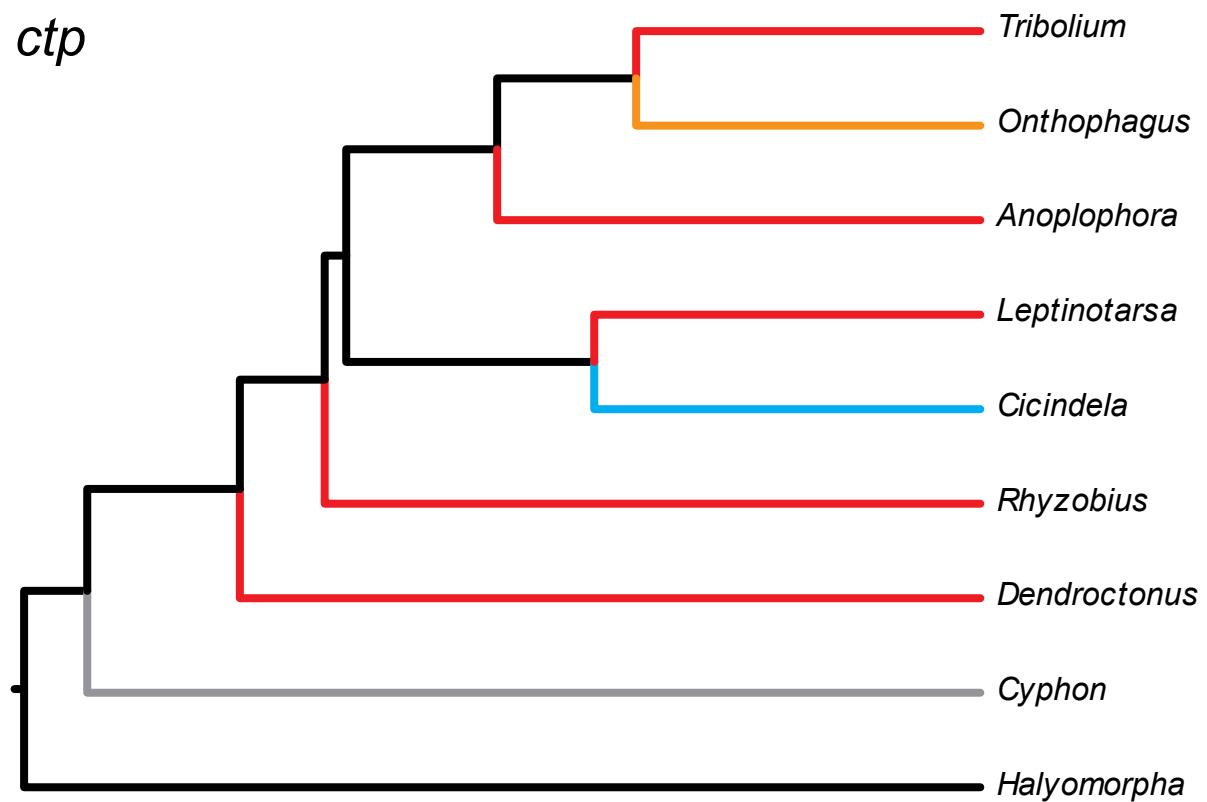
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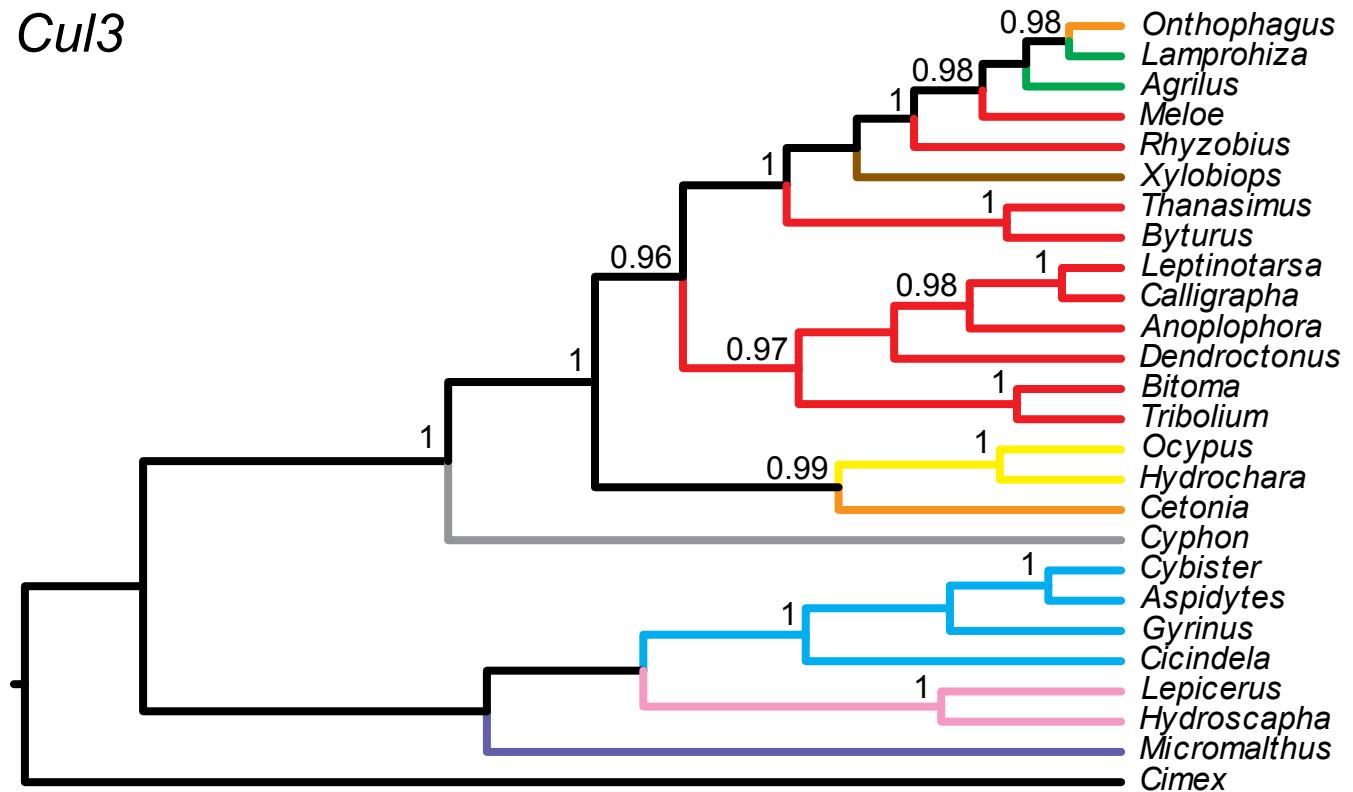
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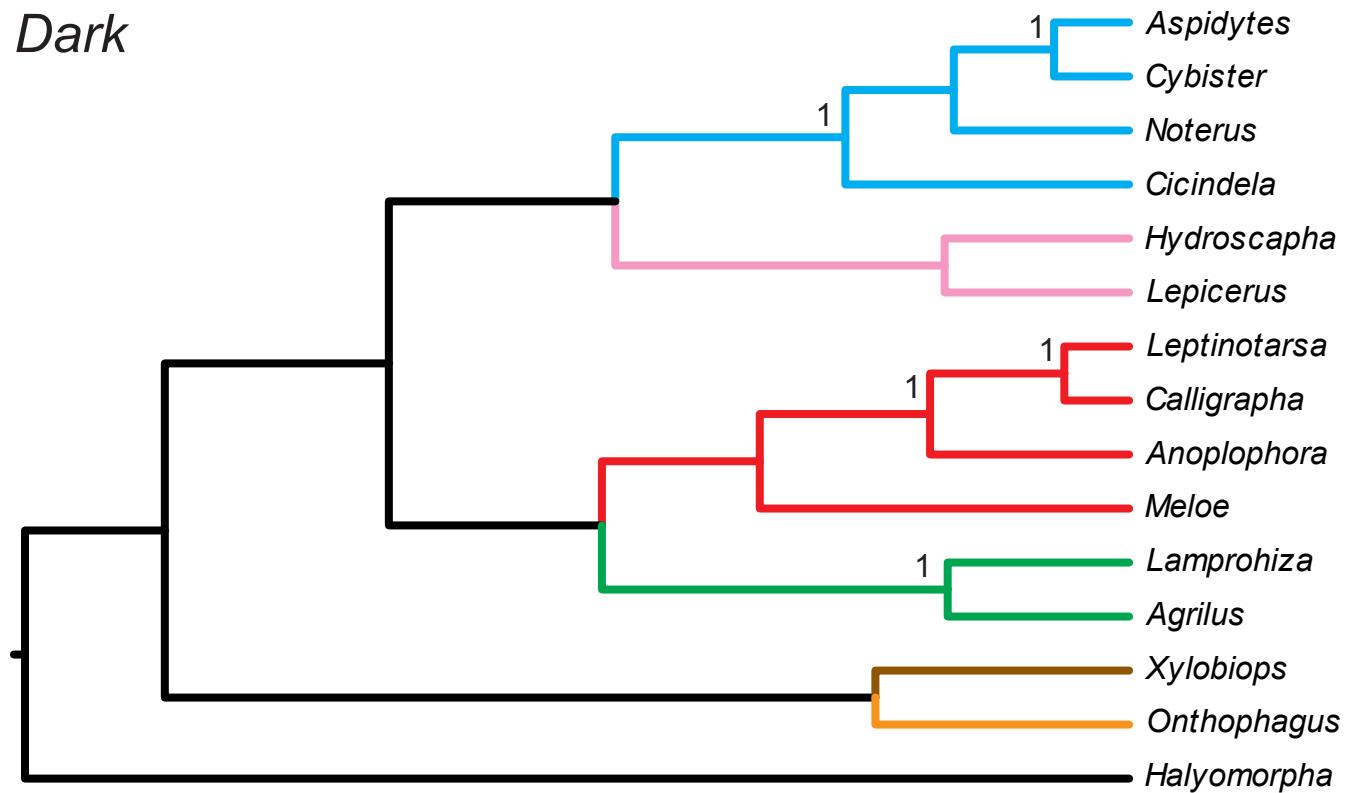
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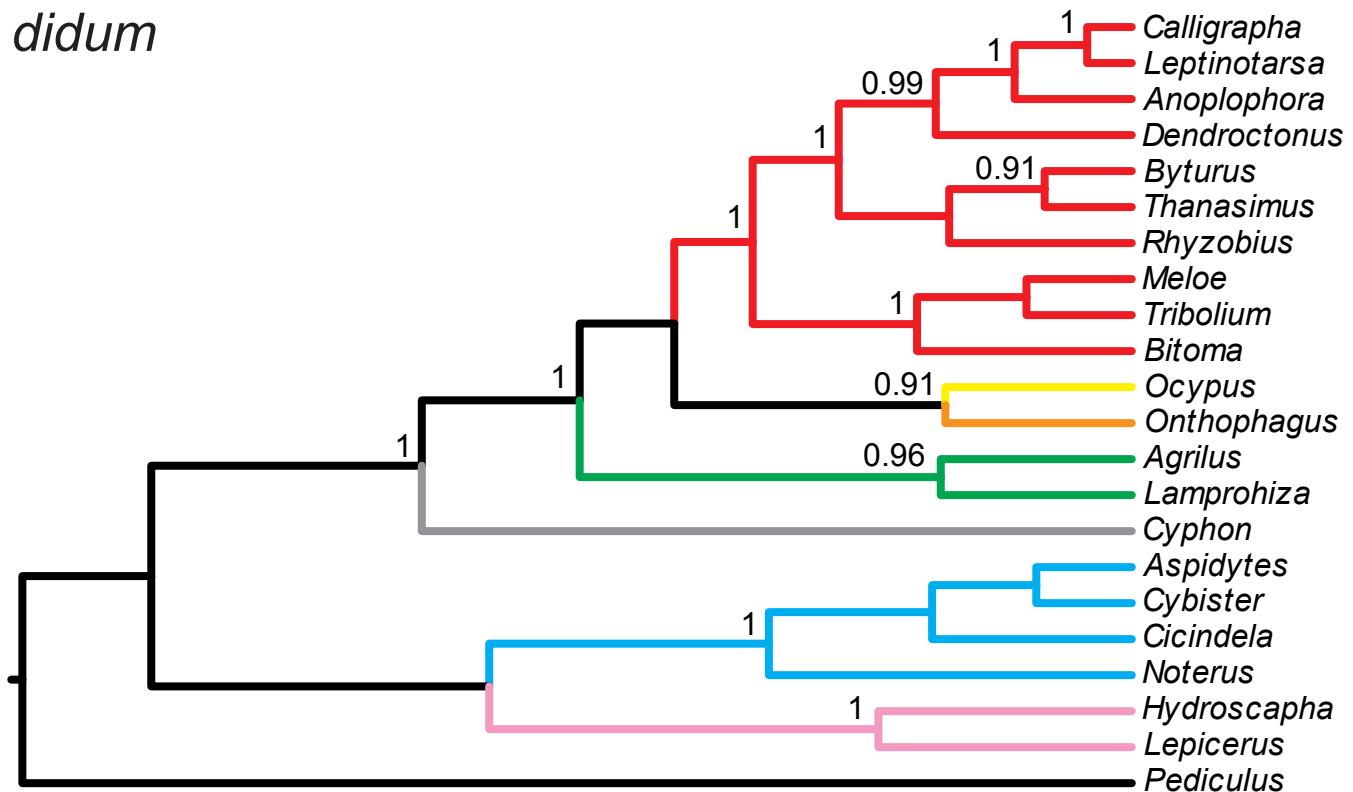
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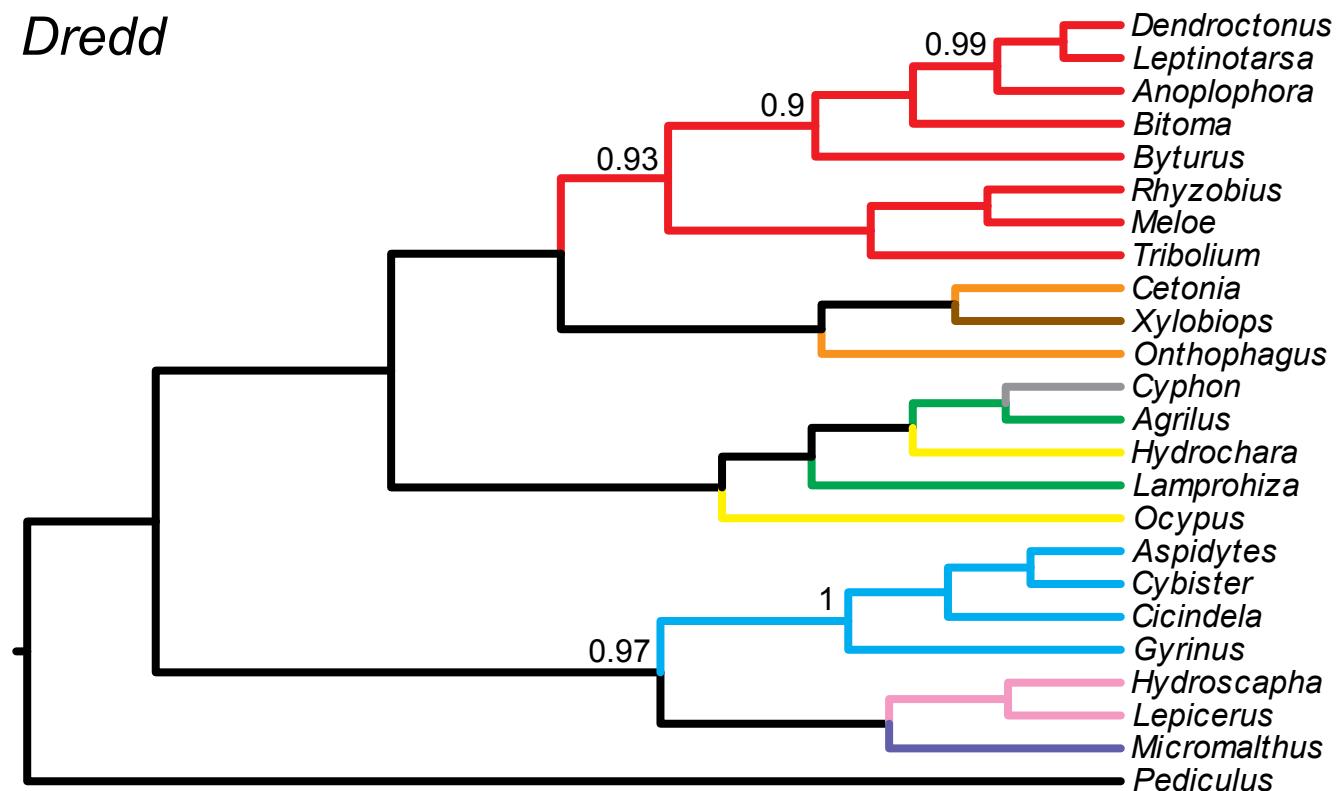
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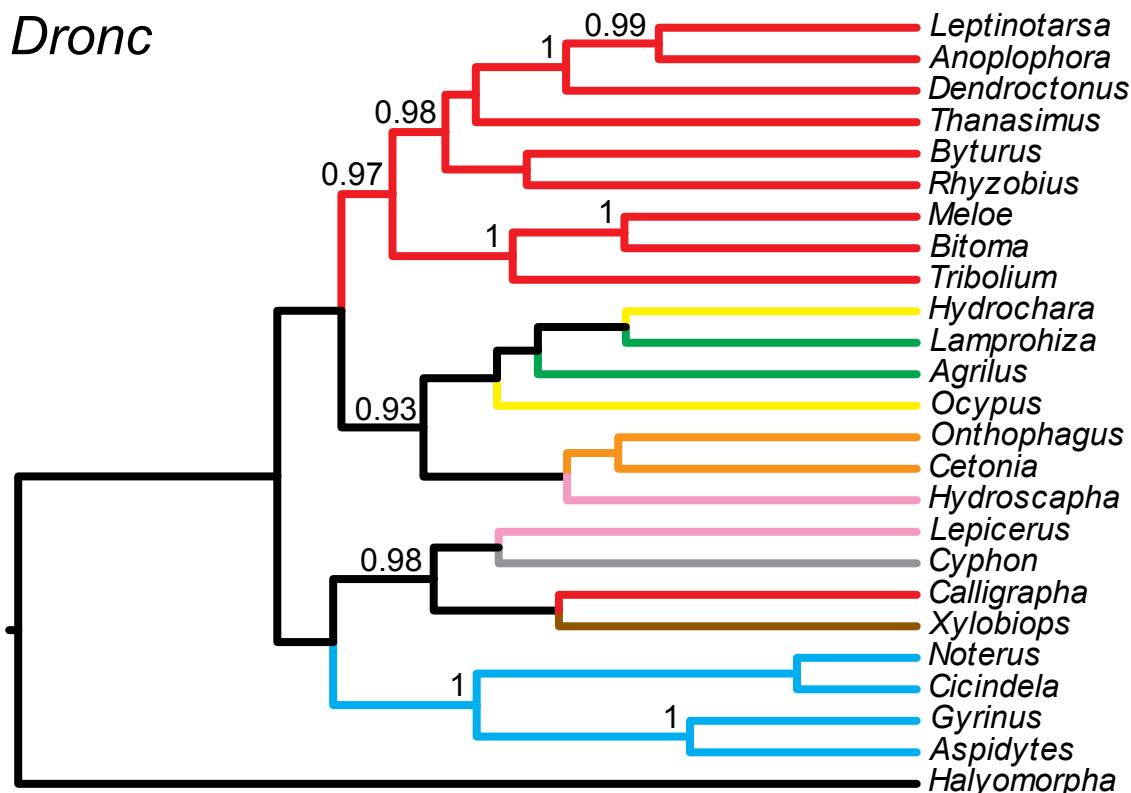
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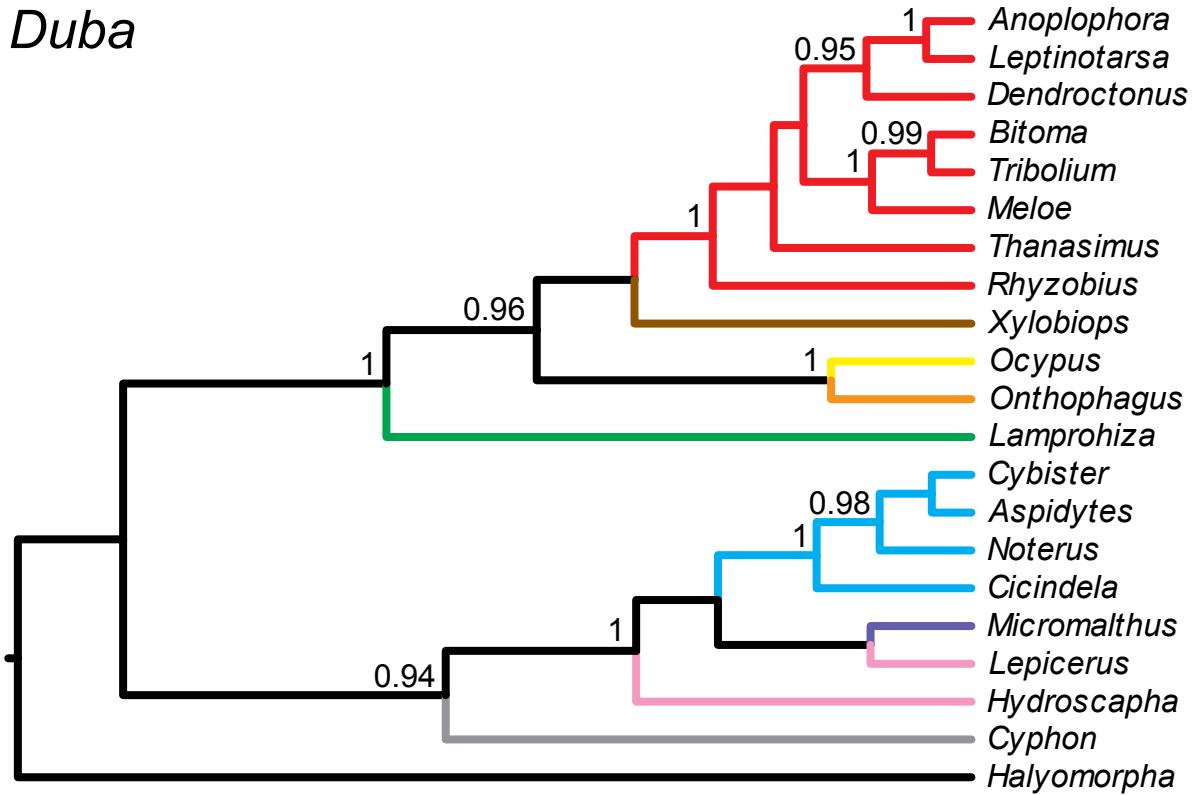
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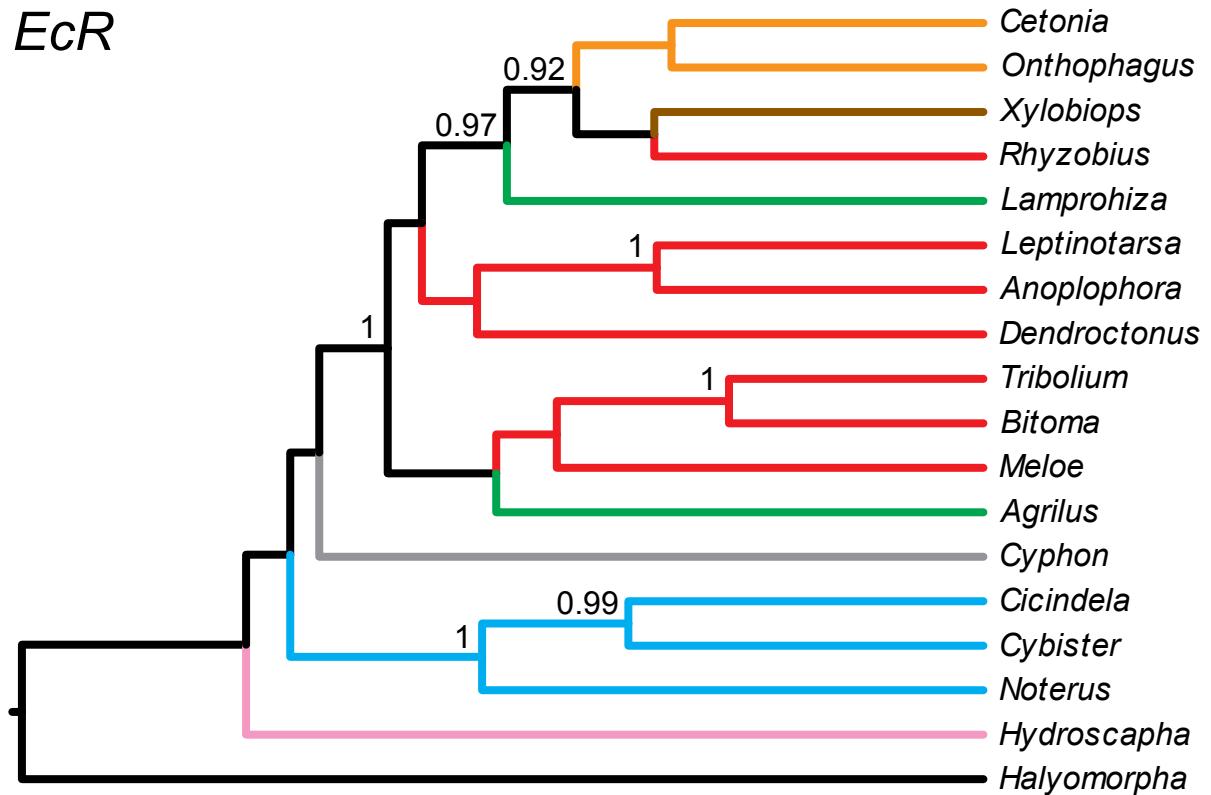
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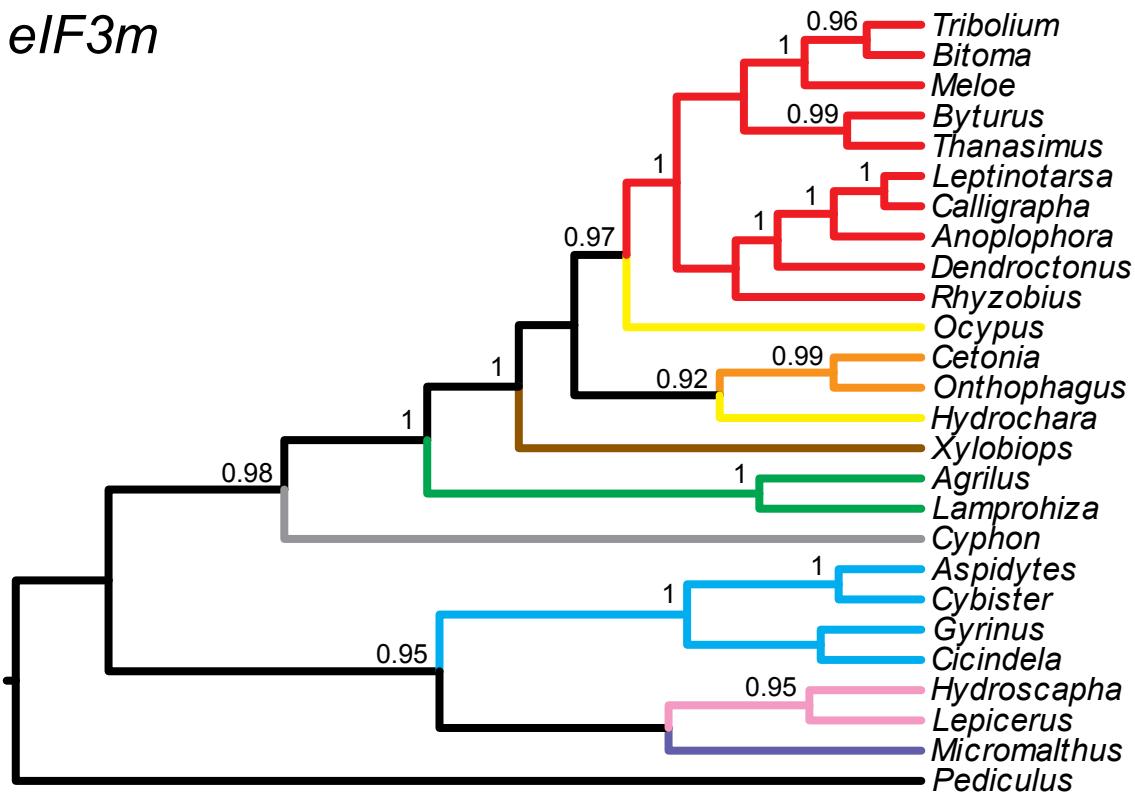
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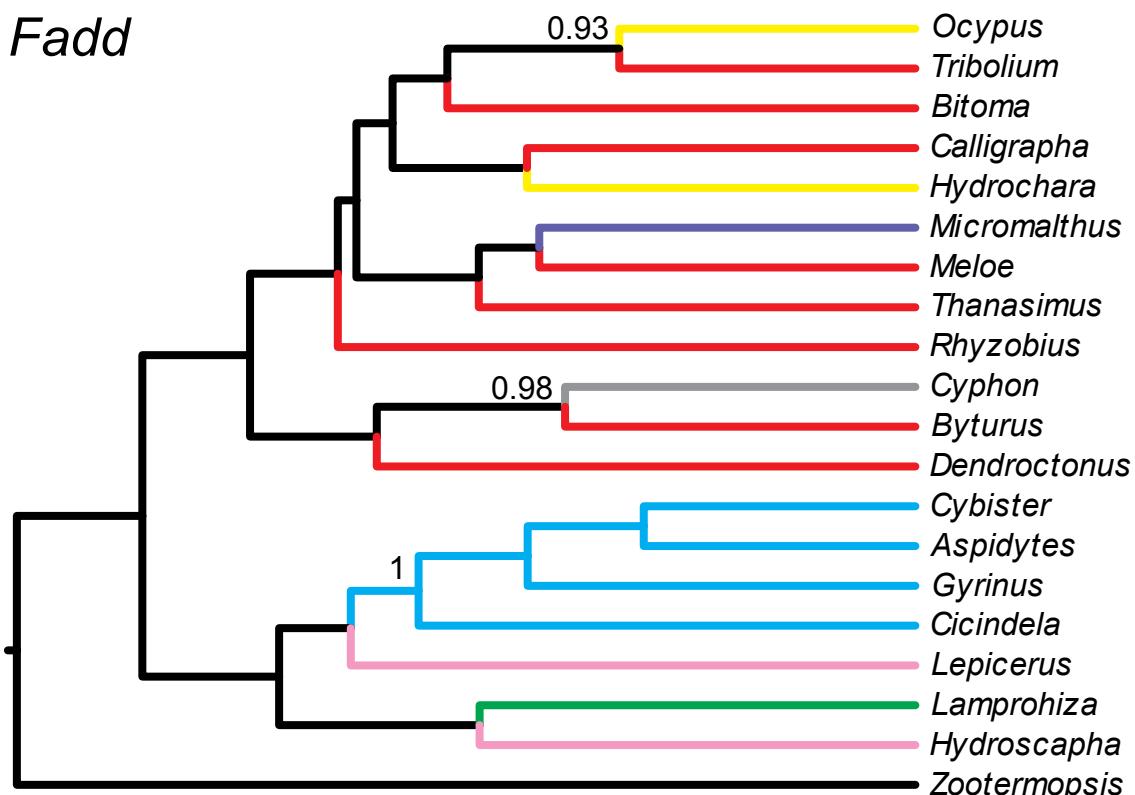
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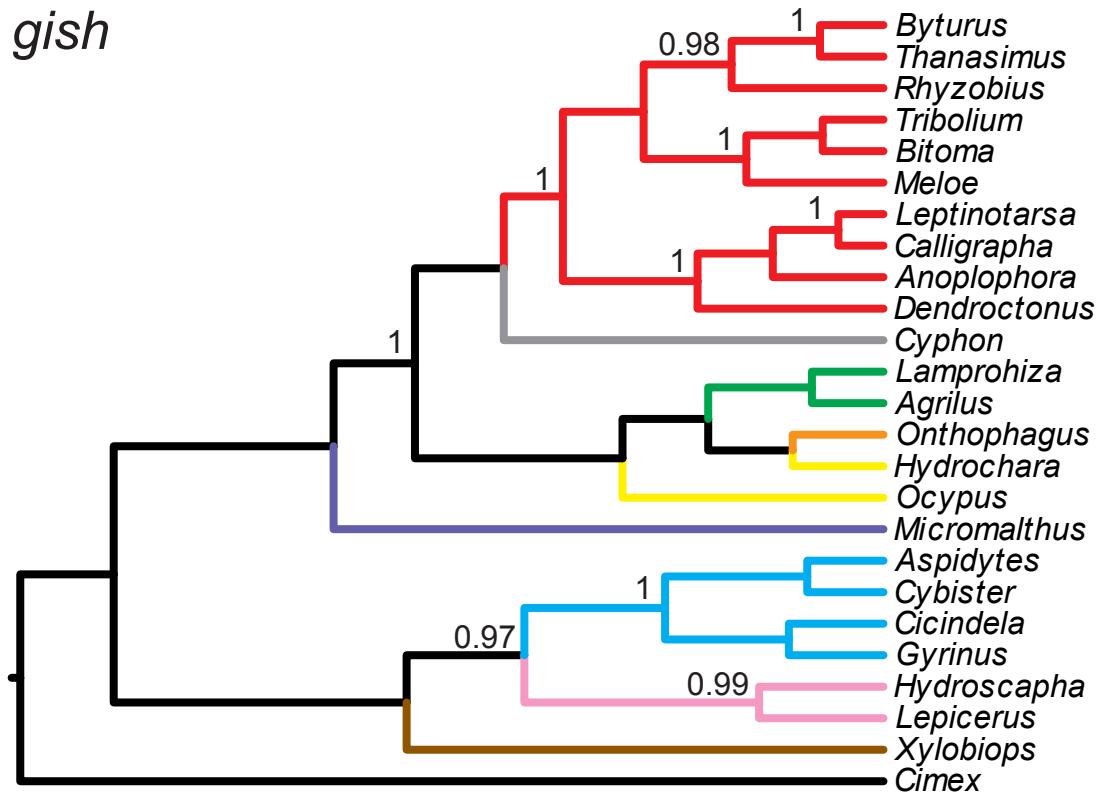
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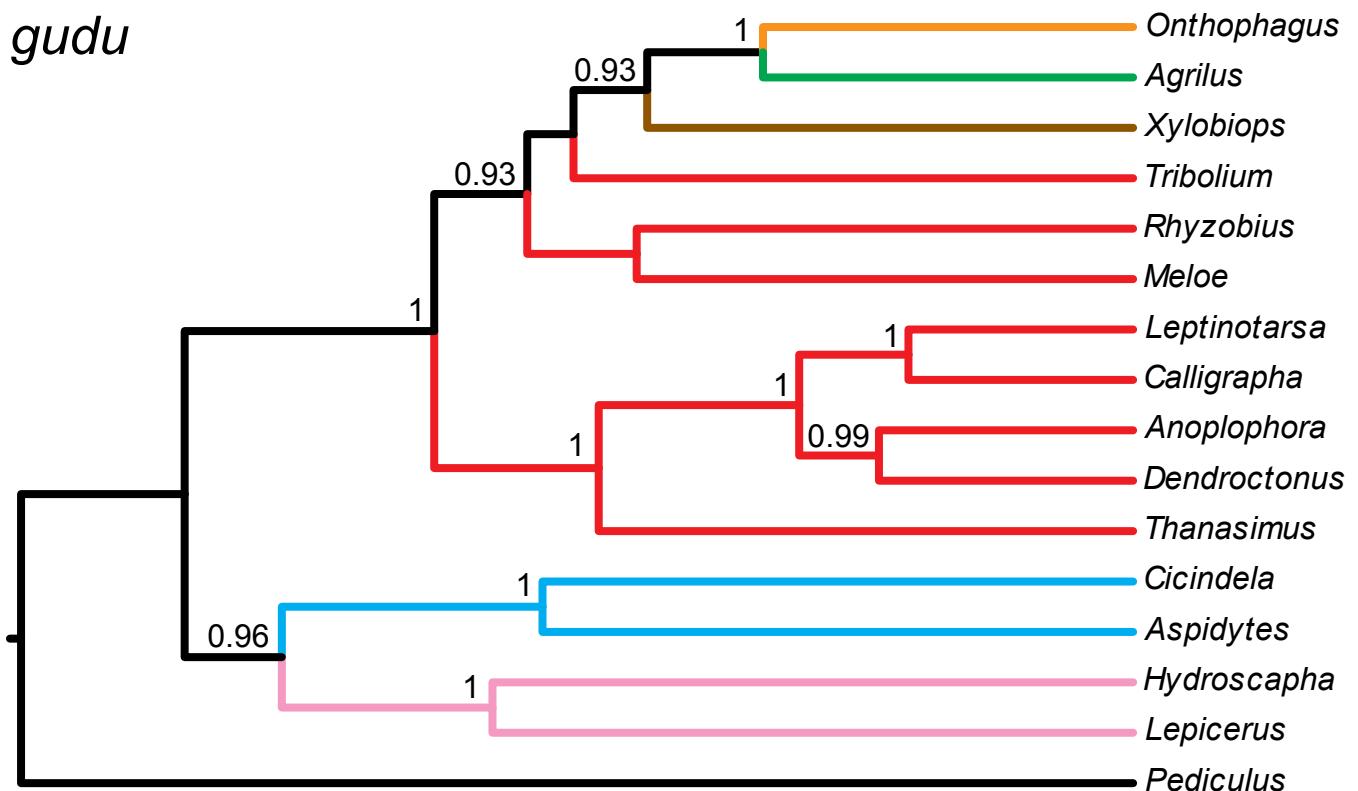
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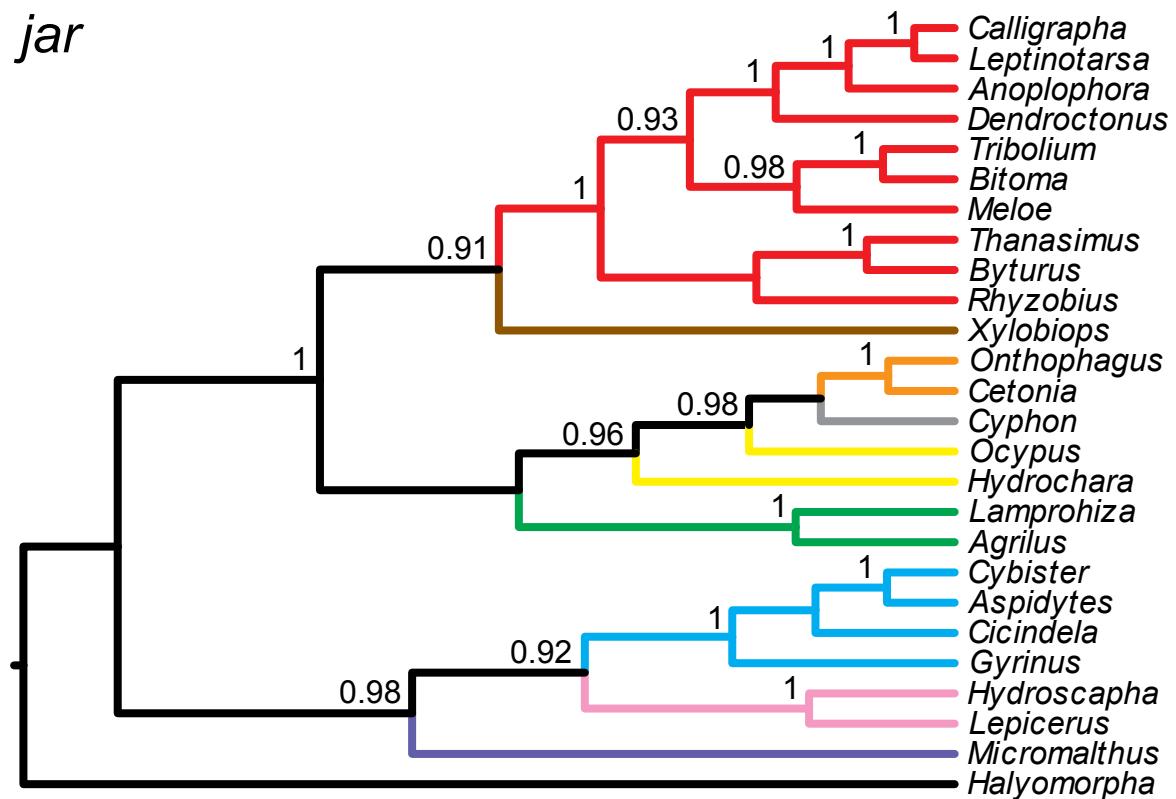
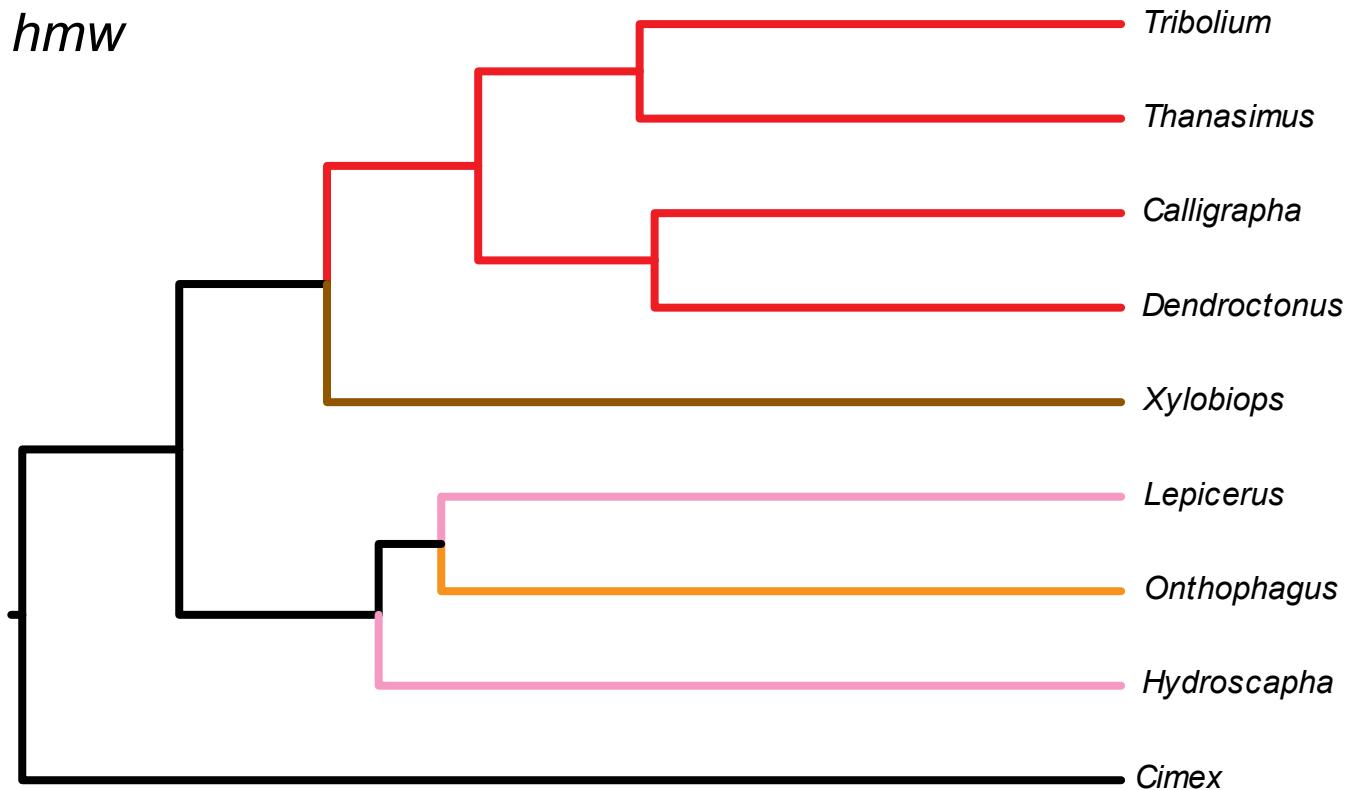


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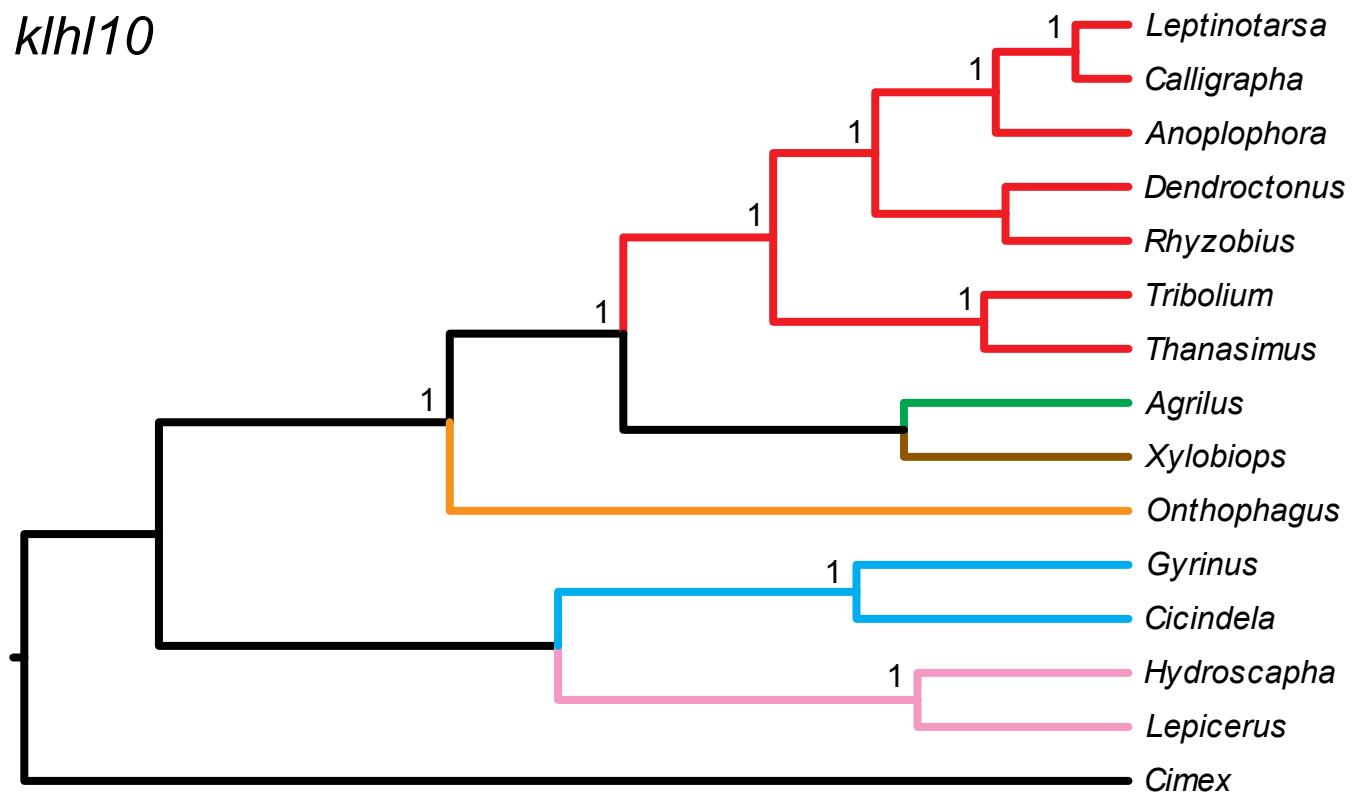


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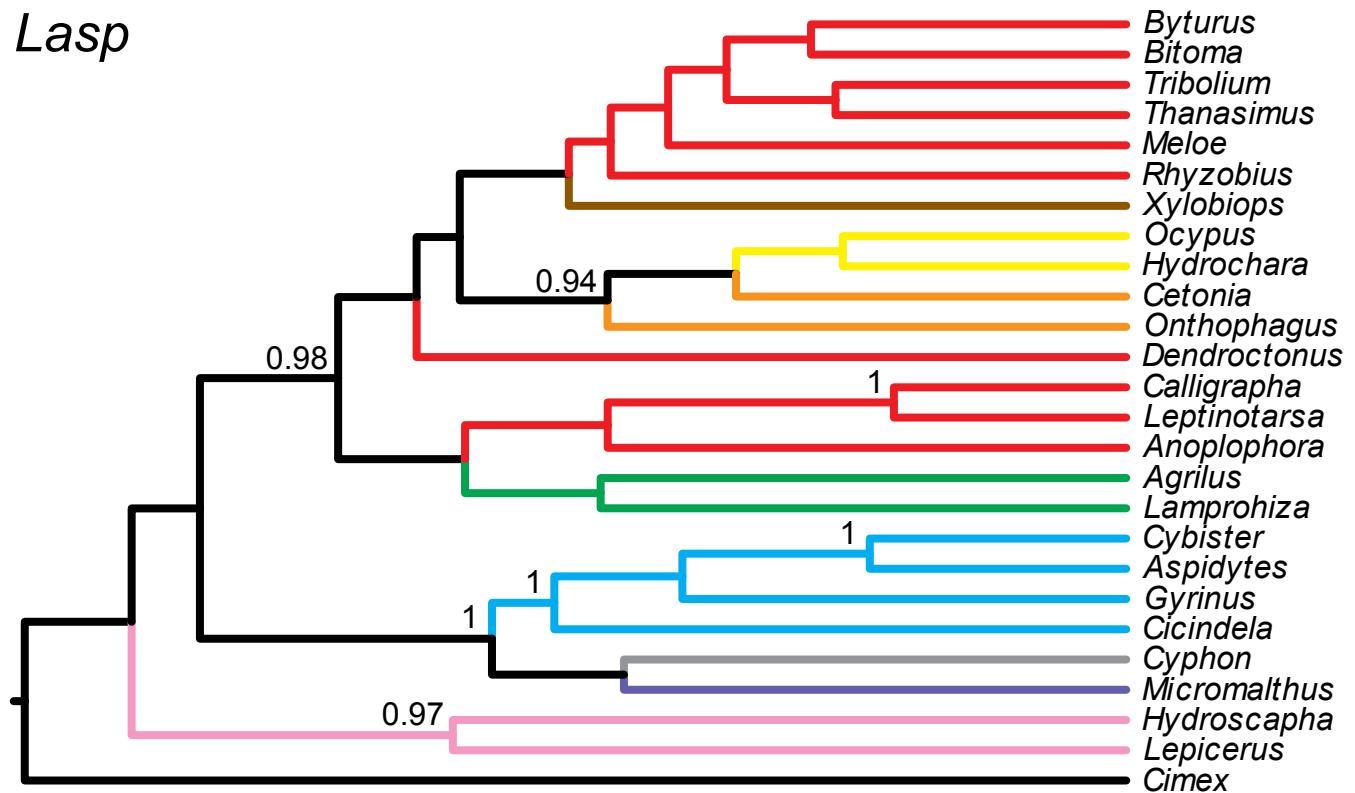




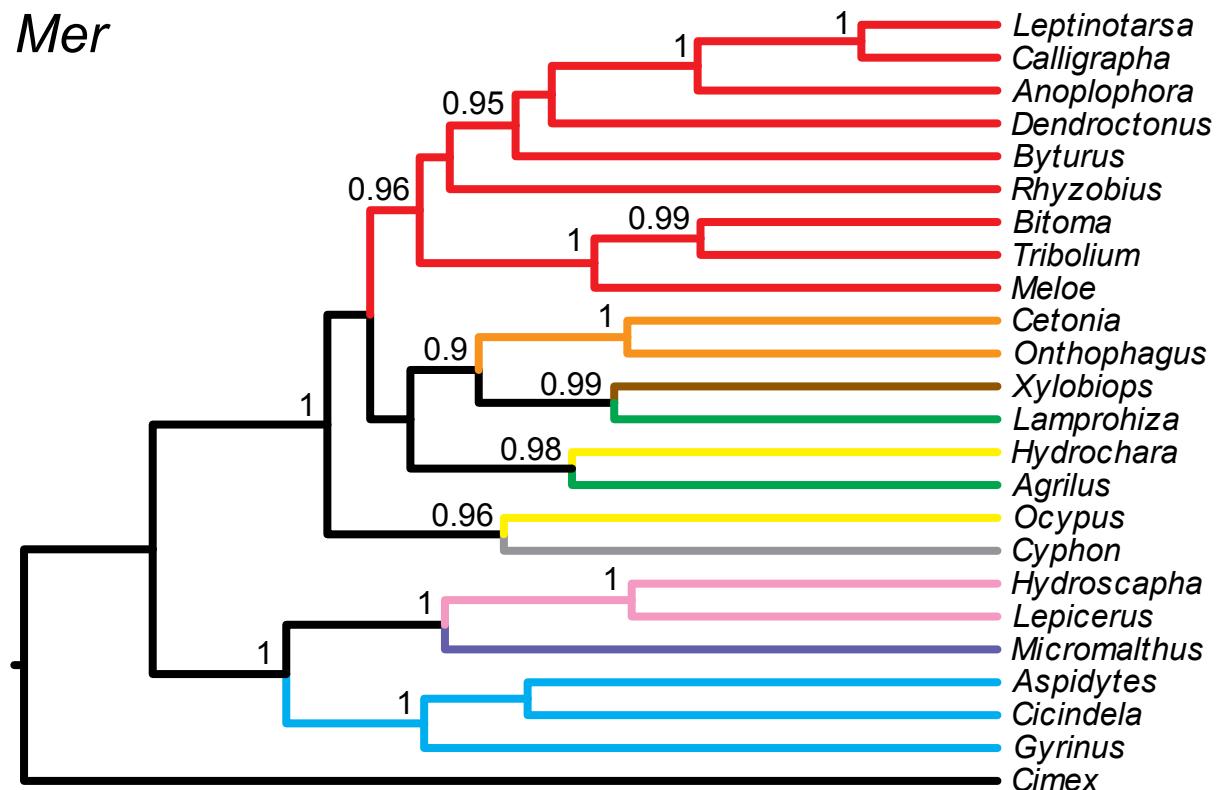
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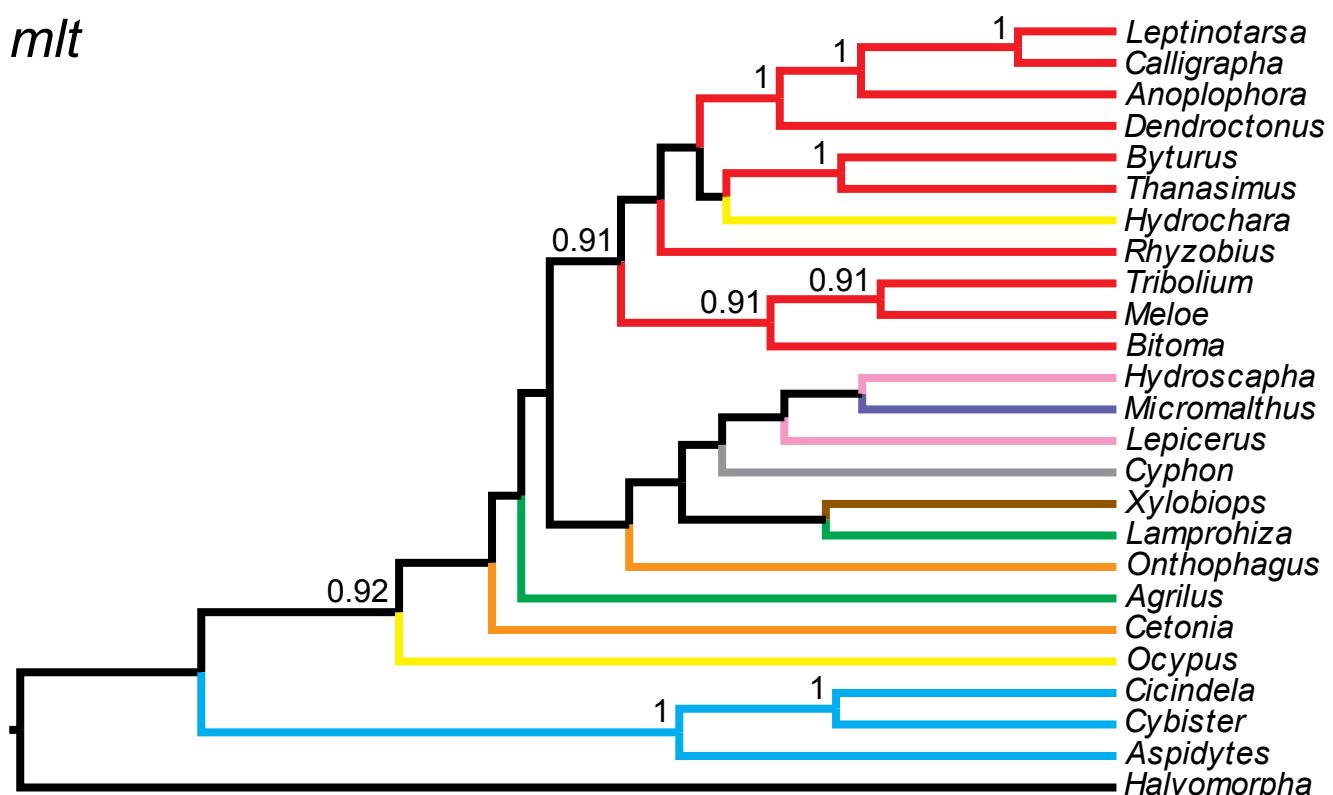
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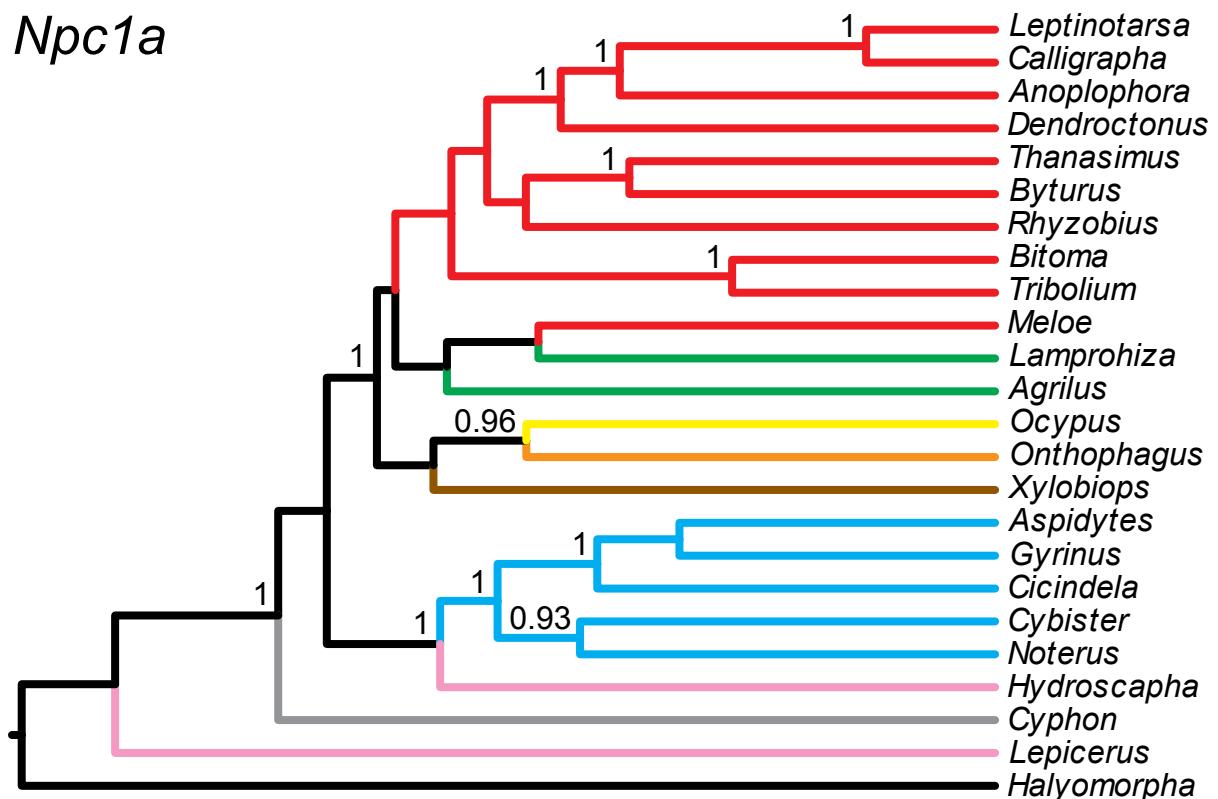
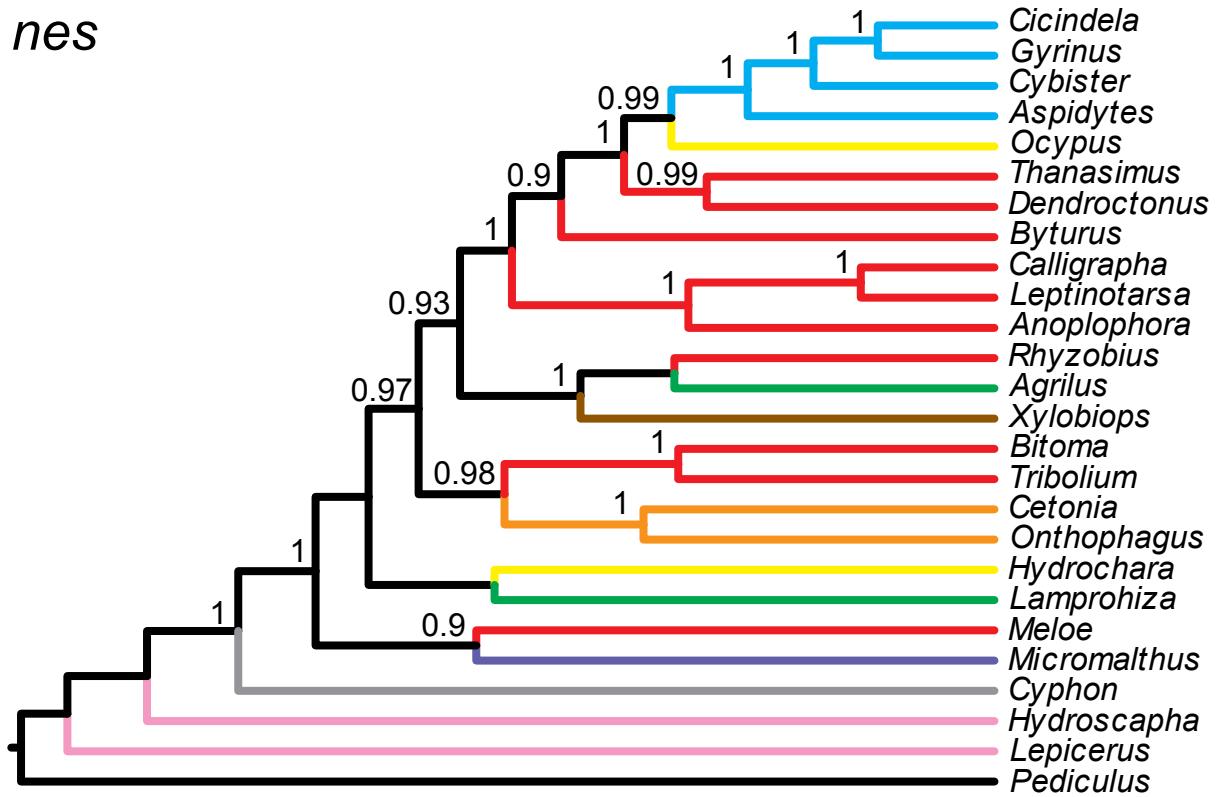


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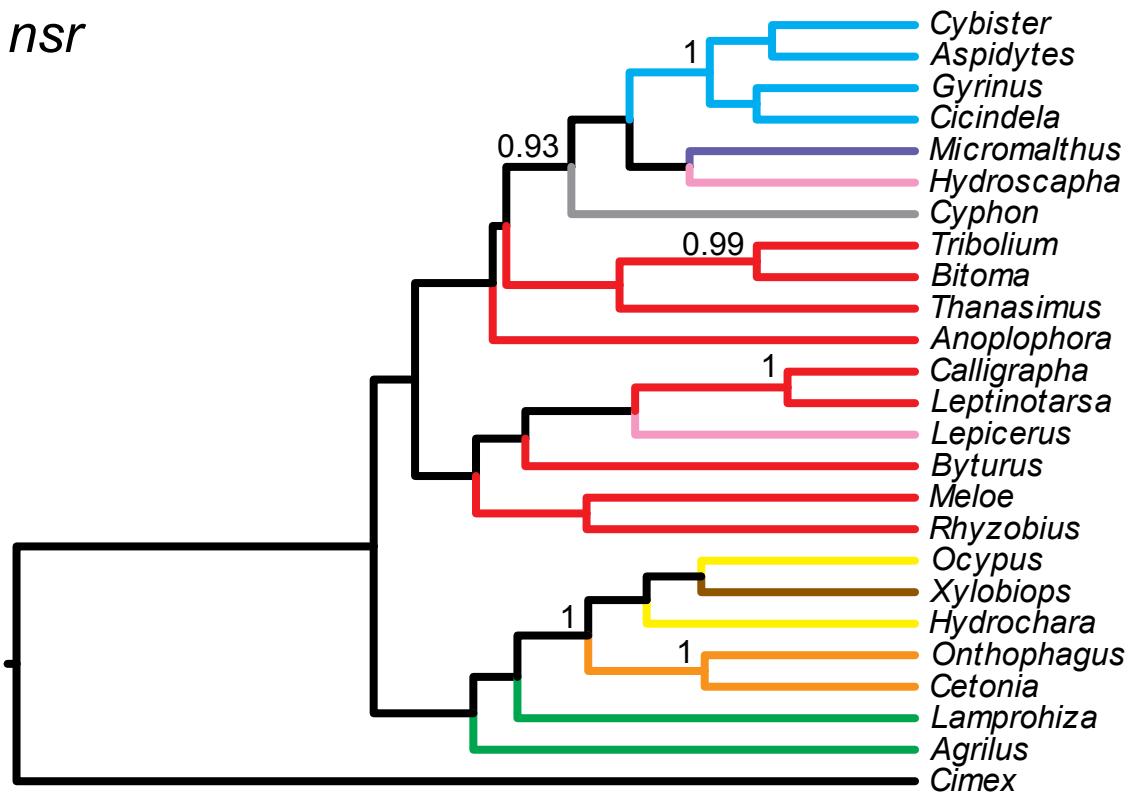


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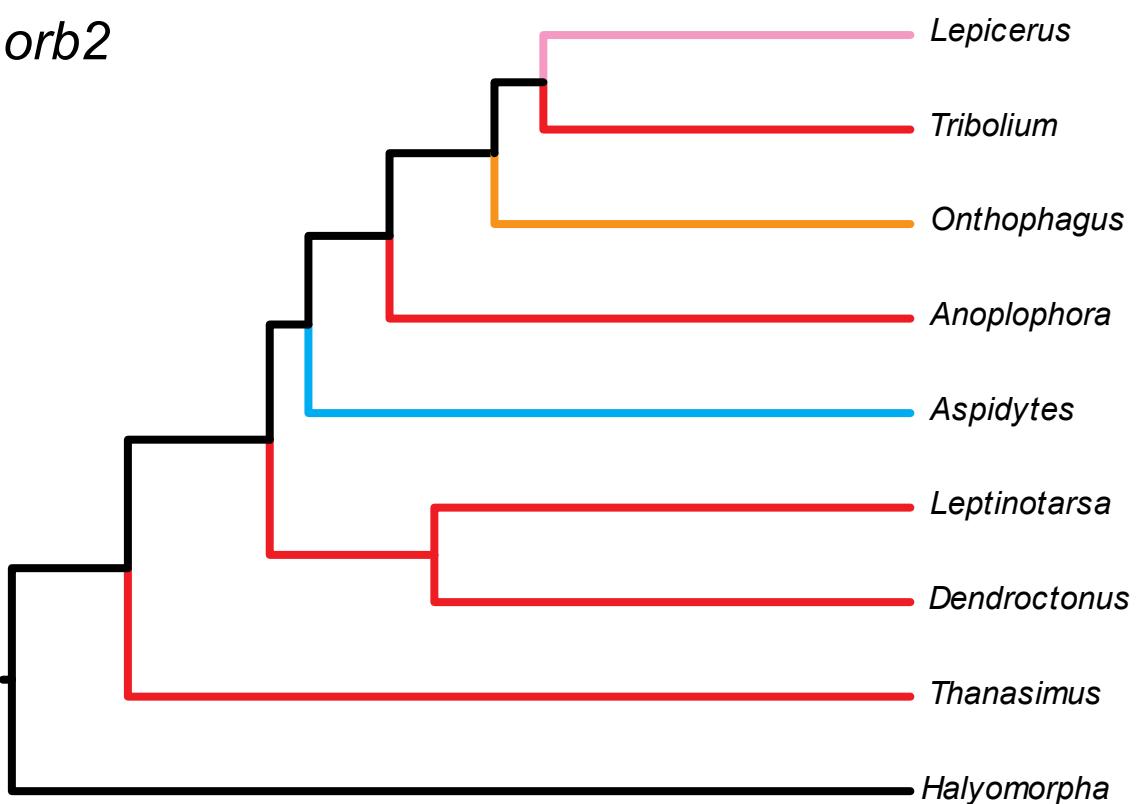


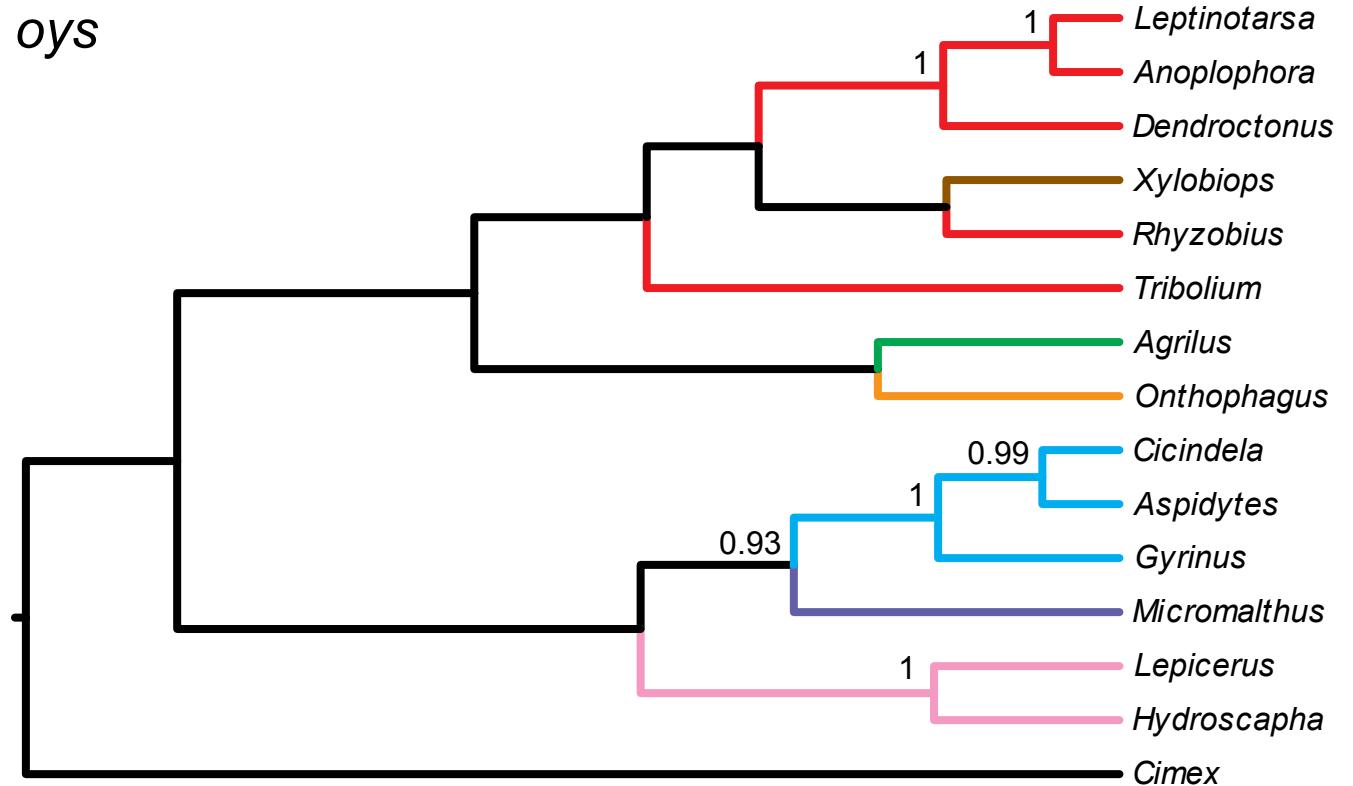
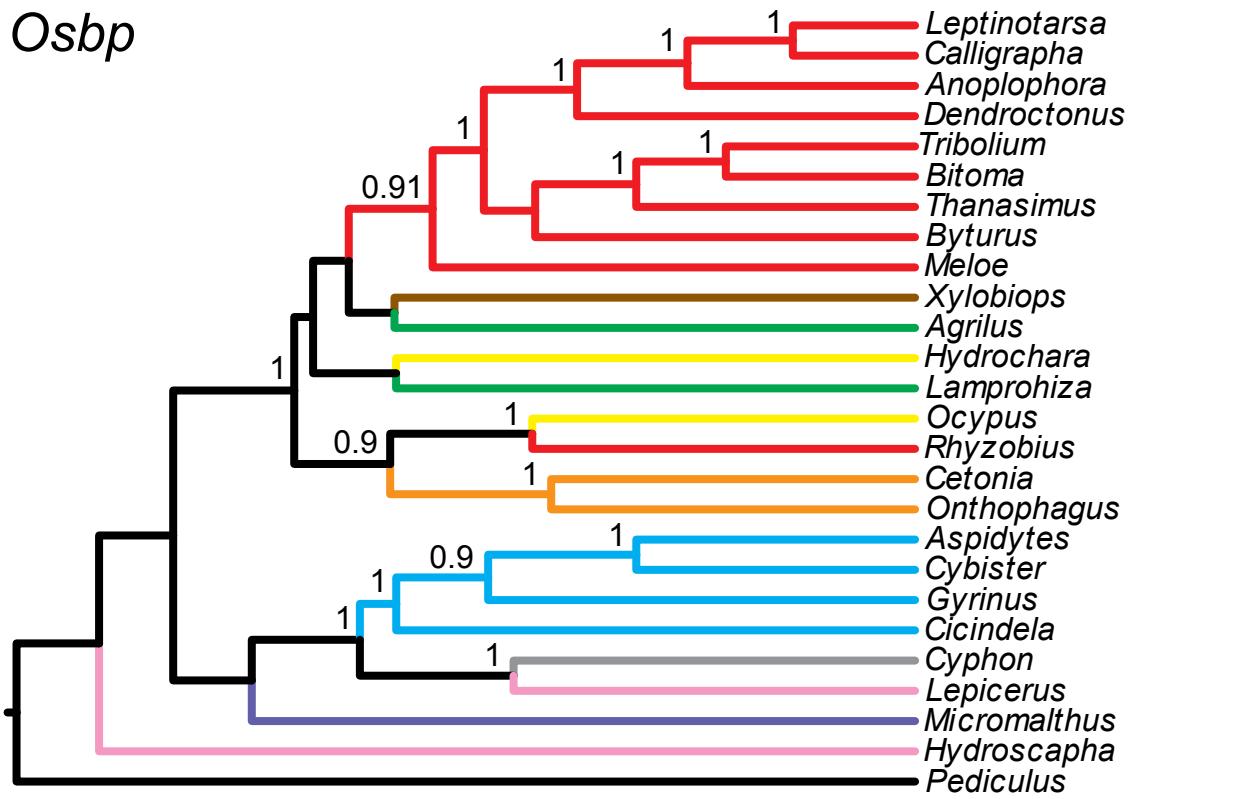


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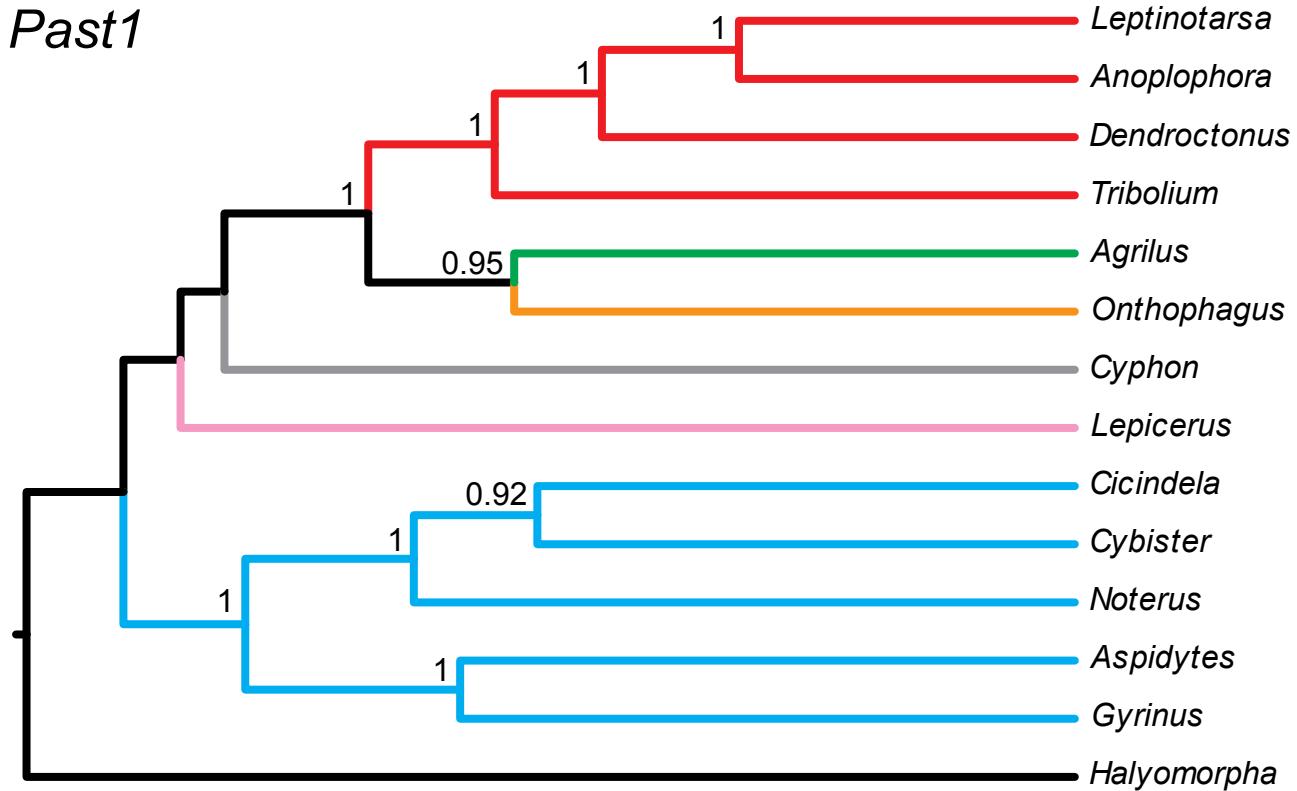


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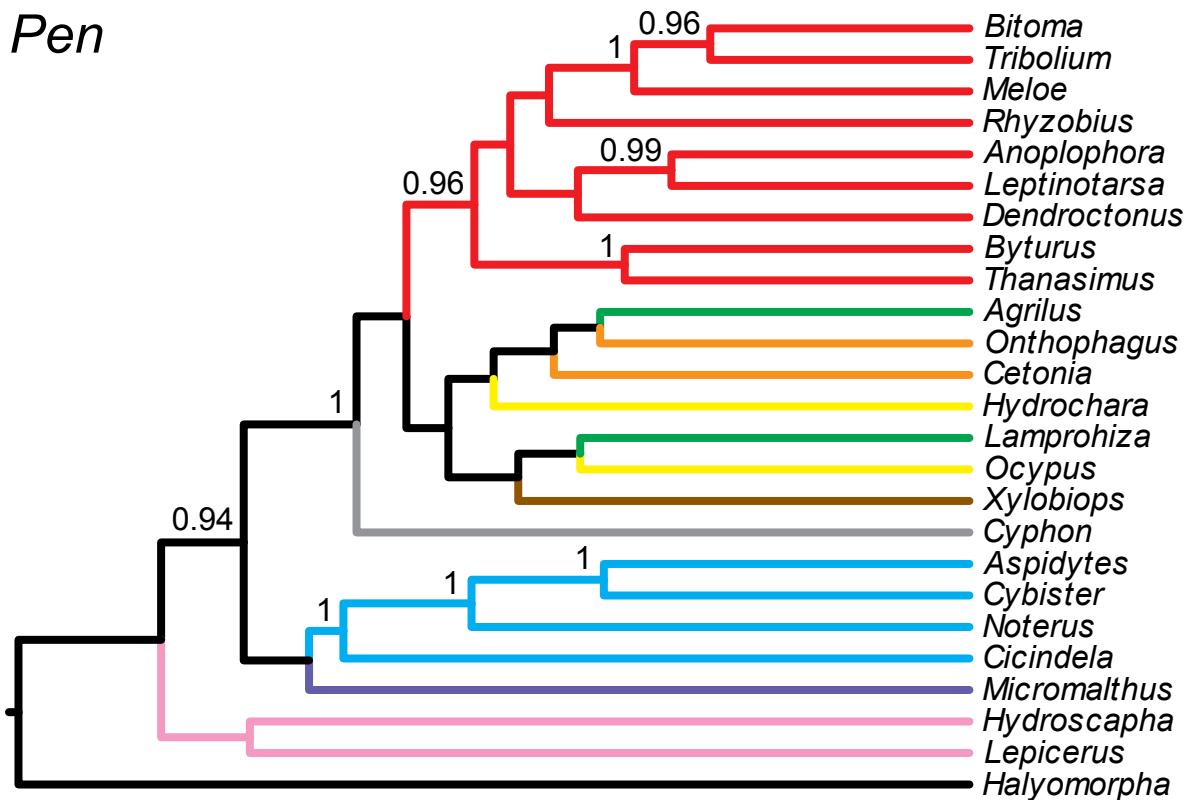




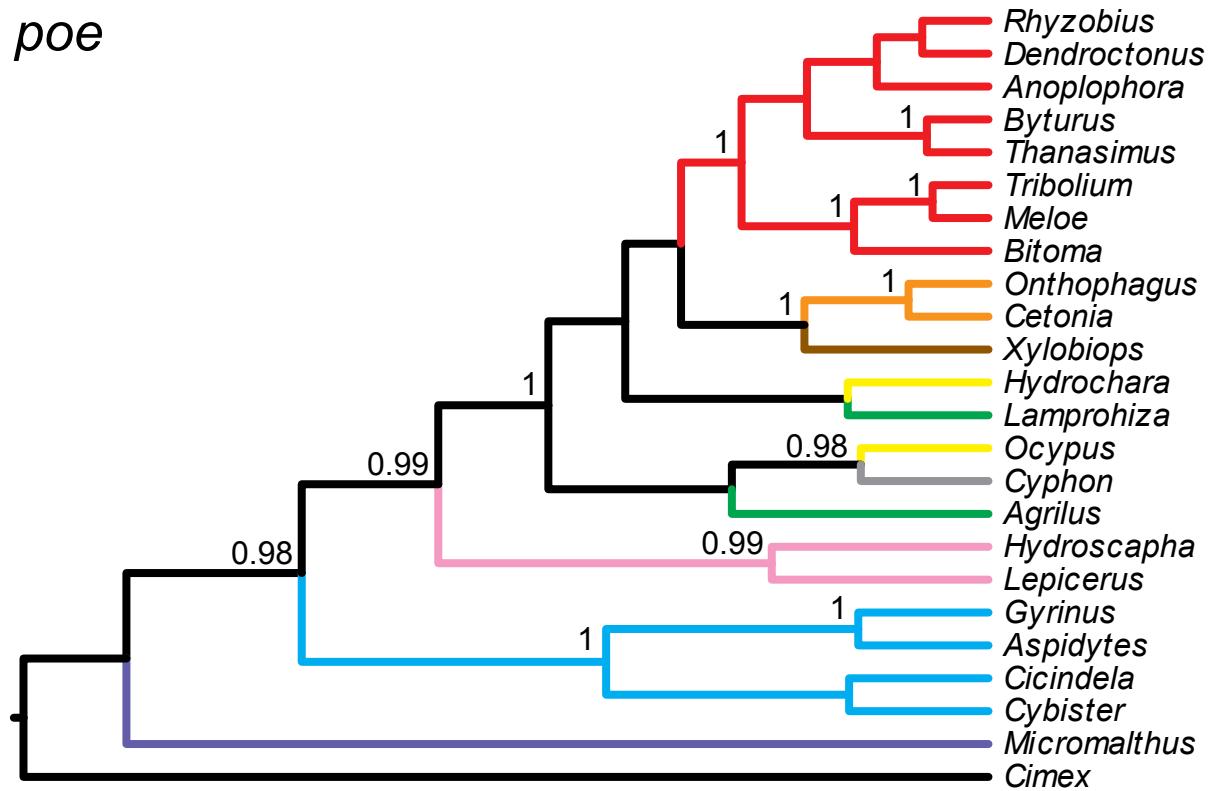
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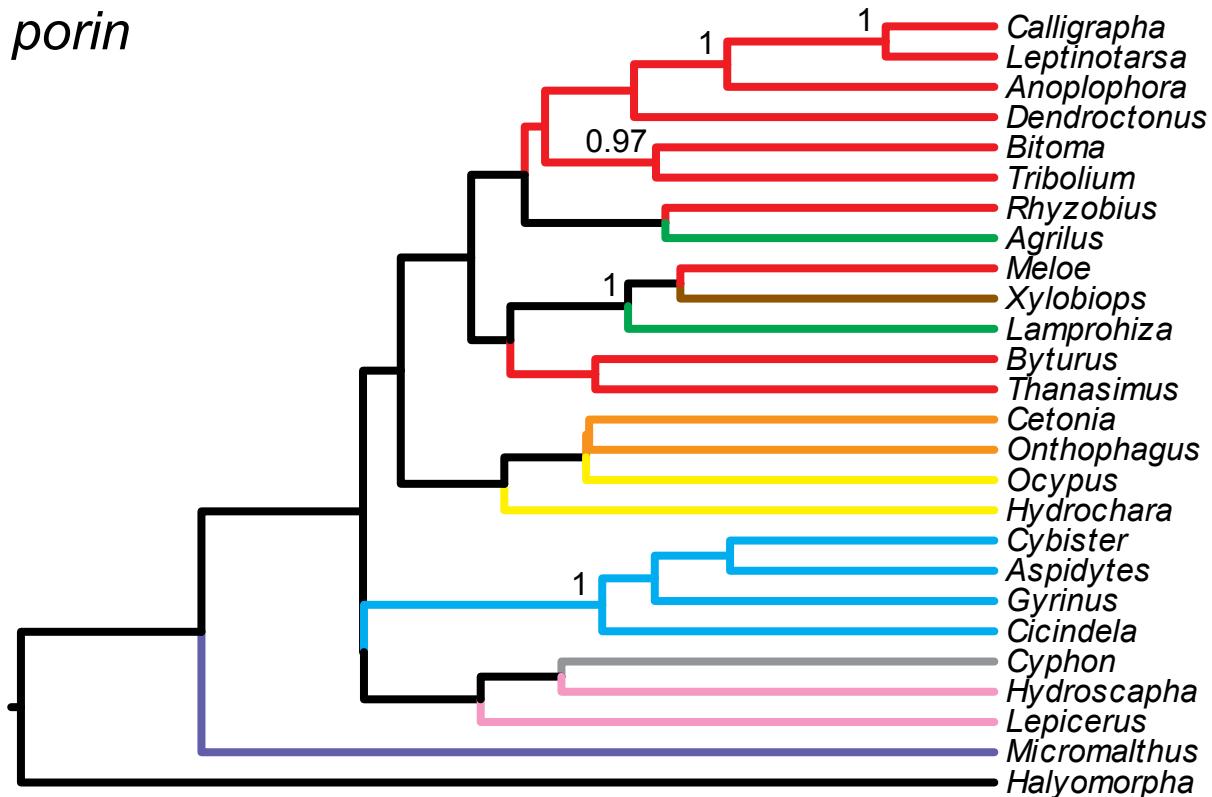
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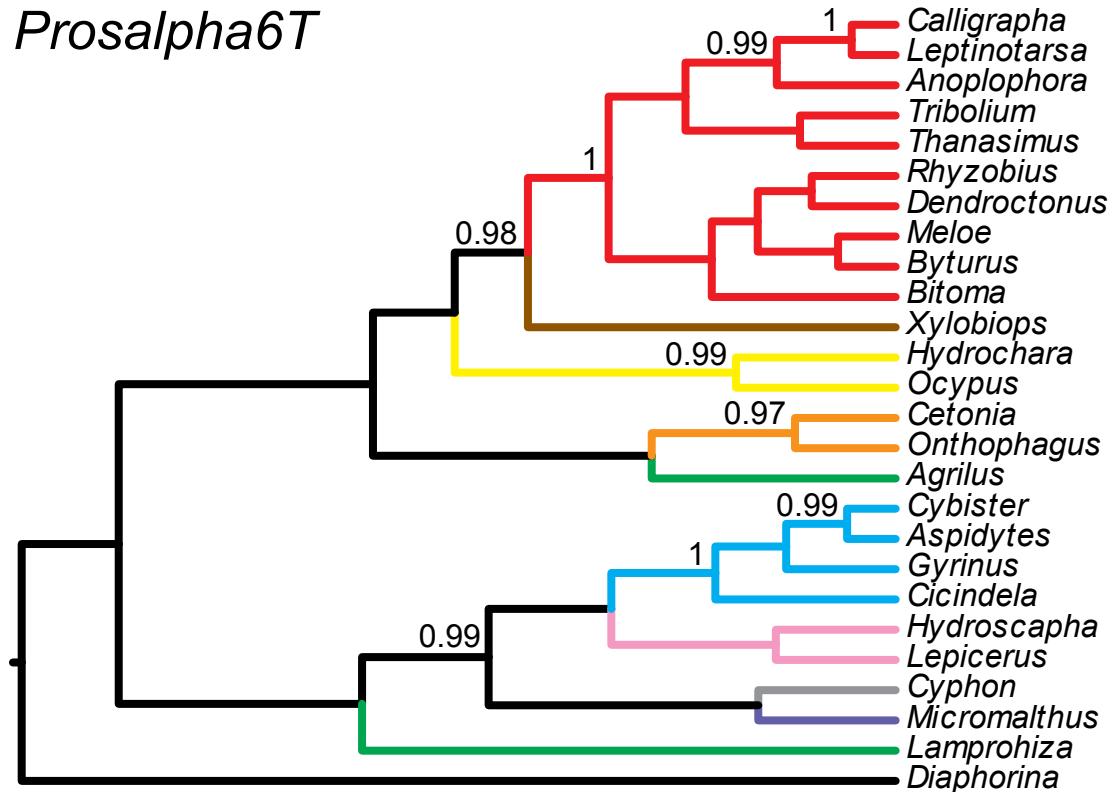
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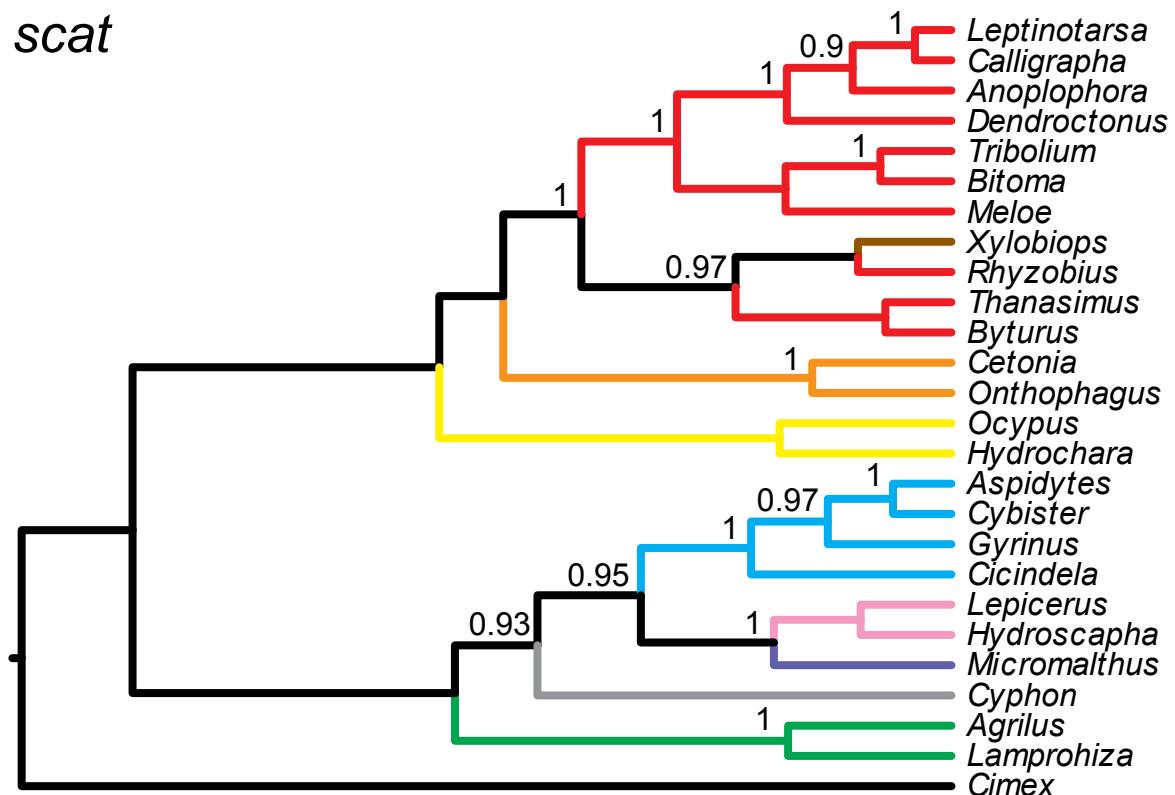
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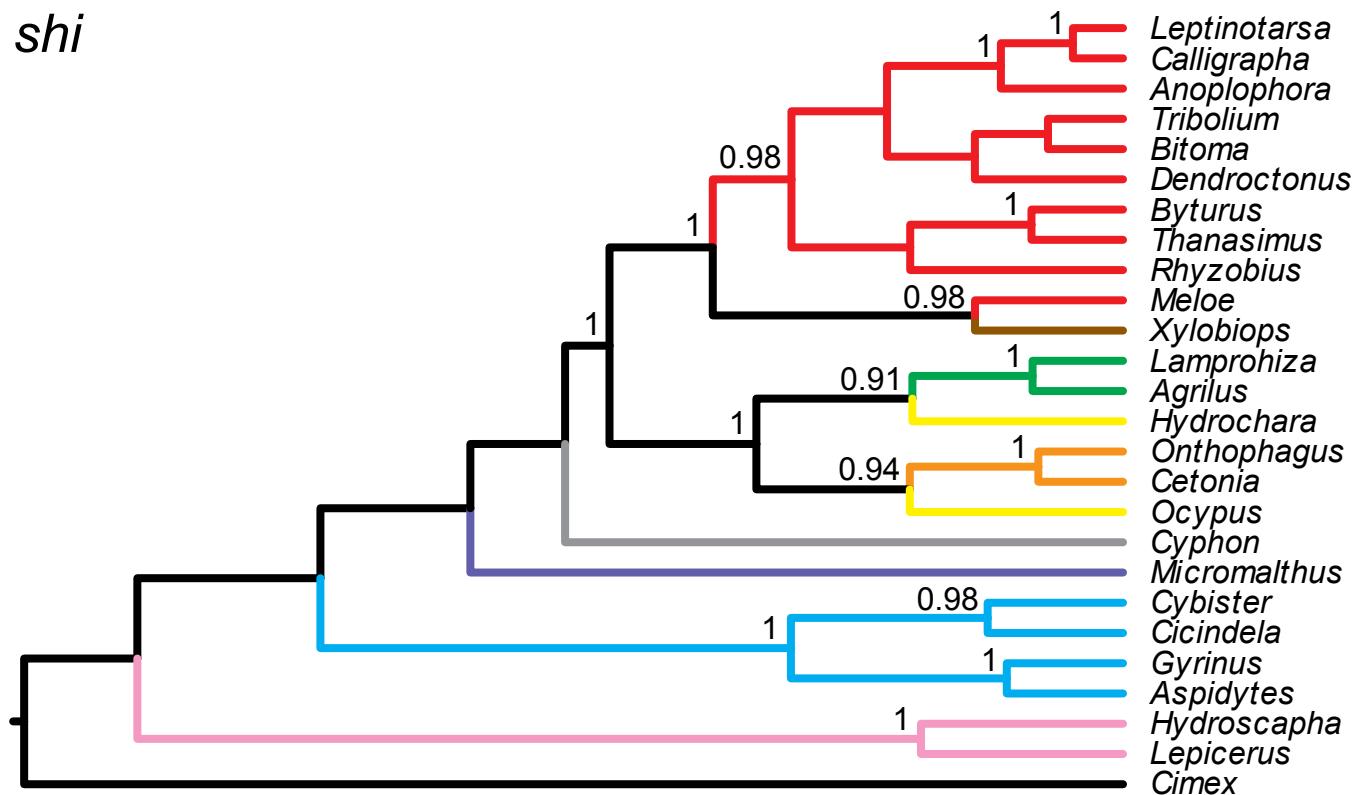
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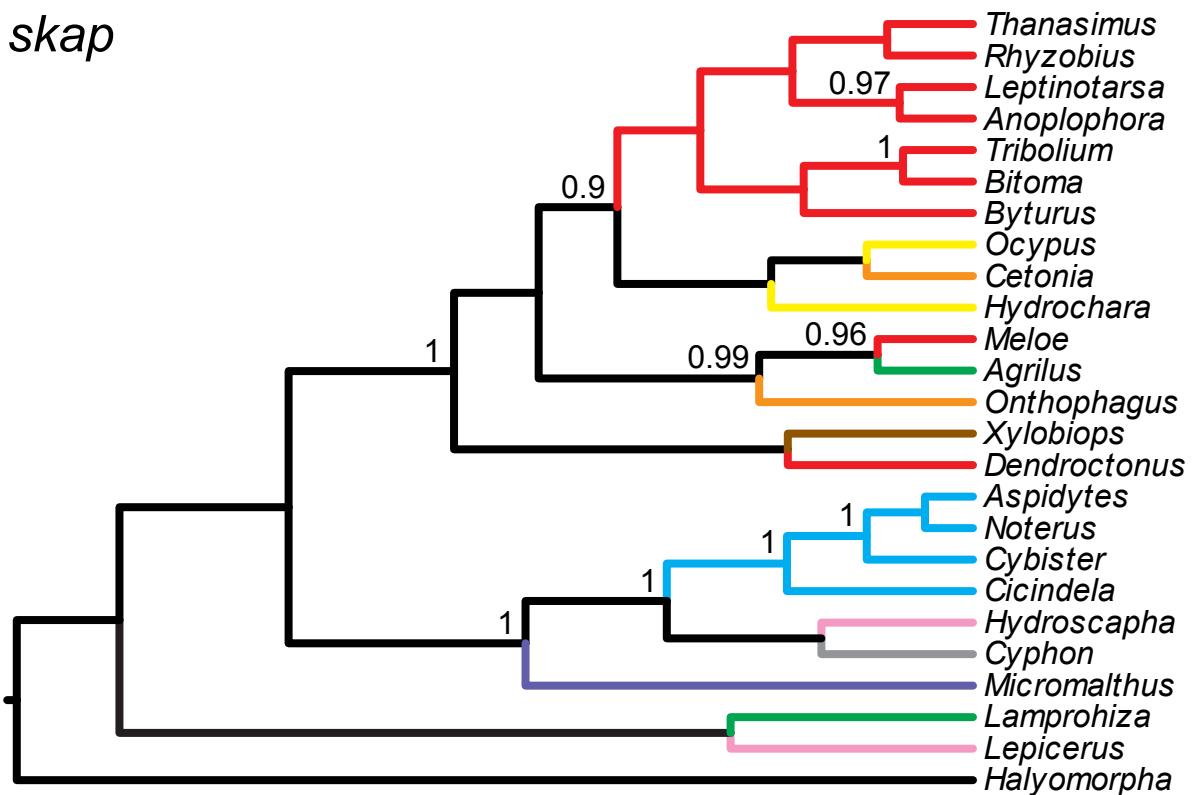
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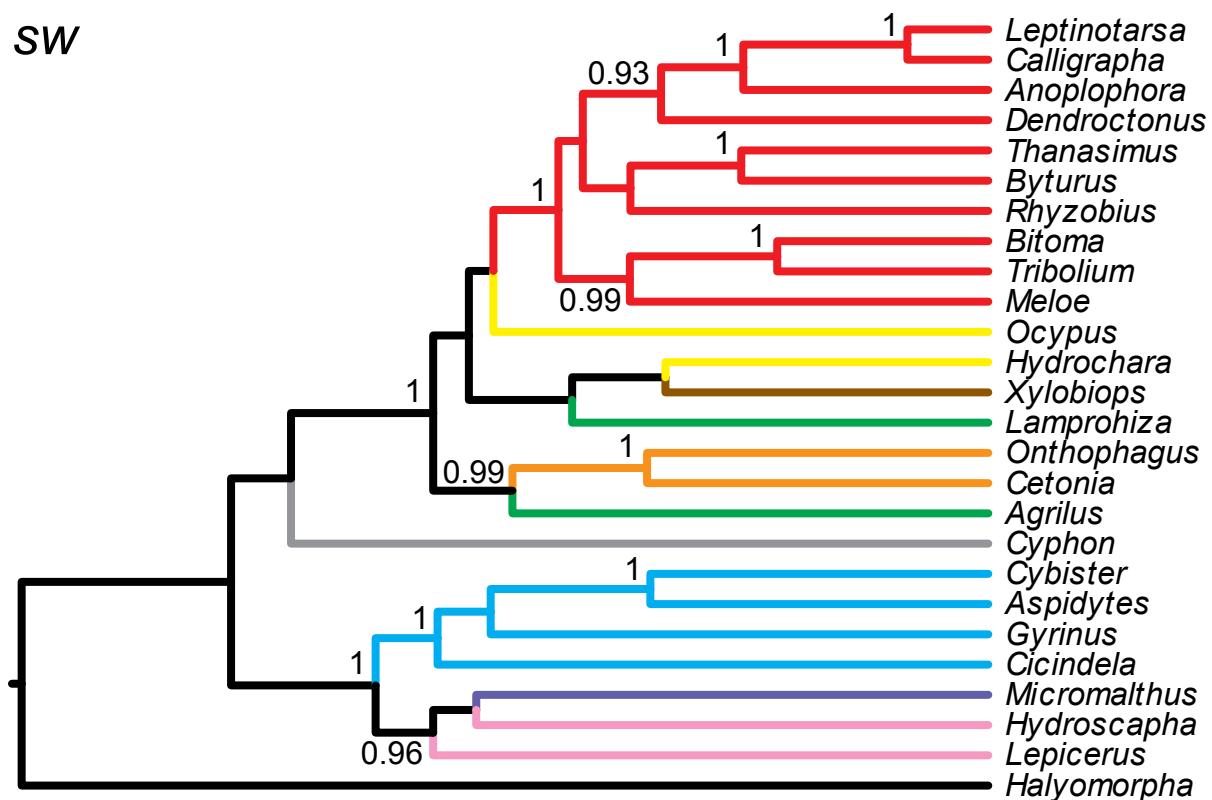
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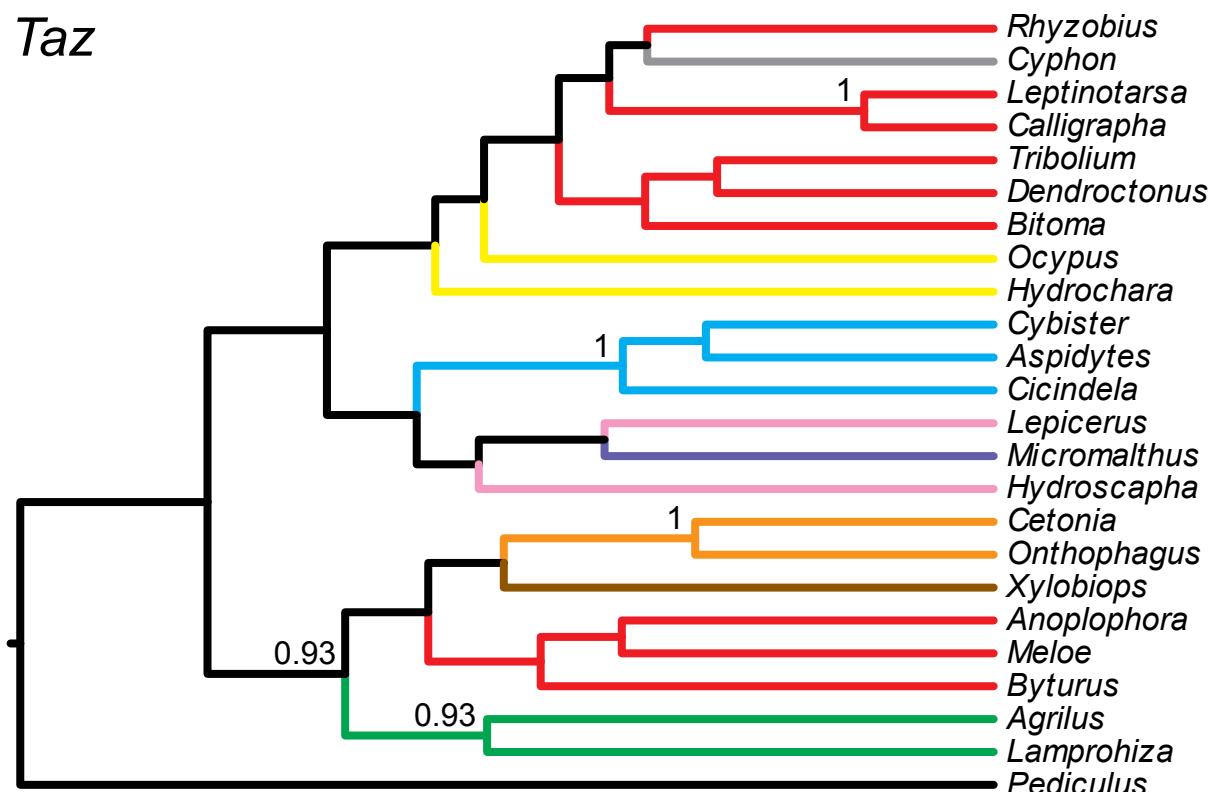
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SW



Taz



Vps28

